

IN THE COMMON PLEAS COURT, CUYAHOGA COUNTY, OHIO

IN RE: ALL BARON & BUDD CASES	)	ASBESTOS MASTER CASE
IN WHICH THE WILL-BURT	)	NO. 073958
COMPANY IS NAMED AS A	)	
DEFENDANT	)	
	)	JUDGE HARRY A. HANNA
Plaintiffs,	)	
	)	THE WILL-BURT COMPANY'S
vs.	)	ANSWERS TO PLAINTIFFS'
	)	INTERROGATORIES
A-BEST PRODUCTS COMPANY, ET AL.)	)	
	)	
Defendants.	)	

INTERROGATORIES

1. For each Interrogatory below, please state the name and the last known address of each person answering it, including whether he/she is employed by Defendant and if employed by Defendant include job title, length of time employed by Defendant and a year by year list of all other position, titles, or jobs held when working for Defendant.

Answer: a. Jeffrey Evans, The Will-Burt Company,
Yes, President & CEO, 8 years total.
Other positions: Director and Vice-President

1.1 Please identify all documents used, related to, or referred to in connection with the preparation of or answers to these Interrogatories and state the number Interrogatory and its subpart to each such document.

Answer: See documents attached to Defendant's Responses to Requests for Production.

2. Please state whether or not Defendant is a corporation. If so, please state:

- (a) Your correct corporate name;
- (b) The state of your incorporation;
- (c) The address of your principal place of business;
- (d) Your registered agent for service in the state of Ohio;
- (e) For each Defendant claiming that this Court lacks personal jurisdiction, list year by year the total amount of income received by Defendant from entities in Ohio, any and all years that Defendant, as defined, has been licensed to do business in Ohio, and any real property owned at any time by Defendant or its present or past subsidiaries.

Answer: a. **The Will-Burt Company**
 b. **Ohio**
 c. **169 S. Main St., Orrville, OH 44667**
 d. **Dennis Donahue**
 e. **N/A.**

3. State Defendant's complete corporate or business history, including dates of incorporation, mergers, consolidations, reincorporations, and the like. Also provide historical information regarding all predecessors, prior names, asset purchases, acquisitions or spin-offs. In addition:

- (a) if Defendant or any of its predecessors or subsidiaries at any time purchased, assumed, or in any other manner acquired ANY of the assets and/or liabilities of any corporation or entity at any prior time engaged in any aspect of the placing of asbestos-containing products into the stream of commerce or the insuring of asbestos-related risks; then please state the following as to each acquisition:
- (b) the name or description of each corporation, entity or assets acquired by Defendant, that entity's state of incorporation and principal place of business, its date of incorporation, and the name of the Defendant at the time of acquisition;
- (c) the manner by which each such corporation, entity or interest therein, was acquired (e.g., merger, consolidation, change of name, stock sale, transfer or purchase of assets or product line);
- (d) the date of each such acquisition;
- (e) the state in which each such acquisition was effected;
- (f) the state law governing each such acquisition if specified by contract;
- (g) whether Defendant became legally responsible for the past torts of each such corporation or entity;
- (h) identify each document reflecting or related to the history and/or transaction(s) set forth in answer to this Interrogatory.

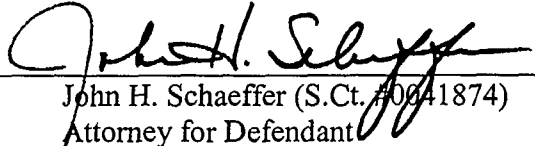
Answer: **Objection. Overbroad and Burdensome. Not calculated to lead to the discovery of admissible evidence. Without waiving said objection, The Will-Burt Company was incorporated in 1918. It was formed by William Tschantz and Burton Cope. In the 1960s, Will-Burt acquired the heating division of The Illinois Iron and Bolt Company; certain assets of the Iron Fireman Stoker Division of Space Conditioning, Inc.; the Anchor Stoker Division of Straton and Terstegg Company; the Tool and Die Operations of Dell Industries; and, Thomas Mold and Die Company.**

In 1986, Will-Burt became employee owned via an ESOP transaction (Employee Stock Ownership Plan). Today, the employees of The Will-Burt Company are 100% owners. In 1997, Will-Burt purchases Accurate Electronics, a company building printed circuit boards and electromechanical equipment and components.

As for all of the subsections to this interrogatory, unknown.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By: 
John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

4. Please state whether or not Defendant has purchased, assumed, or in any other manner acquired any of the assets and/or liabilities of any corporation or entity (such corporations or entities being limited to those engaged in the mining, selling, manufacturing, marketing or distribution of asbestos-containing products.) If so, please state the following:

- (a) the name or description of each corporation, entity or assets acquired by Defendant, its state of incorporation and principal place of business, its date of incorporation, and the name of Defendant at the time of acquisition;
- (b) the manner by which each such corporation, entity, or interest therein, was acquired (e.g. merger, consolidation, change of name, stock sale, transfer or purchase of assets or product line);
- (c) the date of each such acquisition;
- (d) the state in which each such acquisition was effected;
- (e) the state law governing each such acquisition if specified by contract;
- (f) whether Defendant became legally responsible for the past torts of each such corporation or entity;
- (g) whether the acquisition concerned asbestos-containing products.

Answer: See Answer to Interrogatory No. 3 above.

4.1 For each corporation, other than the answering Defendant, that has at any time in the past been involved in the placing of asbestos-containing products into the stream of commerce for which officers of the answering Defendant's corporation have also served as officers, directors or served in any managerial position while employed by the answering defendant, state:

- (a) the name of the entity involved in the placing of asbestos products into the stream of commerce;
- (b) the manner in which the entity was involved in the placing of asbestos containing products into the stream of commerce (i.e., mining, milling, manufacturing, distributing, installing, rebranding, etc.);
- (c) the specific products placed into the stream of commerce by the entity, year by year and by brand or trade name;
- (d) the name, positions and a brief description of the responsibilities of the person or persons serving the answering Defendant and the entity simultaneously, including the positions held with the entity and with the answering Defendant.

Answer: **N/A, to this Defendant's knowledge.**

5. Has Defendant ever engaged in the mining, manufacturing, selling, marketing, installation or distribution of asbestos-containing products? If so, please state the following:

- (a) The name of the company engaged in the activity (whether it is Defendant, Defendant's predecessor, Defendant's subsidiary or some other entity related to Defendant);
- (b) As to each product mined, manufactured, sold, marketed, installed or distributed, please state the following:
 - (1) The trade or brand name
 - (2) Its identification number (model, serial number, etc.).
 - (3) The time period it was manufactured, mined, marketed, distributed, or sold.
 - (4) Its physical description including color, general composition, and form.
 - (5) A detailed description of its intended use and purpose.
 - (6) A detailed description of the type of package in which it was sold, listing the dates of each type of package used, a physical description of the package, and a description of any printed material or trademarks that appear thereon.
 - (7) The percent of asbestos which it contained.
 - (8) The percent of asbestos by asbestos type (amosite, crocidolite, tremolite, anthophyllite, chrysotile).
- (c) The time period during which each of these products were on the market;
- (d) The material components/ingredients of each such product, giving specific or approximate percentage both by weight and by volume of each material component/ingredient (this interrogatory is not limited to the asbestos component of the product but seeks information on the nature, weight and volume of non-asbestos ingredients, as well) of each such product;
- (e) How each of these asbestos-containing product can be distinguished from those of competitors;
- (f) A description of the physical appearance of such product;
- (g) A detailed description of intended uses.

Answer: **Yes.**

1. Fire Doors

- a. **The Will-Burt Company.**
- b. (1) **Iron Fireman Manufacturing Co.**
 - (2) **Unknown**
 - (3) **Approximately 1966-1983**
 - (4) **Objection. Vague and ambiguous. Without waiving said objection, the doors were made of heavy cast iron and measured approximately 2' by 2'.**
 - (5) **The door provided access to firing chamber of a boiler.**

- (6) Objection. Vague. Without waiving said objection, the doors were packaged in a wooden crate.
- (7) Unknown; Believed to be de minimis.
- (8) Unknown

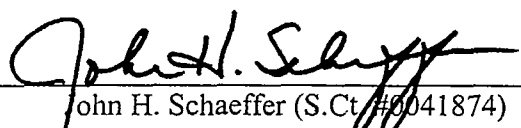
- c. Unknown start, ended in early 1980s.
- d. Objection. Unduly burdensome. Without waiving said objection, Will-Burt bought the castings, which were 99% cast iron, from a foundry and did machining on it.
- e. "Iron Fireman" written on it. Unknown if logo on it.
- f. See Answer to (b)(4) above.
- g. See Answer to (b)(5) above.

2. Stoker Fan Assemblies

- a. The Will-Burt Company.
- b. (1) Iron Fireman Manufacturing Co. or The Will-Burt Company
- (2) 401 Series Pneumatic Spreader Stoker, including models: PS-75, PS-110, PS-160, PS-200, PS-300, and PS-400
- (3) Approximately 1949-1983
- (4) Objection. Vague. Without waiving said objection, green painted cast iron and steel.
- (5) Mechanical coal delivering machine and provides air to burn coal; approximately 12' to 14' in length.
- (6) Objection. Vague. Without waiving said objection, wooden crate.
- (7) Unknown.
- (8) Unknown
- c. Unknown.
- d. Objection. Unduly burdensome. Without waiving said objection, Will-Burt bought the castings, which were 99% cast iron, from a foundry and did machining on it.
- e. "Iron Fireman" written on it. Unknown if logo on it.
- f. See Answer to (b)(4) above.
- g. See Answer to (b)(5) above.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By: 

John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

6. Does Defendant or any of its subsidiary companies claim that any patent would cover any product listed in answer to Interrogatory No. 5? If so, please state the following:

- (a) The date of each patent;
- (b) The date same was issued;
- (c) The number of each patent application that is pending.

Answer: Unknown. The two products were believed to be patented at one time, but patents have since expired.

7. Have any of the products listed above in answer to Interrogatory No. 5 been altered in chemical composition since first being marketed? If so, please state the following:

- (a) The trade name of each such product;
- (b) The date each such product was altered;
- (c) The nature of the alteration;
- (d) The reason for the alteration.

Answer: Products were changed over time. The de minimis use of asbestos was eliminated in the early 1980's.

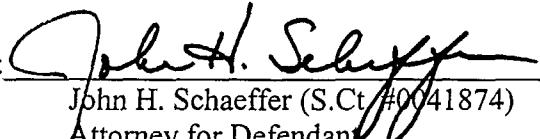
8. Have any of the asbestos-containing products listed in response to Interrogatory No. 5 ever been marketed, distributed, packaged, labeled, and/or sold by any other company or business? If so, please state the following:

- (a) The name and address of each such company.
- (b) The names and address of Defendant's distributors in Ohio, West Virginia, Pennsylvania and Kentucky since 1940.
- (c) The date of each sale.
- (d) The name of the person at each location with whom you primarily dealt.
- (e) A list of all asbestos-containing products that you sold to each location from 1945 to 1980.
- (f) The amount of each asbestos product sold to each location during this period.
- (g) Please identify all documents relating to this distributor for the particular location.

Answer: Objection. Vague, ambiguous, irrelevant and unduly burdensome. Interrogatory asks if products sold by others, but then subset inquiries relate to sales by this defendant. Without waiving said objection, Defendant states that the stoker fan assemblies were sold by Iron Fireman Manufacturing Co. prior to Will-Burt purchasing certain assets of that company. As to all of the subset questions, unknown.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By: 
John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

8.01 Has Defendant ever purchased asbestos-containing products from any other Defendant?

Answer: Not to this Defendant's knowledge.

8.02 If the answer to the preceding Interrogatory is yes, please state the following:

- (a) name each Defendant from whom this Defendant purchased any asbestos-containing product;
- (b) list each product purchased from each co-Defendant;
- (c) list the dates of each purchase of asbestos-containing products from each co-Defendant.

Answer: N/A. See Answer to Interrogatory 8.01.

8.03 Has Defendant ever sold asbestos-containing products to any other Defendant?

Answer: Not to this Defendant's knowledge.

8.04 If the answer to the preceding Interrogatory is yes, please state the following:

- (a) name each Defendant to whom this Defendant sold any asbestos-containing product;
- (b) list each product sold to each co-Defendant;
- (c) list the dates of each sale of asbestos-containing products to each co-Defendant.

Answer: N/A. See Answer to Interrogatory 8.03.

8.05 Has Defendant engaged in the manufacture and/or sale and/or distribution and/or marketing and/or supply and/or purchase and/or use of non-asbestos-containing products for use in connection with temperatures above 125° Fahrenheit since 1930? If so, please state:

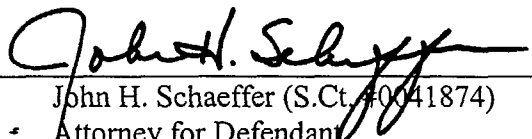
- (a) the date such activity began;
- (b) the years during which such activity took place;
- (c) the date when such activity was terminated;
- (d) if such activity was terminated, the reason(s) why;

- (e) the geographical area into which you claim the product(s) were sold, purchased, or used;
- (f) identify the organizational unit of Defendant so engaged;
- (g) the site(s) at which each such product was manufactured;
- (h) the material components of each such product, giving specific or approximate percentage both by weight and by volume of each material component of each such product;
- (i) the temperature ranges for which each product(s) was intended to be used;
- (j) the product's generic name;
- (k) the product's trade or brand name;
- (l) the container in which the product was shipped (i.e., paper bags, cardboard boxes) including the size and amount of the container;
- (m) a description of any logos, writing impressions or identifying markings which appeared on the product, as well as a description of the package used, the dates that type of package was used, and any logos, product names, trademarks, etc. which appeared on the package;
- (n) whether the words "non-asbestos" or "asbestos-free" were used on the package;
- (o) a detailed description of the intended method of preparation and application of the product;
- (p) a description of the physical appearance of the product, including size, shape, color and texture.

Answer: Objection. Vague, Overbroad, Unduly burdensome, Irrelevant, and not reasonably calculated to lead to the discovery of admissible evidence. Without waiving said objection, Yes. Defendant manufactured and sold other stokers, space heaters and stoves that did not contain asbestos.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By: 
 John H. Schaeffer (S.Ct. #0041874)
 Attorney for Defendant

8.06 Did Defendant ever market or distribute any asbestos-containing product manufactured in whole or in part by someone else? If so, please state the following for each product:

- (a) the name and address of the manufacturer;
- (b) the product's trade and brand name;
- (c) the organizational unit of Defendant who did so;
- (d) date(s) beginning, ending and during which the marketing or distributing took place;

- (e) whether the product was distributed through the same channels as those used for products manufactured by Defendant, and if not, please explain the exact channels of distribution;
- (f) identify all documents relating the marketing or distribution.

Answer: **Not to this Defendant's knowledge.**

8.1 Does Defendant have reason to believe that any of the asbestos-containing products listed in response to Interrogatory No. 5 were used at any of the sites listed on Exhibit A, attached hereto? If your answer is "yes", please state:

- (a) The basis of your answer.
- (b) Which of Defendant's asbestos-containing products listed in Interrogatory No. 5 were used at each job site listed on Exhibit A.

Answer: **Not to this Defendant's knowledge.**

8.2 For each company or business that Defendant knows may have marketed, distributed, installed, and/or sold those products listed in response to Interrogatory No. 5, please state the following as to each job site listed on Exhibit A:

- (a) The name and address of each such company;
- (b) The date of each sale from Defendant to such other company;
- (c) The name of the person at each company with whom Defendant primarily dealt;
- (d) Names and quantities of the asbestos-containing products that you marketed, distributed, installed, and/or sold to each such company from 1950 to 1974.
- (e) Identify all documents relating to the sales to each such company.

Answer: **N/A.**

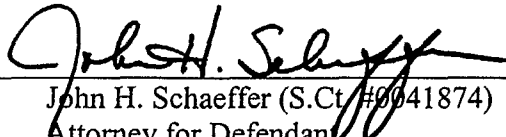
8.3 If you do not know any business that may have marketed, distributed, installed, and/or sold the products listed in the response to Interrogatory No. 5 to any job sites listed on Exhibit A, please state the names and last known addresses of those companies who Defendant knows marketed, distributed, installed and/or sold their asbestos-containing products in Ohio from 1950 to 1974. For each of those companies, please state the following:

- (a) Name and address of each such company;
- (b) The dates of each sale from Defendant to such other company;
- (c) The name of the person at each other company with whom Defendant primarily dealt;
- (d) The names of the asbestos-containing products that Defendant marketed, distributed, and/or sold to each such company from 1950-1974.

Answer: **Objection. Overbroad, Unduly burdensome, Impossible to answer.**

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By: 
John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

8.4 Does Defendant have records and/or any knowledge that reflects sales of their asbestos-containing products to any of the sites listed on Exhibit A, attached hereto? If so, please state the following as to each job site listed on Exhibit A:

- (a) The names and last known addresses of those people with such knowledge.
- (b) The location of such records.

Answer: Not to this Defendant's knowledge.

9. Did Defendant or any of Defendant's distributors, as listed in response to Interrogatory Nos. 8.1, 8.2, and/or 8.3 have sales representatives who specifically called on the sites listed on Exhibit A, attached hereto, from 1945 to 1975? If your response is yes, as to each site listed on Exhibit A, please state the following:

- (a) The names and last known address of each such representative and whether they are still employed by Defendant;
- (b) The period of time they acted as your representative;
- (c) Their general responsibility as to each facility;
- (d) Whether that person is still alive; and
- (e) Any documents relating, referring or pertaining thereto.

Answer: Not to this Defendant's knowledge.

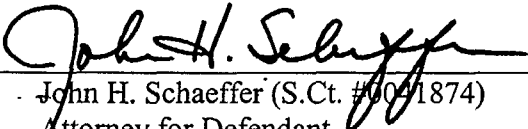
9.1 Identify all managers and sales personnel responsible for your sales or installation of any asbestos-containing products in Ohio from 1930 to the present and state their position, last known address and the local or regional office through which they were employed.

Answer: Objection. Overbroad, unduly burdensome. Without waiving said objection,
Walter Struckmeyer (deceased);
Marla Allison, 1511 South Kohler Road, Orrville, OH 44667
Karen Boley, 10419 Smucker Road, Orrville, OH 44667
Tammy Butler, 1114 Whitegate Court, Sarasota, FL 34232
Randy Fath, unknown
Harve Linder, 403 West Oak Street, Orrville, OH 44667
Donovan Milham, 1105 Heatherwood Lane, Orrville, OH 44667
Jeff Milligan, 1038 Valley Drive NW, North Canton, OH 44720

Steve Steiner, 1842 Tammy Court, Orrville, OH 44667
Rod Webner, 202 E. Oak Street, Orrville, OH 44667

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By: 
John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

10. Did Defendant ever have any division or subsidiary engaged in the contract business of applying or removing asbestos-containing products? If so, please state:

- (a) The name of each subdivision;
- (b) The full address of the home office and the date such subdivision or subsidiary was engaged in this contracting business; and
- (c) Whether said division or subsidiary conducted such business at any of the sites listed on Exhibit A from 1940-1975? If so, please state the following as to each job site listed on Exhibit A;
 - (1) The dates of such contracts;
 - (2) The specific asbestos-containing products that were used or removed in each contract.

Answer: No.

11. Did Defendant ever have any division or subsidiary engaged in the contract business of applying or removing asbestos-containing refractory? If so, please give the name of each subdivision, the full address of the home office and the date such subdivision or subsidiary was engaged in this contracting business.

Answer: No.

12. Please identify by location and product produced, each plant in which products listed in your answer to Interrogatory No. 5 have been manufactured and/or assembled and the dates said plants have been in operation.

Answer: Both products produced at Plant 4, 240 W. Church Street, Orrville, OH (no longer property of Will-Burt). Plant was in operation on these products from unknown start date to the early 1980s.

13. Has Defendant, at any time, entered into a "rebranding" agreement with any other company, either as a buyer or a seller, concerning any asbestos-containing products and/or materials? If so, please state:

- (a) The name of the company manufacturing the asbestos products under such agreement;
- (b) The trade name affixed to such products;
- (c) The periods of time covered by such agreement;
- (d) The volume (in dollars amounts) of each such transaction;
- (e) The purchaser of such products;
- (f) Does Defendant currently have in its possession any of the writings or contracts concerning such rebranding agreement?

Answer:- No.

13.1 Have you ever owned or operated a business or portion thereof which engaged in construction, erection or tear-out of furnaces, pipes, boilers, turbines, lehrs, ovens, kilns, etc.? If so, please state:

- (a) the name of said business;
- (b) the date of commencing business and cessation of business, if applicable;
- (c) type of construction or tear-out performed;
- (d) state whether said business installed or supplied asbestos-containing products on the furnaces, pipes, boilers, turbines, lehrs, etc., i.e., gaskets, pipecovering, block, cement, rope, cloth, clothes, etc., containing asbestos, asbestos pipe, board, etc.;
- (e) state the trade name and/or manufacturer of any asbestos-containing product which you installed or supplied to any site on Exhibit A.
- (f) provide the dates for the applicable construction, installation or tear-out project.

Answer: Yes, as to construction.

- (a) The Will-Burt Company.
- (b) Unknown.
- (c) Construction of heat processing furnaces.
- (d) No.
- (e) N/A.
- (f) Unknown.

13.2 Do you have within your custody, possession, or control any packages that presently or formerly packaged asbestos-containing products or were produced for the purpose of packaging asbestos-containing products contemporaneous with your manufacture sale or distribution of such asbestos-containing products? If so, provide the following:

- (a) a description of each such package;
- (b) the present location and custodian of each such package;
- (c) the date or approximate date on which each such package was produced.

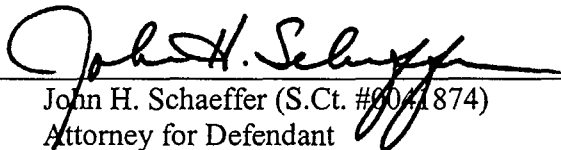
Answer: No.

14. What is the name, address and job title of each individual who participated in the design and preparation of manufacturing specifications for each such product listed above in answer to Interrogatory No. 5?

Answer: Objection. Overbroad, unduly burdensome. Without waiving said objection, Unknown.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

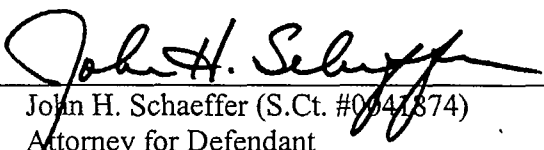
By: 
John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

15. As to each product listed in response to Interrogatory No. 5, please describe how each product was to be cut, shaped, scribed, mixed and applied on the job. In answering this question, give particular reference as to whether or not the materials were to be sawed or cut on the job, blown into confined areas, mixed with water in a cement or paste.

Answer: Objection. Vague and ambiguous. Without waiving said objection, Defendant states that for the fire doors, asbestos rope was to be placed in a groove around the door and pressed down. For the Stoker Fan Assemblies, a fans housing seal (Gasket PS 2485) and a bottom plate gasket (PS 2173) used asbestos rope and sheeting which was cut to size.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By: 
John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

16. Based upon the material contents of the asbestos-containing products, the method of manufacturing, and the method of application, please state which products listed in Interrogatory No. 5 could be applied by a worker without creating a dust.

Answer: Unknown.

17. Do any documents, including but not limited to, written memoranda, specifications, recommendations, blueprints or other written materials of any kind or character now exist relating to the design and preparation of the products listed in answer to Interrogatory No. 5? If so, please:

- (a) List each such written material or document;
- (b) Identify the person or persons presently in possession of each such document;
- (c) State where each such document is located.

Answer: Yes. See attached.

18. Prior to releasing the products listed in Interrogatory No. 5 for sale and usage, were any tests (either animal or human) conducted on said products to determine potential health hazards involved in the use of, exposure to, the materials and/or products? If so, please state:

- (a) The name of the products tested and the date of each test.
- (b) The name, address, and job classification of each individual who conducted such tests;
- (c) The results of such tests.

Answer: Not to this Defendant's knowledge.

18.1 Prior to releasing any products for sale and usage (whether asbestos-containing or not), were any tests (either animal or human) conducted on said products to determine potential health hazards involved in the use of, or exposure to, the materials and/or products? If so, please state:

- (a) The name of the products tested and the date of each test.
- (b) The name, address, and job classification of each individual who conducted such tests;
- (c) The results of such tests.

Answer: Objection. Overbroad, unduly burdensome, not reasonably calculated to lead to the discovery of admissible evidence. Without waiving said objection, Will-Burt tested all furnace products for carbon monoxide leaks prior to the product leaving the factory.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By:


John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

19. Does Defendant have or control any documents, including but not limited to, written memoranda, specifications, recommendations, blueprints or other written materials of any kind or character relating to the testing of the products listed in Interrogatory No. 5 hereinabove?

- (a) Identify each such written material or document;
- (b) Identify each person who presently has possession of each such document;
- (c) State where each such document is located.

Answer: No.

20. Were any design changes or modifications made as a result of such tests listed in answer to Interrogatory No. 18 hereinabove? If so, please state:

- (a) The trade name of the product changed or modified;
- (b) The nature of the change made and the date of such changes or modifications;
- (c) The name, address, and job classification of each person in charge of making a change.

Answer: N/A.

21. After releasing for sale, distribution or marketing the products listed in answer to Interrogatory No. 5, did Defendant conduct any tests (either on animals or humans) to determine potential health hazards involved in the use of said materials and/or products?

- (a) The names of the products tested and the dates of said tests;
- (b) The name, address, and job classification of each person and/or agency conducting said tests;
- (c) The results of said tests;
- (d) Whether, as a result of any tests conducted, any products were removed from the market;
- (e) The names of all products removed from the market as a result of said tests.

Answer: No.

22. Has defendant ever conducted or caused to be conducted any studies concerning the effects of the inhalation of asbestos dust and/or fibers on workers or other persons applying, using and/or working around any asbestos products manufactured, sold, distributed and/or relabeled for distribution by you or your predecessor? If so, please state:

- (a) The dates and nature of such studies;
- (b) The names and addresses of persons conducting such studies;
- (c) The purpose of such studies;
- (d) Identify and list those persons to whom such reports were given and the date of such dissemination;
- (e) State any publication or other written dissemination of the results of such studies;
- (f) State the nature of any action to eliminate or minimize the inhalation of asbestos dust fibers; and
- (g) Attach a copy of reports based upon such studies.

Answer: **No.**

23. Before placing in the market the asbestos-containing products that Defendant, mined, manufactured, sold, marketed, installed or distributed on the market, did Defendant make or cause to be made, any studies to determine whether their asbestos-containing products would be hazardous to people? If so, please state:

- (a) The date of said studies;
- (b) What studies were done; and
- (c) The titles of each study.

Answer: **Not to this Defendant's knowledge.**

24. Please state whether or not Defendant ever conducted or caused to be conducted any tests in the field (where asbestos-containing products were applied, removed or utilized) to determine the nature and extent of asbestos dust and/or fiber exposure to insulators, applicators, fellow employees, or other workers removing and/or tearing out asbestos-containing products, and/or other workers in the vicinity thereof? If so, please identify:

- (a) The date, place and nature of each and every test;
- (b) The particular asbestos-containing products to which each test applied;
- (c) The results of each test with particular reference to the number of asbestos fibers per cubic centimeter of air found at each site; and
- (d) The persons to whom the results said tests were given and the date of such dissemination.

Answer: **Not to this Defendant's knowledge.**

25. Please state whether or not Defendant ever obtained any knowledge concerning the likelihood of asbestos being hazardous to human health. If so, please state:

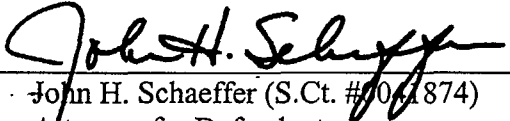
- (a) When Defendant first became aware of the hazardous potential of asbestos dust and asbestos fibers;
- (b) The manner in which the Defendant, Defendant's predecessor, or Defendant's subsidiary companies first obtained this knowledge and became aware of said hazards and from what source this information was obtained;
- (c) What information was disseminated within Defendant's company, or its subsidiary or predecessor regarding such adverse consequences or effects;
- (d) Whether any such information is still maintained by Defendant or its subsidiary or predecessor in any written form.
- (e) The name, address and job classification of the custodian of such information.

Answer: **Objection. Vague and ambiguous, overbroad and unduly burdensome. Without waiving said objection, Will-Burt states that at some unknown time, company officials likely gathered some information informally from news reports, magazine**

articles, and certainly from this litigation that asbestos is alleged to be hazardous to human health.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By: 
John H. Schaeffer (S.Ct. #001874)
Attorney for Defendant

26. Please state when Defendant first became aware of the possible association between inhalation of asbestos dust and/or fibers and the contraction of asbestosis and cancers including, but not limited to gastrointestinal cancer, laryngeal cancer, renal cancer, lymphoma, lung cancer and mesothelioma. As to each disease or condition, please state the source of that information, including a description of all tests conducted relative to the possibility of such a relationship.

Answer: Unknown.

27. Please identify all physicians, industrial hygienists, and other employees (including their names and addresses) who were employed, retained or otherwise engaged by Defendant for research, investigation or study concerning asbestos-related diseases.

Answer: None/unknown.

28. As to each person who acted in a medical advisory capacity (as it relates in any way to asbestos) to Defendant, please list their name, the date individual acted in this capacity, and that person's current address and job title.

Answer: N/A.

29. Please state if any medical officer or industrial hygienist or medical consultant ever made at any time any recommendations and/or suggestions to Defendant pertaining the risks or hazards to persons involved in the manufacture or use of asbestos products and, if so, please state when, by whom or to whom such recommendations and/or suggestions were made and the substance of each recommendation.

Answer: N/A.

30. Please state the scientific and/or medical periodicals to which Defendant, its medical department, research department, industrial hygiene divisions, engineering department or consulting physicians subscribed between 1945 and 1975.

Answer: N/A.

30.1 Please state whether Defendant, its medical officer or industrial hygienist or medical consultant or physicians were ever involved in testing or receiving literature or correspondence from the Mellon Institute.

Answer: N/A.

30.2 Has Defendant, or any engineer, industrial hygienist or physician in Defendant's employ, been a member in any professional group, trade group or any of the following groups:

American Ceramic Society
Asbestos Textile Institute
National Insulation Manufacturers Association
Thermal Insulation Manufacturers Association
Quebec Asbestos Mining Association
Asbestos Information Association
Industrial Health Foundation
Industrial Hygiene Foundation
Iron and Steel Institute
National Safety Council
Refractories Institute
Air Hygiene Foundation of America, Inc.
Sprayed Mineral Fiber Association
American Society of Mechanical Engineers

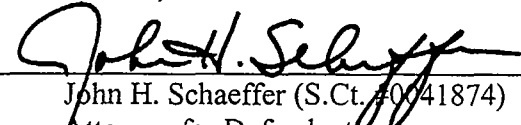
If the answer is yes, state the following:

- (a) The name of the group or groups in which Defendant or individual(s) were members;
- (b) The name and position individual(s) within the Defendant, as defined, who were members;
- (c) The years Defendant or individual(s) were members of the groups;
- (d) Whether Defendant paid the individual(s) dues or membership fees or reimbursed the individual(s) for dues or membership fees in the group.

Answer: Objection. Overbroad, unduly burdensome. Without waiving said objection, Will-Burt may have had employees who were members of ASME, but unable to identify those persons at this time.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By: 

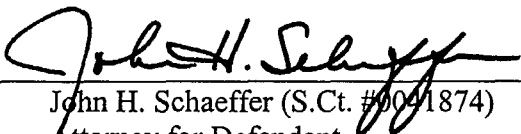
John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

31. State in detail what test, if any, Defendant ever made with regard to the quantity, quality, or threshold limit values of asbestos dust, fibers or particles to which workers were exposed while using, working with and/or around, installing and/or applying your asbestos-containing products.

Answer: Objection. Overbroad, unduly burdensome. Without waiving said objection, Unknown.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

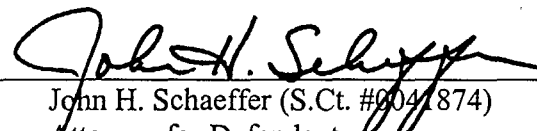
By: 
John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

32. For each test described in Interrogatory No. 31, please give the name of the person conducting the test, the date of the test, and attach true copies of any documents, including but not limited to, reports, findings or memoranda concerning such tests or studies.

Answer: Objection. Overbroad, unduly burdensome, not reasonably calculated to lead to the discovery of admissible evidence. Without waiving said objection, Unknown.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By: 
John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

33. * Please state the year that Defendant was first advised of either threshold limit values or maximum allowable concentrations of both asbestos dust and total dust by the American Conference of Governmental Industrial Hygienists and state the name of the employee/official of the company receiving such advice.

Answer: Unknown.

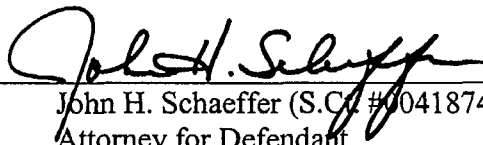
33.1 State whether Defendant at any time conducted, caused to be conducted, or had conducted on any job site, or at any of Defendant's plants or buildings, any air sampling, dust counts, dust observations, dust sampling tests or other activities to determine air quality. If your answer is in the affirmative, please indicate:

- (a) the date of any such air samples, tests, or activities;
- (b) by whom such activities were performed;
- (c) where such activities were performed;
- (d) the results of any such activities.

Answer: Objection. Overbroad and unduly burdensome. Without waiving said objection, Will-Burt states that it has tested and continues to test air quality routinely in compliance with OSHA standards, but not specifically for the presence of asbestos.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By: 
John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

34. Does Defendant maintain a library dealing with industrial hygiene, medicine, safety and engineering and/or research? If so, state:

- (a) The date each such library was established;
- (b) The locations of each library;
- (c) The name(s) of the librarian(s) since 1930;
- (d) List all journals subscribed to by you concerning asbestos, industrial hygiene, medicine, safety, and or/engineering;
- (e) List all books and articles dealing with asbestos and asbestos related-diseases and the date acquired.

Answer: Not to this Defendant's knowledge.

35. Did Defendant in the 1920's or the 1930's commission, or participate in the arrangements with Metropolitan Life Insurance Company for studies at the Trudeau Foundation at Saranac Lake, New York, concerning the effect of inhalation or ingestion of asbestos fibers upon human and/or animal bodies.

Answer: Not to this Defendant's knowledge.

36. When was Defendant first aware of reports of studies of the Trudeau Foundation at Saranac Lake, New York, entitled "Effects of the Inhalation of Asbestos Dust in the Lungs of Asbestos Worker" by A.J. Lanza, Assistant Medical Director published in the J. Public Health Report, Vol. 50, No. 1, dated November 4, 1935 ("Lanza Report")?

Answer: Never, to this Defendant's knowledge.

36.1 Did Defendant ever contract with Saranac Laboratories to study the hazards of any dust producing product manufactured by you (whether asbestos-containing or not)? If so, identify by date and author all documents concerning or any way related to such study.

Answer: Not to this Defendant's knowledge.

36.2 Did Defendant ever contract with Saranac Laboratories to analyze dust or products? If so, identify by date and author all documents concerning or any way related to such analysis.

Answer:- Not to this Defendant's knowledge.

37. Please state whether Defendant at any time has been a member of any "trade organization" or "trade association" composed of other manufacturers, miners, distributors, and/or sellers of asbestos-containing products and, if so, please identify the name and address of each such association or organization, the dates of membership, and names of any publications issued or written by such association or organization.

Answer: Not to this Defendant's knowledge.

38. With respect to each trade organization or association listed in answer to Interrogatory No. 37, please state whether the minutes of the group's meetings and any correspondence between the members of such groups concerning the hazards of asbestos exposure are available.

Answer: N/A.

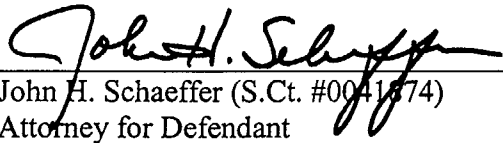
39. Please identify by name the technical and trade association periodicals to which Defendant subscribed, and state whether Defendant had knowledge of any articles being printed, or withheld from printing, in said periodicals pertaining to the potential hazards of asbestos. If so, please state the following:

- (a) The title of each such article;
- (b) The periodical in which each such article was published;
- (c) The date each article was published;
- (d) A detailed explanation of the reason for withholding any such article for printing;
- (e) Produce documentation which refers, alludes or mentions articles which were withheld for publication.

Answer: Objection. Overbroad, unduly burdensome. Without waiving said objection, Unknown.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By: 
John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

40. Please state whether, prior to 1975, Defendant sponsored, or attended any meeting, seminar, conference, convention or legislative hearing where the subject of occupational health and exposure to asbestos was discussed and, if so, please state the date and place such meeting and the name and address of any speakers or participants.

Answer: Not to this Defendant's knowledge.

41. As to each product listed in response to Interrogatory No. 5, please state whether Defendant, at any time, published and/or distributed any printed materials, including but not limited to brochures, pamphlets, catalogs, packagings or other written materials of any kind or character that contain any warnings, cautions, caveats or directions concerning the possible health effects of the products on a person. If so, please state as to each product:

- (a) The name of each relevant product;
- (b) The wording of each such warning;
- (c) A description of each such printed material;
- (d) The method used to distribute the warning to persons who are likely to use the products;
- (e) The date each such warning was issued;
- (f) Whether any warning accompanied any of your asbestos-containing products' sales literature, handout or pamphlets;
- (g) Please attach a copy of the warning and the date said warning was issued;
- (h) The name, address, and job classification of each person who presently has possession of the above-described documents;
- (i) The name or names and addresses of the company who provided, produced, or manufactured the boxes or containers on which the warning appeared and dates these boxes with the warnings appeared.

Answer: Unknown.

42. Has sales material been prepared by Defendant or its agents for purposes of marketing or advertising the asbestos products listed in answer to Interrogatory No. 5? If so, please state:

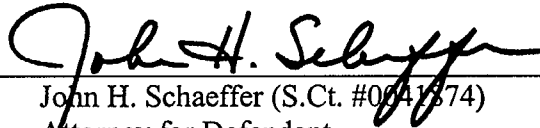
- (a) The name and address of each person or entity who prepared same;
- (b) The name, address and job title of each person who presently has possession of same;

- (c) The date same was prepared;
- (d) The media used to disseminate the sales material.

Answer: Objection. Vague, ambiguous, overbroad, unduly burdensome. Without waiving said objection, Defendant believes that such material was prepared, but Defendant is no longer in possession of that material and is unable to answer the interrogatories.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By: 
John H. Schaeffer (S.Ct. #0041374)
Attorney for Defendant

43. Has any written material of any kind or character been prepared by Defendant, Defendant's predecessor or any of Defendant's subsidiary companies or their agents indicating how the products listed in answer to Interrogatory No. 5 should be used or maintained by the ultimate user or those working in facilities or at job sites where the product was used, installed or removed, including, but not limited to, those sites listed on the job site list attached as Exhibit A? If so, please state the following:

- (a) The name, address and job classification of each person who prepared same;
- (b) The name, address and job classification of each person who presently has possession of same;
- (c) The dates and manner in which said material was distributed to purchasers of the products in answer to Interrogatory No. 5.

Answer: See Answer to Interrogatory No. 42.

44. Was any written material of any kind prepared by Defendant and distributed to those individuals listed in response to Interrogatory No. 9? If so, please state the following:

- (a) Identify the written material by content and date;
- (b) To whom it was delivered.

Answer: Unknown.

45. Does Defendant contend that asbestos-containing products can be manufactured so as to eliminate all potential health hazards to persons working with or around, installing or applying same? If so, please state the following:

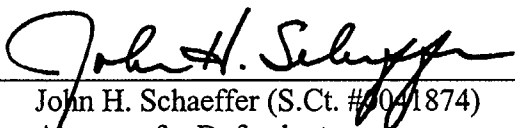
- (a) The date that Defendant first determined that another product could be used in place of asbestos;

- (b) The chemical of the substitute;
- (c) Whether the substitute is suitable for the purpose for which they are to be used;
- (d) Whether Defendant used the substitute for asbestos to 1971;
- (e) Whether Defendant ever used the substitute for asbestos for high or low heat insulation.

Answer: Objection. Vague, ambiguous, overbroad. Without waiving said objection, Unknown. Will supplement.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By: 
John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

46. Did Defendant give any warnings to any individuals as the sites listed on Exhibit A, including any individuals who owned, operated, or managed the facilities at the sites listed on Exhibit A, regarding the potential health hazards of any product listed in response to Interrogatory No. 5. If yes, please state:

- (a) Name of person most knowledgeable about this communication.
- (b) Name of person at the sites listed on Exhibit A, attached hereto most knowledgeable about this communication.
- (c) Dates of each communication.
- (d) Contents of each communication.

Answer: N/A.

47. Did any person prior to 1970, file a claim against any Workers' Compensation carrier covering Defendant alleging that he or she contracted a disease as a result of exposure to asbestos? If so, please state the following:

- (a) A list of each such claim by claimant's name, date filed, the caption and jurisdiction involved;
- (b) The disease alleged in each claim;
- (c) The brief summary of the disposition of each such claim; and
- (d) The name, address and job classification of the person or persons having custody of the records pertaining to each such claim.

Answer: Not to this Defendant's knowledge.

47.1 Please identify all documents concerning or in any way related to any decisions made by you to cease manufacturing asbestos-containing products.

Answer: No such documents exist to this Defendant's knowledge.

47.2 Has any person or company from which you purchased asbestos-containing products ever issues a recall of their products or taken any action to take those products off the market after said products were in your possession? If so, provide:

- (a) the date of said recall;
- (b) the name of the company which issued the recall;
- (c) a copy of the recall.

Answer: Not to this Defendant's knowledge.

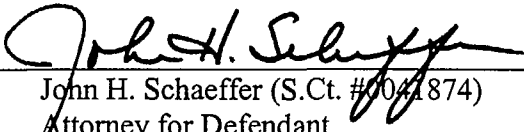
47.3 State what action, if any, you have ever taken since 1930 to minimize or eliminate any risk of occupational disease or pneumoconiosis to those at any time engaged in the manufacture or production of asbestos-containing products.

Answer: Objection. Vague, ambiguous, overbroad, unduly burdensome. Without waiving said objection, Defendant no longer possesses relevant information relating to that time period.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By: _____


John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

47.4 State what action, if any, you have ever taken since 1930 to minimize or eliminate any risk of occupational disease or pneumoconiosis to those at any time engaged in the use, as distinguished from the manufacture, or exposed to the use of asbestos-containing or industrial insulation products or who were otherwise exposed to asbestos-containing or industrial insulation products.

- (a) describe such action;
- (b) state when such action was taken;
- (c) state what written material exists related to such action;
- (d) state the names, job titles and last known address of the individuals who undertook such actions.

Answer: **See Answer to Interrogatory No. 47.3.**

48. Did Defendant receive notice prior to 1968 that any person was claiming injury or had sustained an abnormal x-ray reading as a result of using asbestos products manufactured, sold, installed, and/or distributed by Defendant? If so, please state:

- (a) The name and address of each claimant;
- (b) The date of notice of each claim;
- (c) A description of the claim;
- (d) The type of injuries allegedly sustained;
- (e) The name and address of each attorney representing the individuals making such claims;
- (f) The style and court number of each such claim;
- (g) The resolution of each such claim.

Answer: **Not to this Defendant's knowledge.**

48.1 Describe the method by which you have maintained records concerning the manufacture, sale, supply, distribution, use, advertising, delivery and/or installation or tear-out of each asbestos-containing products. For each description provide the following:

- (a) each present and former company or corporate department, division or subdivision responsible for maintaining such records;
- (b) the manner in which the records are kept (e.g., boxes, computer tape, microfilm, etc.);
- (c) the inclusive dates of any such manufacture, sale, supply, distribution, use, advertising, delivery, and/or installation or tear-out which such record keeping system covers;
- (d) the present location at which all such records are maintained;
- (e) the identity of each person employed by you at any time from 1930 to the present who is or was responsible for the collection and maintenance of such records.

Answer: **Paper records are maintained in files.**

48.2 State whether any records concerning the manufacture, sale, supply, distribution, advertising, delivery, use or installation or tear-out of asbestos-containing products have been destroyed or discarded and if so, indicate:

- (a) the date and location of such destruction or discard;
- (b) the custodian and location of such records prior to their destruction or discard and the identity of each employee, representative, official or agent who ordered, authorized or supervised such destruction or discard.

Answer: **Unknown.**

48.3 For all documents, other than invoices, work orders and/or purchase orders, which relate to matters relevant to all the preceding interrogatories:

- (a) Is there any kind of index for the documents?
- (b) How many pages is the index of documents?
- (c) How many documents are referred to in the index?
- (d) Is the index maintained in electronic format (i.e. database, word processing or other computerized format)?
- (e) What manner of electronic format is used?

Answer: No such index exists.

48.4 For all invoices, work orders and/or purchase orders, which relate to matters relevant to all the preceding interrogatories:

- (a) Is there any kind of index for the documents?
- (b) How many pages is the index of documents?
- (c) How many documents are referred to in the index?
- (d) Is the index maintained in electronic format (i.e. database, word processing or other computerized format)?
- (e) What manner of electronic format is used?

Answer: No such index exists.

49. Has Defendant obtained statements from any witnesses including Plaintiffs? If so, please:

- (a) list each witness who has given a statement and the name, address, and job title of each person having custody of any such statement.

Answer: No.

50. Do you contend that Plaintiff/Decedent improperly used those products listed in response to Interrogatory No. 5? If so, please set forth in detail in what respect the product was improperly used.

Answer: Not at this time. Will supplement.

51. As to the sites listed on Exhibit A, and as to each Plaintiff/Decedent, please state whether Defendant contends that there was any substance other than asbestos which contributed to or caused Plaintiff/Decedent's injuries. If your answer is yes, please state the following:

- (a) The facts upon which you rely;
- (b) The identity of the sources upon which you rely which substantiate these facts.

Answer: Unknown at this time. Will supplement.

52. Would any respirator, mask or other breathing devices prevent inhalation of the asbestos dust and fibers contained in products listed in answer to Interrogatory No. 5? If so, state:

- (a) When the respirator was sold;
- (b) A detailed description of such respirator or other breathing devices, including name of manufacturer and model number;
- (c) The basis of your claim that such respirators or other breathing devices will prevent inhalation of such dust and fibers;
- (d) Identify any tests performed regarding the efficaciousness of such respirators and other breathing devices in preventing the inhalation of asbestos dust and fibers including date, title, author and number;
- (e) List all documents which mention, allude or refer to tests performed on breathing devices which prevented the inhalation of asbestos dust and/or fibers.

Answer: Unknown at this time. Will supplement.

53. Does Defendant expect to call expert witnesses at the trial of this case? If so, please state the following:

- (a) Their identity and last known address;
- (b) The subject matter on which the expert is expected to testify;
- (c) The expert's specific conclusion and specific opinions and the specific basis therefore;
- (d) The expert's qualifications to render the opinions set forth above;
- (e) Whether any person identified in sub-paragraph (a) above has provided a report or other documentation to you, and if so, identify such document or report;
- (f) Identify all documents that you have provided to each person identified in response to sub-paragraph (a) above; and
- (g) Describe in detail the education and work history of, and identify any books, treaties, article, published and unpublished reports, studies or other scholarly works authorized by any individual identified in response to sub-paragraph (a) above. Alternatively, in lieu of said response, attach a copy of a resume or curriculum vitae and a list of publications to your answer.

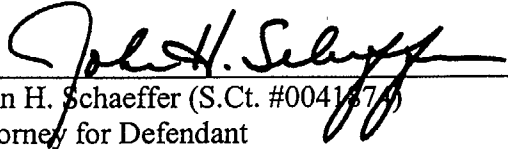
Answer: Unknown at this time. Will supplement.

54. Please state the name and last known address of each expert witness who is not retained or employed for that purpose who is an employee of Defendant and will render an opinion within his expertise at the time of trial.

Answer: Objection. Vague and ambiguous. Without waiving said objection, None at this time, will supplement.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

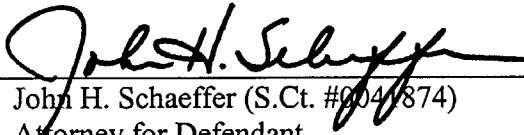
By: 
John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

55. Does Defendant admit that service of process was properly had on it in these cases? If not, please state why.

Answer: Objection. Vague and ambiguous. Without waiving said objection, Defendant states that at the time Defendant is answering these interrogatories, for all of the cases in which Defendant has been named and served, service of process is believed to be sufficient. However, this answer does not apply to cases in which Defendant has been named but not yet served as of this date.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By: 
John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

55.1 For each and every affirmative defense asserted in Defendant's Answers to Plaintiffs' Complaint, or the cross-claims or counter-claims of any party against Defendant, state:

- (a) the facts upon which Defendant relies for each and every affirmative defense;
- (b) each and every document which will be offered to prove each and every affirmative defense; and
- (c) each and every witness who will testify in support of each and every affirmative defense.
- (d) The substance and subject matter of the anticipated testimony of each witness identified in the preceding response.

Answer: Unknown at this time. Will supplement.

56. Does Defendant have policies of insurance that might cover the claims that have been made by Plaintiffs herein?

- (a) If so, please list the name of each insurance carrier who may have coverage, the amount of such coverage, and the dates of each such policy.

Answer: No insurance coverage has been identified at this time. Regarding any issue of self-insurance, Will-Burt states that 100% of the value of the business is pledged to bank liens.

56.1 Has Defendant ever been involved in any litigation concerning potential insurance coverage for asbestos products liability matters? If so, please state:

- (a) the case caption, court and date of filing of each case in which you have been involved.
- (b) whether you were Plaintiff or Defendant;
- (c) a brief statement of issues;
- (d) identify by date, author and recipient(s), (including recipients of carbon copies) all documents listed as exhibits by either party in this litigation;
- (e) identify by deponent and date all individuals who were deposed in these cases;
- (f) identify by date, author and recipient(s) all documents that have been placed on a protective order in such litigation;
- (g) identify all expert witnesses retained for use at trial in any of the above litigation by name, address and telephone number.

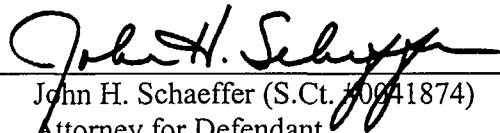
Answer: No.

57. Please state the name and address of each person who has knowledge of relevant facts regarding claims or defenses of this lawsuit.

Answer: Objection. Vague, ambiguous, overbroad, and unduly burdensome. Without waiving said objection, Defendant has not yet identified such persons because Plaintiffs have failed to comply with the Case Management Order by attaching a product brochure to the Complaint. Defendant is unaware what the relevant facts, claims and defenses are in any of the cases with which it has been served to date. Will supplement.

As to Objection:

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

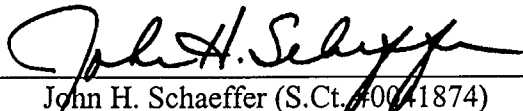
By: 
John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

58. State the last date that Defendant sold, distributed, manufactured, installed, and/or otherwise placed asbestos-containing products into the stream of commerce.

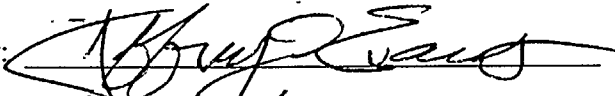
Answer: Objection. Vague, ambiguous, overbroad, unduly burdensome. Without waiving said objection, Upon the best information available to Defendant, early 1980s.

As to Objection:

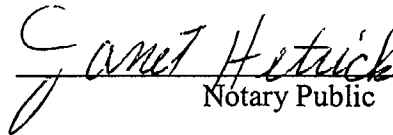
CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By: 
John H. Schaeffer (S.Ct. #0041874)
Attorney for Defendant

The Will-Burt Company

By: 
Its: President and CEO

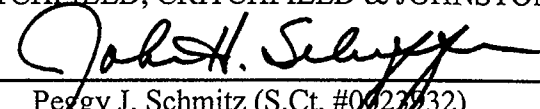
Sworn to and subscribed in my presence this 2 day of October, 2002.


Notary Public

JANET HETRICK
Notary Public, State of Ohio
My Commission Expires June 6, 2004

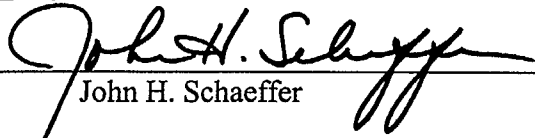
Respectfully submitted,

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

By: 
Peggy J. Schmitz (S.Ct. #0023932)
John H. Schaeffer (S. Ct. # 0041874)
Attorneys for Plaintiffs
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Wooster, OH 44691
Phone: (330) 264-4444
Fax: (330) 263-9278
E-mail: schmitz@ccj.com
schaeffer@ccj.com

CERTIFICATE OF SERVICE

I do hereby certify that a copy of the within Defendant The Will-Burt Company's Answers to Plaintiffs' Interrogatories was served upon Ladd Gibke, attorney for Plaintiffs, at Baron & Budd, 3102 Oak Lawn Avenue, Suite 1100, Dallas, TX 75219-4281, , by regular U.S. Mail and all other counsel via CLAD this ____ day of October, 2002.



John H. Schaeffer

OCT. 15. 02 *066393

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

ATTORNEYS AT LAW

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October 3, 2002

MARK E. LEININGER
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LAURA A. WAKEFIELD
TIMOTHY B. PETTORINI
ROGER D. PROPER, JR.
JOHN C. THATCHER
BARBARA A. KNAPIK
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ELIZABETH KRIEDER WRIGHT

(Of Counsel)

LINCOLN OVIATT
JOHN T. WIGHAM
JOHN H. SCHAEFFER

Via Facsimile (214) 520-1181; Original by Mail

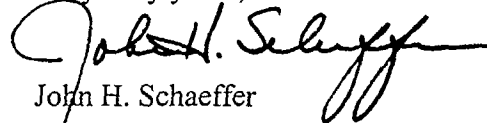
Ladd Gibke, Esq.
Baron & Budd
3102 Oak Lawn Avenue
Suite 1100
Dallas, TX 75219

Re: All Baron & Budd Asbestos cases involving The Will-Burt Company

Dear Mr. Gibke:

The Will-Burt Company's Answers to Interrogatories and Responses to Requests for Production of Documents are enclosed in the mailed copy of this correspondence. Plaintiffs' Motion to Compel filed on September 30, 2002 is therefore moot, and we would ask that you withdraw it.

Very truly yours,


John H. Schaeffer

JHS/

IN THE COMMON PLEAS COURT, CUYAHOGA COUNTY, OHIO

IN RE: ALL BARON & BUDD CASES	)	ASBESTOS MASTER CASE
IN WHICH THE WILL-BURT	)	NO. 073958
COMPANY IS NAMED AS A	)	
DEFENDANT	)	
	)	JUDGE HARRY A. HANNA
Plaintiffs,	)	
	)	THE WILL-BURT COMPANY'S
vs.	)	RESPONSES TO PLAINTIFFS'
	)	REQUESTS FOR PRODUCTION
A-BEST PRODUCTS COMPANY, ET AL.)	)	OF DOCUMENTS
	)	
Defendants.	)	

REQUEST FOR PRODUCTION NO. 1:

Please produce a true and correct copy of each photograph or picture of each asbestos-containing product that Defendant has ever mined, manufactured, sold, marketed, installed, and/or distributed.

RESPONSE:

See attached photographs.

REQUEST FOR PRODUCTION NO. 2:

Please produce a true and correct copy of each document which reflects sales of those asbestos-containing products listed in response to Interrogatory No. 5 to any of the job sites listed on Exhibit A, attached hereto.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 3:

Please produce a true and correct copy of each document which reflects sales of Defendant's asbestos-containing products to companies that may have distributed, packaged, labeled, and/or sold Defendant's asbestos-containing products.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 4:

Please produce a true and correct copy of each record and/or contract which reflects the sales of Defendant's asbestos-containing products to any of the job sites listed on Exhibit A, attached hereto.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 5:

Please produce a true and correct copy of each record and/or contract which reflects the sales of Defendant's asbestos-containing products to distributors and marketers who may have called on any of the job sites listed on Exhibit A, attached hereto.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 6:

Please produce a true and correct copy of each contract and/or work order that reflects contracts for Defendant to have asbestos-containing products installed or removed at any of the job sites listed on Exhibit A, attached hereto.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 7:

Please produce a true and correct copy of each work order and contract that reflects contract business between Defendant and any of the job sites listed on Exhibit A, attached hereto, for the application of asbestos-containing products.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 8:

Please produce a true and correct copy of each document relating to the design and preparation of the asbestos-containing products listed in Defendant's answer to Interrogatory No. 5.

RESPONSE:

See attached drawings.

REQUEST FOR PRODUCTION NO. 9:

For each product listed in response to Interrogatory No. 5, please produce a copy of all tests that were conducted to determine any potential health hazards involved in its use or exposure (this Request for Production relates to Plaintiff's Interrogatory No. 18 previously propounded to Defendant in this litigation).

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 10:

Please produce a true and correct copy of all documents relating to the testing of any product which Defendant listed in response to Interrogatory No. 5 (this Request for Production relates to Plaintiffs' Interrogatory No. 19 previously propounded to Defendant in this litigation).

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 11:

Please produce a true and correct copy of all tests which Defendant conducted and/or has in its possession to determine potential health hazards involved in the use of or exposure to asbestos products listed in response to Interrogatory No. 5 (this Request for Production relates to Plaintiffs' Interrogatory No. 21 previously propounded to Defendant in this litigation).

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 12:

Please produce a true and correct copy of all studies which Defendant conducted or caused to be conducted concerning the effects of the inhalation of asbestos dust and/or fibers in workers or other persons using, working with and/or around, installing and/or applying any of the asbestos products mined, manufactured, sold, distributed, marketed, installed and/or relabeled for distribution by Defendant or Defendant's predecessor (this Request for Production relates to Plaintiffs' Interrogatory No. 22 previously propounded to Defendant in this litigation).

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 13:

Please produce a true and correct copy of all documents relating to any studies made or caused to be made by Defendant, to determine whether the asbestos-containing products mined, manufactured, sold, marketed, installed or distributed by Defendant or Defendant's predecessor would be hazardous to people (this Request for Production relates to Plaintiffs' Interrogatory No. 23 previously propounded to Defendant in this litigation).

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 14:

Please produce a true and correct copy of all tests in the field which Defendant conducted or caused to be conducted to determine the nature and extent of asbestos dust and/or fiber exposure to insulators, applicators, fellow employees or other workers removing and/or tearing out asbestos-containing products (this Request for Production relates to Plaintiffs' Interrogatory No. 24 previously propounded to Defendant in this litigation).

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 15:

Please produce a true and correct copy of each test which Defendant conducted or caused to be conducted regarding the quantity, quality, or threshold limit value of asbestos dust, fibers, and/or particles to which workers were exposed while using, working with and/or around, installing and/or applying Defendant's asbestos-containing products (this Request for Production relates to Plaintiffs' Interrogatory No. 31 previously propounded to Defendant in this litigation).

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 16:

For each product listed in response to Interrogatory No. 5, please produce a true and correct copy of all promotional or sales material including, but not limited to,

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brochures, pamphlets, catalogs, packaging, or other written materials of any kind or character.

RESPONSE:

See attached materials.

REQUEST FOR PRODUCTION NO. 17:

Please produce a true and correct copy of all warnings, cautions, caveats or directions concerning the possible health effects of the products listed in response to Interrogatory No. 5 (this Request for Production relates to Plaintiffs' Interrogatory No. 41 previously propounded to Defendant).

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 18:

Please produce a true and correct copy of all written materials prepared by Defendant or Defendant's predecessors or any of Defendant's subsidiaries indicating how the products listed in response to Interrogatory No. 5 should be used or maintained by the ultimate user (this Request for Production relates to Plaintiffs' Interrogatory No. 43 previously propounded to Defendant).

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 19:

Please produce a true and correct copy of all notices received by Defendant prior to 1968 that any person was claiming injury or had sustained an abnormal x-ray reading as a result of using asbestos-containing products mined, manufactured, sold, marketed, installed, or distributed by Defendant (this Request for Production relates to Plaintiff's Interrogatory No. 48 previously propounded to Defendant).

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 20:

Please produce a true and correct copy of statements from all people with knowledge of relevant facts to this lawsuit.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 21:

Please produce a true and correct copy of all documents which mention, allude or refer to tests performed on breathing devices to prevent the inhalation of asbestos dust and/or fibers (this Request for Production relates to Plaintiffs' Interrogatory No. 52 previously propounded to Defendant).

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 22:

Please produce a true and correct copy of all reports by experts that Defendant may call upon at the trial of this case (this Request for Production relates to Plaintiffs' Interrogatory No. 53 previously propounded to Defendant).

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 23:

Please produce a true and correct copy of all policies of insurance under which any person carrying on an insurance business may be liable to satisfy part or all of a judgment which may be entered in the action or to indemnify or reimburse for payments made to satisfy the judgment.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 24:

Please produce a true and correct copy of all notices received by Defendant prior to 1968 that any person was claiming an injury or had sustained an abnormal x-ray reading as a result of using asbestos-containing products, regardless of the manufacturer or seller of the products.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 25:

Please produce a true and correct copy of all documents, correspondence or communications pertaining to all marketing, sales, negotiations, delivery or distribution of all of your asbestos-containing or industrial insulation products to all Defendants to this lawsuit other than the answering Defendant.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 26:

Please produce a true and correct copy of all documents memorializing or referring, relating or pertaining to communications or correspondence among and/or between your officers, director, agents, representatives, employees or consultants and any employer, purchaser or user of your asbestos-containing products, its officers, directors, agents, representatives, employees or consultants which in any way relates, refers or pertains to asbestos, asbestos-containing products, pneumoconiosis, asbestos-related illness, injury or disease, dust or workplace health or safety.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 27:

Please produce a true and correct copy of all annual reports of Defendant to employees or stockholders for the years 1960 through 1969 and for the past five years.

RESPONSE:

Objection. Overbroad, unduly burdensome, not reasonably calculated to lead to the discovery of admissible evidence.

REQUEST FOR PRODUCTION NO. 28:

Please produce the originals or true and correct copies of all safety or health manuals, pamphlets or brochures issued by Defendant between 1930 and the present and any documents relating to whom said manuals were issued.

RESPONSE:

Objection. Overbroad, unduly burdensome.

REQUEST FOR PRODUCTION NO. 29:

Please produce a true and correct copy of all safe workplace practices manuals, pamphlets or brochures issued by Defendant from 1900 through the present.

RESPONSE:

Objection. Overbroad, unduly burdensome.

REQUEST FOR PRODUCTION NO. 30:

Please produce a true and correct copy of all documents referring, relating or pertaining to the Industrial Health Foundation or the Industrial Hygiene Foundation in the custody, possession or control of Defendant.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 31:

Please produce a true and correct copy of all documents referring, relating or pertaining to the Trudeau Institute and Saranac Lake Laboratory in the custody, possession or control of Defendant.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 32:

Please produce a true and correct copy of all documents referring, relating or pertaining to the Quebec Asbestos Mining Association (QAMA) in the custody, possession or control of Defendant.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 33:

Please produce a true and correct copy of all documents referring, relating or pertaining to the National Insulation Manufacturers Association (NIMA) in the custody, possession or control of Defendant.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 34:

Please produce a true and correct copy of all documents referring, relating or pertaining to the Thermal Insulation Manufacturers Association (TIMA) in the custody, possession or control of Defendant.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 35:

Please produce a true and correct copy of all documents relating to any conferences, symposia, or meetings attended by any of your officers, physicians, agents, servants, employees or consultants which in any way considered, discussed, reviewed or made recommendations concerning asbestos-related illness, injury or disease; pneumoconiosis; occupational lung disease; dust; industrial hygiene; and/or worker or workplace health or safety.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 36:

Please produce a true and correct copy of all documents to and/or from Defendant and any person, organization, institution, laboratory, foundation, corporation, entity, board or consultants which refer, relate or pertain to air quality studies, dust counts or dust studies, alleged maximum allowable concentrations (MAC), alleged threshold limit

values (TLV) or protection of your employees or any other employees or persons from actual or alleged hazards associated with asbestos exposure.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 37:

Please produce a true and correct copy of all documents to and/or from Defendant and any person, organization, institution, laboratory, foundation, corporation, entity, board or consultants which refer, relate or pertain to air quality studies, dust counts or dust studies, alleged maximum allowable concentrations (MAC), alleged threshold limit values (TLV) or protection of your employees or any other employees or persons.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 38:

Please produce a true and correct copy of all documents to and/or from Defendant involving any physician, industrial hygienist or public health specialist which in any way relates, refers or pertains to asbestos-related injury, illness or disease, pneumoconiosis, occupational lung disease, dust, industrial hygiene or worker or workplace health or safety.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 39:

Please produce a true and correct copy of all photographs, pictures, prints or any visual depiction at any time generated showing workers or any person or persons installing, applying, removing or in any manner handling or utilizing an asbestos-containing product at any time manufactured, sold or distributed by Defendant.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 40:

Please produce a true and correct copy of all documents pertaining to the acquisition, purchase or sale by Defendant of any asbestos-containing product manufacturing facility or asbestos-containing product or product line.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 41:

Please produce a true and correct copy of all documents pertaining to the acquisition, purchase or sale by Defendant of any asbestos-containing product from any other Defendant in this case or to any other Defendant in this case.

RESPONSE:

Defendant does not possess any documents responsive to this request.

REQUEST FOR PRODUCTION NO. 42:

For each and every affirmative defense asserted in Defendant's Answer to Plaintiffs' Complaint, the cross-claims or counter-claims of any party against Defendant, produce each and every document which will be offered to prove each and every affirmative defense. For each and every allegation of Defendant in cross-claims(s) asserted by Defendant in this litigation, produce each and every document which will be offered to prove each and every allegation in Defendant's cross-claims(s).

RESPONSE:

Defendant does not possess any documents responsive to this request at this time.
Will supplement.

REQUEST FOR PRODUCTION NO. 43:

Please produce a true and correct copy of every transcript of testimony of each witness Defendant intends to call at trial.

RESPONSE:

Defendant does not possess any documents responsive to this request at this time.
Will supplement.

REQUEST FOR PRODUCTION NO. 44:

Please produce a true and correct copy of each and every medical record in the custody, possession or control of Defendant relating to Plaintiffs in this case other than those medical records produced by Plaintiffs and provided to Defendants in this case.

RESPONSE:

Defendant does not possess any documents responsive to this request at this time.
Will supplement.

REQUEST FOR PRODUCTION NO. 45:

Please produce a true and correct copy of each and every document or other tangible item upon which Defendant will rely for impeachment or rebuttal purposes in the trial of this matter.

RESPONSE:

Defendant does not possess any documents responsive to this request at this time.
Will supplement.

REQUEST FOR PRODUCTION NO. 46:

Please produce a true and correct copy of each and every document, recording or other tangible item that constitutes in whole or in part a statement by Plaintiffs or a statement by any of Plaintiffs' witnesses in this matter.

RESPONSE:

Defendant does not possess any documents responsive to this request at this time.
Will supplement.

REQUEST FOR PRODUCTION NO. 47:

Please produce a true and correct copy of each and every photograph, videotape recording or other tangible item that is a photographic representation of Plaintiffs in this matter.

RESPONSE:

Defendant does not possess any documents responsive to this request at this time.
Will supplement.

REQUEST FOR PRODUCTION NO. 48:

Please produce a true and correct copy of all work records or other tangible items relating to Plaintiffs or their employers.

RESPONSE:

Defendant does not possess any documents responsive to this request at this time.
Will supplement.

REQUEST FOR PRODUCTION NO. 49:

Please produce a true and correct copy of every transcript, affidavit or sworn statement by each and every witness called by Defendant in any litigation related to insurance that may cover the claims in this case.

RESPONSE:

Defendant does not possess any documents responsive to this request at this time.
Will supplement.

REQUEST FOR PRODUCTION NO. 50:

For each document for which any privilege is asserted, produce an index containing the following information:

- (a) Author of document;
- (b) Position, title or affiliation of author;

- (c) Date of document;
- (d) Each recipient of the document;
- (e) The position, title or affiliation of each recipient of the document;
- (f) The subject matter of the document with sufficient specificity to determine the matters discussed therein; and
- (g) The privilege(s) asserted.

RESPONSE:

Defendant does not possess any documents responsive to this request at this time.

Will supplement.

REQUEST FOR PRODUCTION NO. 51:

If Defendant claims that the documents are too voluminous to produce as requested, provide the following:

- (a) The numerical amount of documents responsive to requests herein;
- (b) The method of storage of documents responsive to requests herein;
- (c) The method of organization of documents responsive to requests herein;
- (d) The location of documents responsive to requests herein;
- (e) Whether there is an index or indices, lists, inventories, or other such information for records responsive to requests herein;
- (f) If there is an index, indices, lists, inventories or other such information for records responsive to requests herein, whether such index, indices, lists, inventories or other such information for records responsive herein is printed, or electronically stored, (i.e., listed in a computer, imaged, part of a database, etc.);
- (g) If the index, indices, lists, inventories or other such information for records responsive to requests herein, whether such index, indices, lists, inventories or other such information for records responsive herein is electronically stored, (i.e. listed in a computer, imaged, part of a database,

etc.), the method of such storage and software used to create and/or maintain said index, indices, lists, inventories or other such information for records responsive to requests herein, whether such index, indices, lists, inventories or other such information for records responsive herein.

RESPONSE: n/a.

REQUEST FOR PRODUCTION NO. 52:

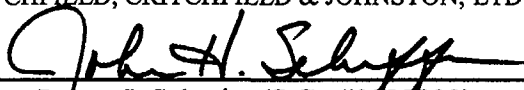
If any answer to requests herein is subject to an ongoing investigation or continuing discovery, provide the following information:

- (a) The person or persons responsible for the ongoing investigation or continuing discovery;
- (b) The means or methods used or being used for the ongoing investigation or continuing discovery;
- (c) The beginning date of such ongoing investigation or continuing discovery.

Respectfully submitted,

CRITCHFIELD, CRITCHFIELD & JOHNSTON, LTD.

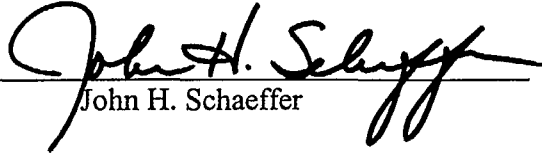
By:



Peggy J. Schmitz (S.Ct. #0027932)
John H. Schaeffer (S. Ct. # 0041874)
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E-mail: schmitz@ccj.com
schaeffer@ccj.com

CERTIFICATE OF SERVICE

I do hereby certify that a copy of the within Defendant The Will-Burt Company's Responses to Plaintiffs' Requests for Production of Documents was served upon Ladd Gibke, attorney for Plaintiffs, at Baron & Budd, 3102 Oak Lawn Avenue, Suite 1100, Dallas, TX 75219-4281, , by regular U.S. Mail and all other counsel via CLAD this ____ day of October, 2002.



John H. Schaeffer

ECN 2721-CHG. 2 7/7/86 TRAVELING PURCHASE REQUISITION

P52485

BUYER 1/2" dia. High 566 J.M. OR EQUAL CODE NO. _____ PART NO. 266517

DESCRIPTION Braided Polyester Rope ← no longer avail. 7/7/86
1/2" Thermoglass Knitted Rope, High U/M = FT.
1000 (7185. per C. foot) Density

INV. CODE CLASS 31 # carton = 578' ACCT. NO. 144-118 DEPT. NO. I.F.
 FOR RESALE ☐ UNIT OF MEASURE 14.3' per # MAXIMUM 5-21-84
 NOT FOR RESALE ☐ WEIGHT MULTIPLE UNITS MINIMUM 527'

VENDOR	VENDOR'S NAME	VENDOR'S PART NO.	F.O.B. POINT	FREIGHT ALLOWED ON	TERMS	SHIP VIA	LEAD TIME	TRANSIT TIME	ECONOMIC QUANTITY	PRICE
1	JOHN MANVILLE SALES CORP				⑤ Amate ex Corp.			#10-864KR-04		
2	M.F. MURDOCK # 5008	Garlock						215-377-6100		
3	Cunningham Supply									
4	Maw-Sherwood									

REQUISITION RECORD

PURCHASE RECORD

DATE	TOTAL QUANTITY	DELIVERY SCHEDULE				PLAN APP.	DATE	VEND CODE	P.O. NO.	PUR. APP.	UNIT PRICE
		DATE	QUANTITY	DATE	QUANTITY						
3/7/68	500 ft	3/11/68	CONF	100	ABRAHAM	1 - 35	3/8/68	1	53542	✓	1.85
2/1/69	500'	7/10/69	R	30			3/11/69	1	56849	✓	1.95
7/9	500'	7/16	500'	R			7/9/69	1	58746	✓	"
3/31/70	500'	4/10	500'	R	500' + 35" TOTAL		3/31/70	1	62157	✓	2.07
9/25	500'	10/12	500'	on strike - cancelled	12-9-70		9/25/70	1	64060	✓	2.07
7/9/70	500'	R			Conf. Bldg. Bureau		7/9/70	2	64681	✓	4.41
1/10/73	500'	1/14	500'	Cancelled			1/10/73	3	73397	✓	
1/31/73	500'			R	35"		3/1/73	4	73709	✓	3.00
3/10/74	500'	3/30	500'	R	16"		3/14/74	4	80228	✓	3.20
1/21/76	500'	10/1	500'	R	500'		9/21/76	2	90242	✓	69.17
(check prices before reordering)											
6/4/78	500'	8/14	500'	(5008 Garlock)			6/4/78	2	99507	✓	1.00
5/14/80	500'	Rush	500'				5/19/80	2	18870	✓	1.01
4/21/81	500'	5/29/81	500'				7/22/81	2	24283	✓	1.00
2/22/83	500'	2/25/83	500'				2/2/83	2	34633	✓	9.88
5/24/83	500'	4/1/83	500'	Conf. E. M. Co.			5/25/83	2	43704	✓	9.88
6/25/86	200'	7/2/86	200'	Conf. Maw-Sherwood			7/7/86	5	57799	✓	1.84
4-14-89	527'	4-21-89	527'				1/31/89	5	74500	✓	1.17

FORM 1217-500

AUG 13 1986

BY: Kay

PART NO: _____ W.B. ITEM NO: 266517 REVISION LEVEL: 2

INVENTORY AND IN-PROCESS revised material

ORDER IN-PROCESS: QTY 0 STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY 631 WAREHOUSE LOCATION _____ COST _____ DISPOSITION U

Karen Rework P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

Betty - plan update TPR RAW MATERIAL No _____ QTY _____ DISPOSITION _____

PURCHASED MAT'L No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: 1 : P.O. No _____ ESTIMATED LEAD TIME _____

TOOL No _____ LOCATION _____ DESCRIPTION _____

TEMPLATE No _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

PART NO: _____ W.B. ITEM NO: _____ REVISION LEVEL: _____

INVENTORY AND IN-PROCESS _____

ORDER IN-PROCESS: QTY _____ STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY _____ WAREHOUSE LOCATION _____ COST _____ DISPOSITION _____

REWORK P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

RAW MATERIAL No _____ QTY _____ DISPOSITION _____

PURCHASED MAT'L No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: _____ : P.O. No _____ ESTIMATED LEAD TIME _____

TOOL No _____ LOCATION _____ DESCRIPTION _____

TEMPLATE No _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

PART NO: _____ W.B. ITEM NO: _____ REVISION LEVEL: _____

INVENTORY AND IN-PROCESS _____

ORDER IN-PROCESS: QTY _____ STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY _____ WAREHOUSE LOCATION _____ COST _____ DISPOSITION _____

REWORK P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

RAW MATERIAL No _____ QTY _____ DISPOSITION _____

PURCHASED MAT'L No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: _____ : P.O. No _____ ESTIMATED LEAD TIME _____

TOOL No _____ LOCATION _____ DESCRIPTION _____

TEMPLATE No _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

ECN 2721-CHG. 2 7/7/86 TRAVELING PURCHASE REQUISITION

P52485

BUYER 1/2" dia. High 566 J.M. OR EQUAL CODE 110 PART NO. 266517

DESCRIPTION Amatex Knitted Rope ← no longer avail. 7/7/86
1/2" Thermoglass Knitted Rope, High U/M = FT.
1000' (7.85, per C fact)
17' per #
21 # carton = 578'
24 # carton = 578'

INV. CODE CLASS 21 # ACCT. NO. 144-48 DEPT. NO. I.F.
 FOR RESALE ☐ UNIT OF MEASURE 14.3' per # MAXIMUM
 NOT FOR RESALE ☐ WEIGHT MULTIPLE UNITS 5-24-84 MINIMUM 527'

VENDOR'S NAME	VENDOR'S PART NO.	F.O.B. POINT	FREIGHT ALLOWED ON	TERMS	SHIP VIA	LEAD TIME	TRANSIT TIME	ECONOMIC QUANTITY	PRICE
1. <u>JOHNS MANVILLE SALES CORP</u>				<u>5) Amat ex Corp.</u>				<u>#10-864KR-04</u>	
2. <u>M.F. MURDOCK # 5008 Garlock</u>								<u>2.15-577-6100</u>	
3. <u>Cunningham Supply</u>									
4. <u>Maw-Sherwood</u>									

REQUISITION RECORD

PURCHASE RECORD

DATE	TOTAL QUANTITY	DATE	QUANTITY	DATE	QUANTITY	DATE	QUANTITY	PLAN APP.	DATE	VEND CODE	P.O. NO.	PUR. APP.	UNIT PRICE
3/7/67	500' ft	3/11/67	CONF	3/11/67	500' ABRAHAM	3/11/67	500'	35	3/8/68	1	53542	✓	1.85
2/10/68	500'	7/10/68	R-3						3/1/69	1	56849	✓	1.95
7/9	500'	7/16	500'	R					7/9/69	1	58746	✓	"
3/31/70	500'	4/10	500'	R	500' + 35' TOTAL				3/31/70	1	62157	✓	2.07
9/25	500'	10/12	500'	on strike - cancelled	12-9-70				9/25/70	1	64060	✓	2.07
7/9/72	500'	7/9	500'	Cancelled					7/9/70	2	64681	✓	4.41
1/10/73	500'	1/1	500'	Cancelled					1/10/73	3	73397	✓	
1/31/73	500'			Cancelled					1/31/73	4	73709	✓	3.00
2/10/74	500'	3/30	500'	R					3/14/74	4	80228	✓	3.20
1/21/76	500'	10/1	500'						9/21/76	2	90242	✓	6.217
(check prices before reordering)													
6/14/78	500'	8/14	500'	(5008 Garlock)					6/14/78	2	99502	✓	
5/16/80	500'	Rush	500'						5/19/80	2	18870	✓	7.01
4/21/81	500'	5/29/81	500'						7/23/81	2	24283	✓	10.12
2/22/83	500'	2/25/83	500'						2/24/83	2	34633	✓	9.88
5/24/83	500'	4/1/83	500'						5/24/83	2	43704	✓	9.88
6/25/86	200'	7/2/86	200'						7/7/86	5	57799	✓	1.84
4-14-89	527'	4-21-89	527'						4-14-89	5	745	✓	1.17

BY: Kay AUG 13 1986

PART NO: _____ W-B ITEM NO: 266517 REVISION LEVEL: 2

INVENTORY AND IN-PROCESS revised material

ORDER IN-PROCESS: QTY 0 STAT m START DATE: _____ DISPOSITION _____

INVENTORY: QTY 631 WAREHOUSE LOCATION _____ COST _____ DISPOSITION U

Karen Rework P.O. No. _____ QTY _____ ESTIMATED LEAD TIME _____

3/11/86 - plan update TPR Raw Material No. _____ QTY _____ DISPOSITION _____

Purchased Mat'l No. _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: 1 P.O. No. _____ ESTIMATED LEAD TIME _____

Tool No. _____ LOCATION _____ DESCRIPTION _____

Template No. _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

PART NO: _____ W-B ITEM NO: _____ REVISION LEVEL: _____

INVENTORY AND IN-PROCESS _____

ORDER IN-PROCESS: QTY _____ STAT m START DATE: _____ DISPOSITION _____

INVENTORY: QTY _____ WAREHOUSE LOCATION _____ COST _____ DISPOSITION _____

Rework P.O. No. _____ QTY _____ ESTIMATED LEAD TIME _____

Raw Material No. _____ QTY _____ DISPOSITION _____

Purchased Mat'l No. _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: _____ P.O. No. _____ ESTIMATED LEAD TIME _____

Tool No. _____ LOCATION _____ DESCRIPTION _____

Template No. _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

PART NO: _____ W-B ITEM NO: _____ REVISION LEVEL: _____

INVENTORY AND IN-PROCESS _____

ORDER IN-PROCESS: QTY _____ STAT m START DATE: _____ DISPOSITION _____

INVENTORY: QTY _____ WAREHOUSE LOCATION _____ COST _____ DISPOSITION _____

Rework P.O. No. _____ QTY _____ ESTIMATED LEAD TIME _____

Raw Material No. _____ QTY _____ DISPOSITION _____

Purchased Mat'l No. _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: _____ P.O. No. _____ ESTIMATED LEAD TIME _____

Tool No. _____ LOCATION _____ DESCRIPTION _____

Template No. _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

ECN 2721-CHG. 2 7/7/86 TRAVELING PURCHASE REQUISITION

P52485

BUYER 1/2" dia. style 566 J.M. OR EQUAL CODE NO. PART NO. 266517

DESCRIPTION Smiled asbestos Rope no longer avail. 7/7/86
1/2" Thermoglass Knitted Rope, High U/M = FT.
100' (7 LBS. per C. foot) Density

INV. CODE CLASS 31 # carton = 578' ACCT. NO. 13-144-48 DEPT. NO. I.F.
34 # UNIT OF MEASURE 14.3' per # MAXIMUM
 FOR RESALE ☐ MULTIPLE UNITS 5-24-84 MINIMUM 527'

NOT FOR RESALE ☐ WEIGHT

VENDOR CODE	VENDOR'S NAME	VENDOR'S PART NO.	F. O. B. POINT	FREIGHT ALLOWED ON	TERMS	SHIP VIA	LEAD TIME	TRANSIT TIME	ECONOMIC	
									QUANTITY	PRICE
1	JOHN MANVILLE	SALES CORP			⑤ Amate ex Corp.			#10-	864 KR-04	
2	M.F. MURDOCK	# 5008	Garlock					215-277-6100		
3	Cunningham Supply									
4	Maw-Sherwood									

REQUISITION RECORD

PURCHASE RECORD

DATE	TOTAL QUANTITY	DELIVERY SCHEDULE				PLAN APP.	DATE	VEND CODE	P.O. NO.	PUR. APP.	UNIT PRICE
		DATE	QUANTITY	DATE	QUANTITY						
3/1/68	500' ft	3/21/68	CONF	ABRAHAM	1 - 35"		3/8/68	1	53542	✓	1.85
12/1/69	500' ft	7/10/69	R	35"			13/1/69	1	56849	✓	1.95
7/9	500'	7/16	500'	R			7/9/69	1	58746	✓	"
3/31/70	500'	4/10	500'	R	500' + 35" TOTAL		3/31/70	1	62157	✓	2.07
9/25	500'	10/12	500'	on Strike - cancelled	12-9-70		9/25/70	1	64060	✓	2.07
7/9/70	500'	re					7/9/70	2	64681	✓	4.41
1/10/73	500'	1/1	500'	Cancelled			1/10/73	3	73397	✓	
1/31/73	500'			R	35"		1/31/73	4	73709	✓	
3/10	500'	3/30	500'	R	35"		3/14/74	4	80228	✓	3.25
1/21/76	500'	1/1	500'	R	35"		9/21/76	2	90242	✓	2.97
(check prices before reordering)											
4/14/78	500'	4/14	500'	(5008 Garlock)	R		4/14/78	2	99507	✓	
5/14/80	500'	Rush	500'		R		5/14/80	2	18870	✓	1.01
4/21/81	500'	5/29/81	500'		R		4/21/81	2	24283	✓	1.01
2/22/83	500'	2/25/83	500'		R		2/22/83	2	34633	✓	9.88
5/24/83	500'	4/1/83	500'	conf			5/24/83	2	43704	✓	9.88
6/25/84	200'	7/2/84	200'	Conf			7/1/84	5	57799	✓	1.84
4-14-89	527'	4-21-89	527'				4-14-89	1	745	✓	1.7

APR 13 1986

BY: Kelly

PART NO: _____ W-B ITEM NO: 266517 REVISION LEVEL: 2

INVENTORY AND IN-PROCESS Revised material

ORDER IN-PROCESS: QTY 0 STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY 631 WAREHOUSE LOCATION _____ COST _____ DISPOSITION U

Rare Rework P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

Betty - please update TPR RAW MATERIAL No _____ QTY _____ DISPOSITION _____

PURCHASED MAT'L No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: 1 P.O. No _____ ESTIMATED LEAD TIME _____

TOOL No _____ LOCATION _____ DESCRIPTION _____

TEMPLATE No _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

PART NO: _____ W-B ITEM NO: _____ REVISION LEVEL: _____

INVENTORY AND IN-PROCESS _____

ORDER IN-PROCESS: QTY _____ STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY _____ WAREHOUSE LOCATION _____ COST _____ DISPOSITION _____

REWORK P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

RAW MATERIAL No _____ QTY _____ DISPOSITION _____

PURCHASED MAT'L No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: _____ P.O. No _____ ESTIMATED LEAD TIME _____

TOOL No _____ LOCATION _____ DESCRIPTION _____

TEMPLATE No _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

PART NO: _____ W-B ITEM NO: _____ REVISION LEVEL: _____

INVENTORY AND IN-PROCESS _____

ORDER IN-PROCESS: QTY _____ STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY _____ WAREHOUSE LOCATION _____ COST _____ DISPOSITION _____

REWORK P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

RAW MATERIAL No _____ QTY _____ DISPOSITION _____

PURCHASED MAT'L No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: _____ P.O. No _____ ESTIMATED LEAD TIME _____

TOOL No _____ LOCATION _____ DESCRIPTION _____

TEMPLATE No _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

ECN 2721-CHG. 2 7/7/86 TRAVELING PURCHASE REQUISITION

P52485

BUYER 1/2" dia. style 566 J.M. OR EQUAL CODE NO. _____ PART NO. 266517

DESCRIPTION Knitted Polyester Rope - no longer avail. 7/7/86

1/2" Thermoglass Knitted Rope, High U/M = FT.
100' (7185. per C foot) Density

INV. CODE CLASS 21 # canton = 578' ACCT. NO. 144-18 DEPT. NO. I.F.

FOR RESALE ☐ UNIT OF MEASURE 14.3' per # MAXIMUM

NOT FOR RESALE ☐ WEIGHT MULTIPLE UNITS 5-24-84 MINIMUM 527'

VENDOR CODE	VENDOR'S NAME	VENDOR'S PART NO.	F. O. B. POINT	FREIGHT ALLOWED ON	TERMS	SHIP VIA	LEAD TIME	TRANSIT TIME	ECONOMIC	
									QUANTITY	PRICE
1	JOHNS MANVILLE	SALES CORP			Amat ex Corp.			#10-	864	KR-04
2	M.F. MURDOCK	# 5008	Marine					215-277-612		
3	Cunningham Supply									
4	Maw-Sherwood									

REQUISITION RECORD

PURCHASE RECORD

DATE	TOTAL QUANTITY	DELIVERY SCHEDULE				PLAN APP.	DATE	VENDOR CODE	P.O. NO.	PUR. APP.	UNIT PRICE
		DATE	QUANTITY	DATE	QUANTITY						
3/7/67	500 ft	3/11/67	CONF	ABRAHAM	1 - 35'		3/8/68	1	53542	✓	1.85
6/1/68	500'	7/1/68	R - E				1/31/69	1	56849	✓	1.95
7/9	500'	7/16	500'	R			7/9/69	1	58746	✓	"
3/31/70	500'	4/10	500'	R	500' + 35' TOTAL		3/31/70	1	62157	✓	2.07
9/25	500'	10/12	500'	on Strike - cancelled	12-9-70		9/25/70	1	64060	✓	2.07
7/9/70	500'						7/9/70	2	64681	✓	4.41
1/10/73	500'	1/4	500'	Cancelled			1/10/73	3	73397	✓	
1/31/73	500'						1/31/73	4	73709	✓	
3/14/74	500'	3/30	500'	R			3/14/74	4	80228	✓	3.25
1/21/76	500'	1/12	500'				1/21/76	2	90242	✓	6.17
(check prices before reordering)											
6/14/78	500'	8/14	500'	(5008 Gortlock)	R		6/14/78	2	99507	✓	
5/16/80	500'	Rush	500'		R		5/19/80	2	18870	✓	1.01
4/21/81	500'	5/29/81	500'		R		4/21/81	2	24283	✓	1.95
2/22/83	500'	2/25/83	500'		R		2/22/83	2	34633	✓	9.85
5/24/83	500'	6/1/83	500'		R		5/24/83	2	43704	✓	9.88
6/25/84	200'	7/2/84	200'		R		7/7/84	5	57799	✓	1.84
4/14/89	527'	4/21/89	527'				4/14/89	15	745	✓	1.17

AUG 13 1986

BY: Kay

PART NO: _____ W-B ITEM NO: 266517 REVISION LEVEL: 2

INVENTORY AND IN-PROCESS revised material

ORDER IN-PROCESS: QTY 0 STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY 631 WAREHOUSE LOCATION _____ COST _____ DISPOSITION U

Karen Rework P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

Betty - please update TPR Raw Material No _____ QTY _____ DISPOSITION _____

Purchased Mat'l No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: 1 P.O. No _____ ESTIMATED LEAD TIME _____

TOOL NO _____ LOCATION _____ DESCRIPTION _____

TEMPLATE NO _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

PART NO: _____ W-B ITEM NO: _____ REVISION LEVEL: _____

INVENTORY AND IN-PROCESS _____

ORDER IN-PROCESS: QTY _____ STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY _____ WAREHOUSE LOCATION _____ COST _____ DISPOSITION _____

Rework P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

Raw Material No _____ QTY _____ DISPOSITION _____

Purchased Mat'l No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: _____ P.O. No _____ ESTIMATED LEAD TIME _____

TOOL NO _____ LOCATION _____ DESCRIPTION _____

TEMPLATE NO _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

PART NO: _____ W-B ITEM NO: _____ REVISION LEVEL: _____

INVENTORY AND IN-PROCESS _____

ORDER IN-PROCESS: QTY _____ STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY _____ WAREHOUSE LOCATION _____ COST _____ DISPOSITION _____

Rework P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

Raw Material No _____ QTY _____ DISPOSITION _____

Purchased Mat'l No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: _____ P.O. No _____ ESTIMATED LEAD TIME _____

TOOL NO _____ LOCATION _____ DESCRIPTION _____

TEMPLATE NO _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

ECN 2721 CHG. 2 7/7/86 TRAVELING PURCHASE REQUISITION

PS 2485

BUYER 1/2" dia. style 566 J.M. OA-EQUAL CODE NO. _____ PART NO. 266517

DESCRIPTION Quilted Polyester Rope - no longer avail. 7/7/86
1/2" Thermoglass Knitted Rope, High U/M = FT.
1000 (7185. per C. foot)
17' per # 1240

INV. CODE 21 # carton = 578' ACCT. NO. 144-18 DEPT. NO. I.F.
 CLASS 34 # changed 7/14/89 UNIT OF MEASURE 14.3' per # MAXIMUM _____
 FOR RESALE ☐ MULTIPLE UNITS 5-24-84 MINIMUM 527'
 NOT FOR RESALE ☐ WEIGHT _____

VEND. CODE	VENDOR'S NAME	VENDOR'S PART NO.	F. O. B. POINT	FREIGHT ALLOWED ON	TERMS	SHIP VIA	LEAD TIME	TRANSIT TIME	ECONOMIC	
									QUANTITY	PRICE
1	JOHNS MANVILLE SALES CORP				⑤ Amatex Corp.				#10-864KR-04	
2	M.F. MURDOCK # 5008								215-677-6100	
3	Cunningham Supply									
4	Mau-Sherwood									

REQUISITION RECORD

PURCHASE RECORD

DATE	TOTAL QUANTITY	DELIVERY SCHEDULE				PLAN APP.	DATE	VEND. CODE	P.O. NO.	PUR. APP.	UNIT PRICE
		DATE	QUANTITY	DATE	QUANTITY						
3/7/68	500 ft	3/21/68	CONF	3/21/68	ABRAHAM	1-05	3/30/68	1	53542	✓	1.85
2/1/69	500 ft	2/10/69	✓	R-30			3/31/69	1	56849	✓	1.95
7/9	500'	7/16	500'	R			7/9/69	1	58746	✓	"
3/31/70	500'	4/10	500'	R	500' + 35" TOTAL		3/31/70	1	62157	✓	2.07
9/25	500'	10/12	500'	on strike - cancelled	12-9-70		9/25/70	1	64060	✓	2.07
3/9/70	500	re			Conf. Bldg. Dmnr		3/9/70	2	64681	✓	4.41
1/10/73	500'	1/24	500'	Cancelled			1/10/73	3	73397	✓	
1/31/73	500'			R-35			1/31/73	4	73709	✓	3.35
3/14/74	500'	3/30	500'	R-16			3/14/74	4	80228	✓	3.35
1/21/76	500'	10/1	500'	R	500' L		9/21/76	2	90242	✓	2.17
(check prices before reordering)											
6/14/78	500'	8/14	500'	(5008 Garlock)	R		6/14/78	2	99507	✓	1.35
5/16/80	500'	Rush	500'		R		5/19/80	2	18870	✓	1.01
4/21/81	500'	5/29/81	500'		R		7/22/81	2	24283	✓	1.01
2/22/83	500'	2/25/83	500'		R		2/22/83	2	34633	✓	9.65
5/24/83	500'	6/1/83	500'		Conf. E. H. Con		5/24/83	2	43704	✓	9.88
6/25/86	200'	7/2/86	200'		R		7/7/86	5	57799	✓	1.18
4-14-89	527'	4-21-89	527'		R		4/14/89	15	74577	✓	1.17

BY: Kay

AUG 13 1986

PART NO: _____ W-B ITEM NO: 266517 REVISION LEVEL: 2

INVENTORY AND IN-PROCESS revised material

ORDER IN-PROCESS: QTY 0 STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY 631 WAREHOUSE LOCATION _____ COST _____ DISPOSITION U

Karen Rework P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

Betty - plan update TPR Raw Material No _____ QTY _____ DISPOSITION _____

Purchased Mat'l No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: ✓ : P.O. No _____ ESTIMATED LEAD TIME _____

Tool No _____ LOCATION _____ DESCRIPTION _____

Template No _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

PART NO: _____ W-B ITEM NO: _____ REVISION LEVEL: _____

INVENTORY AND IN-PROCESS _____

ORDER IN-PROCESS: QTY _____ STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY _____ WAREHOUSE LOCATION _____ COST _____ DISPOSITION _____

Rework P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

Raw Material No _____ QTY _____ DISPOSITION _____

Purchased Mat'l No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: _____ : P.O. No _____ ESTIMATED LEAD TIME _____

Tool No _____ LOCATION _____ DESCRIPTION _____

Template No _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

PART NO: _____ W-B ITEM NO: _____ REVISION LEVEL: _____

INVENTORY AND IN-PROCESS _____

ORDER IN-PROCESS: QTY _____ STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY _____ WAREHOUSE LOCATION _____ COST _____ DISPOSITION _____

Rework P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

Raw Material No _____ QTY _____ DISPOSITION _____

Purchased Mat'l No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: _____ : P.O. No _____ ESTIMATED LEAD TIME _____

Tool No _____ LOCATION _____ DESCRIPTION _____

Template No _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

U S A G E

Part No. PS-2485 - 1/2" Dia. Style No. 566 J.M. ①
Braided Asbestos Rope 76 1/4" Long

Part No. PS-2484 - 5/8 Dia. Style No. 566 J.M.
Braided Asbestos Rope 76 1/4" Long

~~Part No. PS-2484 - 5/8 Dia. Style No. 566 D.M.
Braided Asbestos Rope 76 1/4" Long~~

AMATEX CORP. "THERMOGLASS"
CATN# 10-864KR-04 (1/4" HI DENS)

~~Vendor: Johns-Manville Company~~

DO NOT SCALE THIS. PRINT

2721		2		REVISED MAT.		CJW		7-7-86	
ECN		CHG				BY		DATE	

TOLERANCE		UNLESS OTHERWISE SPEC.	
ANGLES		DECIMAL	
FRACTION			
SCALE			
MATERIAL		See Note	
SIZE			
Wt.			
HEAT TREAT SPECIFICATION NO.			
HARDNESS			
DRAWN	CHECKED		
I.W.			
DATE	DATE	DATE	DATE
5-12-54	5/24/54	5/24/54	5/24/54

CHANGES		RELEASED	
NO	DATE	C.N.	NO.
1	5/24/54	5239	5239
2			
3			
4			
5			
6			
7			
8			
9			
10			

Fan Housing Seal

No. (P9-2485)

Fah Housing Seal

No. ~~(Pg 2485)~~

260517

527 ft.

Amater

10-864KR-04

1/2" HI DENS

266517 & 266516

100 ft.

ECN 2721-CHG. 2 7/7/86 TRAVELING PURCHASE REQUISITION

PS 2485
 BUYER 1/2" dia. Style 566 J.M. OR EQUAL CODE NO. _____ PART NO. 266517
 DESCRIPTION Spun Polyester Rope ← no longer avail. 7/7/86
1/2" Thermoglass Knitted Rope, High U/M = FT.
1000 (71BS. per C. foot) Density
 INV. CODE CLASS 17' per # 21 # carton = 578' 1240
 34 # ACCT. NO. 13-144-18 4
 FOR RESALE ☐ UNIT OF MEASURE 14.3' per # MAXIMUM
 NOT FOR RESALE ☐ WEIGHT MULTIPLE UNITS 5-24-84 MINIMUM 527'
 DEPT. NO. I.F.

VENDOR'S NAME	VENDOR'S PART NO.	F.O.B. POINT	FREIGHT ALLOWED ON	TERMS	SHIP VIA	LEAD TIME	TRANSIT TIME	ECONOMIC	
								QUANTITY	PRICE
1. <u>JOHNS MANVILLE SALES CORP</u>				⑤ <u>Amatex Corp.</u>			#10	864	KR-04
2. <u>M.F. MURDOCK # 5008 Garlock</u>								215-277	6100
3. <u>Cunningham Supply</u>									
4. <u>Maw-Sherwood</u>									

REQUISITION RECORD								PURCHASE RECORD				
DATE	TOTAL QUANTITY	DELIVERY SCHEDULE						DATE	VEND. CODE	P.O. NO.	PUR. APP.	UNIT PRICE
		DATE	QUANTITY	DATE	QUANTITY	DATE	QUANTITY					
3/7/68	500' ft	3/21/68		CONF ABRAHAM				3/8/68	1	50542	✓	1.85
2/1/69	500' ft	3/14/69		R-35				3/1/69	1	56849	✓	1.95
7/9	500'	7/16	500'	R				7/9/69	1	58746	✓	"
3/31/70	500'	4/10	500'	R	500' ft	35" TOTAL		3/31/70	1	62157	✓	2.07
9/25	500'	10/12	500'	on Strike - cancelled	12-9-70			9/25/70	1	64060	✓	2.07
7/9/70	500'	R						7/9/70	2	64681	✓	4.41
1/10/73	500'	1/4	500'	Cancelled				1/10/73	3	73397	✓	
1/31/73	500'			R 35"				1/31/73	4	73709	✓	3.00
3/11/74	500'	3/20	500'	R 15"				3/11/74	4	80228	✓	3.32
1/21/76	500'	10/1	500'	P 35"				1/21/76	2	90242	✓	9.17
(check prices before reordering)												
6/14/78	500'	8/14	500'	(5008 Garlock)	R			6/14/78	2	99507	✓	1.00
5/14/80	500'	Rush	500'	R				5/14/80	2	18870	✓	7.01
4/21/81	500'	5/29/81	500'	R				4/21/81	2	24283	✓	9.00
2/22/83	500'	2/25/83	500'	R				2/22/83	2	34633	✓	9.88
5/24/83	500'	6/1/83	500'	CONF - in work				5/24/83	2	43704	✓	9.88
6/25/86	200'	7/2/86	200'	CONF - in work				6/25/86	5	57799	✓	1.84
4-14-89	527'	4-21-89	527'					4-14-89	5	74300	✓	1.17

AUG 13 1986

BY: Kay

PART NO: _____ W.B. ITEM NO: 266517 REVISION LEVEL: 2

INVENTORY AND IN-PROCESS revised material

ORDER IN-PROCESS: QTY 0 STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY 631 WAREHOUSE LOCATION _____ COST _____ DISPOSITION U

Karen Rework P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

Betty - plan update TPR RAW MATERIAL No _____ QTY _____ DISPOSITION _____

PURCHASED MAT'L No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: 1 : P.O. No. _____ ESTIMATED LEAD TIME _____

TOOL No _____ LOCATION _____ DESCRIPTION _____

TEMPLATE No _____ WIEDENANN PROGRAM _____

COST OF CHANGE : PARTS : _____ TOOLING : _____

PART NO: _____ W.B. ITEM NO: _____ REVISION LEVEL: _____

INVENTORY AND IN-PROCESS _____

ORDER IN-PROCESS: QTY _____ STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY _____ WAREHOUSE LOCATION _____ COST _____ DISPOSITION _____

REWORK P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

RAW MATERIAL No _____ QTY _____ DISPOSITION _____

PURCHASED MAT'L No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: _____ : P.O. No. _____ ESTIMATED LEAD TIME _____

TOOL No _____ LOCATION _____ DESCRIPTION _____

TEMPLATE No _____ WIEDENANN PROGRAM _____

COST OF CHANGE : PARTS : _____ TOOLING : _____

PART NO: _____ W.B. ITEM NO: _____ REVISION LEVEL: _____

INVENTORY AND IN-PROCESS _____

ORDER IN-PROCESS: QTY _____ STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY _____ WAREHOUSE LOCATION _____ COST _____ DISPOSITION _____

REWORK P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

RAW MATERIAL No _____ QTY _____ DISPOSITION _____

PURCHASED MAT'L No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: _____ : P.O. No. _____ ESTIMATED LEAD TIME _____

TOOL No _____ LOCATION _____ DESCRIPTION _____

TEMPLATE No _____ WIEDENANN PROGRAM _____

COST OF CHANGE : PARTS : _____ TOOLING : _____

U S A G E

Part No. PS-2485 - 1/2" Dia. Style No. 566 J.M. Braided Asbestos Rope 76 1/4" Long

Part No. PS-2484 - 5/8 Dia. Style No. 566 J.M. Braided Asbestos Rope 76 1/4" Long

AMATEX CORP. "THERMOGLASS"
CAT. NO 10-864KR-04 (1/2" HI DENS.)

J. F. FORM NO. C-847A PRINTED IN U. S. A.

527 ft.

Comater

10-864KR-04

1/2" HI DENS

266517 & 266516

100 ft.

ECN 2721-CHG. 2 7/7/86 TRAVELING PURCHASE REQUISITION

PS 2485 7/3/86 350' limited

BUYER 1/2" dia. style 566 J.M. OR EQUAL CODE NO. _____ PART NO. 266517

DESCRIPTION knitted asbestos rope no longer avail. 7/7/86
1/2" Thermoglass Knitted Rope, High U/M = FT.
1000 (7 LBS. per C. foot) Density

INV. CODE CLASS 31 # carton = 528' ACCT. NO. 144-118 DEPT. NO. I.F.

FOR RESALE ☐ UNIT OF MEASURE 14.3' per # MAXIMUM _____

NOT FOR RESALE ☐ WEIGHT _____ MULTIPLE UNITS 5-24-84 MINIMUM 527'

VENDOR'S NAME	VENDOR'S PART NO.	F.O.B. POINT	FREIGHT ALLOWED ON	TERMS	SHIP VIA	LEAD TIME	TRANSIT TIME	ECONOMIC QUANTITY	PRICE
1. <u>JOHNS MANVILLE SALES CORP</u>				<u>5) Amatex Corp.</u>				<u>#10-864KR-04</u>	
2. <u>M.F. MURDOCK #5008 Garlock</u>								<u>215-277-6100</u>	
3. <u>Cunningham Supply</u>									
4. <u>Maw-Sherwood</u>									

REQUISITION RECORD									PURCHASE RECORD				
DATE	TOTAL QUANTITY	DELIVERY SCHEDULE						PLAN APP.	DATE	VEND CODE	P.O. NO.	PUR. APP.	UNIT PRICE
		DATE	QUANTITY	DATE	QUANTITY	DATE	QUANTITY						
3/7/68	500' ft	3/6/68		CONF 1000 ABRAHAM					3/8/68	1	53542	✓	1.85
2/1/69	500' ft	3/10/69	✓	R. 35"					3/1/69	1	56849	✓	1.95
7/9	500'	7/16	500'	R					7/9/69	1	58746	✓	1.1
3/31/70	500'	4/10	500'	R	500' ft @ 35" TOTAL				3/31/70	1	62157	✓	2.07
9/25	500'	10/12	500'	on Strike - cancelled	12-9-70				9/25/70	1	64060	✓	2.07
7/9/70	500	7/9		CONF. Rite Duvall					7/9/70	2	64681	✓	4.41
1/10/73	500'	1/24	500'	Cancelled					1/10/73	3	73397	✓	
1/31/73	500'			R 35"					1/31/73	4	73709	✓	
3/14/74	500'	3/30	500'	R 16"					3/14/74	4	80228	✓	3.25
1/21/76	500'	1/1	500'	R 50"					1/21/76	2	90242	✓	6.917
(check prices before reordering)													
6/4/78	500'	6/14	500'	(500' Garlock)					6/4/78	2	99507	✓	1.55
5/14/80	500'	Rush	500'	R					5/14/80	2	18870	✓	1.01
4/21/81	500'	5/29/81	500'	R					4/21/81	2	24283	✓	1.95
2/22/83	500'	2/25/83	500'	R					2/22/83	2	34633	✓	9.85
5/24/83	500'	6/1/83	500'	CONF. Maryanne Monaco					5/24/83	2	43704	✓	9.88
6/25/86	200'	7/2/86	200'	R					7/2/86	5	57799	✓	1.84
4/14/89	527'	4/21/89	527'	R					4/14/89	1	74577	✓	1.17

BY: Kay

APR 13 1986

PART NO: _____ W.B. ITEM NO: 266517 REVISION LEVEL: 2

INVENTORY AND IN-PROCESS revised material

ORDER IN-PROCESS: QTY 0 STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY 631 WAREHOUSE LOCATION _____ COST _____ DISPOSITION U

~~Karen~~ Rework P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

~~Betty~~ plus update TPR RAW MATERIAL No _____ QTY _____ DISPOSITION _____

PURCHASED MAT'L No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: 1 P.O. No _____ ESTIMATED LEAD TIME _____

Tool No _____ LOCATION _____ DESCRIPTION _____

Template No _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

PART NO: _____ W.B. ITEM NO: _____ REVISION LEVEL: _____

INVENTORY AND IN-PROCESS _____

ORDER IN-PROCESS: QTY _____ STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY _____ WAREHOUSE LOCATION _____ COST _____ DISPOSITION _____

Rework P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

RAW MATERIAL No _____ QTY _____ DISPOSITION _____

PURCHASED MAT'L No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: _____ P.O. No _____ ESTIMATED LEAD TIME _____

Tool No _____ LOCATION _____ DESCRIPTION _____

Template No _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

PART NO: _____ W.B. ITEM NO: _____ REVISION LEVEL: _____

INVENTORY AND IN-PROCESS _____

ORDER IN-PROCESS: QTY _____ STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY _____ WAREHOUSE LOCATION _____ COST _____ DISPOSITION _____

Rework P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

RAW MATERIAL No _____ QTY _____ DISPOSITION _____

PURCHASED MAT'L No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: _____ P.O. No _____ ESTIMATED LEAD TIME _____

Tool No _____ LOCATION _____ DESCRIPTION _____

Template No _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

U S A G E

2721		2	REVISED MAT.	CJW	7-7-86
ECN		CHG		BY	DATE

TOLERANCE UNLESS OTHERWISE SPEC.		10		
ANGLES		9		
DECIMAL		8		
FRACTION		7		
SCALE		6		
MATERIAL		5		
See Note		4		
		3		
SIZE		2		
Wt.		1		
HEAT TREAT				
SPECIFICATION NO.				
HARDNESS				
DRAWN	CHECKED			
I.W.				
DATE	DATE			
5-12-54	5/21/54			
Fan Housing Seal				
No.				
(PB-2485)				

RELEASED	DATE	C/N NO.
5/23/54	5/21/54	5821M33
CHANGES		

Part No. ~~RS-2181~~ ³⁶⁶⁵¹⁶ - 5/8 Dia. Style No. 566 J.M.
Braided Asbestos Rope 16 1/4" Long

~~Vendor:~~ ~~Johns-Manville Company~~

DO NOT SCALE THIS. PRINT

No. ~~(PS-2785)~~

Fah Housing Seal

527 ft.

Amater

#10-864KR-04

1/2" HI DENS

266517 & 266516

100 ft.

ECN 2721-CHG. 2 7/7/86 TRAVELING PURCHASE REQUISITION

PS 2485

BUYER 1/2" dia. High 566 J.M. OR-EQUAL CODE NO. _____ PART NO. 266517

DESCRIPTION Quilted Polyester Rope ← no longer avail. 7/7/86
1/2" Thermoglass Knitted Rope, High U/M = FT.
100' (7185. per C. first) Density

INV. CODE 21 # 34 # 17' per # 1240
 CLASS 34 # 13-144-118 14.3' per # 5-24-84
 ACCT. NO. 119129 DEPT. NO. I.F.
 FOR RESALE ☐ UNIT OF MEASURE 14.3' per # MAXIMUM
 NOT FOR RESALE ☐ WEIGHT MULTIPLE UNITS MINIMUM 527'

VEND. CODE	VENDOR'S NAME	VENDOR'S PART NO.	F. O. B. POINT	FREIGHT ALLOWED ON	TERMS	SHIP VIA	LEAD TIME	TRANSIT TIME	ECONOMIC	
									QUANTITY	PRICE
1	JOHNS MANVILLE SALES CORP.				⑤ Amatex Corp.				#10-864KR-04	
2	M.F. MURDOCK # 5008 Garlock								215-277-6100	
3	Cunningham Supply									
4	Maw-Sherwood									

REQUISITION RECORD								PURCHASE RECORD				
DATE	TOTAL QUANTITY	DELIVERY SCHEDULE						DATE	VEND. CODE	P.O. NO.	PUR. APP.	UNIT PRICE
		DATE	QUANTITY	DATE	QUANTITY	DATE	QUANTITY					
3/7/68	500' ft	3/21/68	CONF	100'	ABRAHAM	100'	35'	3/8/68	1	53542	✓	1.85
2/1/69	500' ft	7/13/69	✓	R	300'			3/1/69	1	56849	✓	1.95
7/9	500'	7/16	500'	R				7/9/69	1	58746	✓	"
3/31/70	500'	4/10	500'	R	500'	4	35' TOTAL	3/31/70	1	62157	✓	2.07
9/25	500'	10/12	500'	on Strike - Canceled	12-9-70			9/25/70	1	64060	✓	2.07
2/9/70	500'	R						2/9/70	2	64681	✓	4.41
1/10/73	500'	1/4	500'	Canceled				1/10/73	3	73397	✓	
1/31/73	500'			R	500'			1/31/73	4	73709	✓	3.00
3/15/73	500'	3/30	500'	R	100'			3/14/74	4	80228	✓	3.20
1/21/76	500'	1/1	500'	R	500'			1/21/76	2	90242	✓	2.17
(check prices before reordering)												
6/4/78	500'	6/14	500'	(500' Garlock)				6/4/78	2	99507	✓	1.00
5/16/80	500'	Rush	500'					5/16/80	2	18870	✓	1.01
4/21/81	500'	5/29/81	500'					4/21/81	2	24283	✓	1.00
2/22/83	500'	2/25/83	500'					2/22/83	2	34633	✓	1.00
5/24/83	500'	6/1/83	500'	Conf				5/24/83	2	43704	✓	1.00
6/25/86	200'	7/2/86	200'	Conf				6/25/86	5	57799	✓	1.84
4-14-89	527'	4-21-89	527'					4-14-89	15	74500	✓	1.17

AUG 13 1986

BY: Kay

PART NO: _____ W-B ITEM NO: 266517 REVISION LEVEL: 2

INVENTORY AND IN-PROCESS revised material

ORDER IN-PROCESS: QTY 0 STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY 631 WAREHOUSE LOCATION _____ COST _____ DISPOSITION U

Rare Rework P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

Betty - plus update TPR Raw Material No _____ QTY _____ DISPOSITION _____

Purchased Mat'l No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: ✓ P.O. No _____ ESTIMATED LEAD TIME _____

Tool No _____ LOCATION _____ DESCRIPTION _____

Template No _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

PART NO: _____ W-B ITEM NO: _____ REVISION LEVEL: _____

INVENTORY AND IN-PROCESS _____

ORDER IN-PROCESS: QTY _____ STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY _____ WAREHOUSE LOCATION _____ COST _____ DISPOSITION _____

Rework P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

Raw Material No _____ QTY _____ DISPOSITION _____

Purchased Mat'l No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: _____ P.O. No _____ ESTIMATED LEAD TIME _____

Tool No _____ LOCATION _____ DESCRIPTION _____

Template No _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

PART NO: _____ W-B ITEM NO: _____ REVISION LEVEL: _____

INVENTORY AND IN-PROCESS _____

ORDER IN-PROCESS: QTY _____ STAT M START DATE: _____ DISPOSITION _____

INVENTORY: QTY _____ WAREHOUSE LOCATION _____ COST _____ DISPOSITION _____

Rework P.O. No _____ QTY _____ ESTIMATED LEAD TIME _____

Raw Material No _____ QTY _____ DISPOSITION _____

Purchased Mat'l No _____ QTY _____ DISPOSITION _____

ESTIMATED LEAD TIME OF NEXT ORDER _____

Tooling: _____ P.O. No _____ ESTIMATED LEAD TIME _____

Tool No _____ LOCATION _____ DESCRIPTION _____

Template No _____ WIEDENANN PROGRAM _____

COST OF CHANGE: PARTS: _____ TOOLING: _____

U.S.A.G.E

TOLERANCE UNLESS OTHERWISE SPEC.		CJW		7-7-86	
ANGLES _____ DECIMAL _____ FRACTION _____		BY		DATE	
SCALE _____					
MATERIAL See Note _____ _____					
SIZE _____					
WE. _____					
HEAT TREAT SPECIFICATION NO. _____ HARDNESS _____					
DRAWN _____	CHECKED _____				
I.W. _____	DATE _____				
DATE _____	DATE _____				
5-12-54	5/21/54				
Fan Housing Seal					
No. _____	(P9-2485)				

Part No. PS-2484 - 5/8 Dia. Style No. 566 J.M.
Braided Asbestos Rope 76 1/4" Long

~~Vendor: Johns-Manville Company~~

DO NOT SCALE THIS. PRINT

No. ~~(19-2485)~~

Fah Housing Seal

527 ft.

Comater

10-864KR-04

1/2" HI DENS

266517 & 266516

100 ft.

TRAVELING PURCHASE REQUISITION

BUYER BACK PLATE INSULATION ^{as per attached print} CODE NO. PS-2123 PART NO. 280471

DESCRIPTION (non-revenue material)

INV. CODE CLASS 124000 ACCT. NO. 124000 PLANT NO. 4 DEPT. NO. 1/3

FOR RESALE ☐ UNIT OF MEASURE MAXIMUM

NOT FOR RESALE ☒ WEIGHT MINIMUM

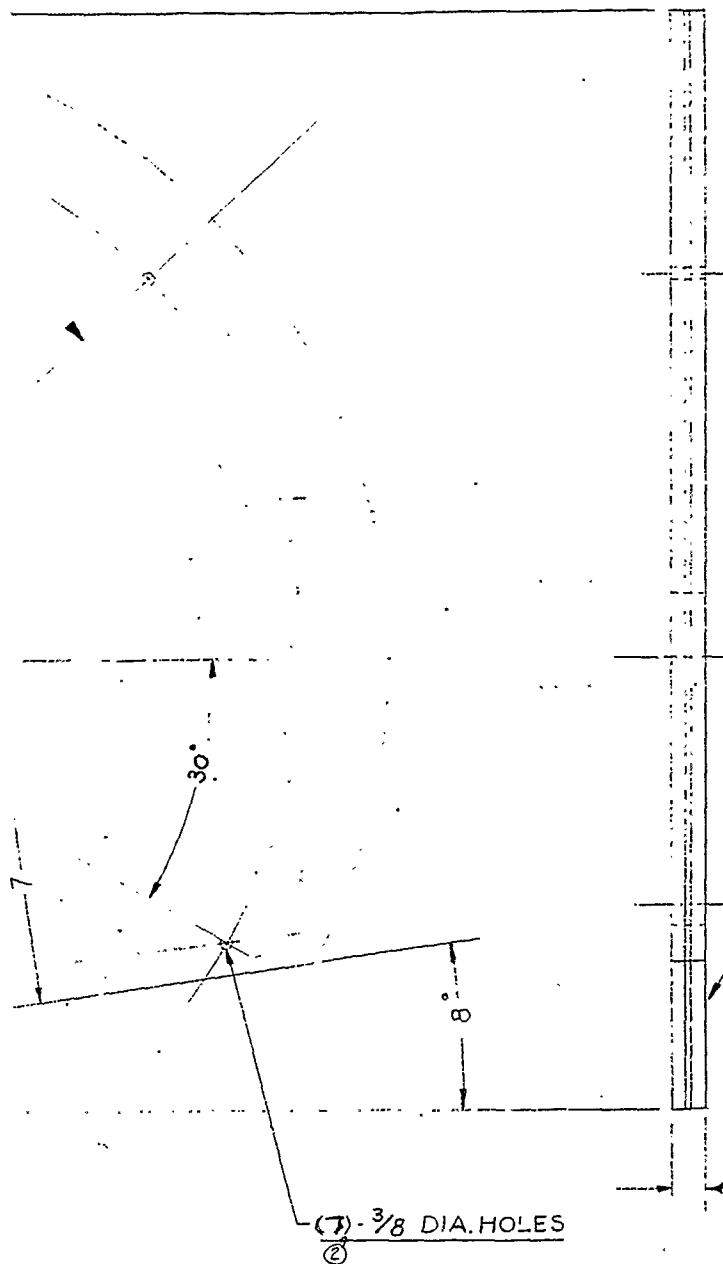
PART NUMBER OR CODE NO.	VENDOR'S NAME	VENDOR'S PART NO.	F. O. B. POINT	FREIGHT ALLOWED ON	TERMS	SHIP VIA	LEAD TIME	TRANSIT TIME	ECONOMIC	
									QUANTITY	PRICE
1	INDUSTRIAL SALES DIV. PHIL. PA									
2	JOHNS-MANVILLE SALE 3 CORP. - CLEVELAND								35 @	113.41/LOT
3	SCOTT MFG INC. Seabree PLANT	D.O. Box 408 Seabree, KY			42455	2/19/69	382.00/c			plus set up
4	AKRON GASKET	#5200	10/1/87				+ 16.50	set up	LOT	
5	A.M. Co. R...									

REQUISITION RECORD

PURCHASE RECORD

DATE	TOTAL QUANTITY	DELIVERY SCHEDULE				PLAN APP.	DATE	VEND CODE	P.O. NO.	PUR. APP.	UNIT PRICE
		DATE	QUANTITY	DATE	QUANTITY						
12/2/66	35	3/27/67	25 ✓	R-		SET-UP @ 13.94	12/5/66	1	47976		113.41/
2/9/68	35	4/25/68	35	R-360		SET-UP @ 15.40 plus crating chg @ 7.35/LOT	2/9/68	1	53223		357.01
3/9/69	35	4/25/69	35	R-		SET-UP @ 16.50 CRATING 7.35	3/9/69	1	57112		382.00
3/7/70	35	5/8/70	35	R			3/7/70	1	62000		436.97
6/3/71	35	7/30/71	35	R		Style 106 Sch-70 @ 17.82 plus 58" x 18" packing material chg 4700	6/3/71	1	66578		3.95/cu
4/1/74	35	5/17/74	35	Cancelled			4/1/74	1	80579		5.71/35
6/10	35	6/21/77	35	R			6/10	2	80579		30.94/cu
4/20/77	35	6/10/77	35	R			4/20/77	2	93251		34.26/cu
8/24/80	35	8/24/80	35	Check office delivery			8/24/80	3	19958		18.50/cu
1/6/83	10	1/2/83	10				1/6/83	3	33840		19.50
4/1/83	10	5/6/83	10	Same as P.O. 33840			4/1/83	3	36441		"
5/4/84	10	5/18/84	10	Conf. Dave R...			5/4/84	3	43272		19.50
4/15/84		Where?									
10/22/84	10	11/9/84	10				10/22/84	3	46541		39.00
1/14/86	10	12/2/86	10				1/14/86	3	59958		42.50
9/29/87	10	11/3/87	10				9/29/87	4	12121		42.50
3-15-89	10	4-7-89	10				3-15-89		711		

MODEL	ASSEMBLY NO.	1	2	3

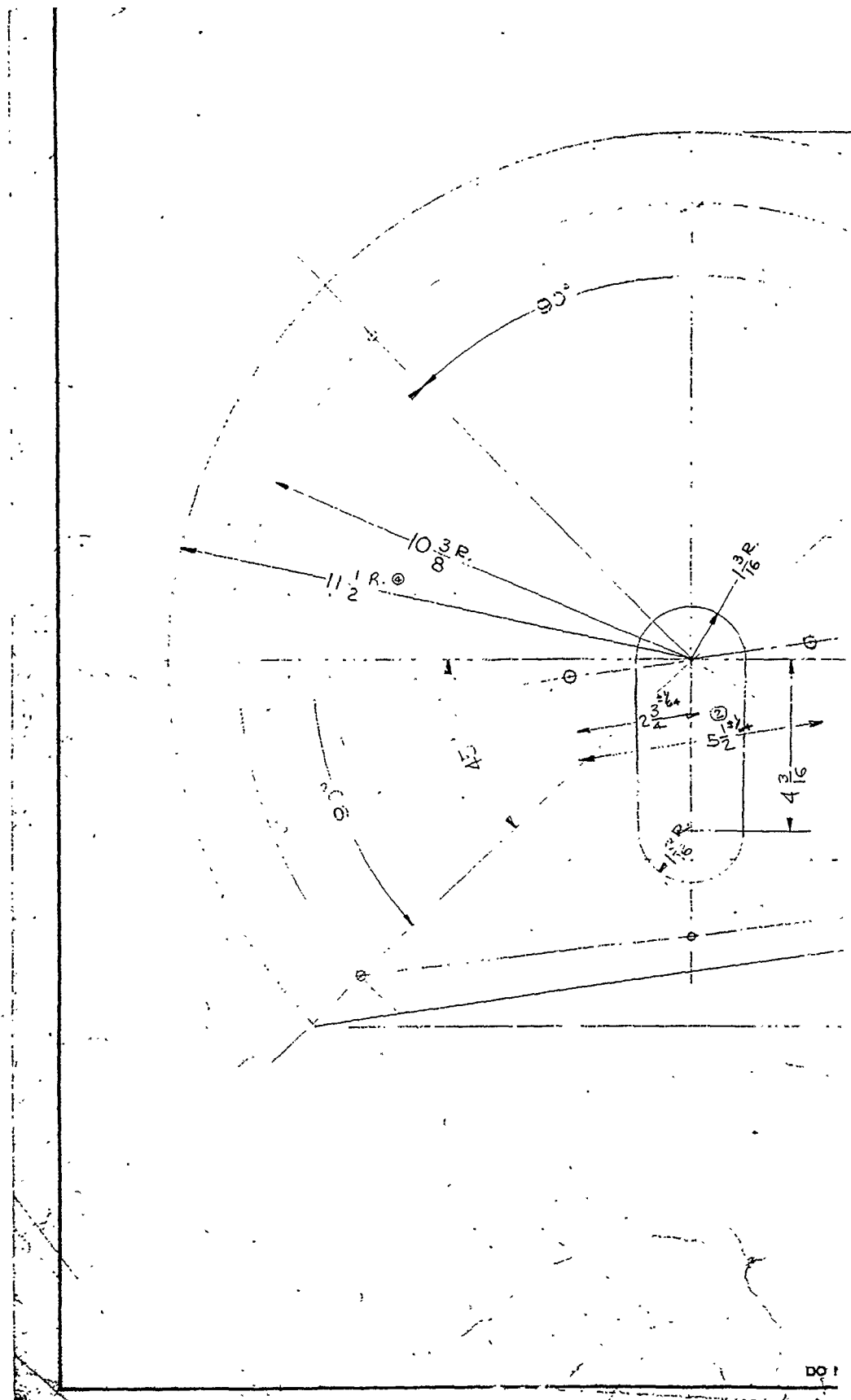


THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION, AND SHALL NOT BE USED OR REPRODUCED IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN CONSENT OF THE WILLBURT COMPANY.

③ ③
CEMENTED ASSEMBLY OF:
(1) 1/4 AND (1) 3/8 ASBESTOS MILLBOARD.

TOLERANCE UNLESS OTHERWISE SPEC.		30
ANGLES ± 15'		1
DECIMAL		2
FRACTIONS ± 1/16		3
SCALE HALF		7
MATERIAL		3
ASBESTOS		3
MILLBOARD		3
SIZE		3
WT.		3
HEAT TREAT		3
SPECIFICATION NO.		3
HARDNESS		3
CHANGES		
DRAWN J.B.	CHECKED R.W.	RELEASED EN-516
DATE 8-22-46	DATE 11-14-46	DATE 12-26-46
INSULATION BACK PLATE		
No. PS-2123		

THIS PRINT



TRAVELING PURCHASE REQUISITION

BUYER **BACK PLATE INSULATION** *195 per attached print* PART NO. **280471**
PS-2123 **280471**

DESCRIPTION **(As per attached print)**

INV. CODE CLASS **124000** ACCT. NO. **124000** PLANT NO. **4** DEPT. NO. **114**
 FOR RESALE ☐ UNIT OF MEASURE **MAXIMUM**
 NOT FOR RESALE ☐ WEIGHT MULTIPLE UNITS **MINIMUM**

VENDOR'S NAME	VENDOR'S PART NO.	F.O.B. POINT	FREIGHT ALLOWED ON	TERMS	SHIP VIA	LEAD TIME	TRANSIT TIME	ECONOMIC QUANTITY	PRICE
1 INDUSTRIAL SALES DIV. PHIL. PA									
2 JOHN-MANVILLE SALES CORP. - CLEVELAND									
3 SEBASTIAN MFG. CO. SEBASTIAN PLANT									
4 AKRON CASHET									
5 M. S. R...									

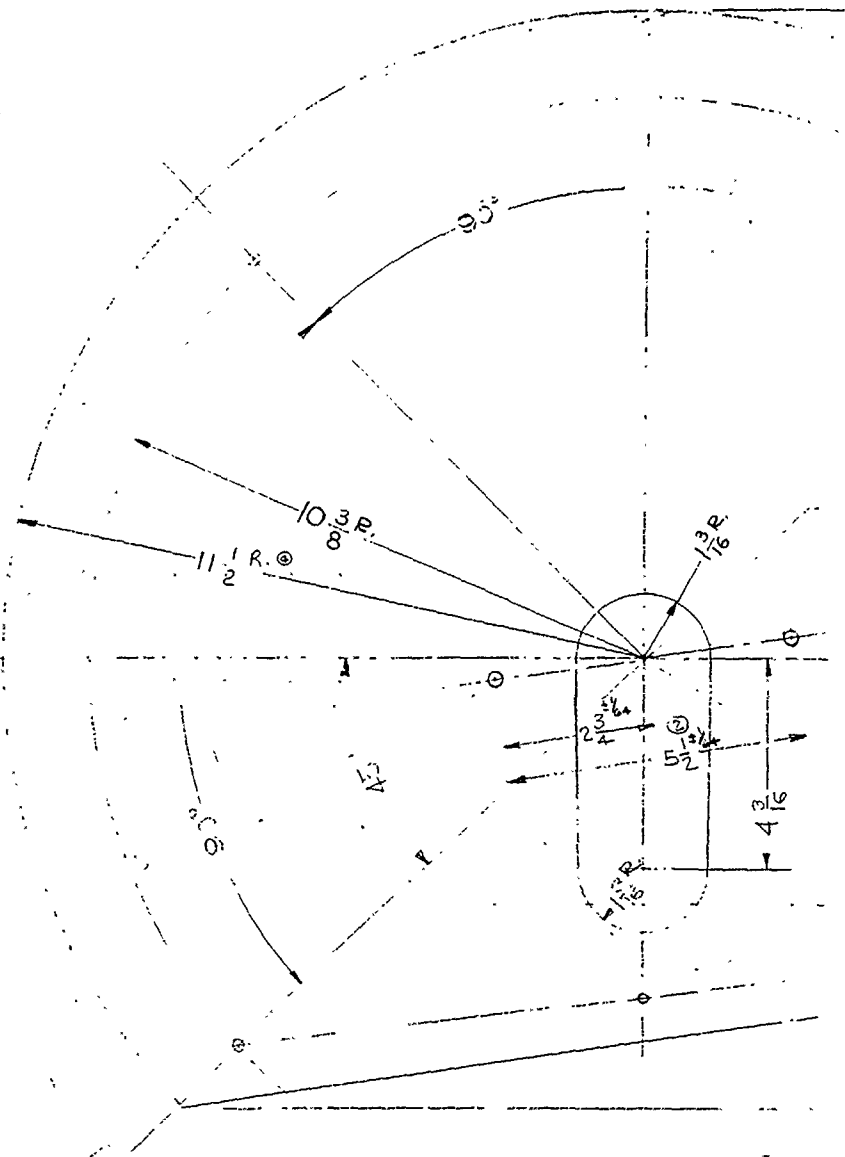
REQUISITION RECORD

PURCHASE RECORD

DATE	TOTAL QUANTITY	DELIVERY SCHEDULE				PLAN APP.	DATE	P.O. NO.	P.O. APP.	UNIT PRICE
		DATE	QUANTITY	DATE	QUANTITY					
12/2/66	35	3/27/67	35	R-		SET-UP @ 13.94	12/5/66	1 97976		113.41
2/9/68	35	4/10/68	35	R-30		SET-UP @ 15.40	2/9/68	1 53223		357.01
7/9/69	35	4/25/69	35	R-		SET-UP @ 16.50	7/9/69	1 57112		582.90
3/7/70	35	5/8/70	35	R		CRATING 7.35	3/7/70	1 62000		400.97
6/3/71	35	7/30/71	35	R			6/3/71	1 66578		3.95
4/11/72	35	5/17/72	35				4/11/72	1 80579		5.72
6/10/73	35	6/21/73	35				6/10/73	2 80579		30.94
4/20/77	35	6/10/77	35	R			4/20/77	2 93251		34.06
8/24/80	35	8/26/80	35				8/24/80	3 19958		15.50
10/1/83	10	12/1/83	10				10/1/83	3 33840		19.50
11/1/83	10	5/6/83	10	Same As PO.			11/1/83	3 35441		
5/1/84	10	5/18/84	10	Comp Save			5/1/84	3 43278		19.50
6/15/84		Where?								
10/22/84	10	11/9/84	10				10/22/84	3 46541		37.00
11/1/86	10	12/2/86	10				11/1/86	3 59958		42.50
12/29/87	10	1/3/87	10				12/29/87	4 12170		35.00
3-15-89	10	4-7-89	10				3-15-89	4 12171		

FORM 111-22 1211 500

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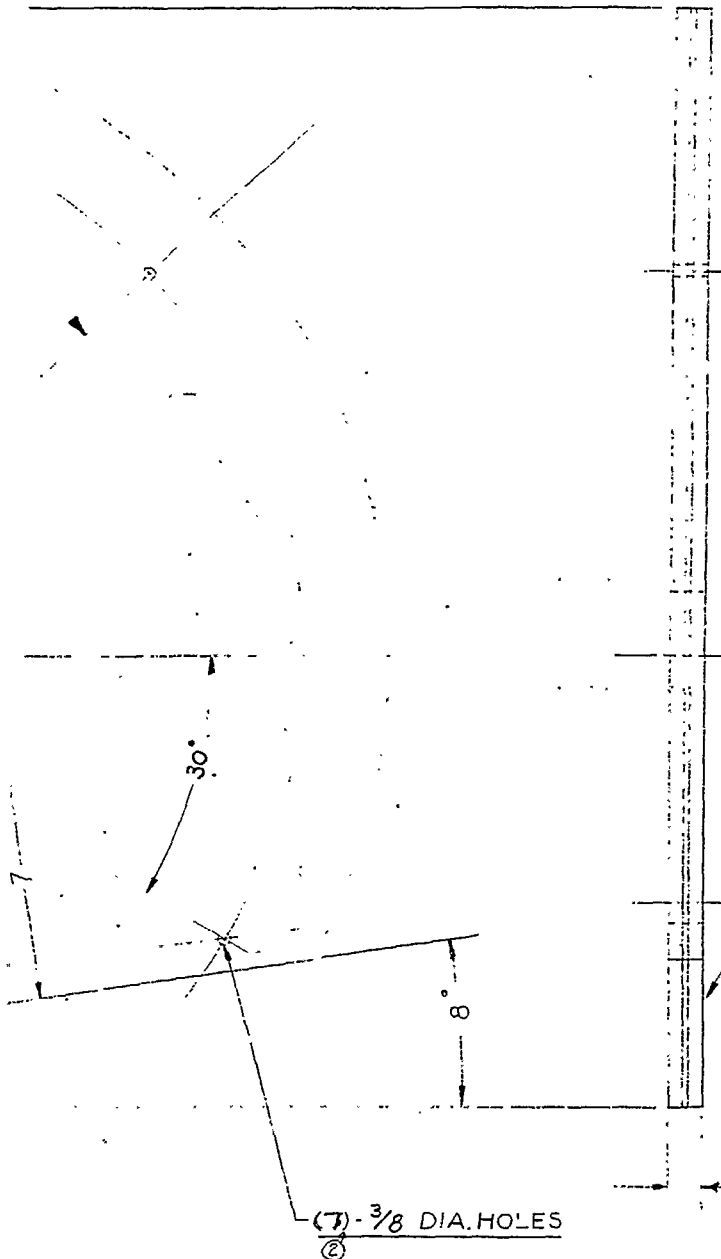


ACTURING CO. U.S.A.

PS-1

USAGE

MODEL	ASSEMBLY NO.



THIS DOCUMENT CONTAINS
SPECIAL INFORMATION, A
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WITHOUT THE PRIOR WRITTEN
CONSENT OF THE WILLBURT
COMPANY.

TOLERANCE UNLESS OTHERWISE SPEC.	10
ANGLES ± 15°	9
DECIMAL FRACTIONS ± 1/16	8
SCALE HALF	7
MATERIAL ASBESTOS MILLBOARD	6
SIZE	5
WT.	4
HEAT TREAT SPECIFICATION No.	3
HARDNESS	2
CHAR	1
DRAWN J.B.	CHECKED RCW
DATE 8-22-46	DATE 11/1/46
INSULATION BACK PLATE	
No. PS-2123	

FILE THIS PRINT

TRAVELING PURCHASE REQUISITION

BUYER BACK PLATE INSULATION ^{as per attached print} CODE NO. 280471 PART NO. 280471
PS-2123

DESCRIPTION (monomental material)

INV. CODE 124000 ACCT. NO. 124000 PLANT NO. 4 DEPT. NO. 14
 FOR RESALE ☐ UNIT OF MEASURE 14 MAXIMUM 14
 NOT FOR RESALE ☐ WEIGHT 14 MULTIPLE UNITS 14 MINIMUM 14

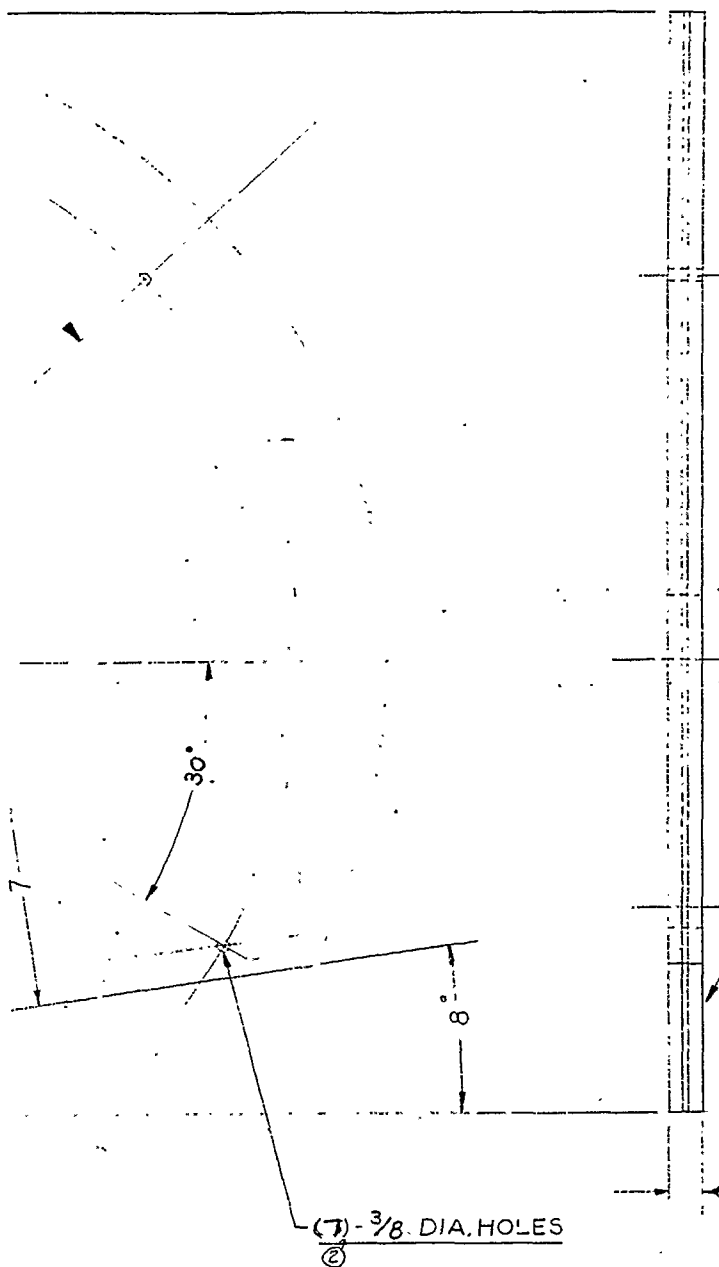
PART NUMBER OR CODE NO.	VENDOR'S NAME	VENDOR'S PART NO.	F. O. B. POINT	FREIGHT ALLOWED ON	TERMS	SHIP VIA	LEAD TIME	TRANSIT TIME	ECONOMIC	
									QUANTITY	PRICE
1	INDUSTRIAL SALES DIV. PHIL. PA.								35@	13.41
2	JOHNS-MANVILLE SALES CORP. - CLEVELAND								PHS	87.41
3	SCOTT MFG. INC. Sebree Plant	P.O. Box 408 Sebree, KY 42455				2/19/64	332.00	K		
4	AKRON CASKET	#5200 10/1/57 T.							Lot	

REQUISITION RECORD								PURCHASE RECORD			
DATE	TOTAL QUANTITY	DELIVERY SCHEDULE				PLAN APP	DATE	VEND. CODE	P.O. NO.	PUR. APP.	UNIT PRICE
		DATE	QUANTITY	DATE	QUANTITY						
12/2/66	35	3/27/67	25 V	R-		SET-UP @ 13.94	12/5/66	1	47976		113.33
2/9/68	25	4/10/68	25	R-30		SET-UP @ 15.40 CHRG. @ 7.35/K	2/9/68	1	53223		357.
7/9/69	35	4/25/69	35	R-		SET-UP @ 16.50 CRATING @ 7.35	7/9/69	1	57112		782.01
3/17/70	35	5/8/70	35	R			3/17/70	1	62000		400.9
6/3/71	35	7/30/71	35	R		Style 106 Set-UP @ 17.82 Plus 3" x 4" Bakerm. w/ dig 4700	6/3/71	1	66578		395.17
4/11/74	35	5/17/74	35	Canac. S. L.			4/11/74	1	80579		30.9
6/10/77	35	6/21/77	35	R			6/10/77	2	80579		34.01
8/24/80	35	8/25/80	35	R		Pen ATTACHED QUOTE	8/24/80	3	19958		18.00
1/6/83	10	1/24/83	10				1/5/83	3	33840		19.5
4/11/83	10	5/6/83	10	33mc		As P.O. 33840 - 1/2/83	4/11/83	3	35741		"
5/4/84	10	5/18/84	10	Comp		Have Run.	5/4/84	3	43278		19.5
6/15/84		Where?									
10/22/84	10	11/1/84	10				10/22/84	3	46541		37.00
1/19/86	10	12/2/86	10				1/19/86	3	59958		42.5
8/29/87	10	11/18/87	10				8/29/87	4	12172		2500.
3-15-89	10	4-7-89	10				3-15-89	4	12171		"

FORM 111-22

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1217-500

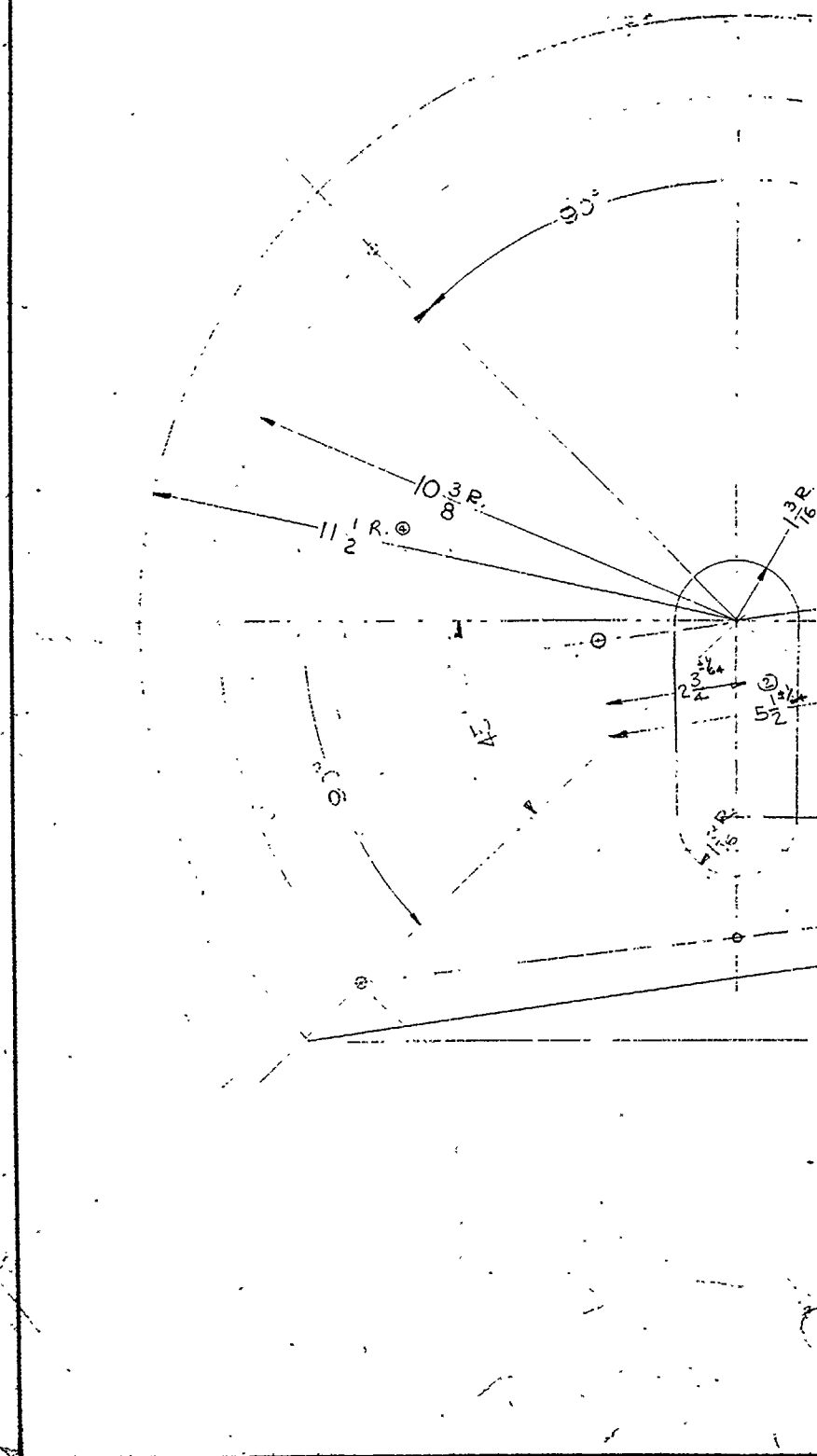
[illegible]

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③, ⑤
CEMENTED ASSEMBLY OF:
(1) $\frac{1}{4}$ AND (1) $\frac{3}{8}$ ASBESTOS MILLBOARD.

TOLERANCE UNLESS OTHERWISE SPEC.		30	
ANGLE $\pm 15^\circ$		9	
DECIMAL FRACTIONS $\pm 1/16$		8	
SCALE HALF		7	
MATERIAL		6	
ASBESTOS		5	1/2" x 6" C-57
MILLBOARD		4	1/2" x 6" C-57
SIZE		3	1/2" x 6" C-57
WT.		2	1/2" x 6" C-57
HEAT TREAT		1	1/2" x 6" C-57
SPECIFICATION NO.		1	226-97-306
HARDNESS		10	DATE 12-20-46
		CHANGE	
DRAWN J.B.	CHECKED RCW	RELEASED EN-326	
DATE: 8-22-46	DATE: 12-11-46	DATE: 12-20-46	
INSULATION			
BACK PLATE			
No. PS-2123			

THIS PRINT



TRAVELING PURCHASE REQUISITION

BUYER BACK PLATE INSULATION *as per attached print* PART NO. 280471
 PS-2123 280471

DESCRIPTION
 (masonry material)

INV. CODE CLASS ACCT. NO. 124000 PLANT NO. 4 DEPT. NO. 114
 FOR RESALE ☐ UNIT OF MEASURE MAXIMUM
 NOT FOR RESALE ☐ WEIGHT MULTIPLE UNITS MINIMUM

VENDOR'S NAME	VENDOR'S PART NO.	F. O. B. POINT	FREIGHT ALLOWED ON	TERMS	SHIP VIA	LEAD TIME	TRANSIT TIME	ECONOMIC QUANTITY	PRICE
1 INDUSTRIAL SALES DIV. PHIL. PA									
JOHNS-MANNVILLE SALES CORP. - CLEVELAND								35 @	113.41/lot
2 SCOTT MFG. INC. D.O. BOX 408 Sebree, KY 42455					21916A	382.00/K		PLHS	SET UP
3 AARON GASKET #5200 14/107. T.						+ 16.50		Set up	LOT
4 M. R.									

REQUISITION RECORD

PURCHASE RECORD

DATE	TOTAL QUANTITY	DELIVERY SCHEDULE						DATE	P.O. NO.	PUR. APP.	UNIT PRICE
		DATE	QUANTITY	DATE	QUANTITY	DATE	QUANTITY				
12/2/66	35	3/27/67	35	R-			SET-UP @ 13.94	12/5/66	1 47976		113.41/lot
2/9/68	35	7/2/68	35	R-30			SET-UP @ 15.40	2/9/68	1 53223		357.01
3/9/68	35	4/25/68	35	R-			SET-UP @ 16.50	3/9/68	1 57112		382.00
3/17/70	35	5/8/70	35	R			CRATING 7.35	3/17/70	1 62506		400.89
6/3/71	35	7/30/71	35	R			SET-UP @ 17.82	6/3/71	1 66578		400.89
4/11/74	35	5/17/74	35	Cancelled				4/11/74	1 80579		3.95
6/10/77	35	6/21/77	35					6/10/77	2 80579		30.94
4/20/77	35	6/10/77	35	R				4/20/77	2 93251		34.86
3/24/80	35	8/25/80	35	Cancelled				3/24/80	3 19258		125.00
4/6/83	10	4/21/83	10					4/6/83	3 33840		125.00
4/11/83	10	5/16/83	10	Same as PO				4/11/83	3 35741		4
5/4/84	10	5/18/84	10	Comp. Dave R.				5/4/84	3 43278		19.50
4/15/84		Where?									
10/22/84	10	11/1/84	10					10/22/84	3 46541		39.00
1/19/86	10	12/2/86	10					1/19/86	3 59958		42.50
9/29/87	10	11/3/87	10					9/29/87	4 11170		42.50
3-15-89	10	4-7-89	10					3-15-89	4 11171		42.50

FORM 100-21

1217 500

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③ ⑤

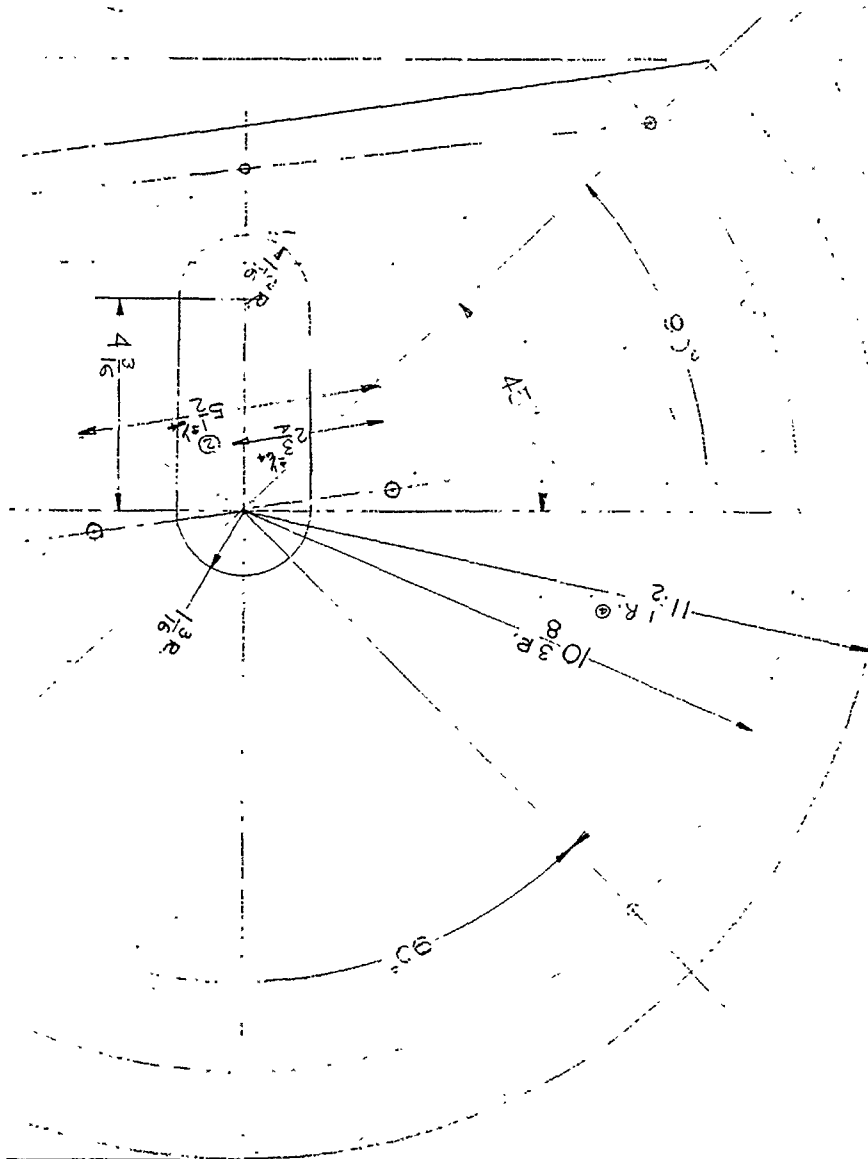
CEMENTED ASSEMBLY OF:
(1) $\frac{1}{4}$ AND (1) $\frac{3}{8}$ ASBESTOS IN?
MILLBOARD.

(7) - $\frac{3}{8}$ DIA. HOLES

③ 5/5

TOLERANCE UNLESS OTHERWISE SPEC.		10		
ANGLES $\pm 15^\circ$		9		
DECIMAL FRACTION $\pm 1/16$		8		
SCALE HALF		7		
MATERIAL ASBESTOS MILL BOARD		6	1065	2-5706
SIZE		5	7-1/2	1-5/8
WT.		4	12-1/2	0-1220
HEAT TREAT SPECIFICATION NO.		3	10144	1-323
HARDNESS		2	215-97	1-3064
		10	DATE	CHKD
		CHANGED		
DRAWN J.B.	CHECKED RCW	RELEASER EN-374		
DATE: 8-22-46	DATE: 12-11-46	DATE: 12-20-46		
INSULATION				
BACK PLATE				
No. PS-2123				

IS PRINT



TRAVELING PURCHASE REQUISITION

BUYER **BACK PLATE INSULATION** *per attached print* PART NO. **280471**
 PS-2123 CODE NO. **280471**

DESCRIPTION

(non-metallic material)

INV. CODE

CLASS

ACCT. NO.

PLANT NO.

DEPT. NO.

FOR RESALE

UNIT OF MEASURE

MAXIMUM

NOT FOR RESALE

WEIGHT

MULTIPLE UNITS

MINIMUM

VENDOR'S NAME	VENDOR'S PART NO.	F.O.B. POINT	FREIGHT ALLOWED ON	TERMS	SHIP VIA	LEAD TIME	TRANSIT TIME	ECONOMIC QUANTITY	PRICE
1 INDUSTRIAL SALES DIV. PHIL. PA.									
2 JOHN'S-MANVILLE SALES CORP. - CLEVELAND									
3 SCOTT MFG. INC. S.E. Bree, KY 42455									
4 AKRON CASKET									

REQUISITION RECORD

PURCHASE RECORD

DATE	TOTAL QUANTITY	DELIVERY SCHEDULE				PLAN APP.	DATE	VEND. CODE	P.O. NO.	PUR. APP.	UNIT PRICE
		DATE	QUANTITY	DATE	QUANTITY						
12/2/66	35	3/27/67	35	R-		SET-UP @ 13.94	12/5/66	1	47976		113.41
1/9/68	35	4/21/68	35	R-300		SET-UP @ 15.40	1/9/68	1	53223		357.01
7/9/69	35	4/25/69	35	R-		SET-UP @ 16.50	7/9/69	1	57112		582.00
3/7/70	35	5/8/70	35	R		CRATING @ 7.35	3/7/70	1	62006		46.97
6/3/71	35	7/30/71	35	R		SET-UP @ 17.82	6/3/71	1	66518		17.92
4/1/72	35	5/17/72	35	Cancelled			4/1/72	1	80579		3.95
6/1/72	35	6/21/72	35				6/1/72	2	80579		50.94
4/20/77	35	6/10/77	35	R			4/20/77	2	93251		34.06
3/24/80	35	7/29/80	35	Cancelled			3/24/80	3	19358		19.50
1/6/83	10	1/21/83	10				1/6/83	3	33840		19.50
4/11/83	10	5/6/83	10	Same as PO			4/11/83	3	36441		"
5/4/84	10	5/18/84	10	Conf. Dave Run.			5/4/84	3	43278		19.50
6/15/84		Where?									
10/12/84	10	11/9/84	10				10/12/84	3	46541		39.20
7/19/86	10	12/16/86	10				7/19/86	3	59958		4.50
9/29/87	10	11/3/87	10				9/29/87	4	15170		42.50
3-15-89	10	4-7-89	10				3-15-89	4	15171		"

FORM IN-22

J217-500

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105-2143

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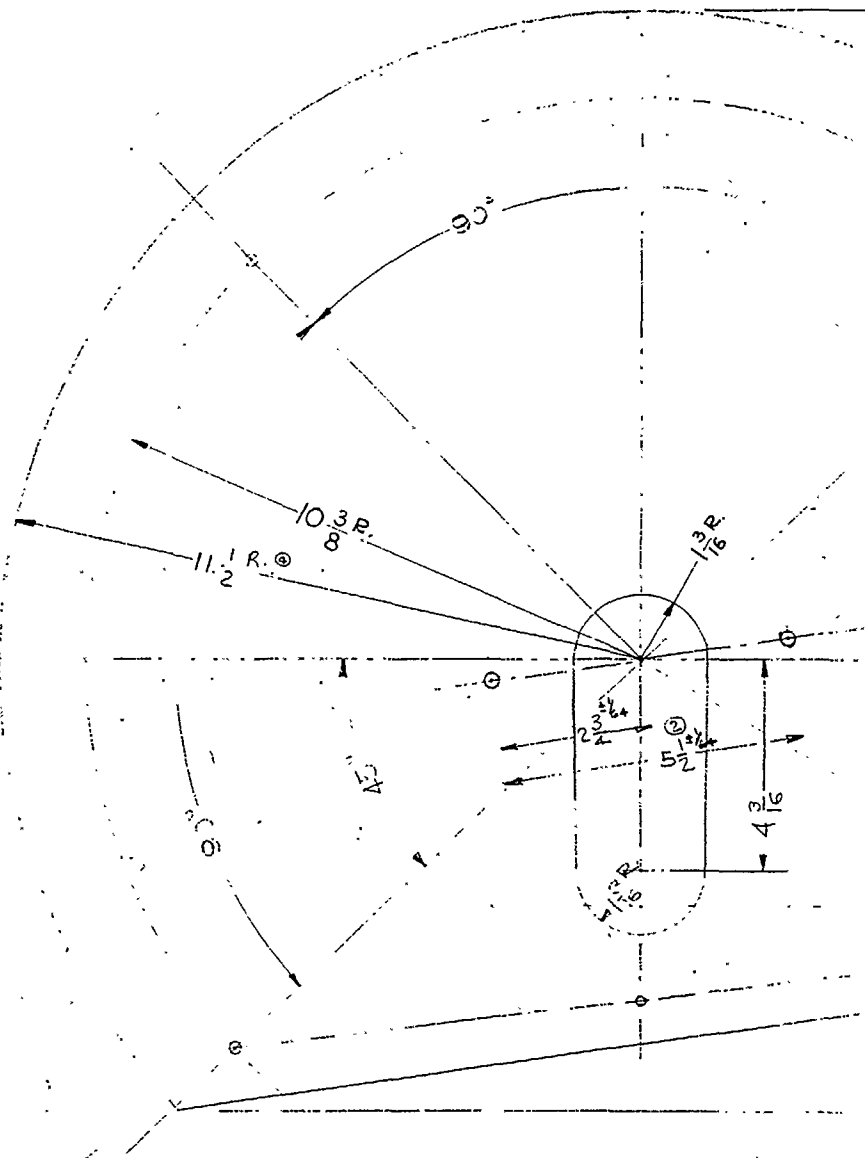
③ ⑤

CEMENTED ASSEMBLY OF:
(1) 1/4 AND (1) 3/8 ASBESTOS IN?
MILLBOARD.

-(7)- $\frac{3}{8}$ DIA. HOLES

TOLERANCE UNLESS OTHERWISE SPEC.		70		
ANGLE $\pm 15^\circ$		8		
DECIMAL		9		
FRACTION $\pm 1/16$		0		
SCALE <u>1:1</u>		1		
MATERIAL		2		
ASBESTOS		3	1/2" x 36" C-366	
MILL BOARD		4	1/2" x 36" C-366	
SIZE		5	22" x 36" C-366	
WT.		6	22" x 36" C-366	
HEAT TREAT		7	22" x 36" C-366	
SPECIFICATION No.		8	22" x 36" C-366	
HARDNESS		9	DATE C-366	
CHANGES				
DRAWN J.B.	CHECKED R.W.	RELEASED EN-32		
DATE 8-22-46	DATE 8-11-46	DATE 12-20-46		
INSULATION				
BACK PLATE				
No. PS-2123				

IRON FIREMAN MA



TRAVELING PURCHASE REQUISITION

GASKET Per PAINT
 JYR PS-2173 280481 PART NO. 280481

DESCRIPTION

V. CODE
CLASS _____ ACCT. NO. 131 PLANT NO. 4 DEPT. NO. _____

IR RESALE	UNIT OF MEASURE	MAXIMUM

NOT FOR RESALE _____ WEIGHT _____ MULTIPLE UNITS _____ MINIMUM _____

[illegible]

REQUISITION RECORD								PURCHASE RECORD					
DATE	TOTAL QUANT	DELIVERY SCHEDULE						PLAN APP.	DATE	YERO CODE	P.O. NO.	PUR. APP.	UNIT PRICE
		DATE	QUANTITY	DATE	QUANTITY	DATE	QUANTITY						
1/67	40	4/21/78	40	R-46					3/1/67	1	49340	✓	1.00
12/78	10	3/15/78	10	Print En			R		2/14/78	2	97640	✓	1.00
10/81	10	7/24/81	10	"	"		R		9/10/81	2	35569		2.24
20/82	10	1/7/83	10				R		12/20/82	2	33667		"
7/87	10	11/6/87	10						10/1/87	2	140		2.1
				</									

TRAVELING PURCHASE REQUISITION

GASKET

Per Patient

JYER_

PS-2173

280481

PART NO.

28045

DESCRIPTION.

V. CODE
CLASS

ACCT. NO.

_PLANT NO

DEPT. NO.

FOR RESALE.

UNIT OF
MEASURE

_MAXIMUM

NOT FOR RESALE.

WEIGHT

MULTIPLE
UNITS

MINIMUM

[illegible]

REQUISITION RECORD								PURCHASE RECORD					
DATE	TOTAL QUANT	DELIVERY SCHEDULE						PLAN APP.	DATE	VEND CODE	P.O. NO.	PUR. APP.	UNIT PRICE
		DATE	QUANTITY	DATE	QUANTITY	DATE	QUANTITY						
1/67	40	4/2/78	40	R-46					3/1/67	1	49340	✓	1.00 E.P.
12/78	10	3/15/78	10	Paint	Es. to		R		2/14/78	2	97640	✓	2.00
10/81	10	7/24/81	10	"	"		R		9/10/81	2	35569		2.24
120/82	10	1/7/83	10				R		12/20/82	2	33667		"
9/87	10	11/6/87	10				C		10/1/87	2	44444		2.00

TRAVELING PURCHASE REQUISITION

GASKET

Per Point

JYER

~~PS-2173~~

~~280481~~

PART NO.

280451

DESCRIPTION.

V. CODE
CLASS

ACCT. NO.

PLANT NO.

DEPT. NO.

FOR RESALE

UNIT OF MEASURE

MAXIMUM

IT FOR RESALE

WEIGHT

MULTIPLE UNITS

MINIMUM

[illegible]

REQUISITION RECORD

PURCHASE RECORD

DELIVERY SCHEDULE														PLAN APP.	DATE	YEND CODE	P.O. NO.	PUR. APP.	UNIT PRICE
DATE	TOTAL QUANT	DATE	QUANTITY	DATE	QUANTITY	DATE	QUANTITY												
7/67	40	4/21/78	40	R-46						3/1/67	1	49340	✓	1.00 EA					
12/78	10	3/15/78	10	Premat E. to wire				R		2/14/78	2	97640	✓	2.00					
10/81	10	7/24/81	10	"		"		R		7/10/81	2	35569	✓	2.24					
12/82	10	1/1/83	10					R		12/20/82	2	33667		"					
7/87	10	11/6/87	10					C		10/1/87	2	24		2"					
								</											

1217-500

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

TRAVELING PURCHASE REQUISITION

JYER GASKET Per Paint PS-2173 280481 PART NO. 280481

DESCRIPTION

V. CODE CLASS 144-48 ACCT. NO. 131 PLANT NO. 4 DEPT. NO. 4
 OR RESALE ☐ UNIT OF MEASURE MAXIMUM
 OT FOR RESALE ☐ WEIGHT MULTIPLE UNITS MINIMUM

VENDOR'S NAME	VENDOR'S PART NO.	F. O. B. POINT	FREIGHT ALLOWED ON	TERMS	SHIP VIA	LEAD TIME	TRANSIT TIME	ECONOMIC	
								QUANTITY	PRICE
CLARK ASBESTOS Co.									
AKRON GASKET									

REQUISITION RECORD

PURCHASE RECORD

DATE	TOTAL QUANT	DELIVERY SCHEDULE				PLAN APP.	DATE	VEND CODE	P.O. NO.	PUR. APP.	UNIT PRICE
		DATE	QUANTITY	DATE	QUANTITY						
1/67	40	4/2/78	40	R-46			3/1/67	1	49340	✓	1.00
12/78	10	3/15/78	10	Paint En. Co.		R	2/14/78	2	97640	✓	1.00
10/81	10	7/24/81	10	"	"	R	7/10/81	2	35569	✓	2.24
12/82	10	1/7/83	10			R	12/10/82	2	33667		"
1/87	10	11/6/87	10								

1217-500

TRAVELING PURCHASE REQUISITION

42-12

GASKET *Per PART*

JYER PS-2173 280481 PART NO. 280481

DESCRIPTION.

V. CODE _____
CLASS _____ ACCT. NO. 31 PLANT NO. 4 DEPT. NO. _____

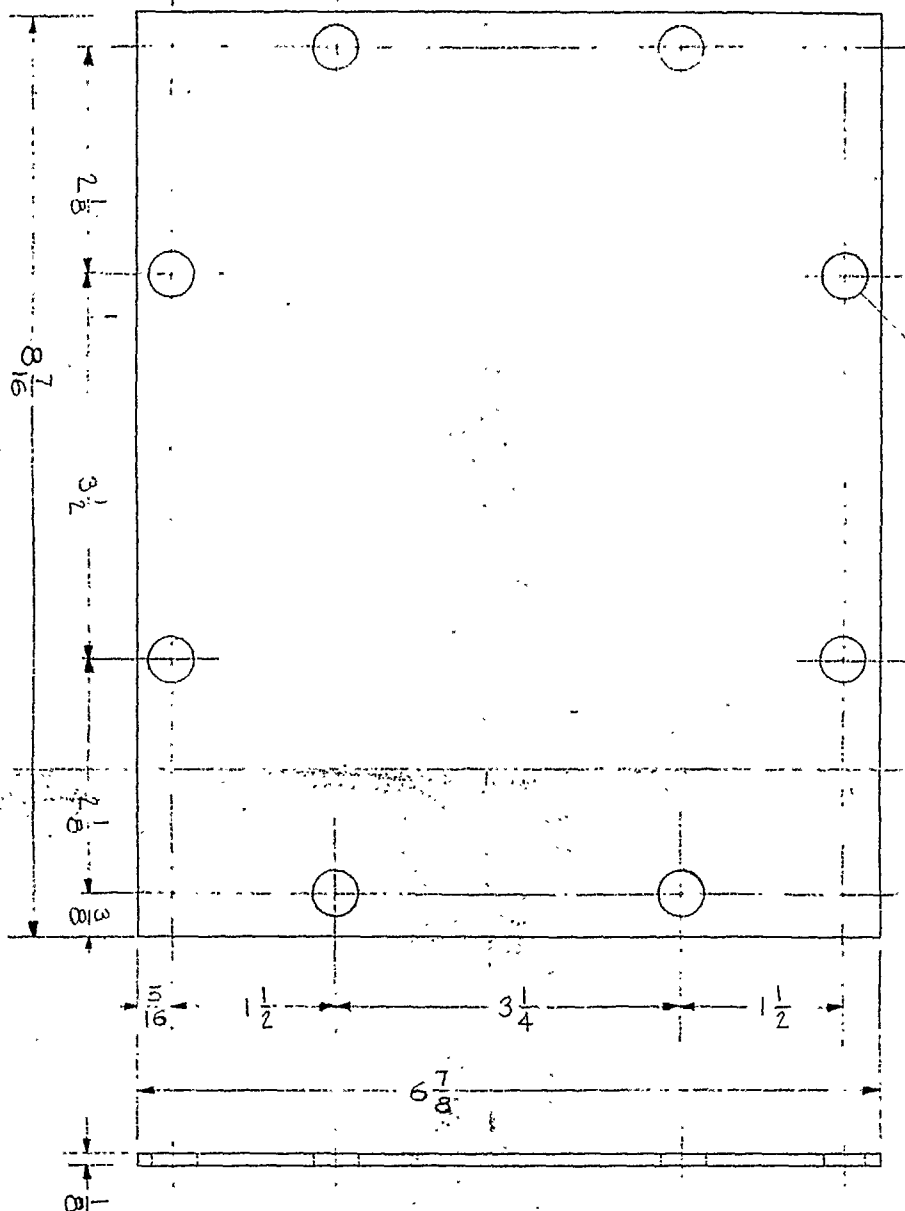
UNIT OF
MEASURE _____ MAXIMUM _____
FOR RESALE _____

NOT FOR RESALE _____ ☐ WEIGHT _____ MULTIPLE UNITS _____ MINIMUM _____

[illegible][illegible]

1217-500

(8) HOLES $\frac{7}{16}$ DIA

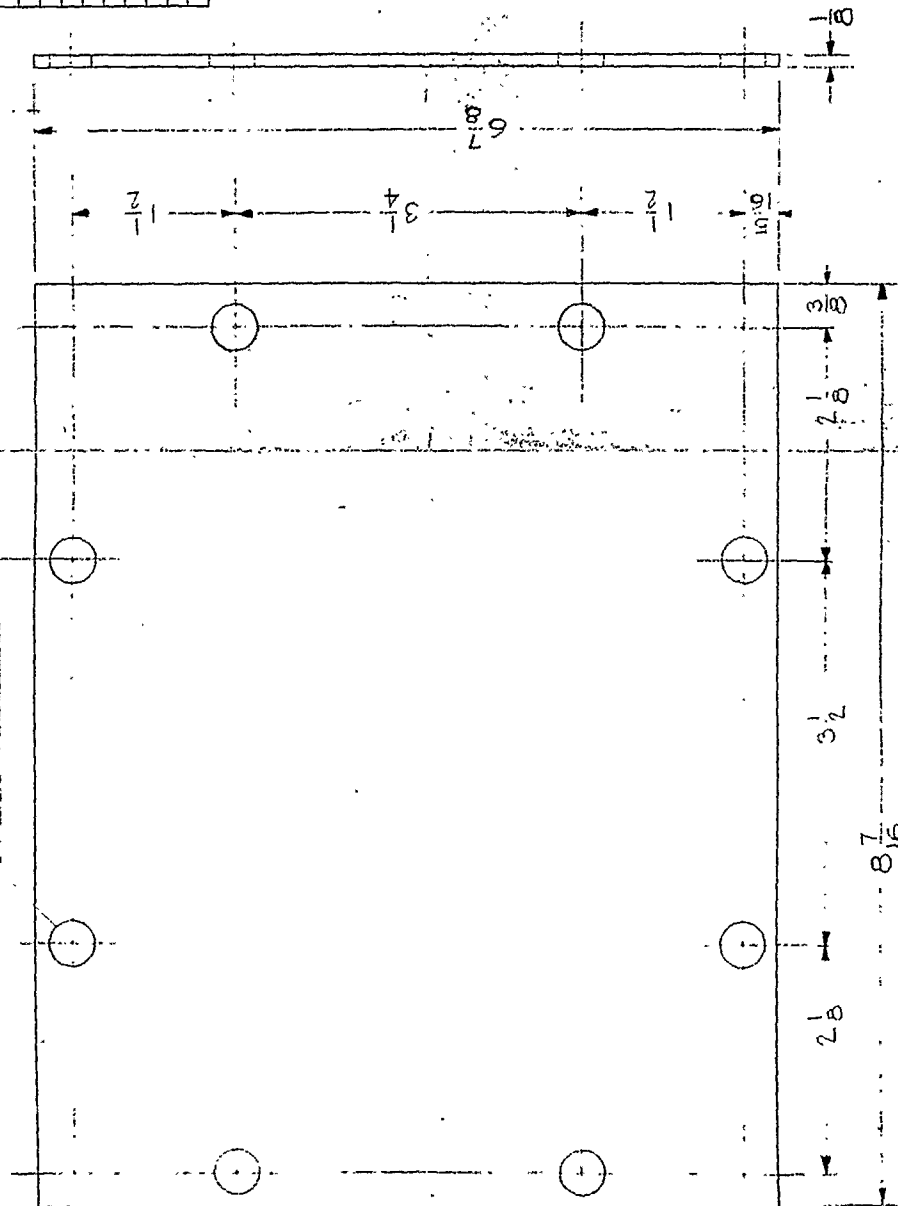


DO NOT SCALE THIS PRINT

[illegible][illegible]

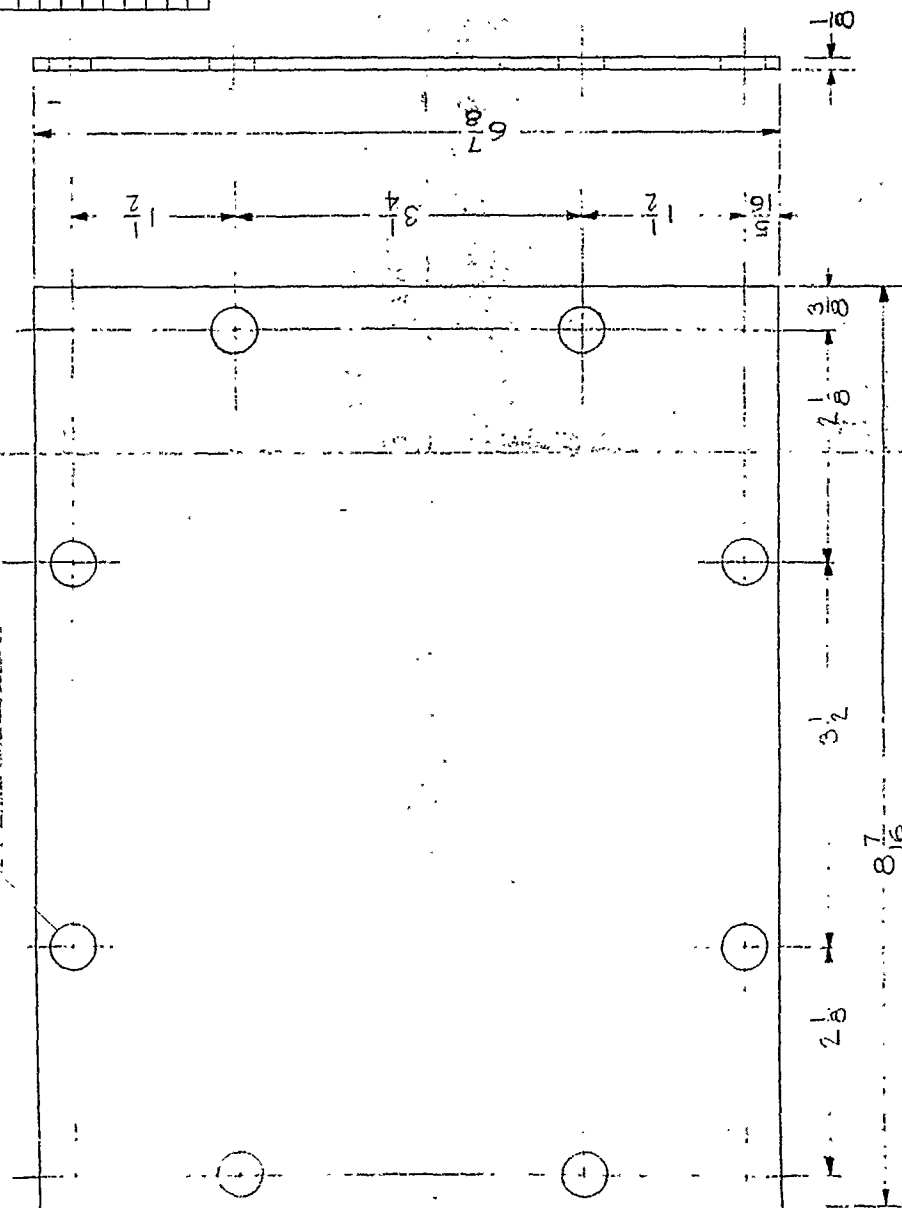
MODEL	USAGE	ASSEMBLY NO.
-------	-------	--------------

(8) HOLES $\frac{7}{16}$ DIA

[illegible]

USAGE

(8) HOLES $\frac{7}{16}$ DIA



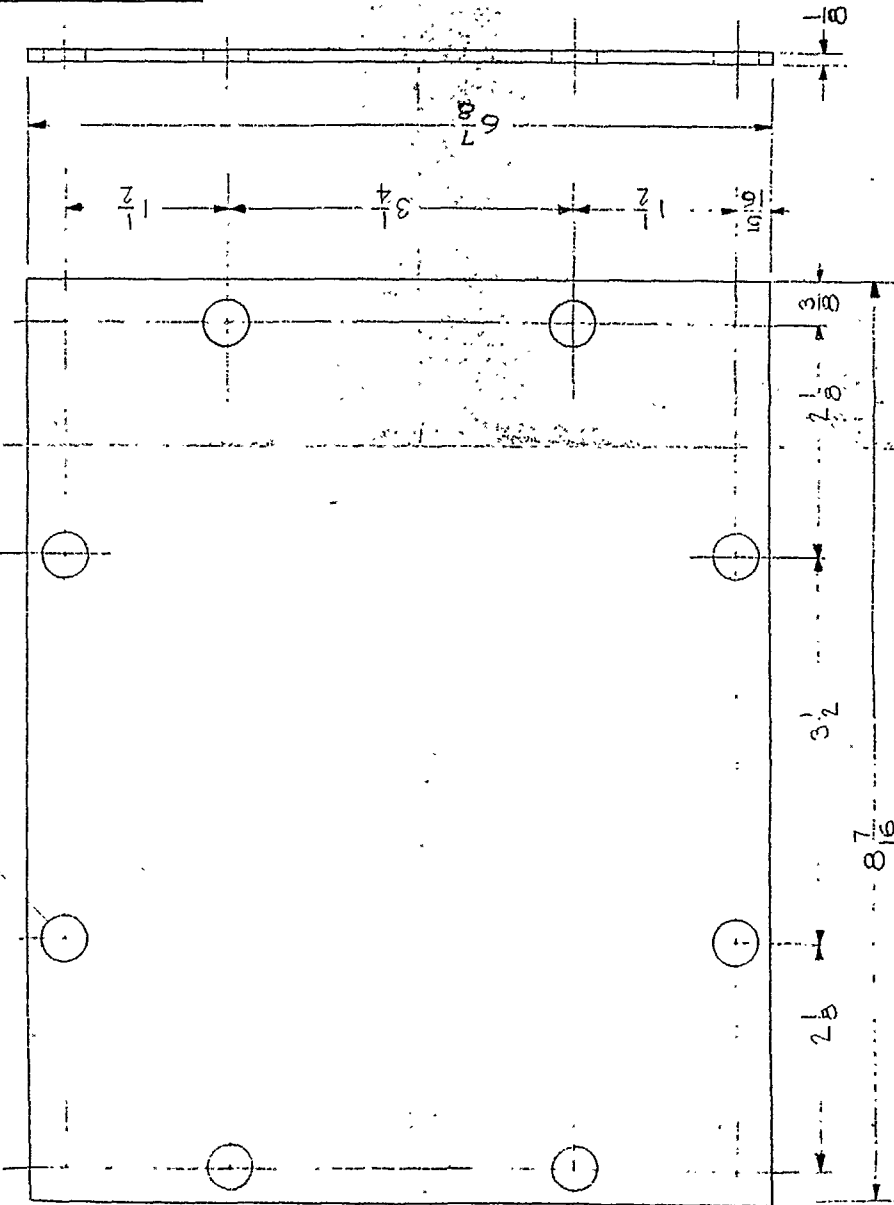
DO NOT SCALE THIS PRINT

[illegible]

10	TOLERANCE	10	DATE	10	CHANGES
9	WELD OR SOLDER	9	2-27-54	9	REWORK
8	ANCHORS	8	DATE	8	ENGR.
7	FRAC. IN. DIA.	7	C.N.N.	7	
6	SCALE FULL	6		6	
5	MATERIAL	5		5	
4	WOVEN FAB. OR	4		4	
3	SHEET	3		3	
2	SIZE 1/8" THICK	2		2	
1	WE	1		1	
	HEAT TREAT				
	SPECIFICATION No.				
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	HARDNESS				
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	CHECKED				
	A.P.H.				
	DATE				
	8-14-46				
	GASKET				
	BOTTOM PLATE				
	No. PS-2173				

USAGE

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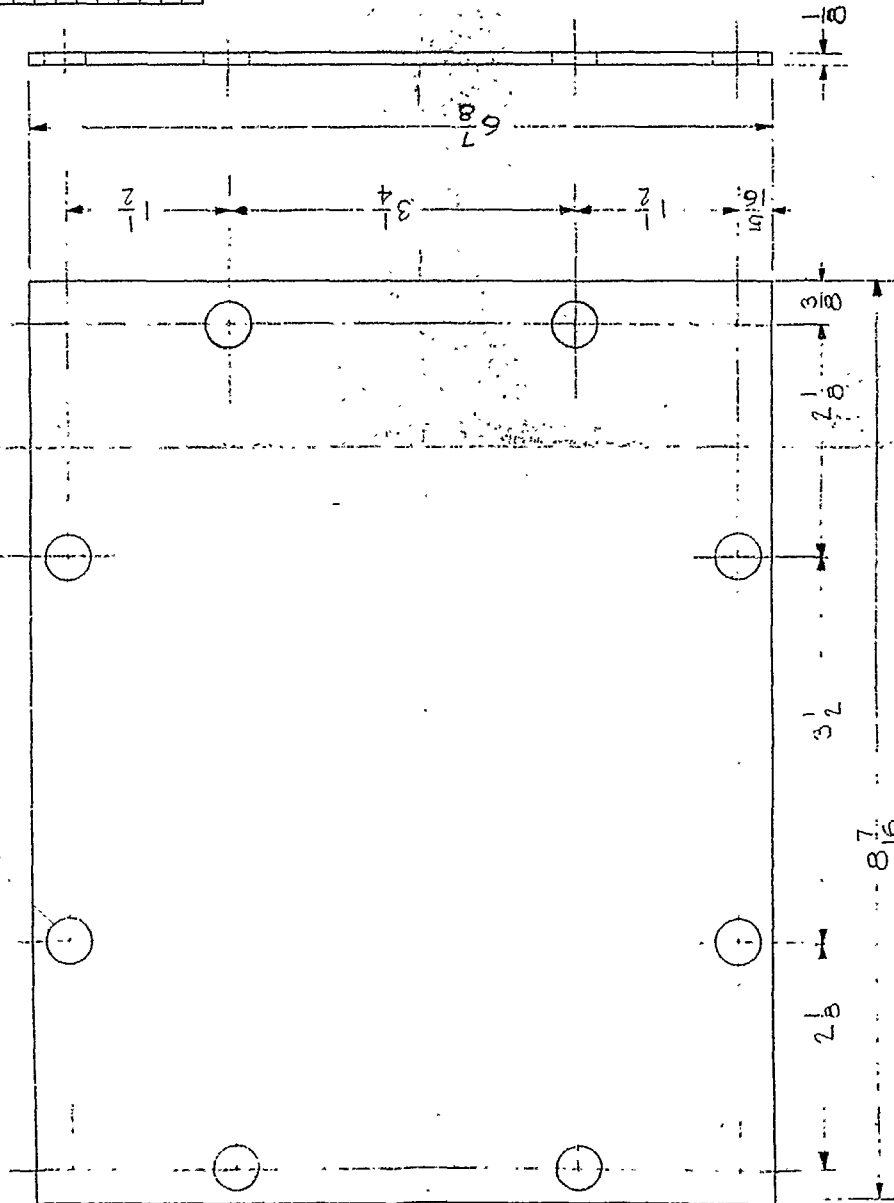


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REPLACEMENT PARTS

401 Series Pneumatic Spreader Stokers

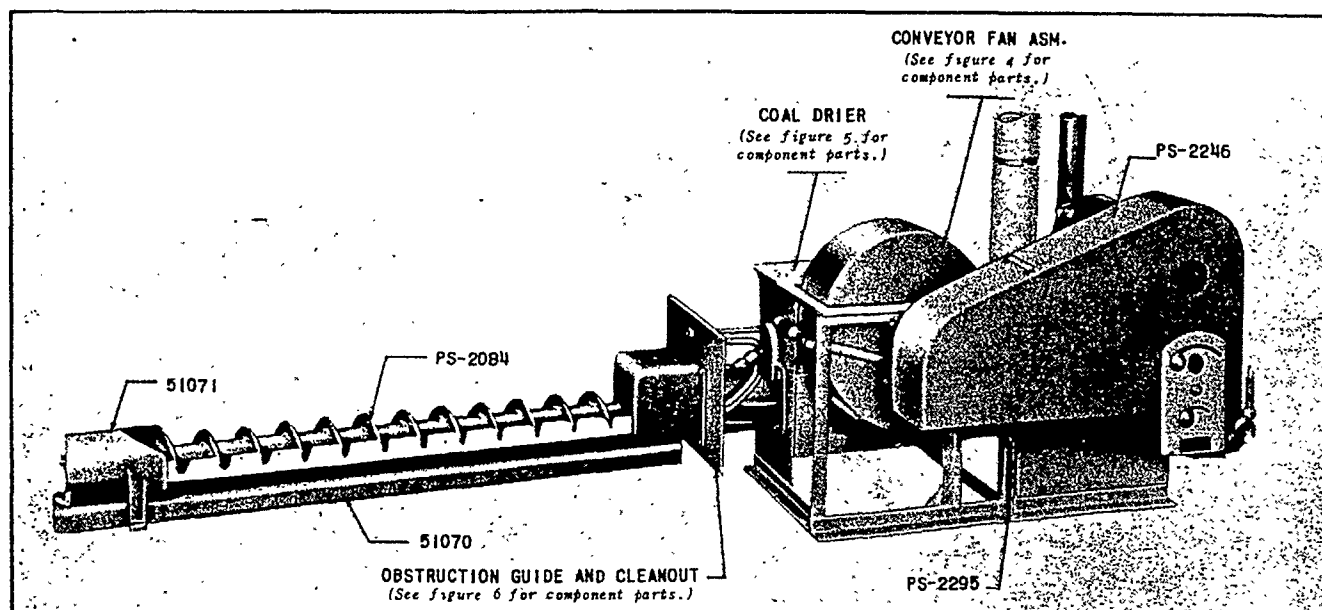


Figure 1 -- PS-401 Series Pneumatic Spreader Stoker - Refer to Parts List I (Pg 10)

MODELS COVERED - 1949-1964

<u>MODEL</u>	<u>MODEL</u>
PS-75	PS-200
PS-110	PS-300
PS-160	PS-400

*IMPORTANT: Always specify stoker model number
and serial number when ordering.*

GENERAL. Replacement parts for the 401 Series Pneumatic Spreader Stokers are listed and illustrated in this catalog. These units were first produced in 1949.

UNDERGRATE FAN UNITS. These units were equipped with undergrate fan units and an air duct with volumeter. Refer to Table II, page 15, for usage

of the items. Refer to figures 9, 10, 11, 12 and 13 and to Parts List III for identification of parts.

GRATE PARTS. These stokers were equipped with either stationary-type grates or power-operated dump grates. Refer to figures 16, 17 and 18 and to Parts List I for identification of parts.

THE WILL-BURT COMPANY

ORRVILLE, OHIO, U.S.A.

LIST OF CONTENTS

PARTS LISTS

	<u>Page</u>
Parts List I - Standard, Optional and Extra Equipment	10
Parts List II - PS Gear Case Assembly	15
Parts List III - Undergrate Fan Units and Air Duct Parts	21
Parts List IV - Conveying Fan Assembly	24

TABLES

Table I - Stoker and Conveying Fan Drive Data	9
Table II - Undergrate Fan Data.	20

LIST OF ILLUSTRATIONS

Figure 1 - PS-401 Series Pneumatic Spreader Stoker	1
Figure 2 - Front View of Stoker	3
Figure 3 - PS Gear Case Assembly	4 & 5
Figure 4 - Train View of Conveyor Fan Parts	6
Figure 5 - Coal Drier Parts.	7
Figure 6 - Obstruction Guide and Cleanout Parts	7
Figure 7 - Conveyor Elbow Assemblies	8
Figure 8 - Transfer Housing Cleanout Parts	8
Figure 9 - PG-4C Undergrate Fan Unit	17
Figure 10 - PG-50, 51, 52 and 53 Single Undergrate Fan Units	18
Figure 11 - Duplex Undergrate Fan Unit	18
Figure 12 - Internal Parts of Undergrate Fan Units	19
Figure 13 - Volumeter Air Duct Parts.	19
Figure 14 - PS-2413 Nozzle Assembly	25
Figure 15 - Coal Agitator Parts	25
Figure 16 - Miscellaneous Parts	26
Figure 17 - Dump Grate Parts	27
Figure 18 - Stationary Grate Parts	28

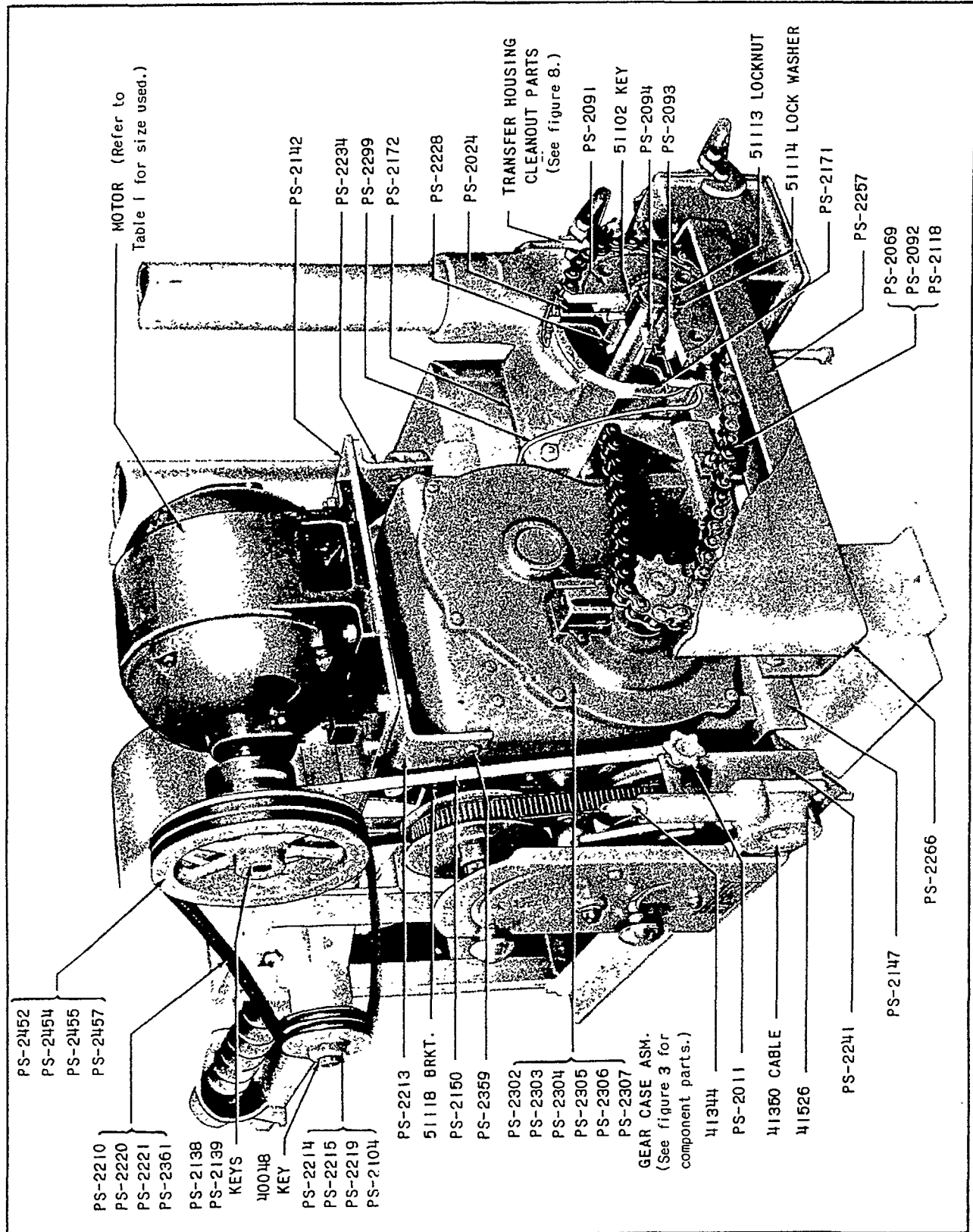


Figure 2 - Front View of Stoker - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

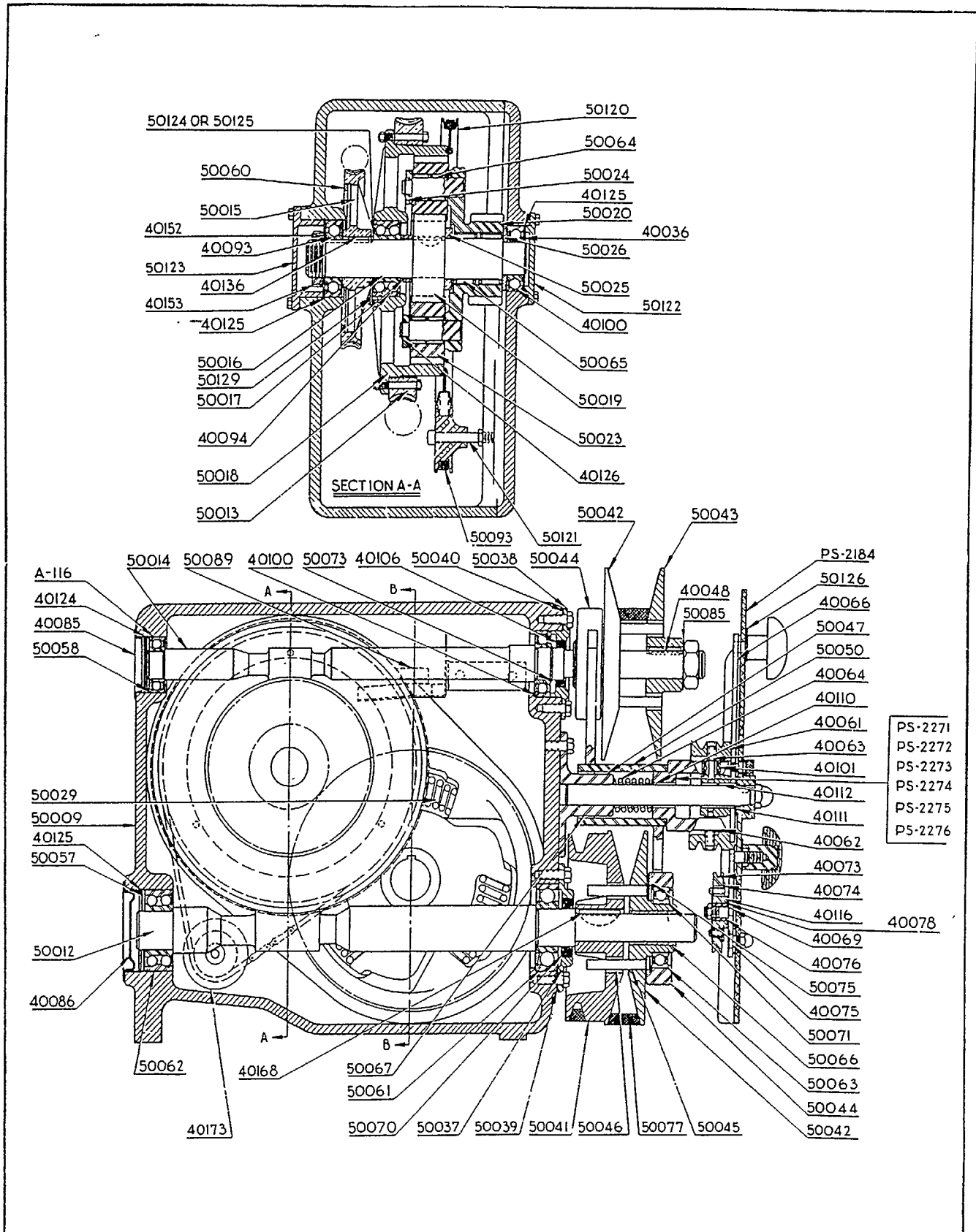


Figure 3 - PS Gear Case Assembly - Refer to Parts List II (Page 15)

IMPORTANT: Always specify stoker model number.

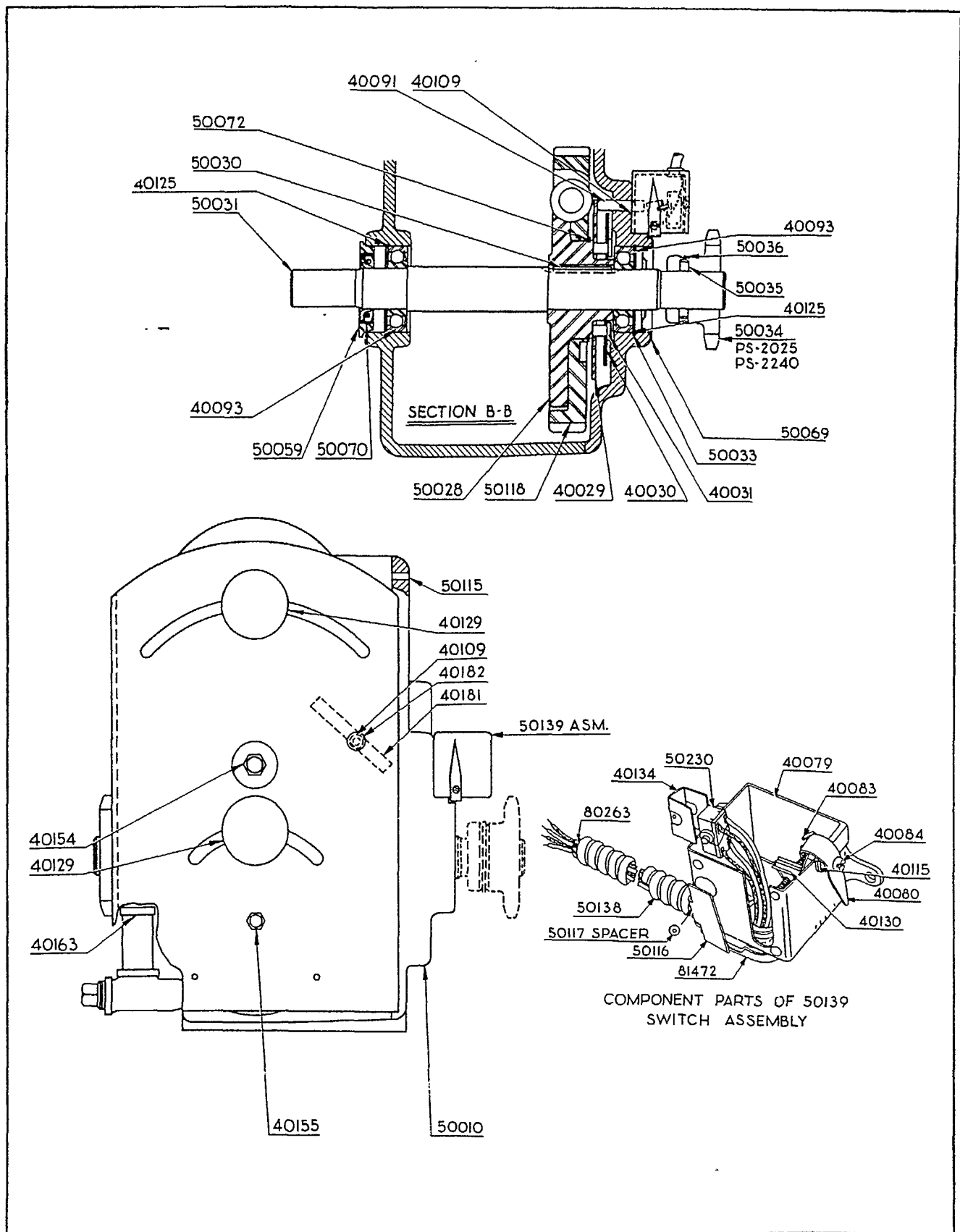


Figure 3 - PS Gear Case Assembly - Refer to Parts List II (Page 15)

IMPORTANT: Always specify stoker model number.

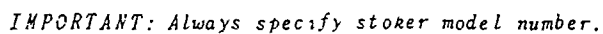


Figure 4 - Train View of Conveyor Fan Parts - Refer to Parts List I (PG 10)
(Refer to Parts List IV (Pg 24) for Parts Included in Replacement Fan Assembly)

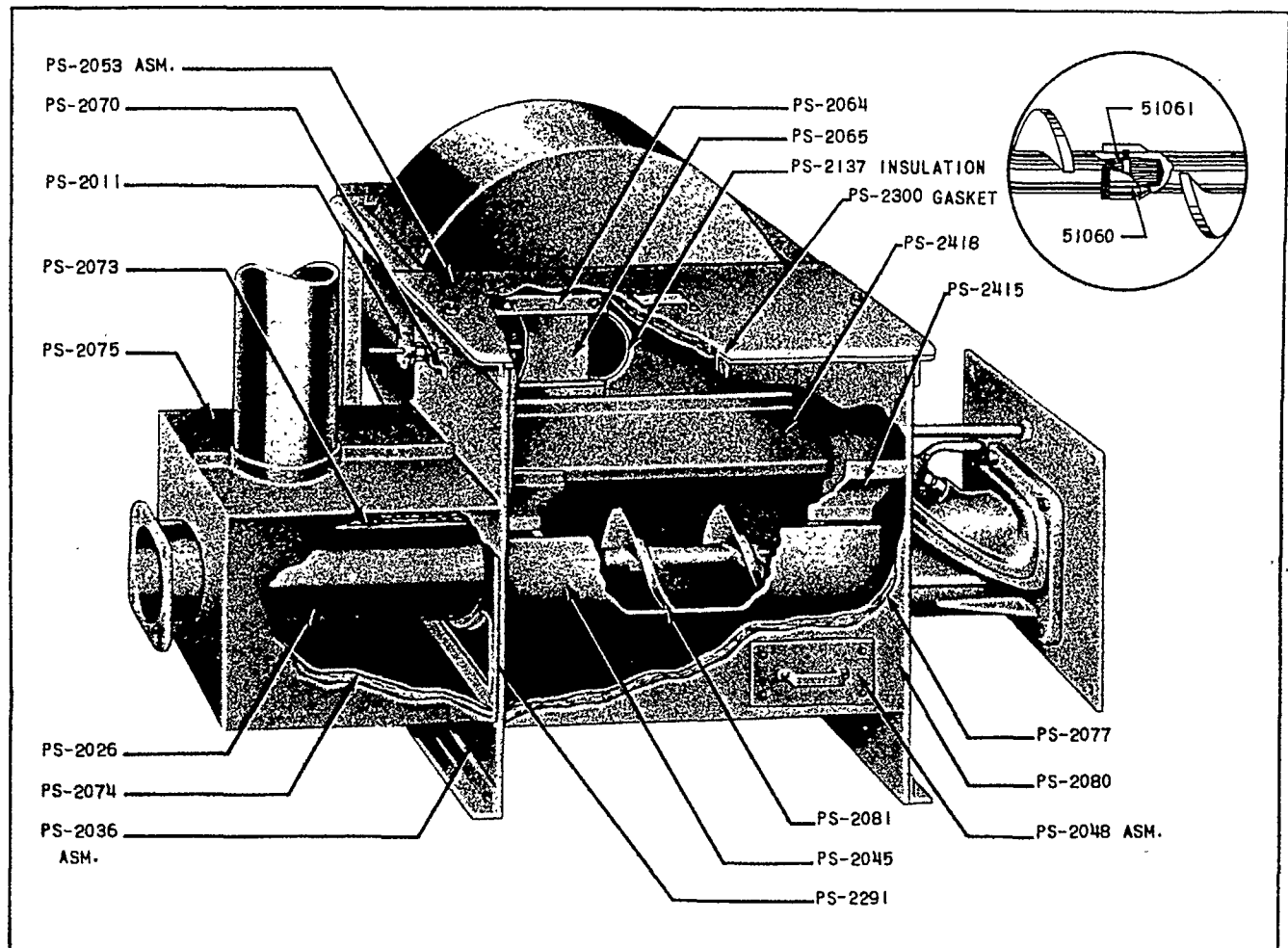


Figure 5 - Coal Drier Parts - Refer to Parts List I (Pg 10)

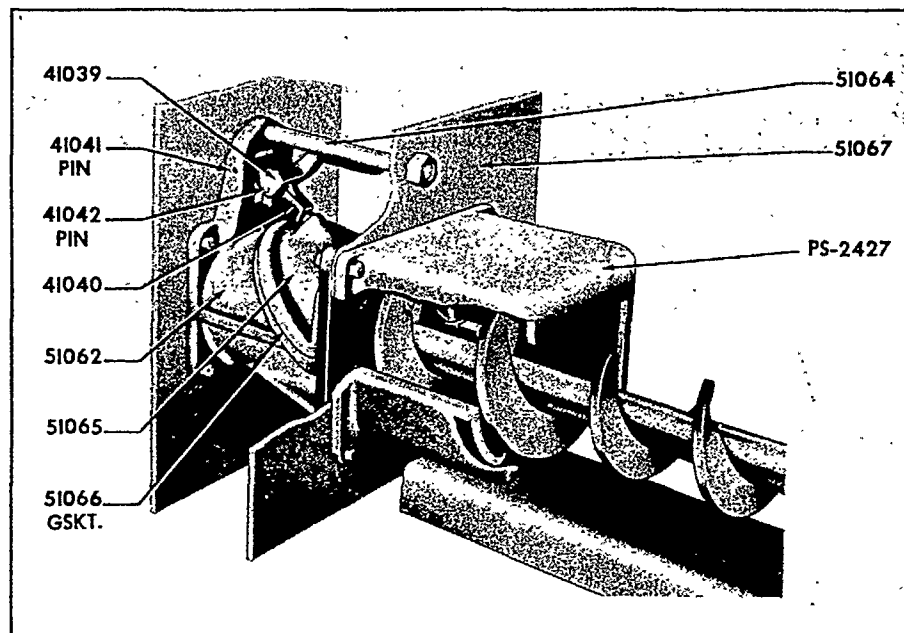


Figure 6 - Obstruction Guide and Cleanout Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

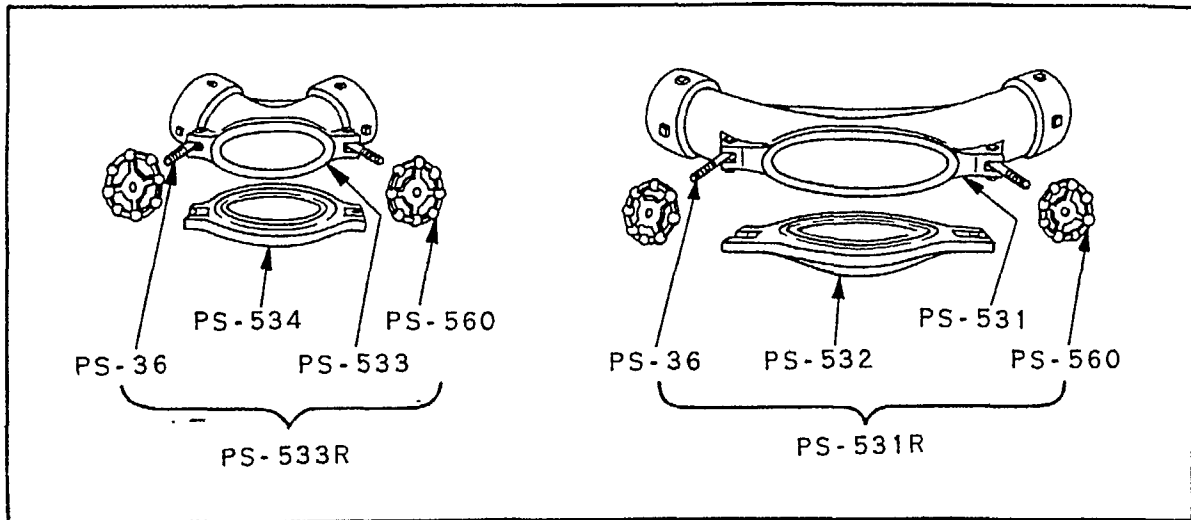


Figure 7 - Conveyor Elbow Assemblies - Refer to Parts List I (Pg 10)

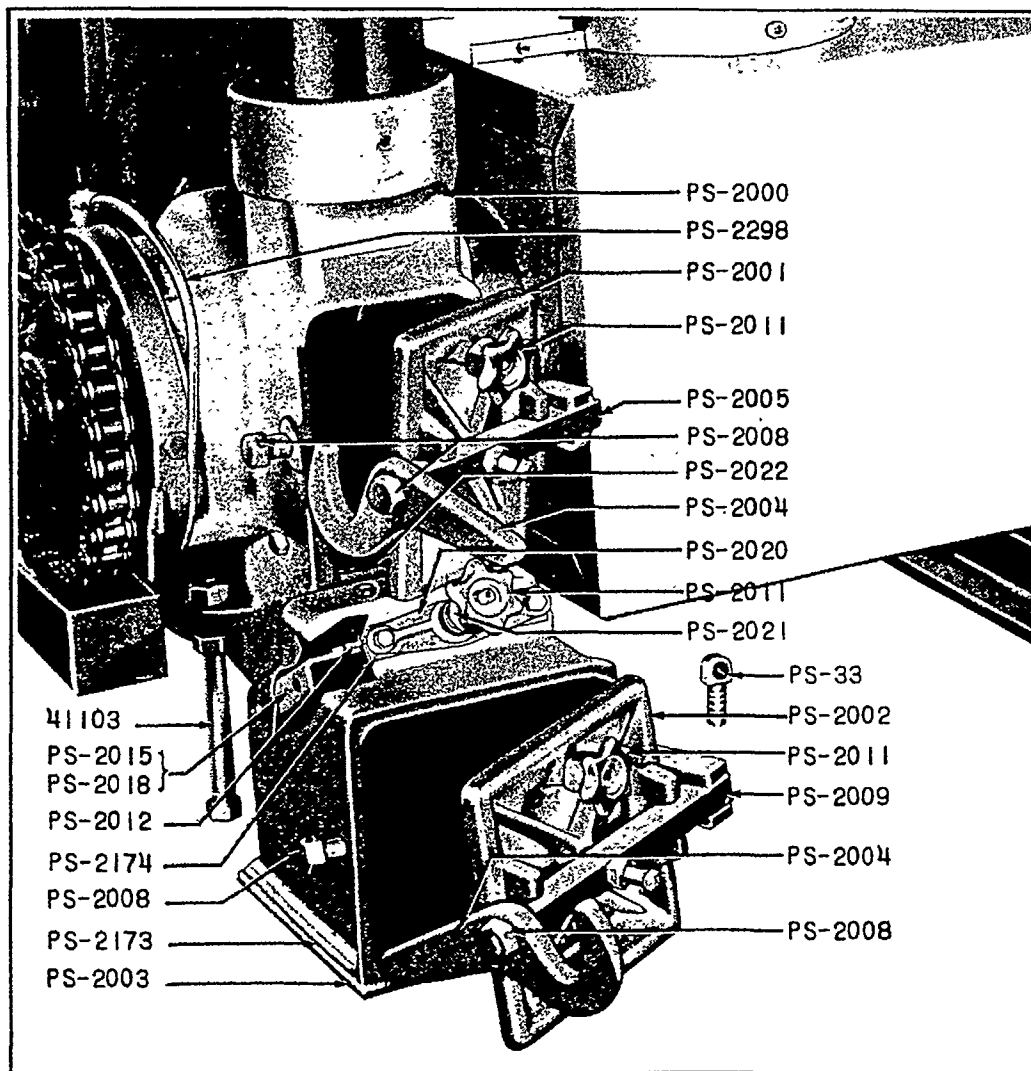


Figure 8 - Transfer Housing Cleanout Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number.

TABLE 1
STOKER AND CONVEYING FAN DRIVE DATA

MODEL	PS-75-110-160				PS-200				PS-300		PS-400	
	FAN ARRANGEMENT	NO. 1 STANDARD	NO. 2 OPTIONAL USING 200-PS FAN DRIVE	NO. 3 OPTIONAL USING 300-PS FAN DRIVE	NO. 4 OPTIONAL USING 400-PS FAN DRIVE	NO. 2 STANDARD	NO. 3 OPTIONAL USING 300-PS FAN DRIVE	NO. 4 OPTIONAL USING 400-PS FAN DRIVE	NO. 3 STANDARD	NO. 4 OPTIONAL OVER SPEED FAN DRIVE	NO. 3 STANDARD	NO. 4 OPTIONAL OVER SPEED FAN DRIVE
MOTOR - 1725 R.P.M. H.P.		3	5	5	5	5	5	5	5	7-1/2	5	7-1/2
MOTOR SHEAVE ASM. - I.F. NO.		PS-2454	PS-2452	PS-2455		PS-2452	PS-2455		PS-2455	PS-2457	PS-2455	PS-2457
MERCURY CLUTCH ASM.		PS-2449		PS-2451			PS-2451		PS-2451	PS-2450	PS-2451	PS-2450
		1		1-1/8			1-1/8		1-1/8	1-1/4	1-1/8	1-1/4
				7-1/2			7-1/2		7-1/2			7-1/2
MOTOR SHEAVE TO FAN		PS-2189	PS-2453	PS-2456		PS-2453	PS-2456		PS-2456		PS-2456	
		9-7/8	10-7/8	13-1/4		10-7/8	13-1/4		13-1/4		13-1/4	
FAN SHEAVE		PS-2214	PS-2215	PS-2104	PS-2215	PS-2215	PS-2104	PS-2215	PS-2104	PS-2215	PS-2104	PS-2215
		6	6	6-1/2	6	6	6-1/2	6	6-1/2	6	6-1/2	6
FAN BELT		PS-2221		PS-2220	PS-2361	PS-2221	PS-2220	PS-2361	PS-2220	PS-2361	PS-2220	PS-2361
CABLE CONSTRUCTION		B-90		B-97	B-93	B-90	B-97	B-93	B-97	B-93	B-97	B-93
		1	2	2	2	2	2	2	2	2	2	2
FAN SPEED - R.P.M.		2940	3250	3660	4000	3250	3660	4000	3660	4000	3660	4000
STOKER SHEAVE			50041				50041		50041		50041	
			6-1/2				6-1/2		6-1/2		6-1/2	
STOKER BELT			PS-2150				PS-2150		PS-2150		PS-2150	
			B-60				B-60		B-60		B-60	
GEAR CASE CAM		(PS-2272-PS-75) (PS-2273-PS-110) (PS-2274-PS-160)					PS-2275		PS-2275		PS-2276	
			50034				50034		PS-2240		PS-2025	
DRIVE SPROCKET			11				11		16		21	
		(7.6-PS-75) (11.1-PS-110) (16.3-PS-160)					20.4		21.0		21.0	
DRIVEN SPROCKET			PS-2091				PS-2091		PS-2091		PS-2091	
			28				28		28		28	
DRIVE CHAIN			PS-2118				PS-2118		PS-2069		PS-2092	
			58				58		60		62	
COAL WORM R.P.M. - MAX.		(3.0-PS-75) (4.4-PS-110) (6.4-PS-160)					8.0		12.0		16.0	

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

PARTS LIST I

INCLUDES ALL STANDARD, OPTIONAL AND EXTRA PARTS FOR 401 SERIES PNEUMATIC SPREADER STOKERS.

REFER TO PARTS LIST II FOR COMPONENT PARTS OF GEAR CASE ASSEMBLY NUMBERS SHOWN ON THIS LIST.

REFER TO PARTS LIST III FOR COMPONENT PARTS OF UNDERGRATE FAN UNITS AND AIR DUCT ASSEMBLIES.

REFER TO PARTS LIST IV FOR COMPONENT PARTS INCLUDED WITH REPLACEMENT CONVEYING FAN ASSEMBLY.

REFER TO TABLE I FOR PARTS USED ON STANDARD AND OPTIONAL CONVEYING FAN AND STOKER DRIVE ARRANGEMENTS.

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
9&12	PG-4C	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
10,11&12	PG-50	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
10,11&12	PG-51	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
10&12	PG-52	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
10&12	PG-53	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
8	PS-33	Hinge Eyebolt.	2
13	PS-379VR	Air Duct and Volumeter Assembly. Used with PG-4C Undergrate Fan Unit. Refer to Parts List III for component parts.	As Required
13	PS-381VR	Air Duct and Volumeter Assembly. Used with PG-50, 51, 52 and 53 Undergrate Fan Units. Refer to Parts List III for component parts.	As Required
16	PS-468	Standard Pin Hole Grate Bar - 8 x 24 In..	As Required
16	PS-469	Standard Pin Hole Grate Bar - 8 x 36 In..	As Required
16	PS-487	Grate Support I-Beam for Standard Pin Hole Grates. (Specify number of notches and length required.)	As Required
16	PS-488	Grate Support Channel for Standard Pin Hole Grates (Specify number of notches and length required.)	As Required
7	PS-531R	Elbow Asm.. . . . Consists of: 2 - PS-36 Handwheel Eyebolt 1 - PS-531 Elbow 1 - PS-532 Elbow Cover 2 - PS-560 Handwheel	As Required
7	PS-533R	Elbow Asm.. . . . Consists of: 2 - PS-36 Handwheel Eyebolt 1 - PS-533 Elbow 1 - PS-534 Elbow Cover 2 - PS-560 Handwheel	As Required
17	PS-800	Dump Grate.	As Required
17&18	PS-801	Front Grate	As Required
18	PS-802	Cleanout Door Assembly.	As Required
17	PS-803	Bearing Grate.	As Required
17	PS-805	Side Grate Sleeve	As Required

IMPORTANT: Always specify stoker model number.

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
17	PS-806	Side Grate Pin	As Required
17&18	PS-807	Rear Grate.	As Required
17	PS-808	Side Grate - L.H.	As Required
17	PS-809	Side Grate - R.H.	As Required
17	PS-810	Grate Bar Bearing	As Required
18	PS-819	Ash Well Grate	As Required
16	PS-822	Hot Gas Outlet Assembly	1
		Consists of:	
		1 - PS-823 Hot Gas Outlet	
		1 - PS-824 Air Shutter	
16	PS-849	Grate Support Assembly for Standard Pin Hole Grates (Specify number of notches and length required.)	As Required
18	PS-859	Stationary Grate - 36 In.	As Required
18	PS-860	Stationary Grate - 24 In.	As Required
18	PS-943	Side Plate.	As Required
18	PS-1007	Grate Leg Assembly	As Required
17	PS-1010	Dump Lever.	As Required
17	PS-1013	Pin	As Required
13	PS-1018YR	Air Duct and Volumeter Assembly - 24 In. Long Used with PG-4C Undergrate Fan Unit. Refer to Parts List III for component parts.	As Required
13	PS-1020	Air Duct and Volumeter Assembly - 24 In. Long Used with PG-50, 51, 52 and 53 Undergrate Fan Units. Refer to Parts List III for component parts.	As Required
17	PS-1057	Seal Bar	As Required
8	PS-2000	Transfer Housing.	1
8	PS-2001	Transfer Cleanout Upper Cover	1
8	PS-2002	Transfer Cleanout Lower Cover	1
8	PS-2003	Transfer Housing Bottom Plate	1
8	PS-2004	Hand Latch.	2
8	PS-2005	Upper Hinge Bar	1
8	PS-2008	Shoulder Screw	4
8	PS-2009	Lower Hinge Bar	1
2,5&8	PS-2011	Knob.	5
8	PS-2012	Shutoff Gate	1
8	PS-2015	Gate Guide - L.H.	1
8	PS-2018	Gate Guide - R.H.	1
8	PS-2020	Shutoff Gate - Stuffing Box	1
8	PS-2021	Packing Nut Gland	1
8	PS-2022	Shield Plate Assembly	1
2	PS-2024	Coal Worm Bearing Housing.	1
5	PS-2026	Drier Inlet Housing.	1
5	PS-2036	Drier Enclosure Assembly	1
5	PS-2045	Drier Sheet Assembly	1
5	PS-2048	Drier Cleanout Cover Assembly	1
		Consists of:	
		1 - V-690 Handle	
		1 - PS-2050 Cleanout Plate	
		1 - PS-2052 Insulation - 3/8 In.	
		1 - PS-2235 Insulation - 1/4 In.	
		1 - PS-2236 Gasket	
		1 - PS-2237 Retainer Plate	
5	PS-2053	Access Plate Assembly	1
		Consists of:	
		1 - PS-2054 Access Plate	
		1 - PS-2056 Access Plate Shield	
		2 - PS-2079 Insulation	
		1 - V-690 Handle	
5	PS-2064	Upper Damper Guide	1
5	PS-2065	Damper Blade	1
2	PS-2069	Chain (Used on PS-300 only.)	1
5	PS-2070	Damper Adjusting Wheel Bracket	1
5	PS-2073	Drier Inlet Top Insulation	2

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
5	PS-2074	Drier Inlet Insulation	6
5	PS-2075	Drier Inlet Wrapper Sheet	1
*	PS-2076	Drier Insulation 9" x 26" x 1-1/4"	2
5	PS-2077	Lower Side Drier Insulation.	1
*	PS-2078	Drier Insulation 3-1/4" x 26" x 1-1/4"	2
5	PS-2080	Drier Insulation Wrapper Sheet.	1
5	PS-2081	Drier Coal Worm.	1
1	PS-2084	Bin End Coal Worm	1
2	PS-2087	Motor Sheave Assembly (Obsolete - replace with PS-2455)	1
2	PS-2091	Sprocket	1
2	PS-2092	Drive Chain (Used on PS-400 only.)	1
2	PS-2093	Seal Gasket	1
2	PS-2094	Thrust Bearing	1
4	PS-2095	Fan Bearing Housing (Used With PS-2411 Fan Shaft Assembly)	1
4	PS-2097	Seal Ring.	2
4	PS-2098	Fan Shaft Bearing Oilier	1
4	PS-2099	Fan Bearing Housing Vent.	1
4	PS-2100	Water-Cooled Bearing Retainer	1
4	PS-2102	Fan Support Studs	3
4	PS-2103	Fan Spacer	3
2	PS-2104	Fan Sheave (6-1/2 in. O.D.)	**
4	PS-2111	Fan Inlet Cover Plate.	1
4	PS-2114	First Stage Fan Liner (Also Order (1) PS-2485 & (1) PS-2484 Fan Housing Seal)	1
4	PS-2116	Interstage Fan	1
4	PS-2117	Second Stage Fan Liner (Also Order (1) PS-2485 Fan Housing Seal)	1
2	PS-2118	Drive Chain (Used on PS-75, 110, 160 and 200.)	1
4	PS-2119	Conveyor Fan Housing	1
4	PS-2123	Back Plate Insulation - 3/8 in. Thick	1
4	PS-2124	Back Plate Insulation - 1/4 in. Thick	1
4	PS-2125	Insulation Cover Sheet	1
4	PS-2127	Air Duct	1
4	PS-2131	Air Duct Gasket.	2
4	PS-2132	Wrapper Sheet	1
5	PS-2137	Drier Insulation - Fan Side.	1
2	PS-2138	Motor Shaft Key - 2 in. Long	1
2	PS-2139	Motor Sheave Key - 1 in. Long	1
2	PS-2142	Motor Plate	1
2	PS-2147	Gear Case Support	1
2	PS-2150	Gear Case Drive Belt	1
4	PS-2160	Fan Bearing Housing Support.	1
2	PS-2171	Bearing Housing Gasket	1
2	PS-2172	Worm Housing Gasket	1
8	PS-2173	Bottom Plate Gasket	1
8	PS-2174	Stuffing Box Gasket	1
4	PS-2175	Air Duct Clamp Gasket.	1
4	PS-2176	Balancing Hub Assembly Includes: 3 - PS-2362 Balancing Weight	1
16	PS-2177	Coal Worm Sprocket Spanner	1
2	PS-2210	Fan Drive Belt Used on Model PS-75.	1
2	PS-2213	Motor Plate Hinge	1
2	PS-2214	Fan Sheave Used on Models PS-110 and PS-160.	**
2	PS-2215	Fan Sheave	**
2	PS-2219	Fan Sheave Used on Model PS-75.	**

* Not illustrated.

** Refer to Table I for usage.

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

File No. 7-401

Page 13

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
2	PS-2220	Fan Drive Belt	2*
2	PS-2221	Fan Drive Belt	*
2	PS-2222	Motor Sheave Assembly (Obsolete - replace with PS-2455)	1*
2	PS-2224	Motor Sheave Assembly (Obsolete - replace with PS-2454)	1*
4	PS-2226	Air Duct Clamp	1
2	PS-2228	Coal Worm Housing Bearing	1
2	PS-2234	Motor Plate Hinge	1
2	PS-2241	Sheave Housing Support	1
1	PS-2246	Belt Guard	1
4	PS-2254	Belt Guard Support Clip	2
2	PS-2257	Oil Drain Pan	1
2	PS-2266	Chain Guard	1
5	PS-2291	Drier Inlet Gasket	1
2	PS-2295	Belt Guard Bracket	1
8	PS-2298	Overflow Tube	1
2	PS-2299	Cooling Tube Assembly	1
5	PS-2300	Access Cover Gasket	1
2	PS-2302	Gear Case Assembly	1
2	PS-2303	Gear Case Assembly Used on Model PS-110. (See figure 3 and Parts List II for component parts.)	1
2	PS-2304	Gear Case Assembly Used on Model PS-160. (See figure 3 and Parts List II for component parts.)	1
2	PS-2305	Gear Case Assembly Used on Model PS-200. (See figure 3 and Parts List II for component parts.)	1
2	PS-2306	Gear Case Assembly Used on Model PS-300. (See figure 3 and Parts List II for component parts.)	1
2	PS-2307	Gear Case Assembly Used on Model PS-400. (See figure 3 and Parts List II for component parts.)	1
4	PS-2350	Seal Plate	2
4	PS-2353	Dust Check Ring	1
—	PS-2357	Cooling Tube Clamp	1
2	PS-2359	Motor Plate Hinge Screw	2
2	PS-2361	Fan Drive Belt	2*
2	PS-2365	Motor Sheave Assembly (Obsolete - replace with PS-2457)	1*
15	PS-2379	Coal Agitator Assembly Consists of: 1 - PS-2380 Agitator Bracket 2 - PS-2391 Retainer Ring 1 - PS-2385 Clamp Plate 2 - V-5252 Agitator Wheel Arm 1 - PS-2386 Agitator Wheel - R.H. 2 - 17023 Agitator Bearing 1 - PS-2387 Agitator Wheel - L.H. 4 - 17027 Thrust Bearing 2 - PS-2390 Shaft 4 - 17028 Bearing	1
4	PS-2410	Retaining Ring	1
4	PS-2411	Fan Shaft Assembly (Used With PS-2095 Fan Bearing Housing) Consists of: 2 - PS-1123 Fan Shaft Bearing 2 - PS-2460 Oiler Guide N.D. #87507 1 - 38298 Spacer 1 - PS-2105 Fan Shaft 4 - 41020 Retainer Ring	1
14	PS-2413	Nozzle Assembly Consists of: 1 - PS-44 Nozzle Hinge Pin 2 - PS-309 Sleeve Cover Plate 1 - PS-45 Nozzle Control Rod 2 - PS-311 Support U Bolt 1 - PS-47 Nozzle Handwheel 1 - PS-2180 Nozzle End 1 - PS-81 Nozzle Body 1 - PS-2181 1-in. Deflector 1 - PS-308A Support Assembly 1 - PS-2182 1-1/2-in. Deflector 1 - PS-2183 2-1/2-in. Deflector	1
5	PS-2415	Baffle - R.H.	1
5	PS-2418	Baffle - L.H.	1
6	PS-2427	Obstruction Guide Housing	1
4	PS-2430	Fan Housing Seal	1
15	PS-2431	Coal Agitator Shaft	2

* Refer to Table I for usage.

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
15	PS-2432	Thrust Bearing	4
15	PS-2433	Bearing	4
4	PS-2434	Fan Wheel.	2
4	PS-2440	Sliding Nipple Assembly	1
2	PS-2452	Motor Sheave Assembly.	*1
2	PS-2454	Motor Sheave Assembly.	*1
2	PS-2455	Motor Sheave Assembly.	*1
2	PS-2457	Motor Sheave Assembly.	*1
4	PS-2459	Conveying Fan Assembly	1
		Refer to Parts List IV for Component Parts	
4	PS-2461	Balance Ring.	2
4	PS-2462	Inner Balance Ring.	1
4	PS-2463	Fan Bearing Housing (Used With PS-2468 Fan Shaft Asm.).	1
4	PS-2465	Gasket.	1
4	PS-2468	Fan Shaft Assembly (Used With PS-2463 Fan Bearing Housing)	1
		Consists of:	
		4 - 40120 Retainer Ring 1 - 38298 Spacer	
		1 - PS-2105 Fan Shaft 1 - PS-2466 Bearing - N.D. #97507	
		2 - PS-2460 Oiler Guide 1 - PS-2467 Bearing - N.D. #97607	
4	PS-2484	Fan Housing Seal - (Used With New Style PS-2114 First Stage Liner Sheet)	1
4	PS-2485	Fan Housing Seal - (Used With New Style First and Second Stage Liner)	2
16	S-1009R	Ash Hoe and Handle - 1-in. Pipe	1
		Used with pin-hole type grates.	
16	S-1011R	Clinker Rake and Handle - 1-in. Pipe.	1
16	S-1012	Refractory Tile Slab - 3" x 6" x 18".	1
		Used over nozzle opening in front wall.	
17	S-1049	Air Cylinder Assembly for Dump Grates	As Required
16	S-1050	Ash Hoe	1
16	S-1050R	Ash Hoe and Handle - 1-in. Pipe	1
		Used with ribbed-type grates.	
16	S-1057R	Clinker Hook and Handle - 3/4-in. Pipe	1
16	S-1058R	Slice Bar and Handle - 1-in. Pipe.	1
16	S-1059R	Slice Bar and Handle - 1-1/2-in. Pipe	1
16	S-1098	Hot Gas Temperature Indicator - 12-in.	1
17	S-1099	Steam Cylinder Assembly for Dump Grates.	As Required
2&4	40048	Key.	3
4	40125	Retainer Ring	2
6	41039	Toggle Handle	1
6	41040	Toggle Link	1
6	41041	Lock Pin	1
6	41042	Lock Pin	1
8	41043	Motor Adjusting Bolt	2
2	41344	Cable Spring.	1
2	41350	Quadrant Cable Assembly	1
2	41526	Sheave and Housing Assembly.	1
		Consists of:	
		1 - 41231 Sheave Housing	
		1 - 40076 Spacer 1 - 41232 Sheave Housing Cover	
		2 - 40078 Washer 1 - 41527 Cable Sheave	
5	51060	Worm Coupling Nut	1
5	51061	Worm Coupling Plug.	1
6	51062	Worm Cleanout Housing.	1
6	51064	Cleanout Stud	1
6	51065	Worm Cleanout Housing Cover.	1
6	51066	Worm Cleanout Housing Gasket	1
6	51067	Bin Plate.	1
1	51070	Bin Channel	1
1	51071	Bin Worm Bearing	1
2	51102	Key.	1
2	51113	Lock Nut	1
2	51114	Lock Washer	1
2	51118	Motor Adjusting Bracket	1
2	80348	Flare Nut (Not Illustrated).	2
4 - 2	80689	Brass Elbow	4

* Refer to Table I for usage

IMPORTANT: Always specify stoker model number.

PARTS LIST II

COMPONENT PARTS OF PS GEAR CASE ASSEMBLIES

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
3	A-116	Ball Bearing (N.D.-7505).	1
3	PS-2025	Drive Sprocket - 21 Teeth Used on Model PS-400 only.	1
3	PS-2184	Quadrant	1
3	PS-2240	Drive Sprocket - 16 Teeth Used on Model PS-300 only.	1
3	PS-2271	Cam.	1
3	PS-2272	Cam.	1
3	PS-2273	Cam.	1
3	PS-2274	Cam.	1
3	PS-2275	Cam.	1
3	PS-2276	Cam.	1
*	PS-2292	Cam Adjusting Washer	As Required
3	40029	Collector Plate.	1
3	40030	Finger Spring	1
3	40031	Shoulder Screw	3
3	40036	Bearing Stop Cover Shim	As Required
3	40048	Spring Key	3
3	40061	Cam Follower.	1
3	40062	Cam Roller	2
3	40063	Cam Roller Stud.	2
3	40064	Spring.	1
3	40066	Coal Feed Quadrant Arm	1
3	40069	Air Adjustment Quadrant Arm.	1
3	40073	Air Adjustment Sheave.	1
3	40074	Eccentric Bushing	1
3	40075	Air Adjustment Pivot Screw	1
3	40076	Air Adjustment Spacer.	1
3	40078	Air Adjustment Washer.	4
3	40085	Plug	1
3	40086	Plug	1
3	40091	Overload Release Pin	1
3	40093	Ball Bearing (N.D. 7507).	3
3	40094	Ball Bearing (N.D. 55507)	1
3	40100	Ball Bearing (N.D. 7506).	2
3	40101	Ball Bearing (N.D. 88035)	2
3	40106	Oil Seal (Nat. 140328)	1
3	40109	Oil Seal (Vitalic 6318)	2
3	40110	Bearing (Oilite A-956)	1
3	40111	Bearing (Oilite T-1303-1)	1
3	40112	Bearing (Oilite)	1
3	40116	Bearing (Oilite A-1167-2)	1
3	40124	Retainer Ring (Eaton International)	1
3	40125	Retainer Ring (Eaton International)	3
3	40126	Retainer Ring (Waldes Truarc)	3
3	40129	Knob	2
3	40136	Low Speed Shaft Key	1
3	40152	Washer (ABEC-W-07).	1
3	40153	Lock Nut (ABEC-N-07)	1
3	40154	Acorn Nut - Upper	1
3	40155	Acorn Nut - Lower	1
3	40163	Oil Gauge.	1
3	40168	Key.	1
3	40173	Chain Retainer Pulley.	1
*	40176	Name Plate	1
3	40181	Quadrant Arm Stop	1
3	40182	Retainer Screw	1
3	50009	Gear Case.	1
3	50010	Gear Case Cover.	1

* Not illustrated.

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
3	50012	Main Worm Shaft.	1
3	50013	Main Worm Gear	1
3	50014	Differential Worm Shaft	1
3	50015	Differential Worm Gear	1
3	50016	Low Speed Shaft.	1
3	50017	Spacer.	1
3	50018	Internal Gear	1
3	50019	Sun Pinion Gear.	1
3	50020	Spider Assembly.	1
3	50023	Planet Gear	3
3	50024	Inner Spider.	1
3	50025	Thrust Washer	1
3	50026	Thrust Washer	1
3	50028	Back Gear Hub	1
3	50029	Spring.	3
3	50030	Drive Shaft Key.	1
3	50031	Drive Shaft	1
3	50033	Drive Shaft Shim	As Required
3	50034	Drive Sprocket - 11 Teeth Used on PS-50, 75, 110, 160 and 200.	1
3	50035	Shear Pin.	As Required
3	50036	Shear Pin Retainer.	1
3	50037	Main Worm Bearing Retainer	1
3	50038	Differential Worm Bearing Retainer	1
3	50039	Main Worm Bearing Retainer Gasket.	1
3	50040	Differential Worm Bearing Retainer Gasket	1
3	50041	Input Sheave.	1
3	50042	Sliding Sheave	2
3	50043	Adjusting Sheave	1
3	50044	Bearing Housing.	2
3	50045	Sheave Drive Pin	4
3	50046	Bushing	4
3	50047	Belt Shifter Support	1
3	50050	Belt Shifter Assembly. Consists of: 1 - 50097 Belt Shifter - Front Half 1 - 50098 Belt Shifter - Rear Half	1
3	50057	Spring Washer	1
3	50058	Spring Washer	1
3	50059	Oil Seal Housing	1
3	50060	Snap Ring.	1
3	50061	Ball Bearing (N.D. 7607).	1
3	50062	Ball Bearing (N.D. 5507).	1
3	50063	Ball Bearing (N.D. 993L09)	2
3	50064	Needle Bearing (Tor. B-1210X)	6
3	50065	Needle Bearing (Tor. B-2414X0H)	2
3	50066	Bearing (Oilite A-1213-2)	2
3	50067	Bearing (Oilite A-1623)	1
3	50068	Oil Seal (Nat. 50135).	1
3	50069	Oil Seal (Nat. 50452).	1
3	50070	Oil Seal (Nat. 50055-S)	1
3	50071	Retainer Ring (Wal. NAS 51-175)	2
3	50072	Retainer Ring (Wal. No. 51-325)	1
3	50073	Retainer Ring (Wal. NAS 51-118)	1
3	50075	Retainer Ring (Wal. NAS 50-300)	2
3	50077	Wide V Belt	1
3	50085	Lock Washer	1
3	50089	Oil Distributor.	1
3	50093	Oil Distributor Chain.	1
3	50115	Dowel Pin	2
3	50118	Gear	1
3	50120	Oil Elevating Pulley	1
3	50121	Chain Retainer Pulley Screw.	1
3	50122	Cover Bearing Stop.	1
3	50123	Case Bearing Stop	1
3	50124	Worm Wheel Shim	As Required

IMPORTANT: Always specify stoker model number.

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
3	50125	Worm Wheel Shim.	As Required
3	50126	Poinier	2
3	50129	Internal Gear Bearing Retainer.	1
3	50139	Overload Switch Assembly.	1
		Consists of:	
		1 - 40079 Box	
		1 - 40080 Actuator Lever	
		1 - 40083 Spring	
		1 - 40084 Spring	
		1 - 40115 Bearing	
		1 - 40130 Nut	
		1 - 40134 Insulation	
		1 - 50116 Reset Lever	
		1 - 50117 Reset Spacer	
		1 - 50138 Conduit	
		1 - 50230 Switch Asm.	
		2 - 80263 Anti-Short Bushing	
		1 - 81472 90° Connector	

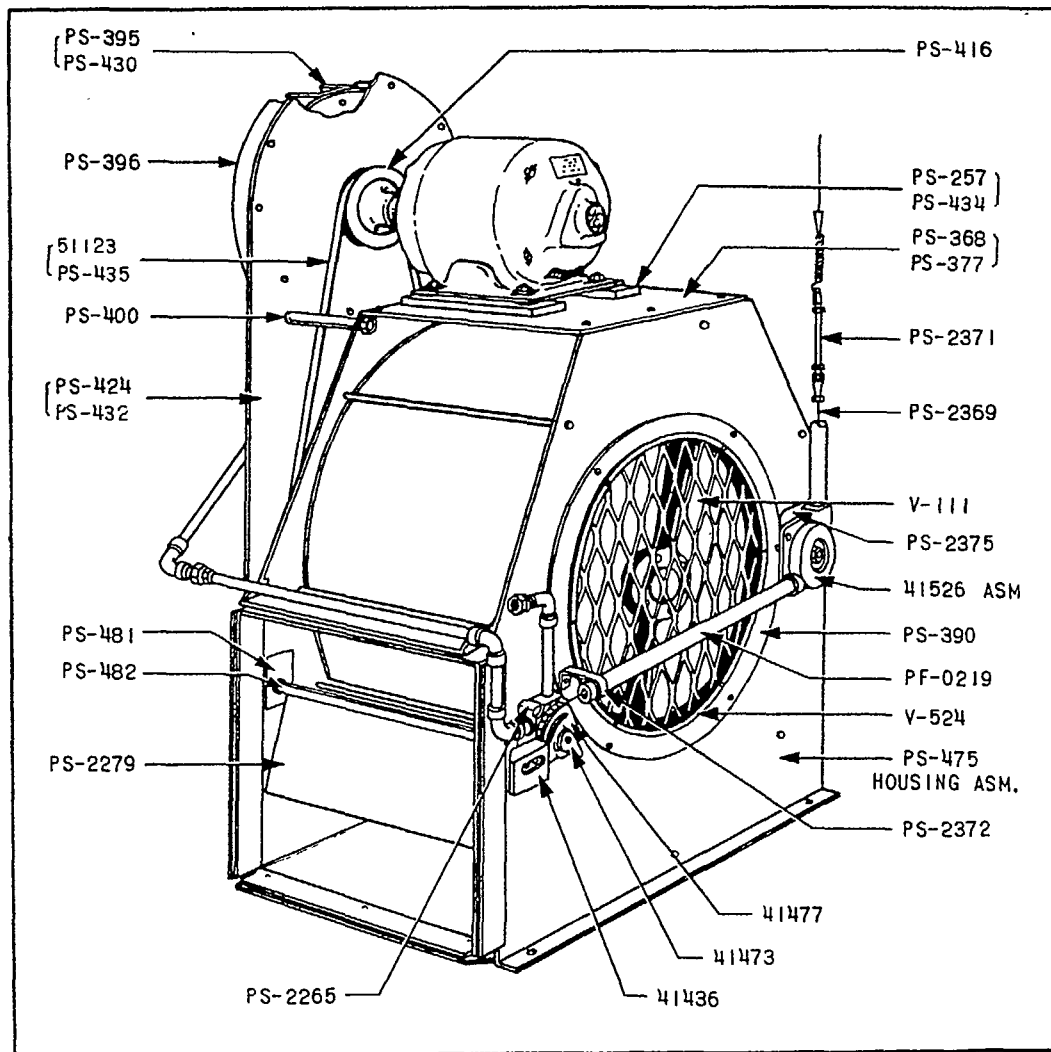


Figure 9 - PG-4C Undergrate Fan Unit - Refer to Parts List III (Pg 24)

401 SERIES PNEUMATIC SPREADER STOKER

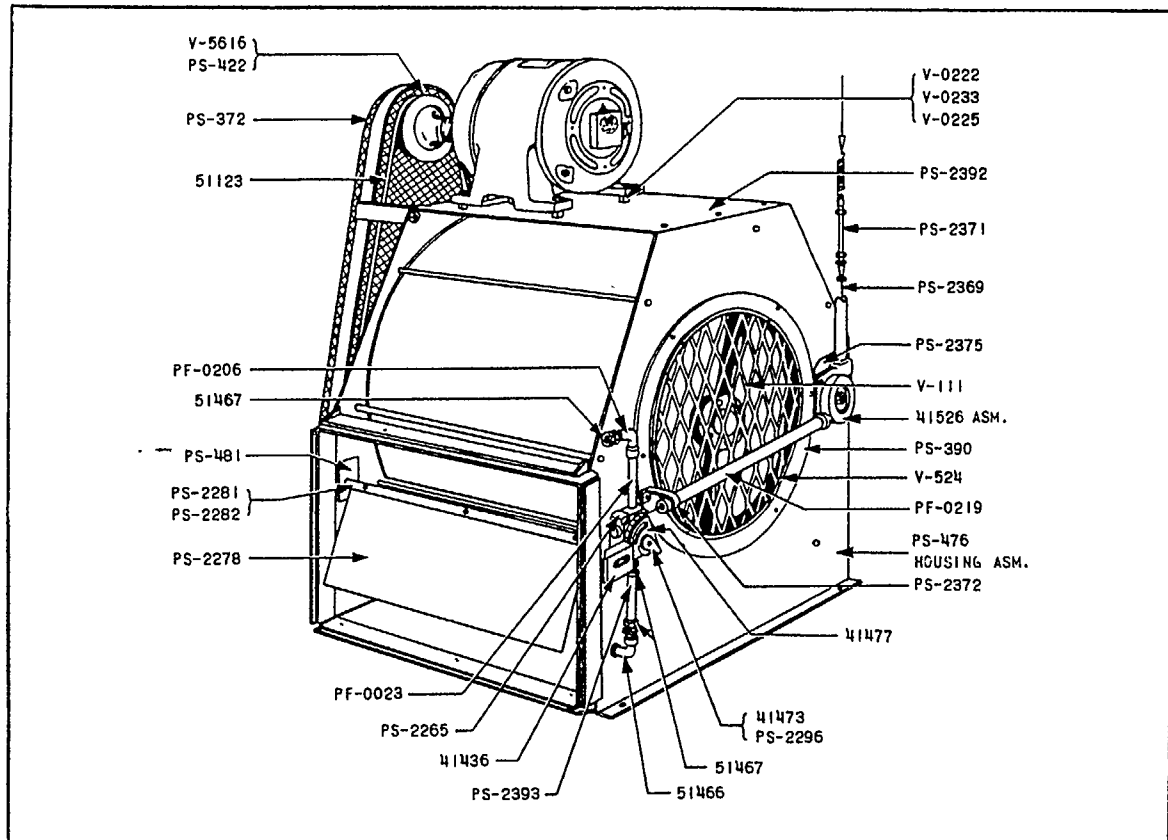


Figure 10 - PG-50, 51, 52 and 53 Single Undergrate Fan Units - Refer to Parts List III (Pg 21)

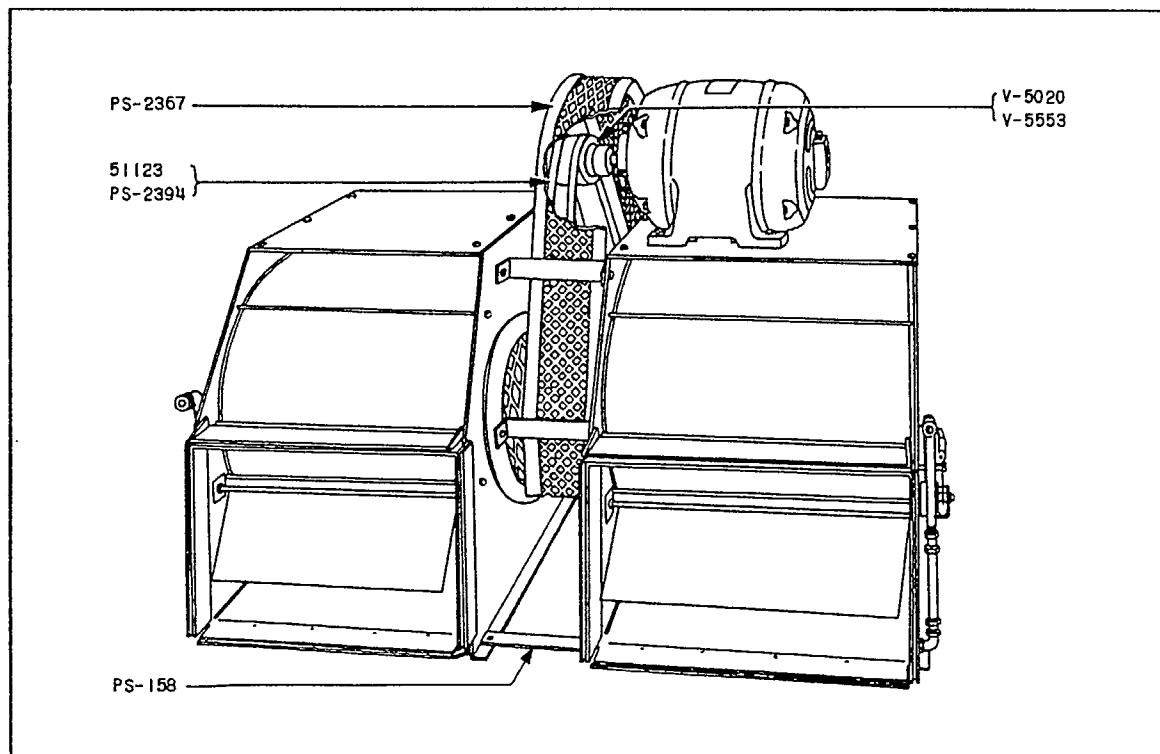


Figure 11 - Duplex Fan Unit - Refer to Parts List III (Pg 21)

IMPORTANT: Always specify stoker model number.

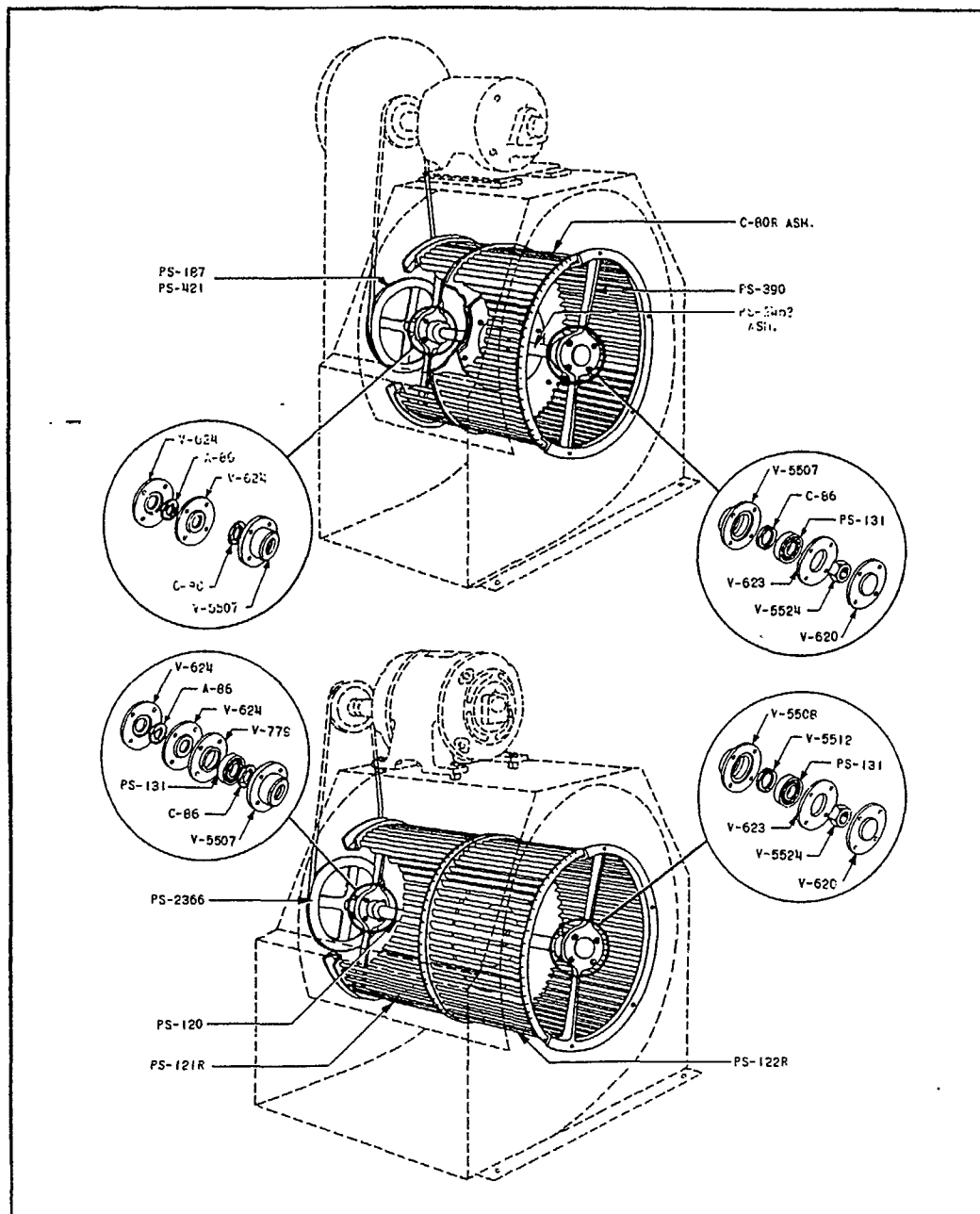


Figure 12 - Internal Parts of Undergrate Fan Units - Refer to Parts List III (Pg 21)

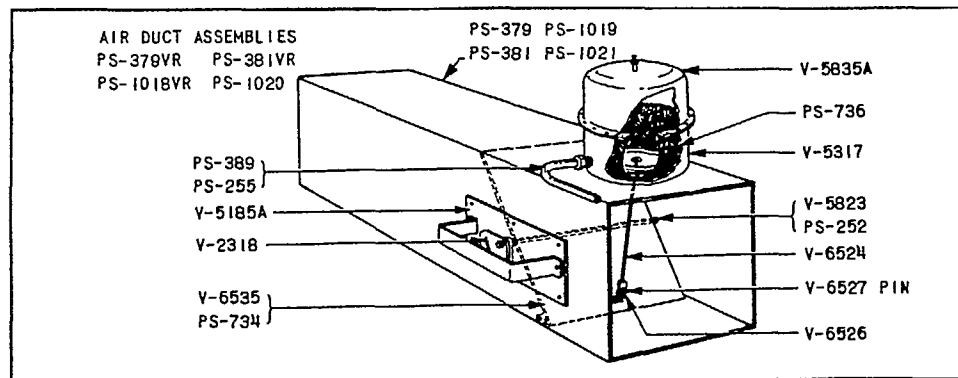


Figure 13 - Volumeter Air Duct Parts - Refer to Parts List III (Pg 21)

IMPORTANT: Always specify stoker model number

TABLE II
UNDERGATE FAN DATA

STOKER SIZE	PS-75			PS-110			PS-160			PS-200			PS-300		
	STANDARD 60 CYCLE	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	STANDARD 60 CYCLE OVERSPEED	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	STANDARD 60 CYCLE OVERSPEED	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	STANDARD 60 CYCLE OVERSPEED	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	STANDARD 60 CYCLE OVERSPEED	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE
FAN UNIT ASSEMBLY	PG-4C	PG-4C	PG-4C	PG-5U	PG-5U	PG-5U	PG-5U	PG-5U	PG-5U	PG-5U	PG-5U	PG-5U	PG-5U	PG-5U	PG-5U
MOTOR BALL SIZE	1 HP	2 HP	1 HP	1 1/2 HP	1 1/2 HP	1 1/2 HP	1 1/2 HP	1 1/2 HP	1 1/2 HP	1 1/2 HP	1 1/2 HP	1 1/2 HP	1 1/2 HP	1 1/2 HP	1 1/2 HP
BEARING TYPE	60	60	25	60	60	25	60	60	25	60	60	25	60	60	25
220/440 VOLT	1750	1750	1450	1750	1750	1450	1750	1750	1450	1750	1750	1450	1750	1750	1450
3 PHASE	K-204	224	224	224	225	225	225	254	254	254	284	284	254	254	254
SHAFT	3/4"	1"	1"	1"	1"	1"	1"	1"	1-1/8"	1-1/8"	1-1/4"	1-1/4"	1"	1-1/8"	1-1/8"
MOTOR	PS-416	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421
NO. OF GROOVES IN SHEAVE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NO. OF GROOVES USED	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
O.D.	5 29/32	7.125	7.125	6.110	7.125	7.125	6.110	7.125	7.125	6.000	7.125	7.125	6.110	7.125	7.125
BORE	3/4"	1"	1"	1"	1"	1"	1"	1-1/8"	1-1/8"	1-1/8"	1-1/4"	1-1/4"	1"	1-1/8"	1-1/8"
I.F. NO.	51123	PS-235	PS-235	51123	51123	51123	51123	51123	51123	51123	PS-2394	PS-2394	51123	51123	51123
SIZ	8-60	65	65	8-60	8-60	8-60	8-60	8-60	8-60	8-60	8-62	8-62	8-60	8-60	8-60
QUANTITY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
FAN	PS-187	PS-187	PS-187	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366
NO. OF GROOVES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
O.D.	11"	11"	11"	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
FAN SPEED...R.P.M.	900	1100	900	1200	1400	1185	1200	1400	1185	1170	1415	1185	1200	1400	1185

IMPORTANT: Always specify stoker model number

PARTS LIST III

COMPONENT PARTS OF UNDERGRATE FAN UNITS AND VOLUMETER AIR DUCT ASSEMBLIES.
SEE TABLE II FOR USAGE AND DATA REGARDING UNDERGRATE FANS.

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D				
			PG 4C	PG 50	PG 51	PG 52	PG 53
12	A-86	Felt Washer Drive End	1	2	2	2	2
12	C-80R	Fan Wheel Assembly	1				
		Consists of:					
		1 - C-80 Fan Hub					
		1 - V-5611 Fan Wheel Spacer					
		1 - V-5613A Fan Wheel - 4 x 14-1/2 in.					
		1 - V-5614A Fan Wheel - 7 x 14-1/2 in.					
12	C-86	Felt Washer Drive End	2	1	1	2	2
*	PF-0020	1/2-14 x 1-3/4 in. Nipple	2				
*	PF-0022	1/2-14 x 3 in. Nipple	1				
*	PF-0023	1/2-14 x 4 in. Nipple	1	1	1	2	2
*	PF-0025	1-14 x 15-3/4 Pipe	1				
10	PF-0206	90° Ell		2	2	4	4
9&10	PF-0219	Cable Pipe	1	1	1	2	2
*	PF-0235	Bushing - 1/4-in. x 1/2-in.		1	1	2	2
12	PS-120	Fan Shaft		1	1	2	2
12	PS-121R	Fan Wheel - R.H.		1	1	2	2
		7 in. x 14-1/2 in.					
12	PS-122R	Fan Wheel - L.H.		1	1	2	2
		7 in. x 14-1/2 in.					
12	PS-131	Fan Shaft Bearing	1	2	2	4	4
11	PS-158	Lower Tie Strap				2	2
12	PS-187	Fan Sheave	1				
9	PS-257	Motor Spacing Bar	2				
*	PS-325	Belt Guard Spacer	2				
9	PS-368	Motor Plate	1				
10	PS-372	Belt Guard		1	1		
13	PS-379VR	Air Duct and Volumeter Assembly	1				
		Consists of:					
		1 - PS-379 Air Duct					
		1 - PS-389 Volumeter Air Tube					
		1 - PS-736 Volumeter Diaphragm					
		1 - V-2318 Regulator Rod Quadrant					
		1 - V-5185A Regulator Panel					
		1 - V-5317 Volumeter Lower Housing					
		1 - V-5823 Regulator Damper Rod					
		1 - V-5835A Volumeter Upper Housing					
		1 - V-6524 Diaphragm Piston Rod					
		1 - V-6526 Piston Rod Yoke					
		1 - V-6527 Yoke Pin					
		1 - V-6535 Regulator Blade					
13	PS-381VR	Air Duct and Volumeter Assembly		1	1	2	2
		Consists of:					
		1 - PS-252 Regulator Damper Rod					
		1 - PS-255 Volumeter Air Tube					
		1 - PS-381 Air Duct					
		1 - PS-734 Regulator Blade					
		1 - PS-736 Volumeter Diaphragm					
		1 - V-2318 Regulator Rod Quadrant					
		1 - V-5185A Regulator Panel					
		1 - V-5317 Lower Volumeter Housing					
		1 - V-5835A Upper Volumeter Housing					
		1 - V-6524 Diaphragm Piston Rod					
		1 - V-6526 Piston Rod Yoke					
		1 - V-6527 Yoke Pin					
12	PS-390	Fan Inlet Ring	2	2	2	4	4
9	PS-395	Fan Wheel	1				
9	PS-396	Fan Housing	1				

* Not illustrated.

IMPORTANT: Always specify stoker model number

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D				
			PG 4C	PG 50	PG 51	PG 52	PG 53
9	PS-400	Belt Guard Spacer.	2				
9	PS-416	Motor Sheave	1				
10	PS-422	Motor Sheave			1		
9	PS-424	Belt Guard	1				
9	PS-475	Fan Housing Assembly.	1				
		Consists of:					
		1 - PS-352 Lower Tie Plate					
		1 - PS-354A Body Sheet					
		8 - PS-356 Tie Rod					
		2 - PS-357 Body Sheet Gasket					
		1 - PS-477 Leg - R.H.					
		1 - PS-478 Leg - L.H.					
10	PS-476	Fan Housing.		1	1	2	2
		Consists of:					
		2 - PS-357 Body Sheet Gasket					
		1 - PS-364 Body Sheet					
		8 - PS-366 Tie Rod					
		1 - PS-477A Leg - R.H.					
		1 - PS-478A Leg - L.H.					
9&10	PS-481	Indicator Vane Rod Bearing Plate.	1	1	1	2	2
9	PS-482	Indicator Vane Rod	1				
13	PS-1018VR	Air Duct and Volumeter Assembly - 24 In. Long	*				
		Consists of:					
		1 - PS-389 Volumeter Air Tube					
		1 - PS-736 Volumeter Diaphragm					
		1 - PS-1019 Air Duct - 24 in. Long					
		1 - V-2318 Regulator Rod Quadrant					
		1 - V-5185A Regulator Panel					
		1 - V-5317 Volumeter Lower Housing					
		1 - V-5823 Regulator Damper Rod					
		1 - V-5835A Volumeter Upper Housing					
		1 - V-6524 Diaphragm Piston Rod					
		1 - V-6526 Piston Rod Yoke					
		1 - V-6527 Yoke Pin					
		1 - V-6535 Regulator Blade					
13	PS-1020	Air Duct and Volumeter Assembly - 24 In. Long		*	*	*	*
		Consists of:					
		1 - PS-252 Regulator Damper Rod					
		1 - PS-255 Volumeter Air Tube					
		1 - PS-734 Regulator Blade					
		1 - PS-736 Volumeter Diaphragm					
		1 - PS-1021 Air Duct - 24 in. Long					
		1 - V-2318 Regulator Rod Quadrant					
		1 - V-5185A Regulator Panel					
		1 - V-5317 Lower Volumeter Housing					
		1 - V-5835A Upper Volumeter Housing					
		1 - V-6524 Diaphragm Piston Rod					
		1 - V-6526 Piston Rod Yoke					
		1 - V-6527 Yoke Pin					
9&10	PS-2265	Indicator Vane Frame.	1	1	1	2	2
10	PS-2278	Indicator Vane Plate.		1	1	2	2
9	PS-2279	Indicator Vane Plate.	1				
10	PS-2281	Indicator Vane Rod				2	2
10	PS-2282	Indicator Vane Rod		1	1		
10	PS-2296	Indicator Valve				1	1
12	PS-2366	Fan Sheave		1	1	2	2
11	PS-2367	Belt Guard				1	1
9&10	PS-2369	Indicator Cable	1	1	1	2	2
9&10	PS-2371	Cable Connector	1	1	1	2	2
9&10	PS-2372	Pipe Bracket	1	1	1	2	2
9&10	PS-2375	Sheave Housing Bracket	1	1	1	2	2
10	PS-2392	Motor Plate.		1	1	2	2
10	PS-2393	Indicator Air Tube		1	1	2	2

* As required

IMPORTANT: Always specify stoker model number

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D				
			PG 4C	PG 50	PG 51	PG 52	PG 53
11	PS-2394	Belt - Goodyear B-62.					2
	PS-2395	Button Plug.		1	1	2	2
12	PS- 2458	Fan Shaft Assembly	1				
		Consists of:					
		1 - PS-131 Bearing					
		1 - PS-367 Fan Shaft					
9&10	V-111	Fan Screen	1	1	1	2	2
9&10	V-524	Fan Screen Ring	1	1	1	2	2
12	V-620	Bearing Cover Plate	1	1	1	2	2
12	V-623	Bearing Retainer	1	1	1	2	2
12	V-624	Bearing Cover Plate - Drive End	2	2	2	4	4
12	V-779	Bearing Retainer - Drive End		1	1	2	2
10	V-0222	Motor Plate Spacer			4	4	
		1/2-in. dia. x 1/4-in. pipe					
10	V-0225	Motor Plate Spacer					4
		1/2-in. dia. x 5/8-in. pipe					
10	V-0233	Motor Plate Spacer		4			
		1/2-in. dia. x 1-5/8-in. pipe					
11	V-5020	Motor Sheave				1	
12	V-5507	Bearing Retainer - Drive End	2	1	1	2	2
12	V-5508	Bearing Retainer		1	1	2	2
12	V-5512	Bearing Retainer Washer.		1	1	2	2
12	V-5524	Fan Shaft Nut	1	1	1	2	2
11	V-5553	Motor Sheave					1
10	V-5616	Motor Sheave		1			
9&10	41436	Indicator Valve Body Weight	1	1	1	2	2
9&10	41473	Indicator Valve	1	1	1	1	1
9&10	41477	Indicator Valve Body.	1	1	1	2	2
9&10	41526	Housing and Sheave Assembly	1	1	1	2	2
		Consists of:					
		1 - 40076 Spacer					
		2 - 40078 Washer					
		1 - 41231 Sheave Housing					
		1 - 41232 Sheave Housing Cover					
		1 - 41527 Cable Sheave					
9, 10&11	51123	Belt - Goodyear B-60.	1	1	1	1	
10	51466	Air Tube Elbow		1	1	2	2
10	51467	Air Tube Connector		3	3	6	6

PARTS USED WITH 25 CYCLE MOTOR ON PG-4C FAN UNIT

9	PS-377	Motor Plate.	1				
12	PS-421	Motor Sheave	1				
*	PS-425	Auxiliary Fan Housing Inner Plate	1				
*	PS-426	Auxiliary Fan Housing Band.	1				
*	PS-427	Auxiliary Fan Housing Outer Plate	1				
9	PS-430	Fan Wheel	1				
		1-in. x 14-1/2-in.					
9	PS-432	Belt Guard	1				
9	PS-434	Motor Spacing Bar.	2				
9	PS-435	Belt - Gates #3680	1				
	Motor	1 H.P., 1450 R.P.M., 220 Volt, 25 Cycle, 3 Phase, Ball-Bearing K-224 Frame					

PARTS USED WITH 60 CYCLE OVERSPEED ON PG-4C FAN UNIT

9	PS-377	Motor Plate.	1				
10	PS-421	Motor Sheave	1				
9	PS-432	Belt Guard	1				
9	PS-434	Motor Spacing Bar.	2				
9	PS-435	Belt - Gates #3680	1				
	Motor	2 H.P., 1750 R.P.M., 220 Volt, 60 Cycle, 3 Phase, K-224 Frame					

* Not illustrated.

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D				
			PG 4C	PG 50	PG 51	PG 52	PG 53
		OPTIONAL AIR DUCT EXTENSIONS AND ELBOWS FOR UNDERGRATE FAN UNITS					
*	PS-923	Air Duct Extension - 24-In.	**				
*	PS-927	Air Duct Extension - 48-In.	**				
*	PS-885	45° Elbow - Horizontal.	**				
*	PS-889	45° Elbow - Horizontal.		**	**	**	**
*	PS-893	90° Elbow - Horizontal.	**				
*	PS-898	90° Elbow - Horizontal.		**	**	**	**
*	PS-903	Vertical Elbow - Rectangular Outlet	**				
*	PS-907	Vertical Elbow - Rectangular Outlet		**	**	**	**
*	PS-911	Vertical Elbow - Square Outlet		**	**	**	**
*	PS-919	Vertical Elbow - Side Outlet.		**	**	**	**
*	PS-925	Air Duct Extension - 24-In.		**	**	**	**
*	PS-929	Air Duct Extension - 48-In.		**	**	**	**
		* Not illustrated					
		** As Required					

PARTS LIST IV

COMPONENT PARTS OF PS-2470 REPLACEMENT CONVEYOR FAN ASSEMBLY

FIG. NO.	PART NO.	PART NAME	QUAN. REQ'D
	PF-0225	Butt Nipple - 3/4-14 X 1" Long-Straight Pipe Thread (Not Illustrated) .	1
	PF-0358	Nipple - 1/4" X 6" Long- For PS-2098 Fan Shaft Oiler (Not Illustrated) .	1
4	PS-2097	Seal Ring	1
4	PS-2098	Fan Shaft Oiler	1
4	PS-2099	Breather Tube	1
4	PS-2100	Water Cooled Bearing Retainer	1
4	PS-2102	Leveling Studs.	3
4	PS-2103	Fan Spacer.	3
4	PS-2111	Fan Inlet Plate	1
4	PS-2114	First Stage Liner	1
4	PS-2116	Fan Interstage.	1
4	PS-2117	Second Stage Liner.	1
4	PS-2119	Conveyor Fan Housing.	1
4	PS-2123	Back Plate Insulation - 3/8" Thick.	1
4	PS-2125	Insulation Cover Sheet.	1
4	PS-2132	Wrapper Sheet	1
4	PS-2160	Fan Bearing Housing Support	1
4	PS-2176	Balancing Hub Assembly.	1
4	PS-2350	Seal Plate.	1
4	PS-2353	Dust Check Ring	1
4	PS-2410	Retainer Ring	1
4	PS-2434	Fan Wheel	2
4	PS-2461	Balance Ring.	1
4	PS-2462	Inner Balance Ring.	1
4	PS-2463	Fan Bearing Housing	1
4	PS-2465	Gasket.	1
4	PS-2468	Fan Shaft Assembly.	1
		Consists of:	
		4 - 40120 Retainer Ring	
		1 - PS-2105 Fan Shaft	
		2 - PS-2460 Oiler Guide	
		1 - PS-2467 Bearing - N.D. #97607	
		1 - 38298 Spacer	
		1 - PS-2466 Bearing -N.D. #97507	
4	PS-2484	Fan Housing Seal.	1
4	PS-2485	Fan Housing Seal.	2
4	40048	Key	2
	80348	Flare Nut (Not Illustrated)	2
4	80689	Brass Elbow	2

IMPORTANT: Always specify stoker model number

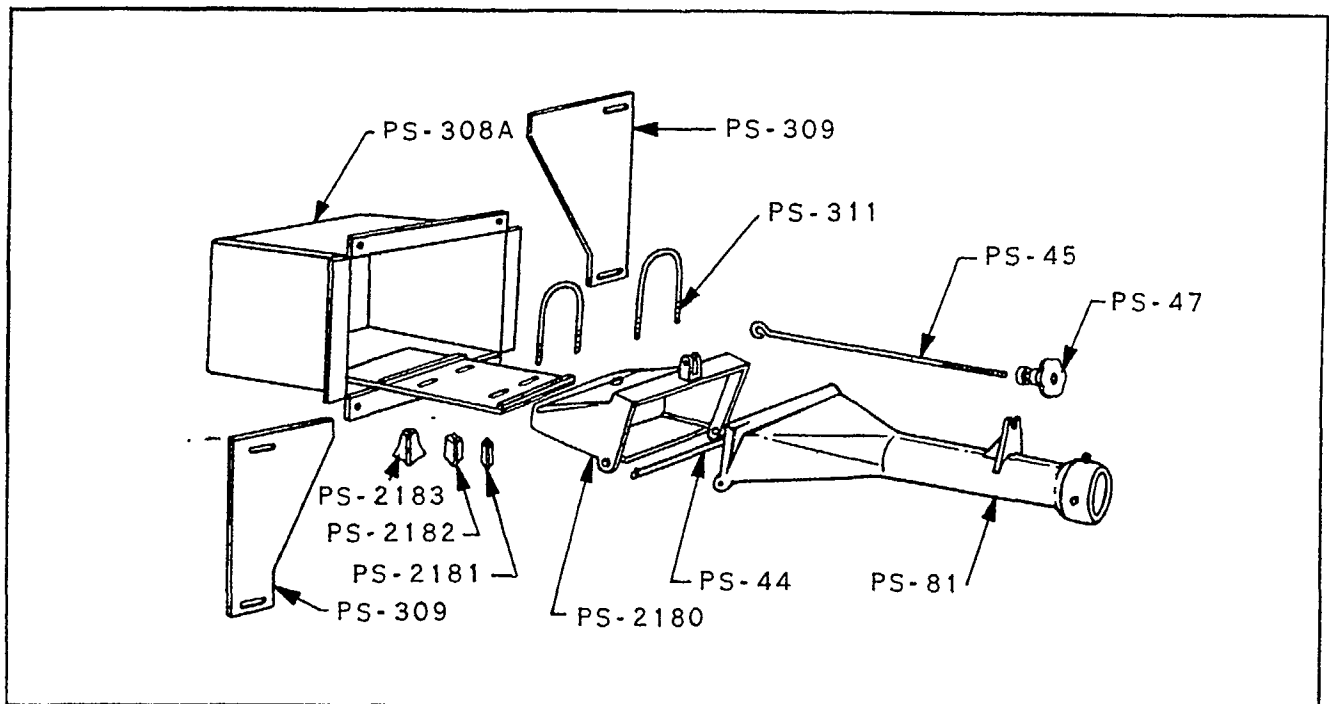


Figure 14 - PS-2413 Nozzle Assembly - Refer to Parts List I (Pg 10)

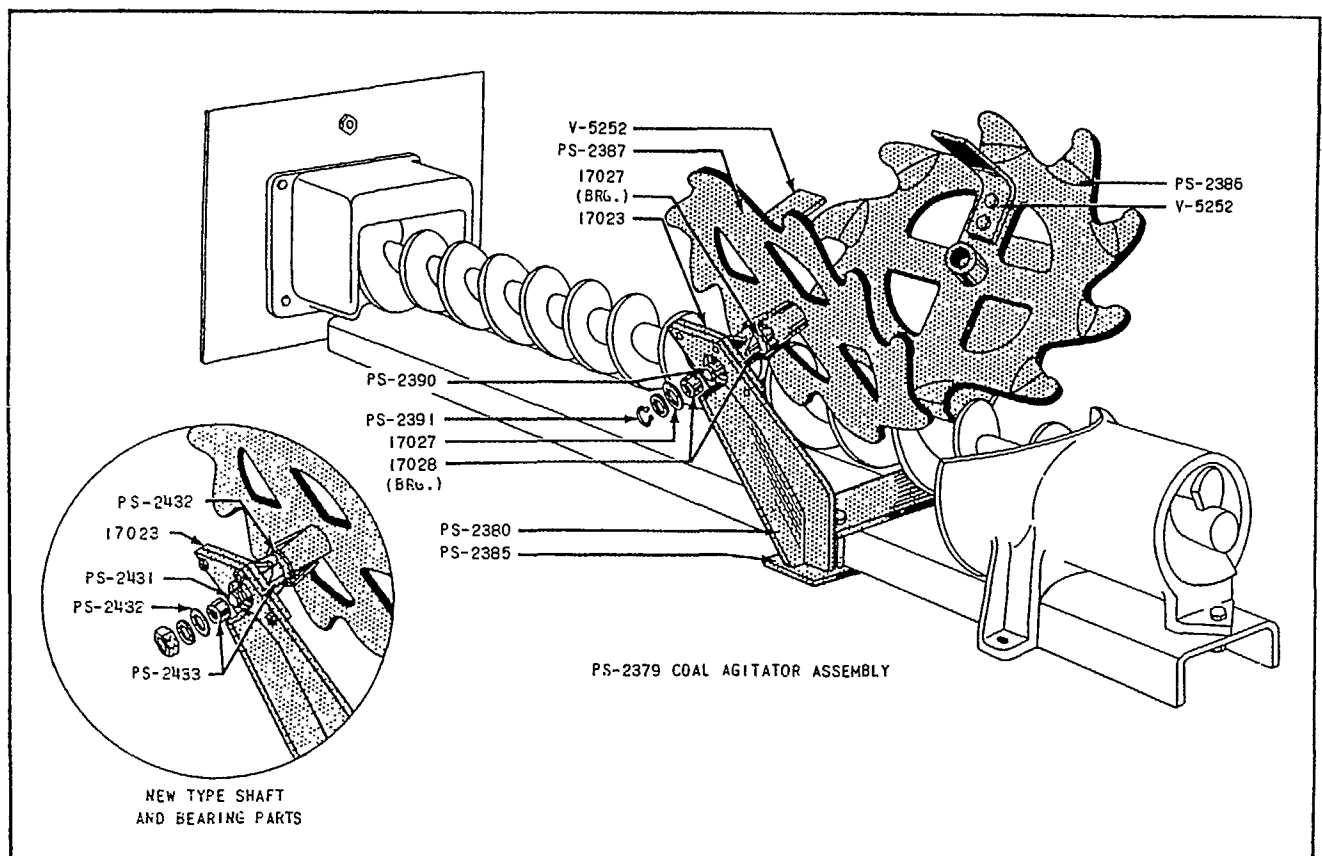


Figure 15 - Coal Agitator Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number

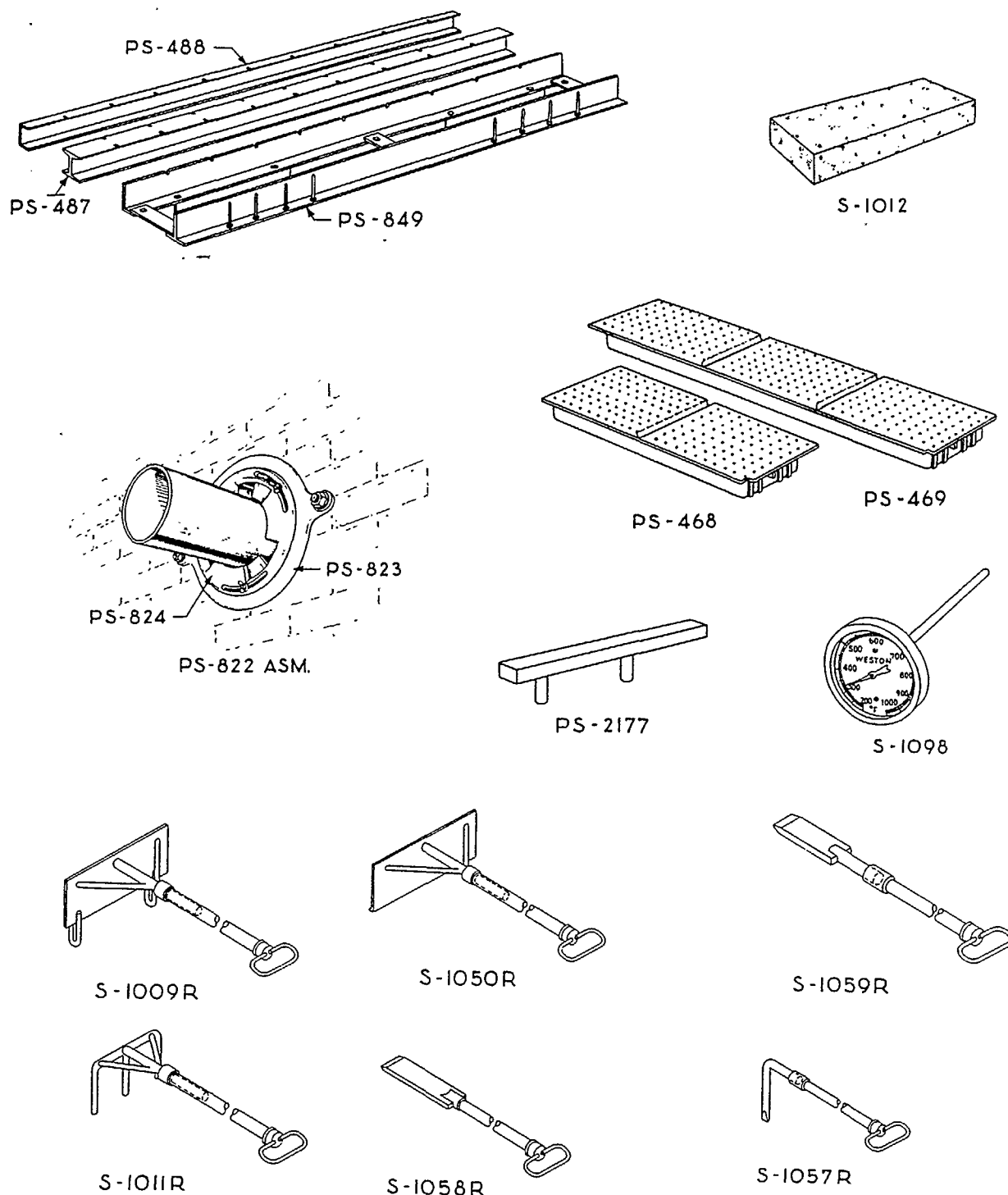


Figure 16 - Miscellaneous Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number

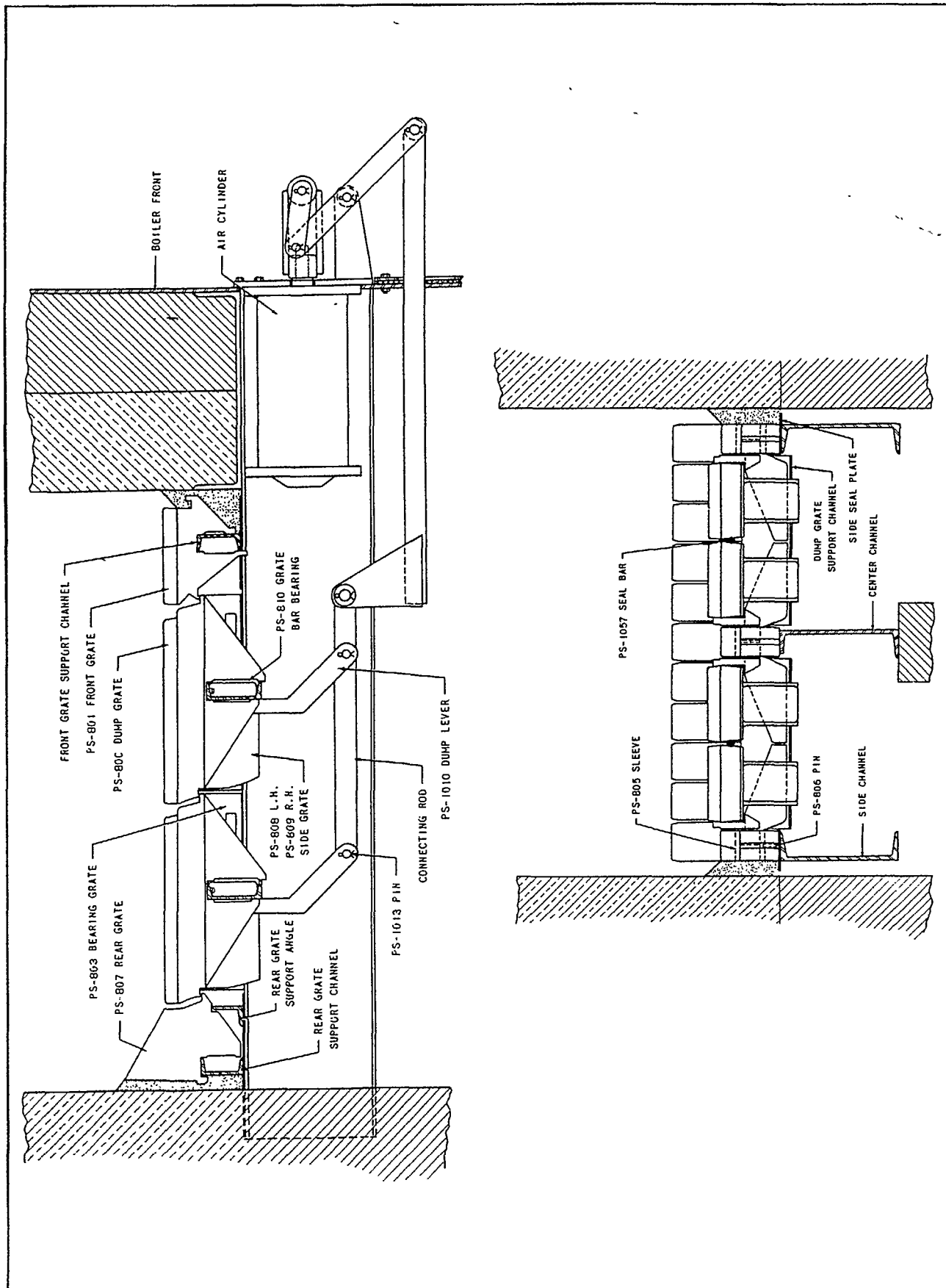
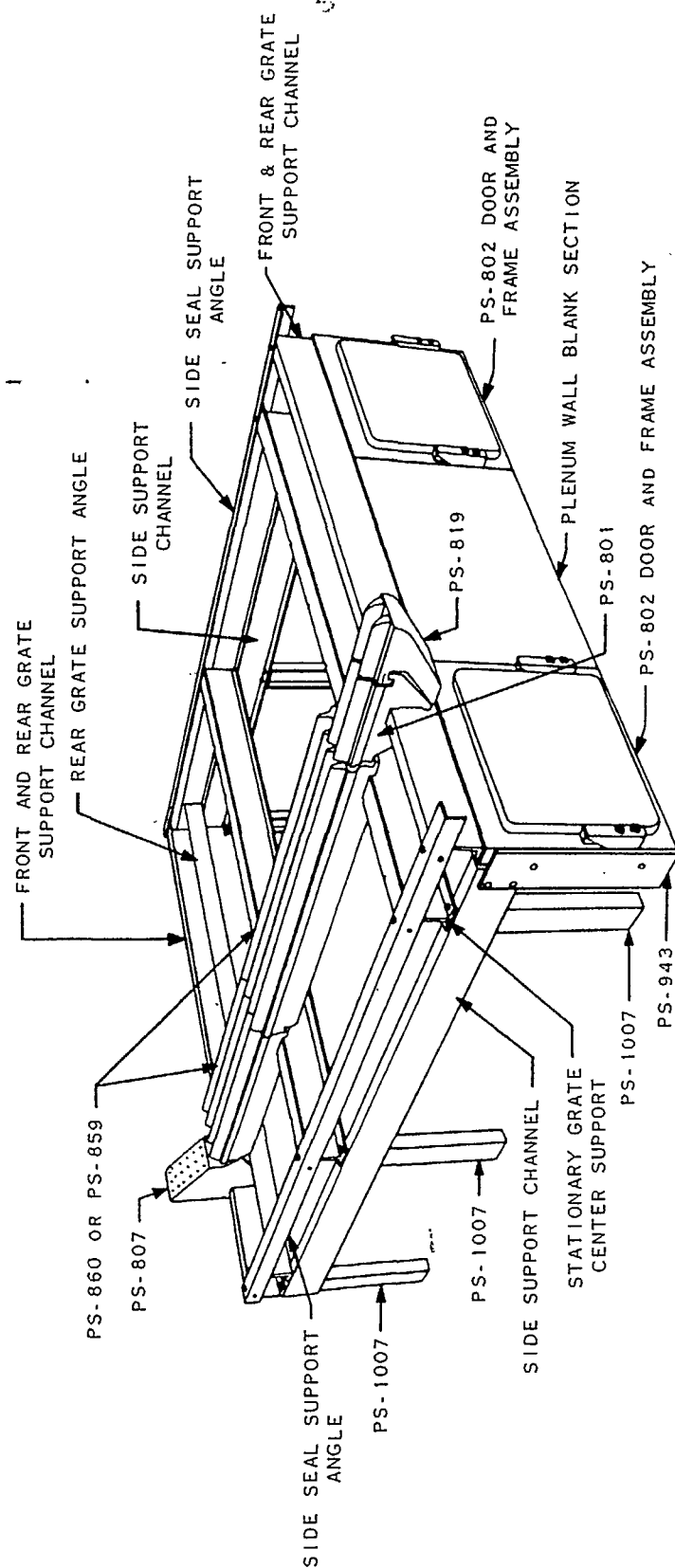


Figure 17 - Dump Grate Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number



IMPORTANT: Always specify stoker model number

REPLACEMENT PARTS

401 Series Pneumatic Spreader Stokers

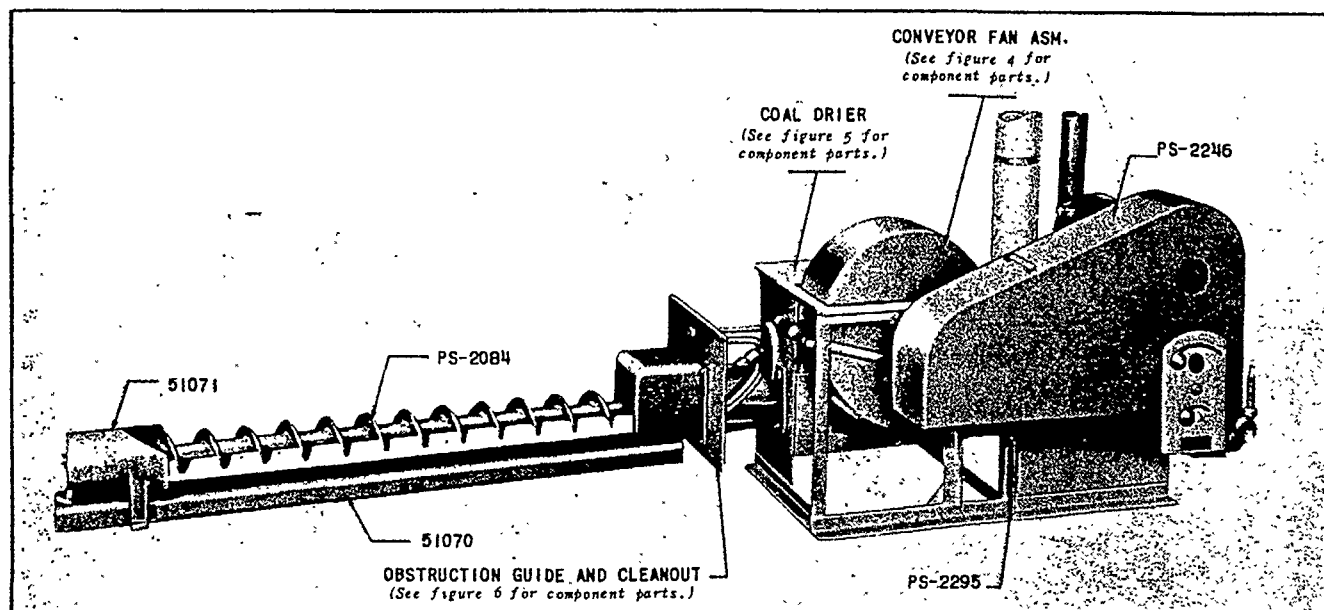


Figure 1 --PS-401 Series Pneumatic Spreader Stoker - Refer to Parts List I (Pg 10)

MODELS COVERED - 1949-1964

<u>MODEL</u>	<u>MODEL</u>
PS-75	PS-200
PS-110	PS-300
PS-160	PS-400

*IMPORTANT: Always specify stoker model number
and serial number when ordering.*

GENERAL. Replacement parts for the 401 Series Pneumatic Spreader Stokers are listed and illustrated in this catalog. These units were first produced in 1949.

UNDERGRATE FAN UNITS. These units were equipped with undergrate fan units and an air duct with volumeter. Refer to Table II, page 15, for usage

of the items. Refer to figures 9, 10, 11, 12 and 13 and to Parts List III for identification of parts.

GRATE PARTS. These stokers were equipped with either stationary-type grates or power-operated dump grates. Refer to figures 16, 17 and 18 and to Parts List I for identification of parts.

THE WILL-BURT COMPANY

ORRVILLE, OHIO, U.S.A.

LIST OF CONTENTS

PARTS LISTS

	<u>Page</u>
Parts List I - Standard, Optional and Extra Equipment	10
Parts List II - PS Gear Case Assembly	15
Parts List III - Undergrate Fan Units and Air Duct Parts	21
Parts List IV - Conveying Fan Assembly	24

TABLES

Table I - Stoker and Conveying Fan Drive Data	9
Table II - Undergrate Fan Data.	20

LIST OF ILLUSTRATIONS

Figure 1 - PS-401 Series Pneumatic Spreader Stoker	1
Figure 2 - Front View of Stoker	3
Figure 3 - PS Gear Case Assembly	4 & 5
Figure 4 - Train View of Conveyor Fan Parts	6
Figure 5 - Coal Drier Parts.	7
Figure 6 - Obstruction Guide and Cleanout Parts	7
Figure 7 - Conveyor Elbow Assemblies	8
Figure 8 - Transfer Housing Cleanout Parts	8
Figure 9 - PG-4C Undergrate Fan Unit	17
Figure 10 - PG-50, 51, 52 and 53 Single Undergrate Fan Units	18
Figure 11 - Duplex Undergrate Fan Unit	18
Figure 12 - Internal Parts of Undergrate Fan Units	19
Figure 13 - Volumeter Air Duct Parts.	19
Figure 14 - PS-2413 Nozzle Assembly	25
Figure 15 - Coal Agitator Parts	25
Figure 16 - Miscellaneous Parts	26
Figure 17 - Dump Gate Parts	27
Figure 18 - Stationary Gate Parts	28

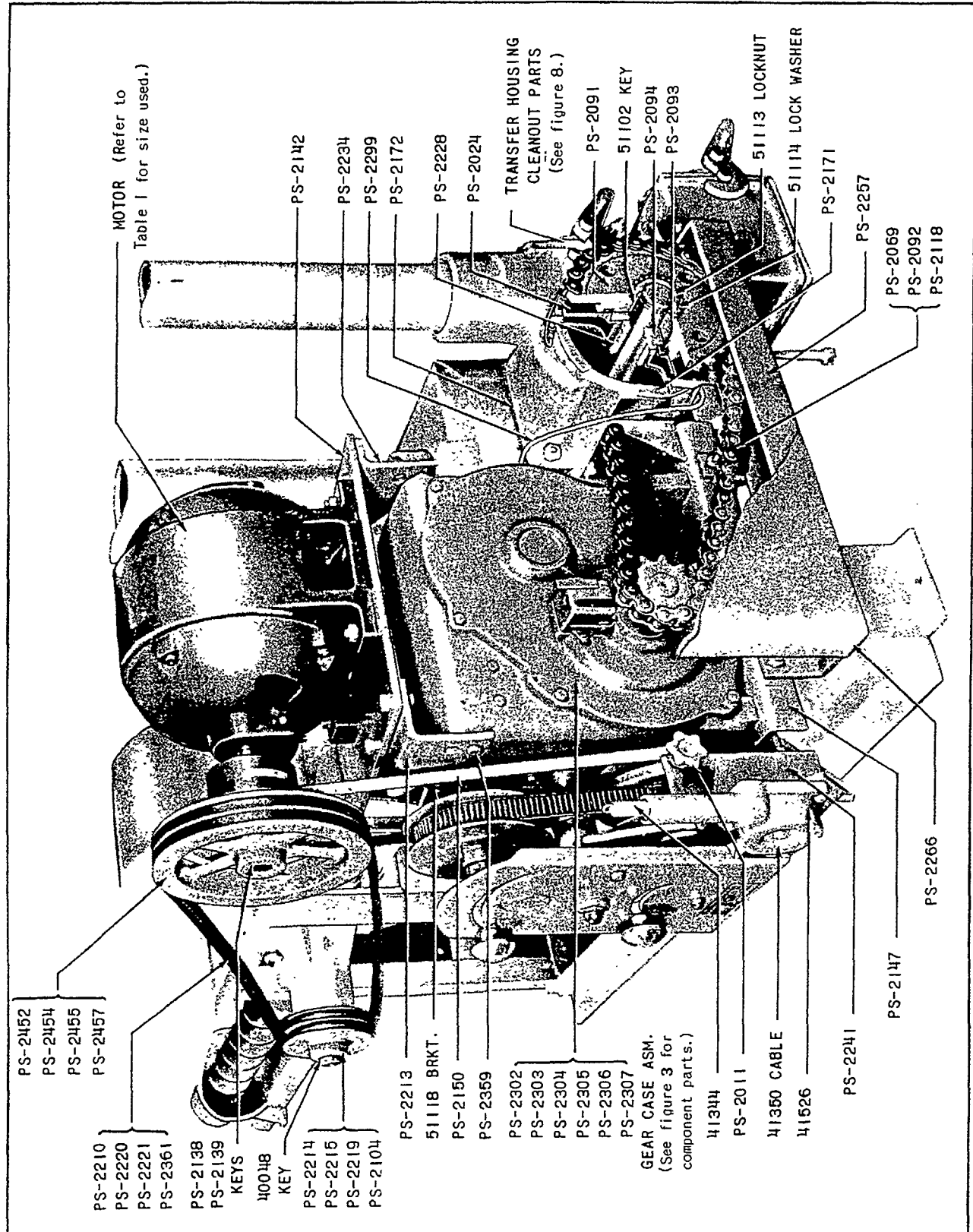


Figure 2 - Front View of Stoker - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

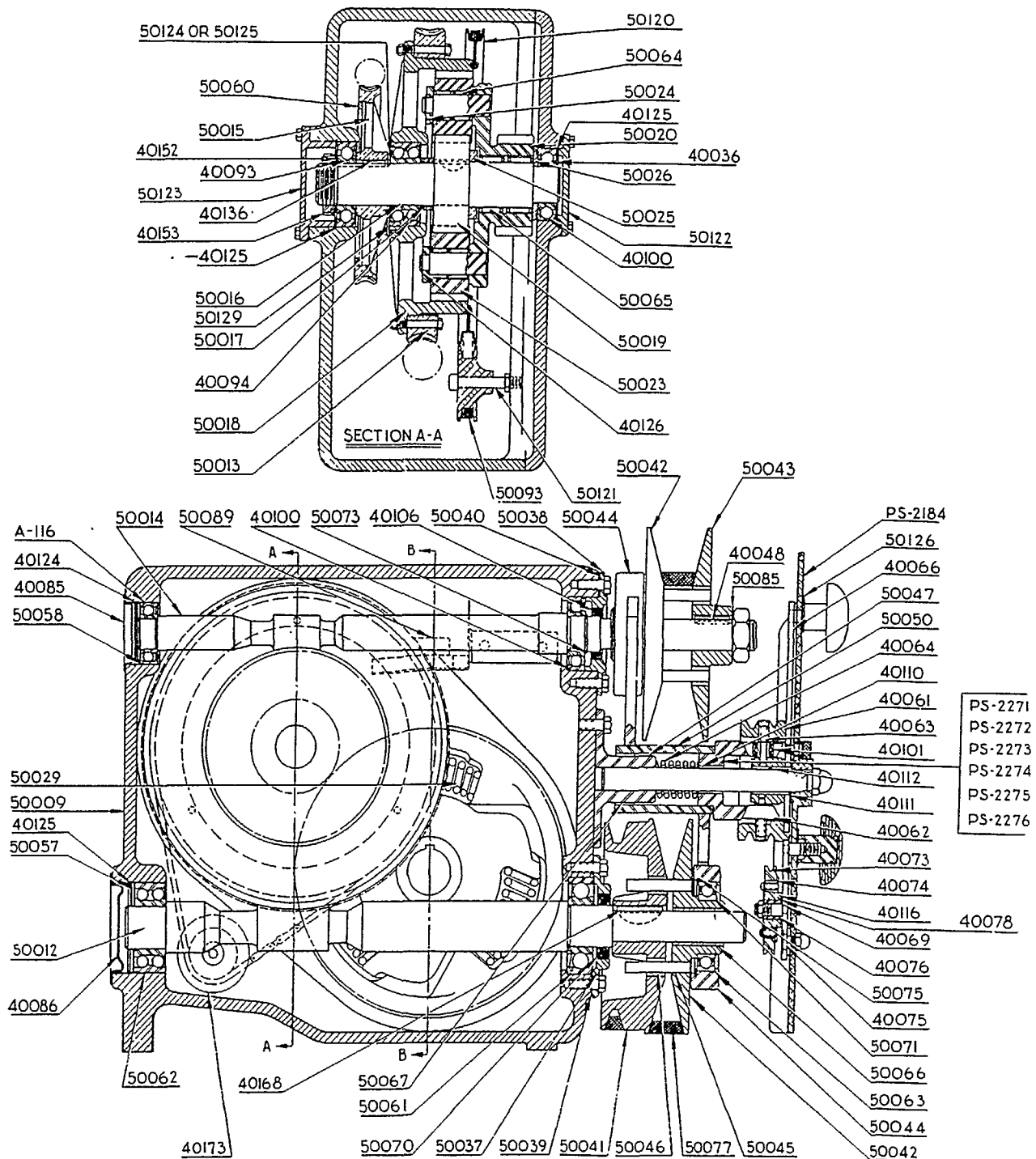


Figure 3 - PS Gear Case Assembly - Refer to Parts List II (Page 15)

IMPORANT: Always specify stoker model number.

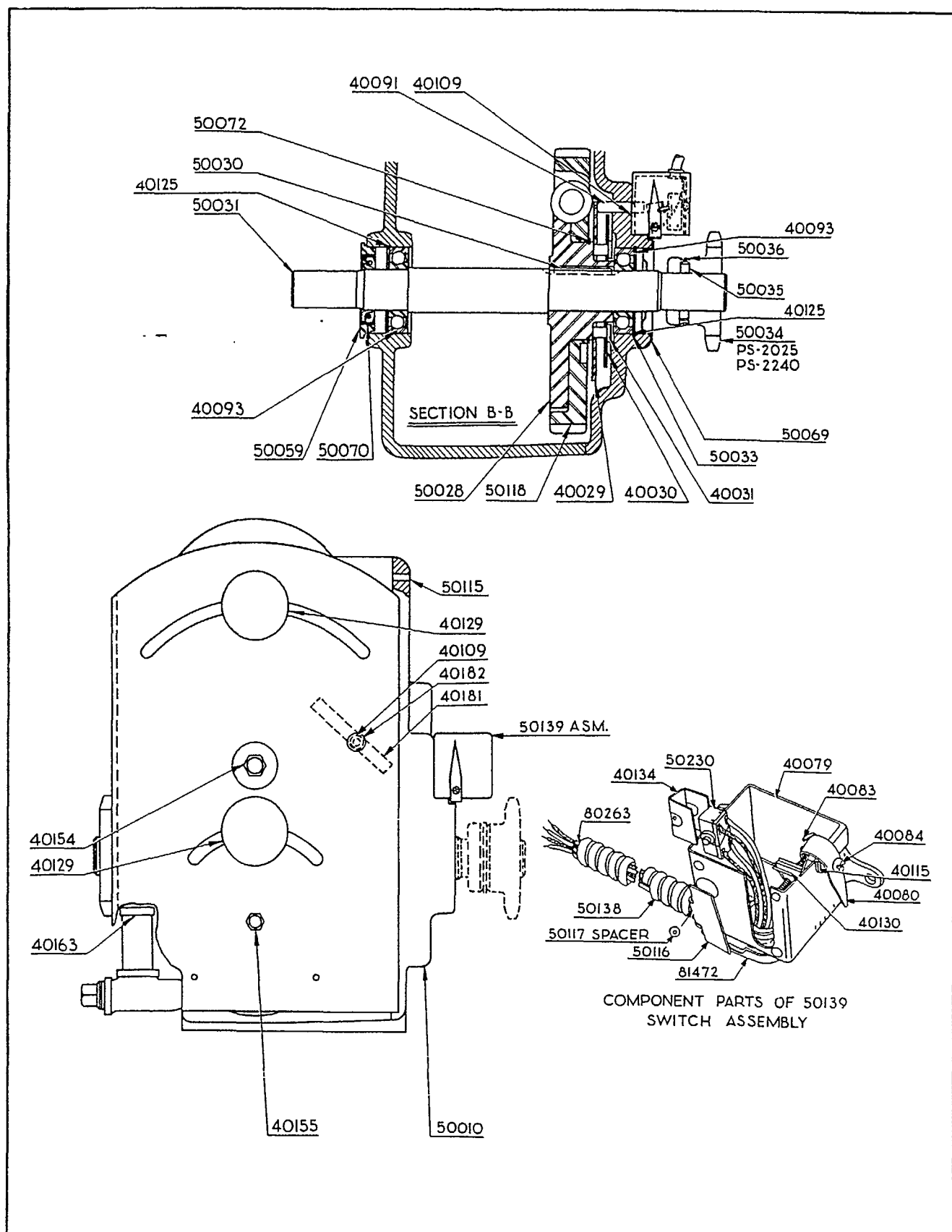


Figure 3 - PS Gear Case Assembly - Refer to Parts List II (Page 15)

IMPORTANT: Always specify stoker model number.

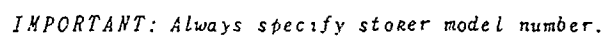


Figure 4 - Train View of Conveyor Fan Parts - Refer to Parts List I (PG 10)
(Refer to Parts List IV (Pg 24) for Parts Included in Replacement Fan Assembly)

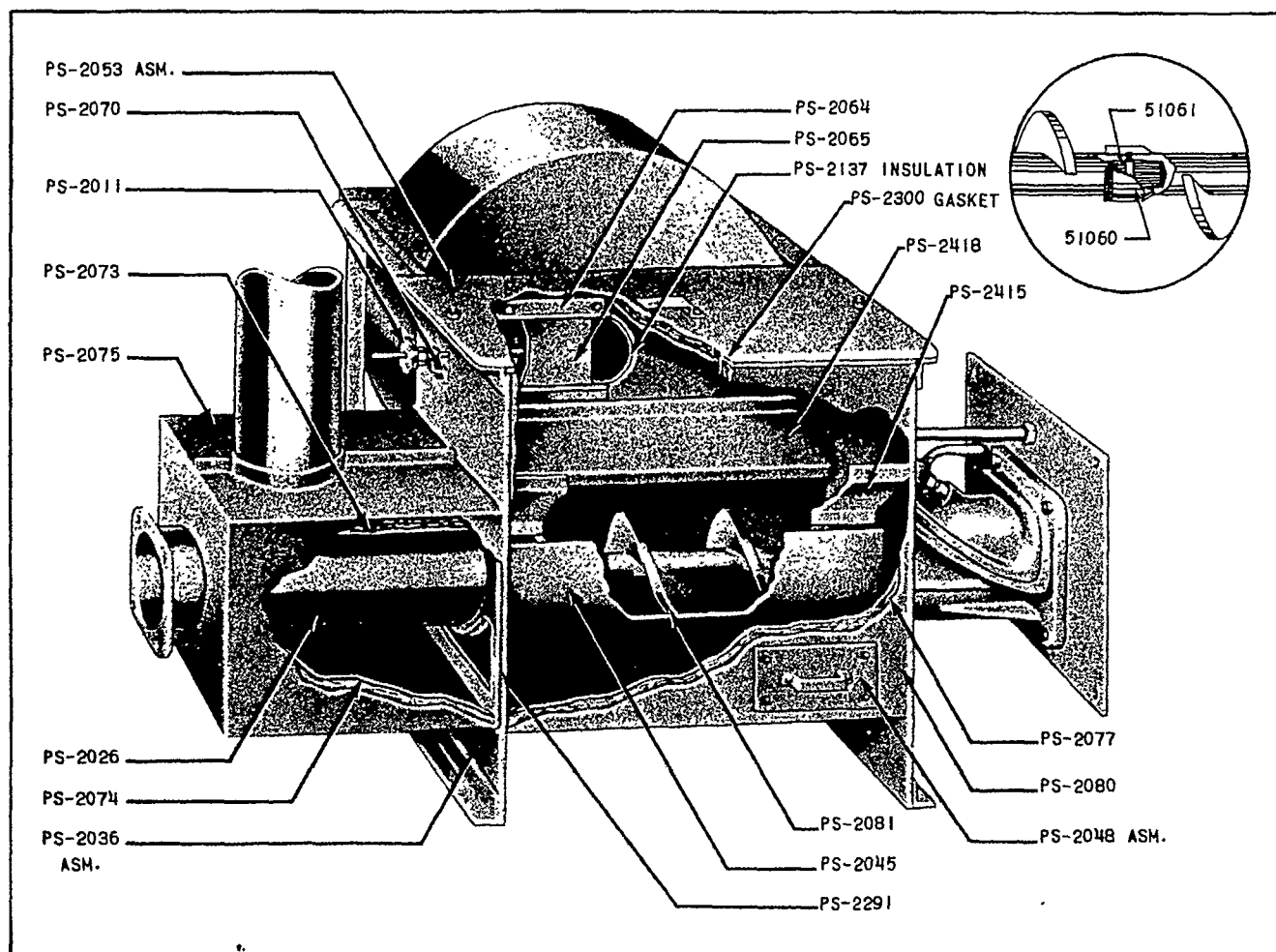


Figure 5 - Coal Drier Parts - Refer to Parts List I (Pg 10)

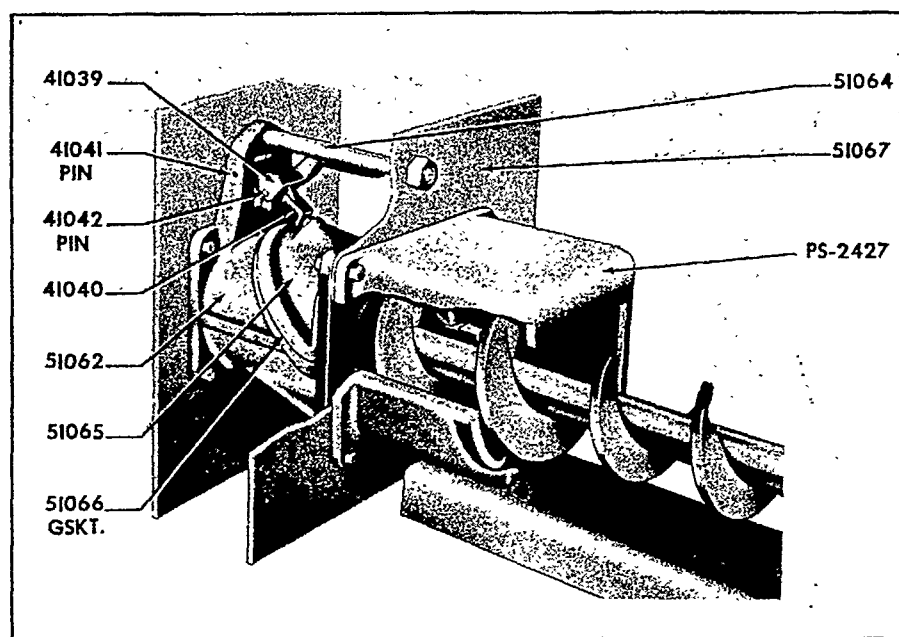


Figure 6 - Obstruction Guide and Cleanout Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

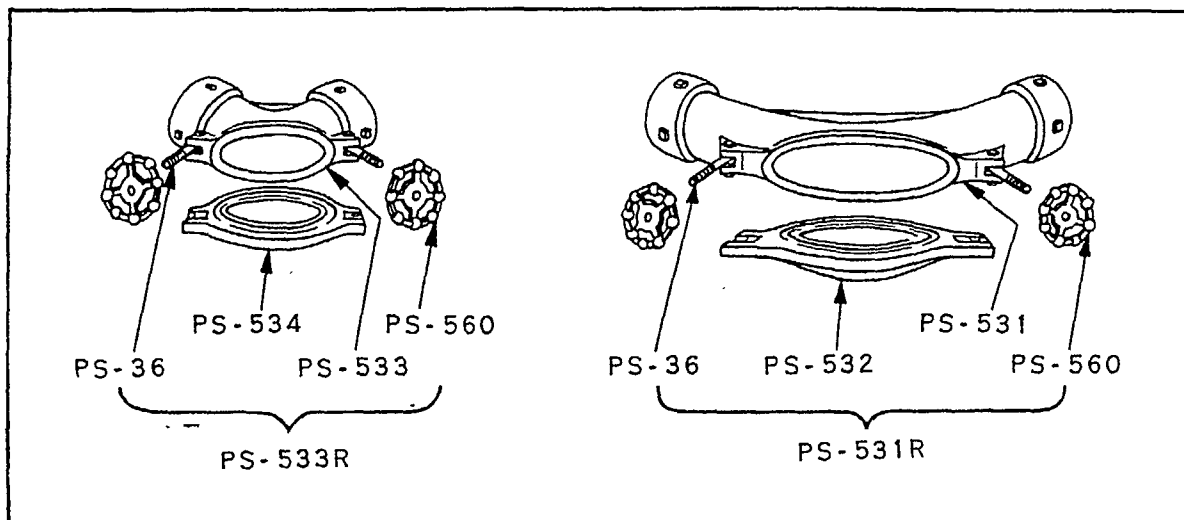


Figure 7 - Conveyor Elbow Assemblies - Refer to Parts List I (Pg 10)

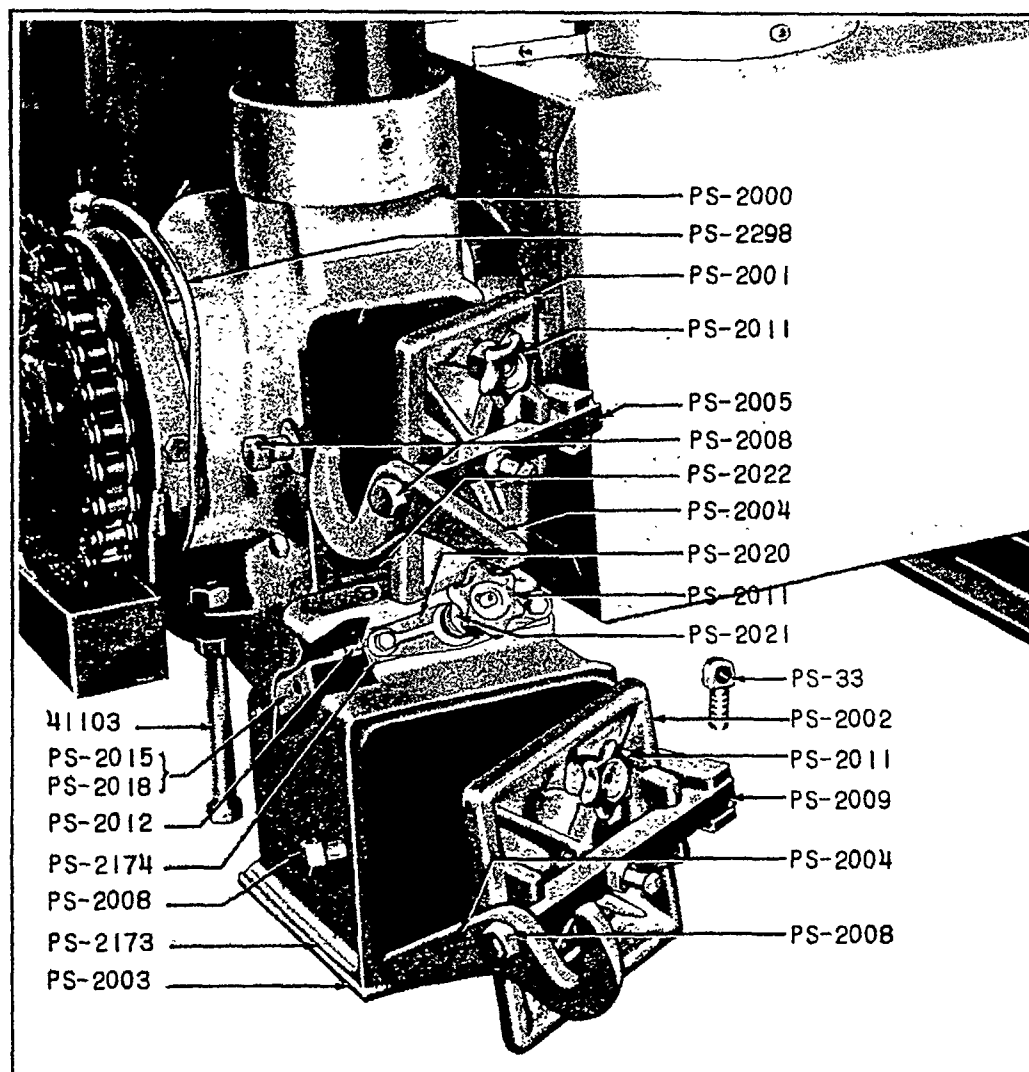


Figure 8 - Transfer Housing Cleanout Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number.

TABLE I
STOKER AND CONVEYING FAN DRIVE DATA

MODEL		PS-75-110-160				PS-200				PS-300		PS-400	
FAN ARRANGEMENT		NO. 1	NO. 2	NO. 3	NO. 4	NO. 2	NO. 3	NO. 4	NO. 3	NO. 4	NO. 3	NO. 4	
		STANDARD	OPTIONAL USING 200-PS FAN DRIVE	OPTIONAL USING 300-PS FAN DRIVE	OPTIONAL USING 400-PS FAN DRIVE		OPTIONAL USING 300-PS FAN DRIVE	OPTIONAL USING 400-PS FAN DRIVE	STANDARD	OPTIONAL OVER SPEED FAN DRIVE	STANDARD	OPTIONAL OVER SPEED FAN DRIVE	
MOTOR • 1725 R.P.M. H.P.		3	5	5	5	5	5	5	5	7-1/2	5	7-1/2	
MOTOR SHEAVE ASM. - I.F. NO.		PS-2454	PS-2452	PS-2455		PS-2452	PS-2455		PS-2455	PS-2457	PS-2455	PS-2457	
MERCURY CLUTCH ASM.		PS-2449	PS-2451				PS-2451		PS-2451	PS-2450	PS-2451	PS-2450	
BORE		1	1-1/8				1-1/8		1-1/8	1-1/4	1-1/8	1-1/4	
O.D.			7-1/2				7-1/2		7-1/2		7-1/2		
MOTOR SHEAVE TO		PS-2189	PS-2453	PS-2456		PS-2453	PS-2456		PS-2456		PS-2456		
FAN		9-7/8	10-7/8	13-1/4		10-7/8	13-1/4		13-1/4		13-1/4		
FAN SHEAVE		PS-2214	PS-2215	PS-2104	PS-2215	PS-2215	PS-2104	PS-2215	PS-2104	PS-2215	PS-2104	PS-2215	
O.D.		6	6	6-1/2	6	6	6-1/2	6	6-1/2	6	6-1/2	6	
FAN BELT		PS-2221		PS-2220	PS-2361	PS-2221	PS-2220	PS-2361	PS-2220	PS-2361	PS-2220	PS-2361	
CABLE CONSTRUCTION		B-90		B-97	B-93	B-90	B-97	B-93	B-97	B-93	B-97	B-93	
QUANTITY		1	2	2	2	2	2	2	2	2	2	2	
FAN SPEED - R.P.M.		2940	3250	3660	4000	3250	3660	4000	3660	4000	3660	4000	
STOKER SHEAVE		50041			50041			50041			50041		
O.D.		6-1/2			6-1/2			6-1/2			6-1/2		
STOKER BELT		PS-2150			PS-2150			PS-2150			PS-2150		
SIZE		B-60			B-60			B-60			B-60		
GEAR CASE CAM		(PS-2272-PS-75)			(PS-2273-PS-110) (PS-2274-PS-160)			PS-2275			PS-2276		
I.F. NO.		50034			50034			PS-2240			PS-2025		
TEETH		11			11			16			21		
DRIVE SPROCKET		R.P.M.-MAX.			(7.6-PS-75) (11.1-PS-110) (16.3-PS-160)			20.4			21.0		
DRIVEN SPROCKET		I.F. NO.			PS-2091			PS-2091			PS-2091		
TEETH		28			28			28			28		
DRIVE CHAIN		I.F. NO.			PS-2118			PS-2118			PS-2069		
PITCHES		58			58			58			60		
COAL WORM R.P.M. - MAX.		(3.0-PS-75)			(4.4-PS-110) (6.4-PS-160)			8.0			12.0		
											16.0		

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

PARTS LIST I

INCLUDES ALL STANDARD, OPTIONAL AND EXTRA PARTS FOR 401 SERIES PNEUMATIC SPREADER STOKERS.

REFER TO PARTS LIST II FOR COMPONENT PARTS OF GEAR CASE ASSEMBLY NUMBERS SHOWN ON THIS LIST.

REFER TO PARTS LIST III FOR COMPONENT PARTS OF UNDERGRATE FAN UNITS AND AIR DUCT ASSEMBLIES.

REFER TO PARTS LIST IV FOR COMPONENT PARTS INCLUDED WITH REPLACEMENT CONVEYING FAN ASSEMBLY.

REFER TO TABLE I FOR PARTS USED ON STANDARD AND OPTIONAL CONVEYING FAN AND STOKER DRIVE ARRANGEMENTS.

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
9&12	PG-4C	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
10,11&12	PG-50	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
10,11&12	PG-51	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
10&12	PG-52	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
10&12	PG-53	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
8	PS-33	Hinge Eyebolt.	2
13	PS-379VR	Air Duct and Volumeter Assembly. Used with PG-4C Undergrate Fan Unit. Refer to Parts List III for component parts.	As Required
13	PS-381VR	Air Duct and Volumeter Assembly. Used with PG-50, 51, 52 and 53 Undergrate Fan Units. Refer to Parts List III for component parts.	As Required
16	PS-468	Standard Pin Hole Grate Bar - 8 x 24 In..	As Required
16	PS-469	Standard Pin Hole Grate Bar - 8 x 36 In..	As Required
16	PS-487	Grate Support I-Beam for Standard Pin Hole Grates. (Specify number of notches and length required.)	As Required
16	PS-488	Grate Support Channel for Standard Pin Hole Grates (Specify number of notches and length required.)	As Required
7	PS-531R	Elbow Asm.. . . . Consists of: 2 - PS-36 Handwheel Eyebolt 1 - PS-531 Elbow 1 - PS-532 Elbow Cover 2 - PS-560 Handwheel	As Required
7	PS-533R	Elbow Asm.. . . . Consists of: 2 - PS-36 Handwheel Eyebolt 1 - PS-533 Elbow 1 - PS-534 Elbow Cover 2 - PS-560 Handwheel	As Required
17	PS-800	Dump Grate.	As Required
17&18	PS-801	Front Grate	As Required
18	PS-802	Cleanout Door Assembly.	As Required
17	PS-803	Bearing Grate.	As Required
17	PS-805	Side Grate Sleeve	As Required

IMPORTANT: Always specify stoker model number.

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
17	PS-806	Side Grate Pin	As Required
17&18	PS-807	Rear Grate.	As Required
17	PS-808	Side Grate - L.H.	As Required
17	PS-809	Side Grate - R.H.	As Required
17	PS-810	Grate Bar Bearing	As Required
18	PS-819	Ash Well Grate	As Required
16	PS-822	Hot Gas Outlet Assembly	1
		Consists of:	
		1 - PS-823 Hot Gas Outlet	
		1 - PS-824 Air Shutter	
16	PS-849	Grate Support Assembly for Standard Pin Hole Grates (Specify number of notches and length required.)	As Required
18	PS-859	Stationary Grate - 36 In.	As Required
18	PS-860	Stationary Grate - 24 In.	As Required
18	PS-943	Side Plate.	As Required
18	PS-1007	Grate Leg Assembly	As Required
17	PS-1010	Dump Lever.	As Required
17	PS-1013	Pin	As Required
13	PS-1018VR	Air Duct and Volumeter Assembly - 24 In. Long Used with PG-4C Undergrate Fan Unit. Refer to Parts List III for component parts.	As Required
13	PS-1020	Air Duct and Volumeter Assembly - 24 In. Long Used with PG-50, 51, 52 and 53 Undergrate Fan Units. Refer to Parts List III for component parts.	As Required
17	PS-1057	Seal Bar	As Required
8	PS-2000	Transfer Housing.	1
8	PS-2001	Transfer Cleanout Upper Cover	1
8	PS-2002	Transfer Cleanout Lower Cover	1
8	PS-2003	Transfer Housing Bottom Plate	1
8	PS-2004	Hand Latch.	2
8	PS-2005	Upper Hinge Bar	1
8	PS-2008	Shoulder Screw	4
8	PS-2009	Lower Hinge Bar	1
2,5&8	PS-2011	Knob.	5
8	PS-2012	Shutoff Gate	1
8	PS-2015	Gate Guide - L.H.	1
8	PS-2018	Gate Guide - R.H.	1
8	PS-2020	Shutoff Gate - Stuffing Box	1
8	PS-2021	Packing Nut Gland	1
8	PS-2022	Shield Plate Assembly	1
2	PS-2024	Coal Worm Bearing Housing.	1
5	PS-2026	Drier Inlet Housing.	1
5	PS-2036	Drier Enclosure Assembly	1
5	PS-2045	Drier Sheet Assembly	1
5	PS-2048	Drier Cleanout Cover Assembly	1
		Consists of:	
		1 - V-690 Handle	
		1 - PS-2050 Cleanout Plate	
		1 - PS-2052 Insulation - 3/8 In.	
		1 - PS-2235 Insulation - 1/4 In.	
		1 - PS-2236 Gasket	
		1 - PS-2237 Retainer Plate	
5	PS-2053	Access Plate Assembly	1
		Consists of:	
		1 - PS-2054 Access Plate	
		1 - PS-2056 Access Plate Shield	
		2 - PS-2079 Insulation	
		1 - V-690 Handle	
5	PS-2064	Upper Damper Guide	1
5	PS-2065	Damper Blade	1
2	PS-2069	Chain (Used on PS-300 only.)	1
5	PS-2070	Damper Adjusting Wheel Bracket	1
5	PS-2073	Drier Inlet Top Insulation	2

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
5	PS-2074	Drier Inlet Insulation	6
5	PS-2075	Drier Inlet Wrapper Sheet	1
*	PS-2076	Drier Insulation 9" x 26" x 1-1/4"	2
5	PS-2077	Lower Side Drier Insulation.	1
*	PS-2078	Drier Insulation 3-1/4" x 26" x 1-1/4"	2
5	PS-2080	Drier Insulation Wrapper Sheet.	1
5	PS-2081	Drier Coal Worm.	1
1	PS-2084	Bin End Coal Worm.	1
2	PS-2087	Motor Sheave Assembly (Obsolete - replace with PS-2455)	1
2	PS-2091	Sprocket	1
2	PS-2092	Drive Chain (Used on PS-400 only.)	1
2	PS-2093	Seal Gasket	1
2	PS-2094	Thrust Bearing	1
4	PS-2095	Fan Bearing Housing (Used With PS-2411 Fan Shaft Assembly)	1
4	PS-2097	Seal Ring.	2
4	PS-2098	Fan Shaft Bearing Oilier	1
4	PS-2099	Fan Bearing Housing Vent.	1
4	PS-2100	Water-Cooled Bearing Retainer	1
4	PS-2102	Fan Support Studs	3
4	PS-2103	Fan Spacer	3
2	PS-2104	Fan Sheave (6-1/2 in. O.D.)	**
4	PS-2111	Fan Inlet Cover Plate.	1
4	PS-2114	First Stage Fan Liner (Also Order (1) PS-2485 & (1) PS-2484 Fan Housing Seal)	1
4	PS-2116	Interstage Fan	1
4	PS-2117	Second Stage Fan Liner (Also Order (1) PS-2485 Fan Housing Seal)	1
2	PS-2118	Drive Chain (Used on PS-75, 110, 160 and 200.)	1
4	PS-2119	Conveyor Fan Housing	1
4	PS-2123	Back Plate Insulation - 3/8 in. Thick	1
4	PS-2124	Back Plate Insulation - 1/4 in. Thick	1
4	PS-2125	Insulation Cover Sheet	1
4	PS-2127	Air Duct	1
4	PS-2131	Air Duct Gasket.	2
4	PS-2132	Wrapper Sheet	1
5	PS-2137	Drier Insulation - Fan Side.	1
2	PS-2138	Motor Shaft Key - 2 in. Long	1
2	PS-2139	Motor Sheave Key - 1 in. Long	1
2	PS-2142	Motor Plate	1
2	PS-2147	Gear Case Support	1
2	PS-2150	Gear Case Drive Belt	1
4	PS-2160	Fan Bearing Housing Support.	1
2	PS-2171	Bearing Housing Gasket	1
2	PS-2172	Worm Housing Gasket	1
8	PS-2173	Bottom Plate Gasket	1
8	PS-2174	Stuffing Box Gasket	1
4	PS-2175	Air Duct Clamp Gasket.	1
4	PS-2176	Balancing Hub Assembly Includes: 3 - PS-2362 Balancing Weight	1
16	PS-2177	Coal Worm Sprocket Spanner	1
2	PS-2210	Fan Drive Belt Used on Model PS-75.	1
2	PS-2213	Motor Plate Hinge	1
2	PS-2214	Fan Sheave Used on Models PS-110 and PS-160.	**
2	PS-2215	Fan Sheave	**
2	PS-2219	Fan Sheave Used on Model PS-75.	**

* Not illustrated.

** Refer to Table I for usage.

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

File No. 7-401
Page 13

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
2	PS-2220	Fan Drive Belt	2*
2	PS-2221	Fan Drive Belt	*
2	PS-2222	Motor Sheave Assembly (Obsolete - replace with PS-2455)	1*
2	PS-2224	Motor Sheave Assembly (Obsolete - replace with PS-2454)	1*
4	PS-2226	Air Duct Clamp	1
2	PS-2228	Coal Worm Housing Bearing	1
2	PS-2234	Motor Plate Hinge	1
2	PS-2241	Sheave Housing Support	1
1	PS-2246	Belt Guard	1
4	PS-2254	Belt Guard Support Clip	2
2	PS-2257	Oil Drain Pan	1
2	PS-2266	Chain Guard	1
5	PS-2291	Drier Inlet Gasket	1
2	PS-2295	Belt Guard Bracket	1
8	PS-2298	Overflow Tube	1
2	PS-2299	Cooling Tube Assembly	1
5	PS-2300	Access Cover Gasket	1
2	PS-2302	Gear Case Assembly	1
2	PS-2303	Gear Case Assembly Used on Model PS-110. (See figure 3 and Parts List II for component parts.)	1
2	PS-2304	Gear Case Assembly Used on Model PS-160. (See figure 3 and Parts List II for component parts.)	1
2	PS-2305	Gear Case Assembly Used on Model PS-200. (See figure 3 and Parts List II for component parts.)	1
2	PS-2306	Gear Case Assembly Used on Model PS-300. (See figure 3 and Parts List II for component parts.)	1
2	PS-2307	Gear Case Assembly Used on Model PS-400. (See figure 3 and Parts List II for component parts.)	1
4	PS-2350	Seal Plate	2
4	PS-2353	Dust Check Ring	1
—	PS-2357	Cooling Tube Clamp	1
2	PS-2359	Motor Plate Hinge Screw	2
2	PS-2361	Fan Drive Belt	2*
2	PS-2365	Motor Sheave Assembly (Obsolete - replace with PS-2457)	1*
15	PS-2379	Coal Agitator Assembly Consists of: 1 - PS-2380 Agitator Bracket 2 - PS-2391 Retainer Ring 1 - PS-2385 Clamp Plate 2 - V-5252 Agitator Wheel Arm 1 - PS-2386 Agitator Wheel - R.H. 2 - 17023 Agitator Bearing 1 - PS-2387 Agitator Wheel - L.H. 4 - 17027 Thrust Bearing 2 - PS-2390 Shaft 4 - 17028 Bearing	1
4	PS-2410	Retaining Ring	1
4	PS-2411	Fan Shaft Assembly (Used With PS-2095 Fan Bearing Housing) Consists of: 2 - PS-1123 Fan Shaft Bearing 2 - PS-2460 Oiler Guide N.D. #87507 1 - 38298 Spacer 1 - PS-2105 Fan Shaft 4 - 41020 Retainer Ring	1
14	PS-2413	Nozzle Assembly Consists of: 1 - PS-44 Nozzle Hinge Pin 2 - PS-309 Sleeve Cover Plate 1 - PS-45 Nozzle Control Rod 2 - PS-311 Support U Bolt 1 - PS-47 Nozzle Handwheel 1 - PS-2180 Nozzle End 1 - PS-81 Nozzle Body 1 - PS-2181 1-in. Deflector 1 - PS-308A Support Assembly 1 - PS-2182 1-1/2-in. Deflector 1 - PS-2183 2-1/2-in. Deflector	1
5	PS-2415	Baffle - R.H.	1
5	PS-2418	Baffle - L.H.	1
6	PS-2427	Obstruction Guide Housing	1
4	PS-2430	Fan Housing Seal	1
15	PS-2431	Coal Agitator Shaft	2

* Refer to Table I for usage.

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
15	PS-2432	Thrust Bearing	4
15	PS-2433	Bearing	4
4	PS-2434	Fan Wheel.	2
4	PS-2440	Sliding Nipple Assembly	1
2	PS-2452	Motor Sheave Assembly.	*1
2	PS-2454	Motor Sheave Assembly.	*1
2	PS-2455	Motor Sheave Assembly.	*1
2	PS-2457	Motor Sheave Assembly.	*1
4	PS-2459	Conveying Fan Assembly	1
		Refer to Parts List IV for Component Parts	
4	PS-2461	Balance Ring.	2
4	PS-2462	Inner Balance Ring.	1
4	PS-2463	Fan Bearing Housing (Used With PS-2468 Fan Shaft Asm.).	1
4	PS-2465	Gasket.	1
4	PS-2468	Fan Shaft Assembly (Used With PS-2463 Fan Bearing Housing)	1
		Consists of:	
		4 - 40120 Retainer Ring 1 - 38298 Spacer	
		1 - PS-2105 Fan Shaft 1 - PS-2466 Bearing - N.D. #97507	
		2 - PS-2460 Oiler Guide 1 - PS-2467 Bearing - N.D. #97607	
4	PS-2484	Fan Housing Seal - (Used With New Style PS-2114 First Stage Liner Sheet)	1
4	PS-2485	Fan Housing Seal - (Used With New Style First and Second Stage Liner)	2
16	S-1009R	Ash Hoe and Handle - 1-in. Pipe	1
		Used with pin-hole type grates.	
16	S-1011R	Clinker Rake and Handle - 1-in. Pipe.	1
16	S-1012	Refractory Tile Slab - 3" x 6" x 18".	1
		Used over nozzle opening in front wall.	
17	S-1049	Air Cylinder Assembly for Dump Grates	As Required
16	S-1050	Ash Hoe	1
16	S-1050R	Ash Hoe and Handle - 1-in. Pipe	1
		Used with ribbed-type grates.	
16	S-1057R	Clinker Hook and Handle - 3/4-in. Pipe	1
16	S-1058R	Slice Bar and Handle - 1-in. Pipe.	1
16	S-1059R	Slice Bar and Handle - 1-1/2-in. Pipe	1
16	S-1098	Hot Gas Temperature Indicator - 12-in.	1
17	S-1099	Steam Cylinder Assembly for Dump Grates.	As Required
2&4	40048	Key.	3
4	40125	Retainer Ring	2
6	41039	Toggle Handle	1
6	41040	Toggle Link	1
6	41041	Lock Pin	1
6	41042	Lock Pin	1
8	41043	Motor Adjusting Bolt	2
2	41344	Cable Spring.	1
2	41350	Quadrant Cable Assembly	1
2	41526	Sheave and Housing Assembly.	1
		Consists of:	
		1 - 41231 Sheave Housing	
		1 - 40076 Spacer 1 - 41232 Sheave Housing Cover	
		2 - 40078 Washer 1 - 41527 Cable Sheave	
5	51060	Worm Coupling Nut	1
5	51061	Worm Coupling Plug.	1
6	51062	Worm Cleanout Housing.	1
6	51064	Cleanout Stud	1
6	51065	Worm Cleanout Housing Cover.	1
6	51066	Worm Cleanout Housing Gasket	1
6	51067	Bin Plate.	1
1	51070	Bin Channel	1
1	51071	Bin Worm Bearing	1
2	51102	Key.	1
2	51113	Lock Nut	1
2	51114	Lock Washer	1
2	51118	Motor Adjusting Bracket	1
2	80348	Flare Nut (Not Illustrated).	2
4 - 2	80689	Brass Elbow	4

* Refer to Table I for usage

IMPORTANT: Always specify stoker model number.

PARTS LIST II

COMPONENT PARTS OF PS GEAR CASE ASSEMBLIES

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
3	A-116	Ball Bearing (N.D.-7505).	1
3	PS-2025	Drive Sprocket - 21 Teeth Used on Model PS-400 only.	1
3	PS-2184	Quadrant	1
3	PS-2240	Drive Sprocket - 16 Teeth Used on Model PS-300 only.	1
3	PS-2271	Cam.	1
3	PS-2272	Cam.	1
3	PS-2273	Cam.	1
3	PS-2274	Cam.	1
3	PS-2275	Cam.	1
3	PS-2276	Cam.	1
*	PS-2292	Cam Adjusting Washer	As Required
3	40029	Collector Plate.	1
3	40030	Finger Spring	1
3	40031	Shoulder Screw	3
3	40036	Bearing Stop Cover Shim	As Required
3	40048	Spring Key	3
3	40061	Cam Follower.	1
3	40062	Cam Roller	2
3	40063	Cam Roller Stud.	2
3	40064	Spring.	1
3	40066	Coal Feed Quadrant Arm	1
3	40069	Air Adjustment Quadrant Arm.	1
3	40073	Air Adjustment Sheave.	1
3	40074	Eccentric Bushing	1
3	40075	Air Adjustment Pivot Screw	1
3	40076	Air Adjustment Spacer.	1
3	40078	Air Adjustment Washer.	4
3	40085	Plug	1
3	40086	Plug	1
3	40091	Overload Release Pin	1
3	40093	Ball Bearing (N.D. 7507).	3
3	40094	Ball Bearing (N.D. 55507)	1
3	40100	Ball Bearing (N.D. 7506).	2
3	40101	Ball Bearing (N.D. 88035)	2
3	40106	Oil Seal (Nat. 140328)	1
3	40109	Oil Seal (Vitalic 6318)	2
3	40110	Bearing (Oilite A-956)	1
3	40111	Bearing (Oilite T-1303-1)	1
3	40112	Bearing (Oilite)	1
3	40116	Bearing (Oilite A-1167-2)	1
3	40124	Retainer Ring (Eaton International)	1
3	40125	Retainer Ring (Eaton International)	3
3	40126	Retainer Ring (Waldes Truarc)	3
3	40129	Knob	2
3	40136	Low Speed Shaft Key	1
3	40152	Washer (ABEC-W-07).	1
3	40153	Lock Nut (ABEC-N-07)	1
3	40154	Acorn Nut - Upper	1
3	40155	Acorn Nut - Lower	1
3	40163	Oil Gauge.	1
3	40168	Key.	1
3	40173	Chain Retainer Pulley.	1
*	40176	Name Plate	1
3	40181	Quadrant Arm Stop	1
3	40182	Retainer Screw	1
3	50009	Gear Case.	1
3	50010	Gear Case Cover.	1

* Not illustrated.

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
3	50012	Main Worm Shaft.	1
3	50013	Main Worm Gear	1
3	50014	Differential Worm Shaft	1
3	50015	Differential Worm Gear	1
3	50016	Low Speed Shaft.	1
3	50017	Spacer.	1
3	50018	Internal Gear	1
3	50019	Sun Pinion Gear.	1
3	50020	Spider Assembly.	1
3	50023	Planet Gear	3
3	50024	Inner Spider.	1
3	50025	Thrust Washer	1
3	50026	Thrust Washer	1
3	50028	Back Gear Hub	1
3	50029	Spring.	3
3	50030	Drive Shaft Key.	1
3	50031	Drive Shaft	1
3	50033	Drive Shaft Shim	As Required
3	50034	Drive Sprocket - 11 Teeth Used on PS-50, 75, 110, 160 and 200.	1
3	50035	Shear Pin.	As Required
3	50036	Shear Pin Retainer.	1
3	50037	Main Worm Bearing Retainer	1
3	50038	Differential Worm Bearing Retainer	1
3	50039	Main Worm Bearing Retainer Gasket.	1
3	50040	Differential Worm Bearing Retainer Gasket	1
3	50041	Input Sheave.	1
3	50042	Sliding Sheave	2
3	50043	Adjusting Sheave	1
3	50044	Bearing Housing.	2
3	50045	Sheave Drive Pin	4
3	50046	Bushing	4
3	50047	Belt Shifter Support	1
3	50050	Belt Shifter Assembly. Consists of: 1 - 50097 Belt Shifter - Front Half 1 - 50098 Belt Shifter - Rear Half	1
3	50057	Spring Washer	1
3	50058	Spring Washer	1
3	50059	Oil Seal Housing	1
3	50060	Snap Ring.	1
3	50061	Ball Bearing (N.D. 7607).	1
3	50062	Ball Bearing (N.D. 5507).	1
3	50063	Ball Bearing (N.D. 993L09).	2
3	50064	Needle Bearing (Tor. B-1210X).	6
3	50065	Needle Bearing (Tor. B-2414XOH).	2
3	50066	Bearing (Oilite A-1213-2).	2
3	50067	Bearing (Oilite A-1623).	1
3	50068	Oil Seal (Nat. 50135).	1
3	50069	Oil Seal (Nat. 50452).	1
3	50070	Oil Seal (Nat. 50055-S).	1
3	50071	Retainer Ring (Wal. NAS 51-175).	2
3	50072	Retainer Ring (Wal. No. 51-325).	1
3	50073	Retainer Ring (Wal. NAS 51-118).	1
3	50075	Retainer Ring (Wal. NAS 50-300).	2
3	50077	Wide V Belt	1
3	50085	Lock Washer	1
3	50089	Oil Distributor.	1
3	50093	Oil Distributor Chain.	1
3	50115	Dowel Pin	2
3	50118	Gear	1
3	50120	Oil Elevating Pulley	1
3	50121	Chain Retainer Pulley Screw.	1
3	50122	Cover Bearing Stop.	1
3	50123	Case Bearing Stop	1
3	50124	Worm Wheel Shim	As Required

IMPORTANT: Always specify stoker model number.

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
3	50125	Worm Wheel Shim.	As Required
3	50126	Pointer	2
3	50129	Internal Gear Bearing Retainer.	1
3	50139	Overload Switch Assembly.	1
		Consists of:	
		1 - 40079 Box	
		1 - 40080 Actuator Lever	
		1 - 40083 Spring	
		1 - 40084 Spring	
		1 - 40115 Bearing	
		1 - 40130 Nut	
		1 - 40134 Insulation	
		1 - 50116 Reset Lever	
		1 - 50117 Reset Spacer	
		1 - 50138 Conduit	
		1 - 50230 Switch Asm.	
		2 - 80263 Anti-Short Bushing	
		1 - 81472 90° Connector	

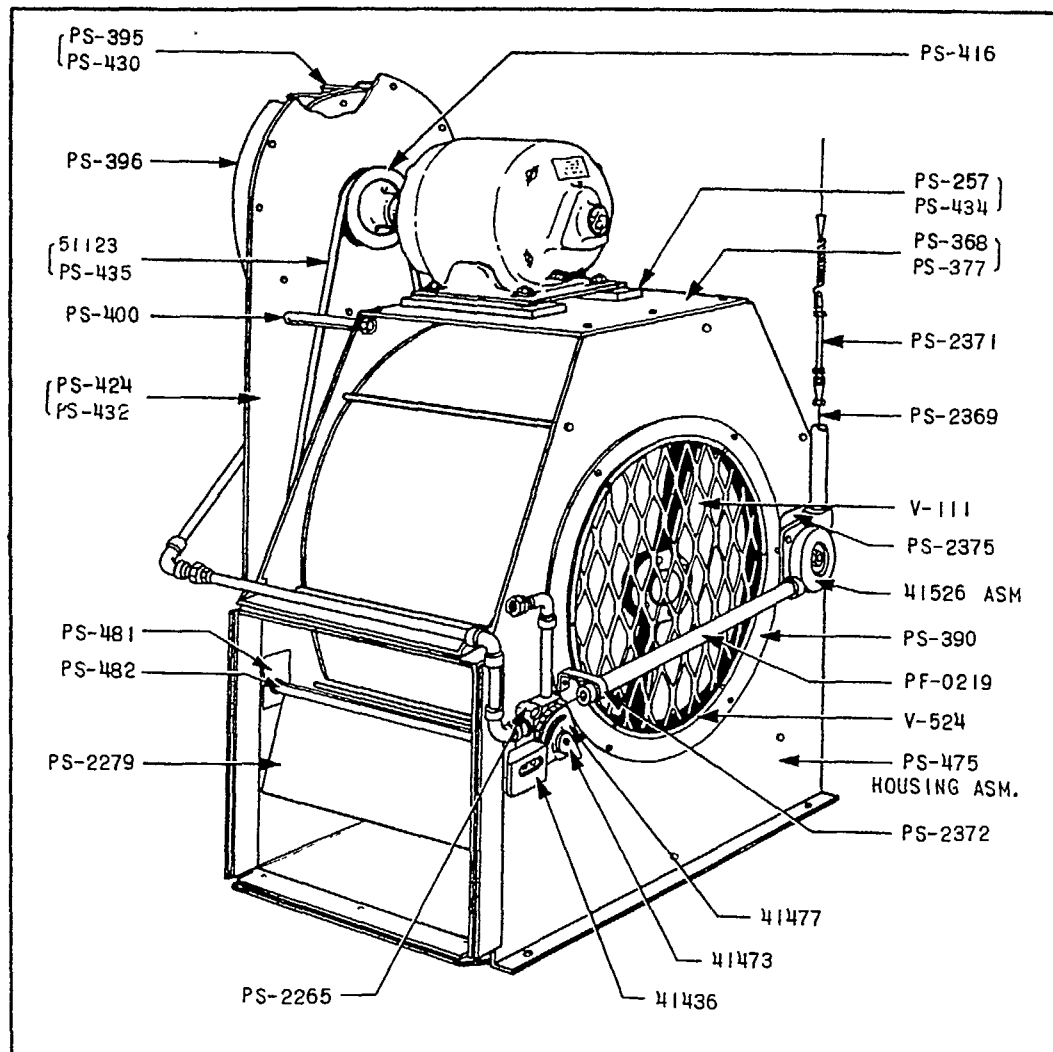


Figure 9 - PG-4C Undergrate Fan Unit - Refer to Parts List III (Pg 21)

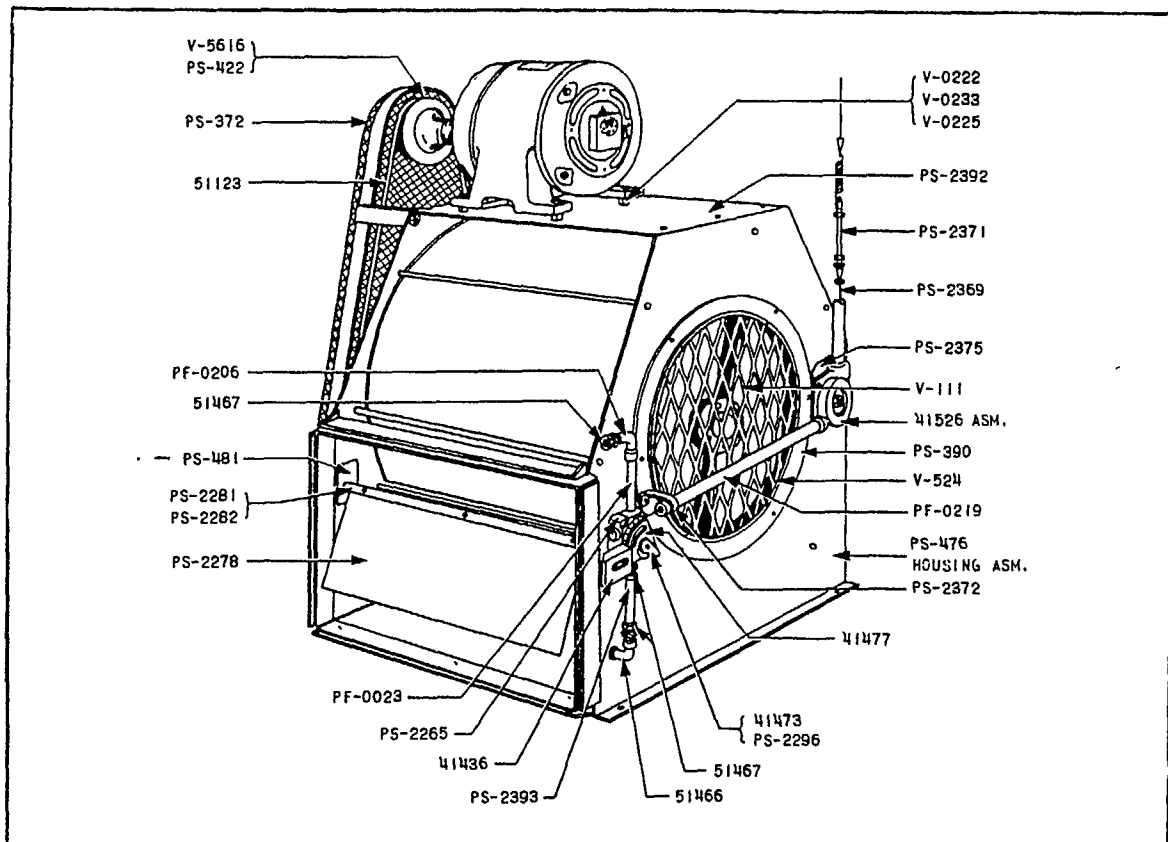


Figure 10 - PG-50, 51, 52 and 53 Single Undergrate Fan Units - Refer to Parts List III (Pg 21)

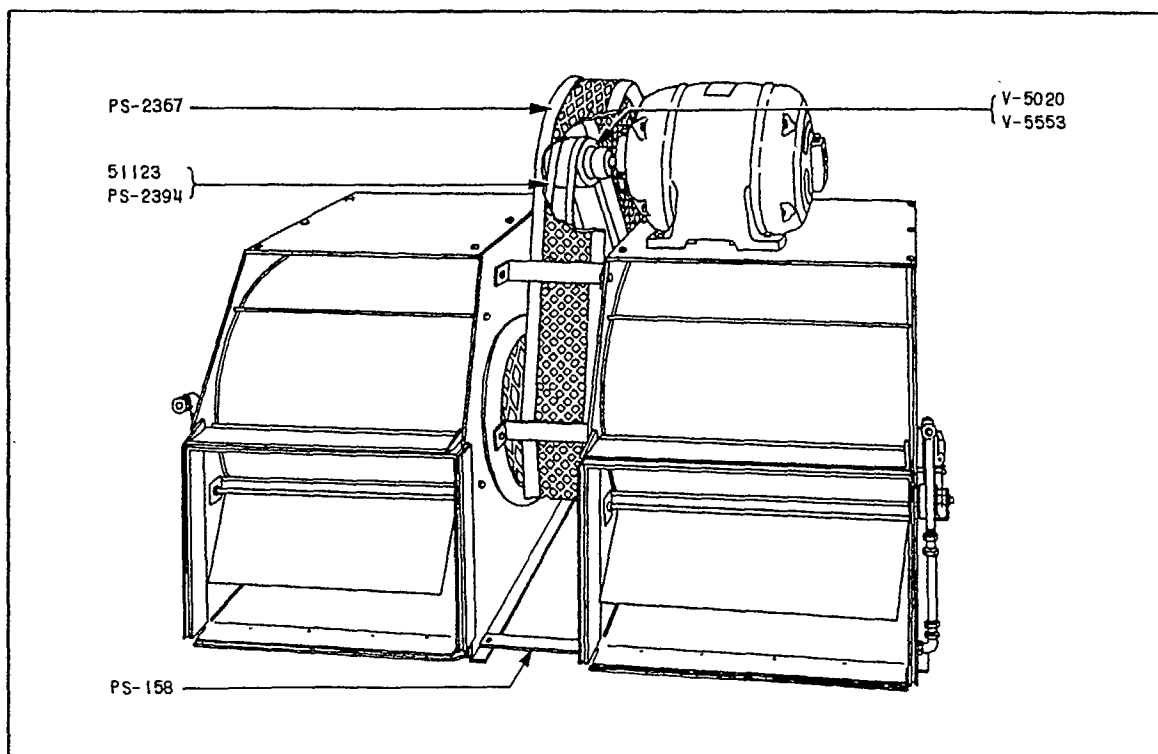


Figure 11 - Duplex Fan Unit - Refer to Parts List III (Pg 21)

IMPORTANT: Always specify stoker model number.

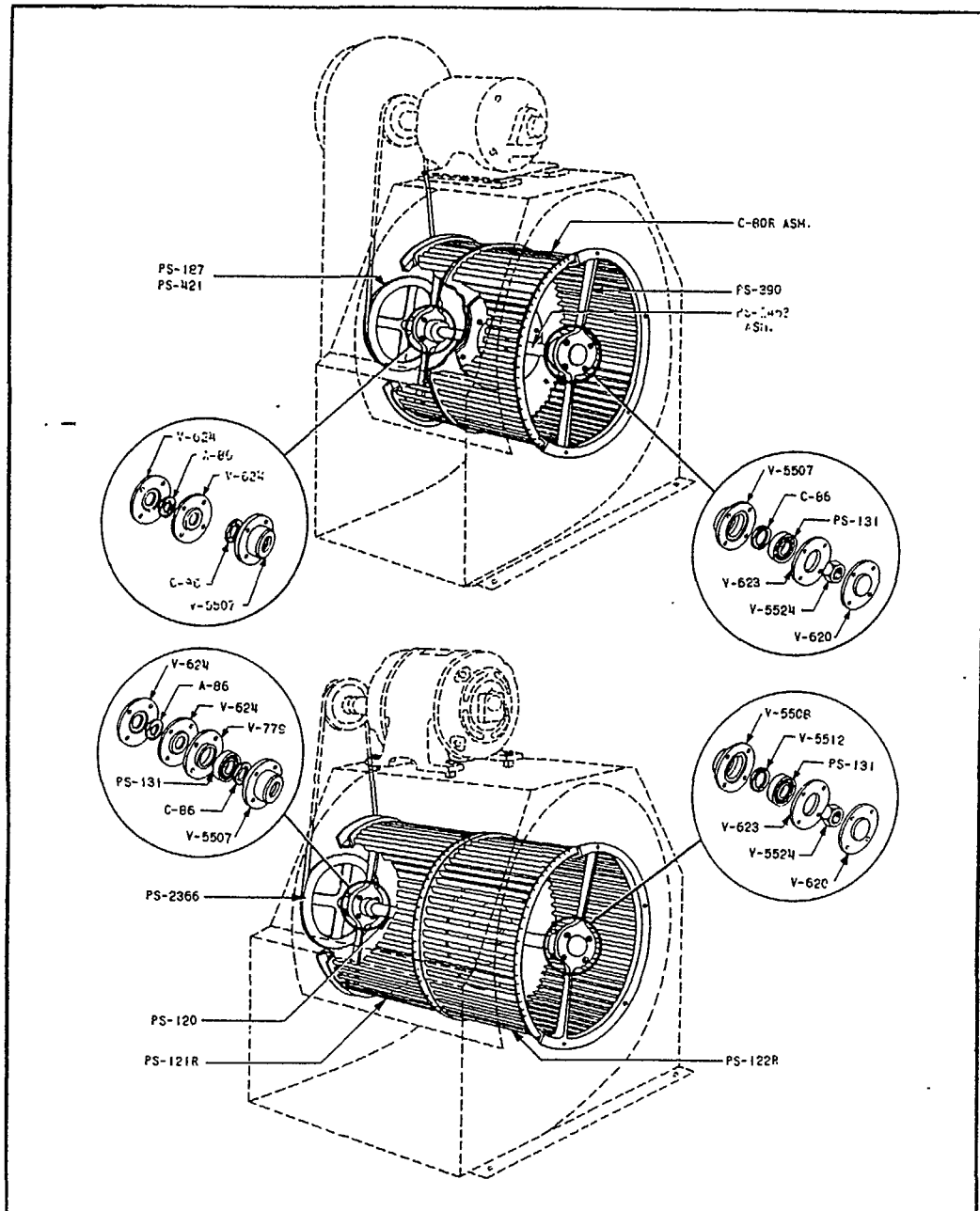


Figure 12 - Internal Parts of Undergrate Fan Units - Refer to Parts List III (Pg 21)

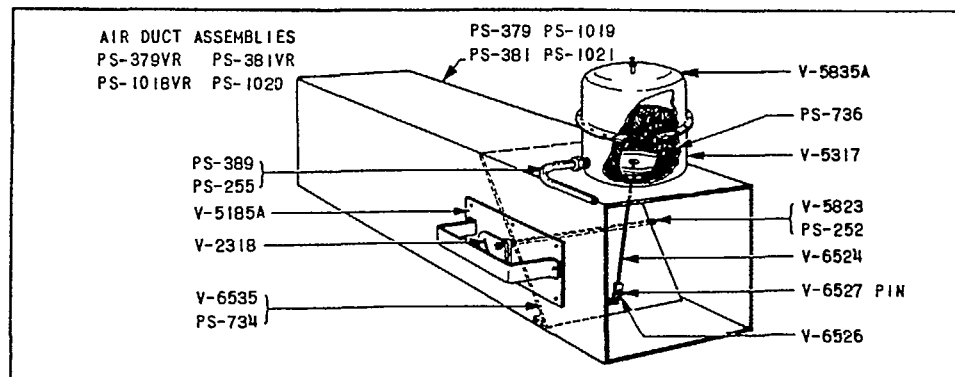


Figure 13 - Volumeter Air Duct Parts - Refer to Parts List III (Pg 21)

IMPORTANT: Always specify stoker model number

TABLE 11
UNDERGATE FAN DATA

STOKER SIZE TYPE OF UNDERGATE FAN	PS-75				PS-110				PS-160				PS-200				PS-300			
	STANDARD 60 CYCLE	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	PS-75	STANDARD 60 CYCLE	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	PS-110	STANDARD 60 CYCLE	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	PS-160	STANDARD 60 CYCLE	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	PS-200	STANDARD 60 CYCLE	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	PS-300
FAN UNIT ASSEMBLY	PG-4C	PG-4C	PG-4C	PG-4C	PG-51	PG-51	PG-51	PG-51	PG-52	PG-52	PG-52	PG-52	PG-52	PG-52	PG-52	PG-52	PG-52	PG-52	PG-52	PG-52
MOTOR BALL SIZE	1 HP	2 HP	1 HP	1 HP	1 HP	1 HP	1 HP	1 HP	1 HP	1 HP	1 HP	1 HP	1 HP	1 HP	1 HP	1 HP	1 HP	1 HP	1 HP	1 HP
CYCLES	60	60	25	60	60	60	25	60	60	60	25	60	60	60	25	60	60	60	25	60
BEARING TYPE	1750	1750	1450	1750	1750	1750	1450	1750	1750	1750	1450	1750	1750	1750	1450	1750	1750	1750	1450	1750
220/440 VOLT	1750	1750	1450	1750	1750	1750	1450	1750	1750	1750	1450	1750	1750	1750	1450	1750	1750	1750	1450	1750
3 PHASE	K-204	K-204	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224
SHAFT	3/4"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
I.F. NO.	PS-416	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421
NO. OF GROOVES IN SHEAVE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NO. OF GROOVES USED	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
O.D.	5 29/32	7.125	7.125	7.125	7.125	7.125	7.125	7.125	7.125	7.125	7.125	7.125	7.125	7.125	7.125	7.125	7.125	7.125	7.125	7.125
BORE	3/4"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
I.F. NO.	PS-235	PS-235	PS-235	PS-235	PS-235	PS-235	PS-235	PS-235	PS-235	PS-235	PS-235	PS-235	PS-235	PS-235	PS-235	PS-235	PS-235	PS-235	PS-235	PS-235
SIZE	8-60	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
QUANTITY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
I.F. NO.	PS-187	PS-187	PS-187	PS-187	PS-187	PS-187	PS-187	PS-187	PS-187	PS-187	PS-187	PS-187	PS-187	PS-187	PS-187	PS-187	PS-187	PS-187	PS-187	PS-187
NO. OF GROOVES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
O.D.	11"	11"	11"	11"	11"	11"	11"	11"	11"	11"	11"	11"	11"	11"	11"	11"	11"	11"	11"	11"
FAN SPEED...R.P.M.	900	1100	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900

IMPORTANT: Always specify stoker model number

PARTS LIST III

COMPONENT PARTS OF UNDERGRATE FAN UNITS AND VOLUMETER AIR DUCT ASSEMBLIES.
SEE TABLE II FOR USAGE AND DATA REGARDING UNDERGRATE FANS.

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D				
			PG 4C	PG 50	PG 51	PG 52	PG 53
12	A-86	Felt Washer Drive End	1	2	2	2	2
12	C-80R	Fan Wheel Assembly	1				
		Consists of:					
		1 - C-80 Fan Hub					
		1 - V-5611 Fan Wheel Spacer					
		1 - V-5613A Fan Wheel - 4 x 14-1/2 in.					
		1 - V-5614A Fan Wheel - 7 x 14-1/2 in.					
12	C-86	Felt Washer Drive End	2	1	1	2	2
*	PF-0020	1/2-14 x 1-3/4 in. Nipple	2				
*	PF-0022	1/2-14 x 3 in. Nipple	1				
*	PF-0023	1/2-14 x 4 in. Nipple	1	1	1	2	2
*	PF-0025	1-14 x 15-3/4 Pipe	1				
10	PF-0206	90° Ell		2	2	4	4
9&10	PF-0219	Cable Pipe	1	1	1	2	2
*	PF-0235	Bushing - 1/4-in. x 1/2-in.		1	1	2	2
12	PS-120	Fan Shaft		1	1	2	2
12	PS-121R	Fan Wheel - R.H.		1	1	2	2
		7 in. x 14-1/2 in.					
12	PS-122R	Fan Wheel - L.H.		1	1	2	2
		7 in. x 14-1/2 in.					
12	PS-131	Fan Shaft Bearing.	1	2	2	4	4
11	PS-158	Lower Tie Strap				2	2
12	PS-187	Fan Sheave	1				
9	PS-257	Motor Spacing Bar.	2				
*	PS-325	Belt Guard Spacer.	2				
9	PS-368	Motor Plate.	1				
10	PS-372	Belt Guard		1	1		
13	PS-379VR	Air Duct and Volumeter Assembly	1				
		Consists of:					
		1 - PS-379 Air Duct					
		1 - PS-389 Volumeter Air Tube					
		1 - PS-736 Volumeter Diaphragm					
		1 - V-2318 Regulator Rod Quadrant					
		1 - V-5135A Regulator Panel					
		1 - V-5317 Volumeter Lower Housing					
		1 - V-5823 Regulator Damper Rod					
		1 - V-5835A Volumeter Upper Housing					
		1 - V-6524 Diaphragm Piston Rod					
		1 - V-6526 Piston Rod Yoke					
		1 - V-6527 Yoke Pin					
		1 - V-6535 Regulator Blade					
13	PS-381VR	Air Duct and Volumeter Assembly		1	1	2	2
		Consists of:					
		1 - PS-252 Regulator Damper Rod					
		1 - PS-255 Volumeter Air Tube					
		1 - PS-381 Air Duct					
		1 - PS-734 Regulator Blade					
		1 - PS-736 Volumeter Diaphragm					
		1 - V-2318 Regulator Rod Quadrant					
		1 - V-5185A Regulator Panel					
		1 - V-5317 Lower Volumeter Housing					
		1 - V-5835A Upper Volumeter Housing					
		1 - V-6524 Diaphragm Piston Rod					
		1 - V-6526 Piston Rod Yoke					
		1 - V-6527 Yoke Pin					
12	PS-390	Fan Inlet Ring.	2	2	2	4	4
9	PS-395	Fan Wheel	1				
9	PS-396	Fan Housing.	1				

* Not illustrated.

IMPORTANT: Always specify stoker model number

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D				
			PG 4C	PG 50	PG 51	PG 52	PG 53
9	PS-400	Belt Guard Spacer.	2				
9	PS-416	Motor Sheave	1				
10	PS-422	Motor Sheave			1		
9	PS-424	Belt Guard	1				
9	PS-475	Fan Housing Assembly.	1				
		Consists of:					
		1 - PS-352 Lower Tie Plate					
		1 - PS-354A Body Sheet					
		8 - PS-356 Tie Rod					
		2 - PS-357 Body Sheet Gasket					
		1 - PS-477 Leg - R.H.					
		1 - PS-478 Leg - L.H.					
10	PS-476	Fan Housing.		1	1	2	2
		Consists of:					
		2 - PS-357 Body Sheet Gasket					
		1 - PS-364 Body Sheet					
		8 - PS-366 Tie Rod					
		1 - PS-477A Leg - R.H.					
		1 - PS-478A Leg - L.H.					
9&10	PS-481	Indicator Vane Rod Bearing Plate.	1	1	1	2	2
9	PS-482	Indicator Vane Rod	1				
13	PS-1018VR	Air Duct and Volumeter Assembly - 24 In. Long	*				
		Consists of:					
		1 - PS-389 Volumeter Air Tube					
		1 - PS-736 Volumeter Diaphragm					
		1 - PS-1019 Air Duct - 24 in. Long					
		1 - V-2318 Regulator Rod Quadrant					
		1 - V-5185A Regulator Panel					
		1 - V-5317 Volumeter Lower Housing					
		1 - V-5823 Regulator Damper Rod					
		1 - V-5835A Volumeter Upper Housing					
		1 - V-6524 Diaphragm Piston Rod					
		1 - V-6526 Piston Rod Yoke					
		1 - V-6527 Yoke Pin					
		1 - V-6535 Regulator Blade					
13	PS-1020	Air Duct and Volumeter Assembly - 24 In. Long		*	*	*	*
		Consists of:					
		1 - PS-252 Regulator Damper Rod					
		1 - PS-255 Volumeter Air Tube					
		1 - PS-734 Regulator Blade					
		1 - PS-736 Volumeter Diaphragm					
		1 - PS-1021 Air Duct - 24 in. Long					
		1 - V-2318 Regulator Rod Quadrant					
		1 - V-5185A Regulator Panel					
		1 - V-5317 Lower Volumeter Housing					
		1 - V-5835A Upper Volumeter Housing					
		1 - V-6524 Diaphragm Piston Rod					
		1 - V-6526 Piston Rod Yoke					
		1 - V-6527 Yoke Pin					
9&10	PS-2265	Indicator Vane Frame.	1	1	1	2	2
10	PS-2278	Indicator Vane Plate.		1	1	2	2
9	PS-2279	Indicator Vane Plate.	1				
10	PS-2281	Indicator Vane Rod				2	2
10	PS-2282	Indicator Vane Rod		1	1		
10	PS-2296	Indicator Valve				1	1
12	PS-2366	Fan Sheave		1	1	2	2
11	PS-2367	Belt Guard				1	1
9&10	PS-2369	Indicator Cable	1	1	1	2	2
9&10	PS-2371	Cable Connector	1	1	1	2	2
9&10	PS-2372	Pipe Bracket	1	1	1	2	2
9&10	PS-2375	Sheave Housing Bracket	1	1	1	2	2
10	PS-2392	Motor Plate.		1	1	2	2
10	PS-2393	Indicator Air Tube		1	1	2	2

* As required

IMPORTANT: Always specify stoker model number

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D				
			PG 4C	PG 50	PG 51	PG 52	PG 53
11	PS-2394	Belt - Goodyear B-62.					2
*	PS-2395	Button Plug.		1	1	2	2
12	PS- 2458	Fan Shaft Assembly	1				
		Consists of:					
		1 - PS-131 Bearing					
		1 - PS-367 Fan Shaft					
9&10	V-111	Fan Screen	1	1	1	2	2
9&10	V-524	Fan Screen Ring	1	1	1	2	2
12	V-620	Bearing Cover Plate	1	1	1	2	2
12	V-623	Bearing Retainer	1	1	1	2	2
12	V-624	Bearing Cover Plate - Drive End	2	2	2	4	4
12	V-779	Bearing Retainer - Drive End		1	1	2	2
10	V-0222	Motor Plate Spacer			4	4	
		1/2-in. dia. x 1/4-in. pipe					
10	V-0225	Motor Plate Spacer					4
		1/2-in. dia. x 5/8-in. pipe					
10	V-0233	Motor Plate Spacer		4			
		1/2-in. dia. x 1-5/8-in. pipe					
11	V-5020	Motor Sheave				1	
12	V-5507	Bearing Retainer - Drive End	2	1	1	2	2
12	V-5508	Bearing Retainer		1	1	2	2
12	V-5512	Bearing Retainer Washer.		1	1	2	2
12	V-5524	Fan Shaft Nut	1	1	1	2	2
11	V-5553	Motor Sheave					1
10	V-5616	Motor Sheave		1			
9&10	41436	Indicator Valve Body Weight	1	1	1	2	2
9&10	41473	Indicator Valve	1	1	1	1	1
9&10	41477	Indicator Valve Body.	1	1	1	2	2
9&10	41526	Housing and Sheave Assembly	1	1	1	2	2
		Consists of:					
		1 - 40076 Spacer					
		2 - 40078 Washer					
		1 - 41221 Sheave Housing					
		1 - 41232 Sheave Housing Cover					
		1 - 41527 Cable Sheave					
9,10&11	51123	Belt - Goodyear B-60.	1	1	1	1	
10	51466	Air Tube Elbow		1	1	2	2
10	51467	Air Tube Connector		3	3	6	6

PARTS USED WITH 25 CYCLE MOTOR ON PG-4C FAN UNIT

9	PS-377	Motor Plate.	1				
12	PS-421	Motor Sheave	1				
*	PS-425	Auxiliary Fan Housing Inner Plate	1				
*	PS-426	Auxiliary Fan Housing Band.	1				
*	PS-427	Auxiliary Fan Housing Outer Plate	1				
9	PS-430	Fan Wheel	1				
		1-in. x 14-1/2-in.					
9	PS-432	Belt Guard	1				
9	PS-434	Motor Spacing Bar.	2				
9	PS-435	Belt - Gates #3680	1				
	Motor	1 H.P., 1450 R.P.M., 220 Volt, 25 Cycle, 3 Phase, Ball-Bearing K-224 Frame					

PARTS USED WITH 60 CYCLE OVERSPEED ON PG-4C FAN UNIT

9	PS-377	Motor Plate.	1				
10	PS-421	Motor Sheave	1				
9	PS-432	Belt Guard	1				
9	PS-434	Motor Spacing Bar.	2				
9	PS-435	Belt - Gates #3680	1				
	Motor	2 H.P., 1750 R.P.M., 220 Volt, 60 Cycle, 3 Phase, K-224 Frame					

* Not illustrated.

IMPORTANT: Always specify stoker model number

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D				
			PG 4C	PG 50	PG 51	PG 52	PG 53
		OPTIONAL AIR DUCT EXTENSIONS AND ELBOWS FOR UNDERGRATE FAN UNITS					
*	PS-923	Air Duct Extension - 24-In.	**				
*	PS-927	Air Duct Extension - 48-In.	**				
*	PS-885	45° Elbow - Horizontal.	**				
*	PS-889	45° Elbow - Horizontal.		**	**	**	**
*	PS-893	90° Elbow - Horizontal.	**				
*	PS-898	90° Elbow - Horizontal.		**	**	**	**
*	PS-903	Vertical Elbow - Rectangular Outlet	**				
*	PS-907	Vertical Elbow - Rectangular Outlet		**	**	**	**
*	PS-911	Vertical Elbow - Square Outlet		**	**	**	**
*	PS-919	Vertical Elbow - Side Outlet.		**	**	**	**
*	PS-925	Air Duct Extension - 24-In.	**	**	**	**	**
*	PS-929	Air Duct Extension - 48-In.	**	**	**	**	**
		* Not illustrated					
		** As Required					

PARTS LIST IV

COMPONENT PARTS OF PS-2470 REPLACEMENT CONVEYOR FAN ASSEMBLY

FIG. NO.	PART NO.	PART NAME	QUAN. REQ'D
	PF-0225	Butt Nipple - 3/4-14 X 1" Long-Straight Pipe Thread (Not Illustrated) .	1
	PF-0358	Nipple - 1/4" X 6" Long- For PS-2098 Fan Shaft Oiler (Not Illustrated) .	1
4	PS-2097	Seal Ring	1
4	PS-2098	Fan Shaft Oiler	1
4	PS-2099	Breather Tube	1
4	PS-2100	Water Cooled Bearing Retainer	1
4	PS-2102	Leveling Studs.	3
4	PS-2103	Fan Spacer.	3
4	PS-2111	Fan Inlet Plate	1
4	PS-2114	First Stage Liner	1
4	PS-2116	Fan Interstage.	1
4	PS-2117	Second Stage Liner.	1
4	PS-2119	Conveyor Fan Housing.	1
4	PS-2123	Back Plate Insulation - 3/8" Thick.	1
4	PS-2125	Insulation Cover Sheet.	1
4	PS-2132	Wrapper Sheet	1
4	PS-2160	Fan Bearing Housing Support	1
4	PS-2176	Balancing Hub Assembly.	1
4	PS-2350	Seal Plate.	1
4	PS-2353	Dust Check Ring	1
4	PS-2410	Retainer Ring	1
4	PS-2434	Fan Wheel	2
4	PS-2461	Balance Ring.	1
4	PS-2462	Inner Balance Ring.	1
4	PS-2463	Fan Bearing Housing	1
4	PS-2465	Gasket.	1
4	PS-2468	Fan Shaft Assembly.	1
		Consists of:	
		4 - 40120 Retainer Ring	
		1 - PS-2105 Fan Shaft	
		2 - PS-2460 Oiler Guide	
		1 - PS-2467 Bearing - N.D. #97607	
		1 - 38298 Spacer	
		1 - PS-2466 Bearing -N.D. #97507	
4	PS-2484	Fan Housing Seal.	1
4	PS-2485	Fan Housing Seal.	2
4	40048	Key	2
	80348	Flare Nut (Not Illustrated)	2
4	80689	Brass Elbow	2

IMPORTANT: Always specify stoker model number

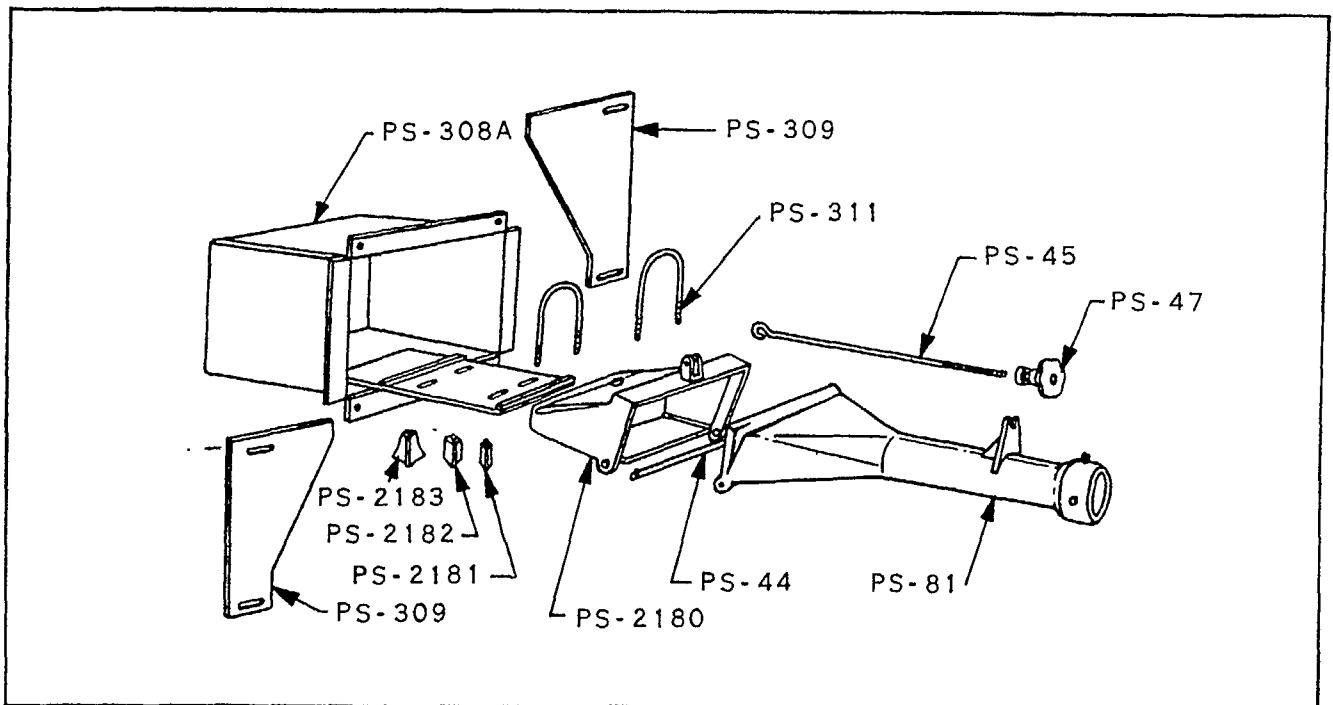


Figure 14 - PS-2413 Nozzle Assembly - Refer to Parts List I (Pg 10)

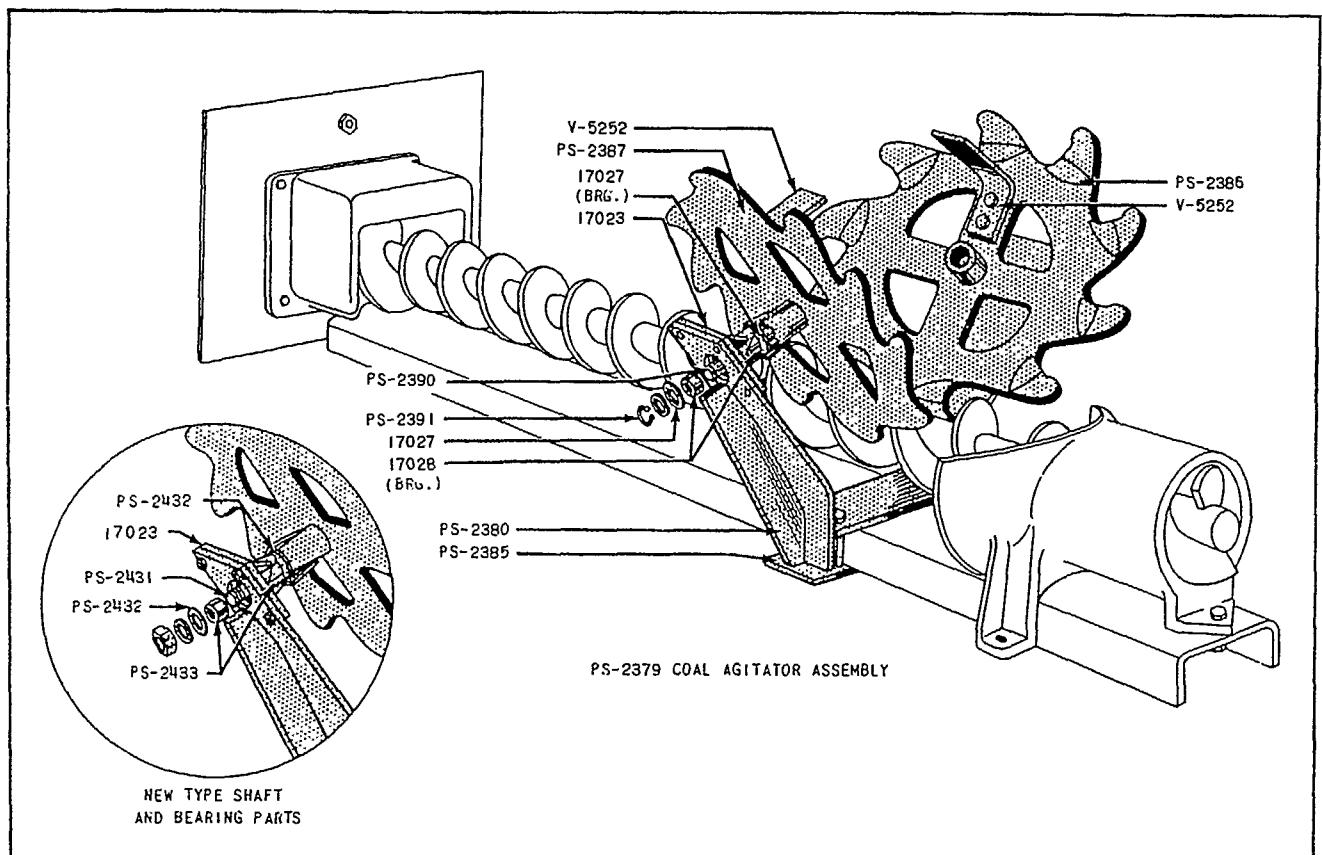


Figure 15 - Coal Agitator Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number

401 SERIES PNEUMATIC SPREADER STOKER

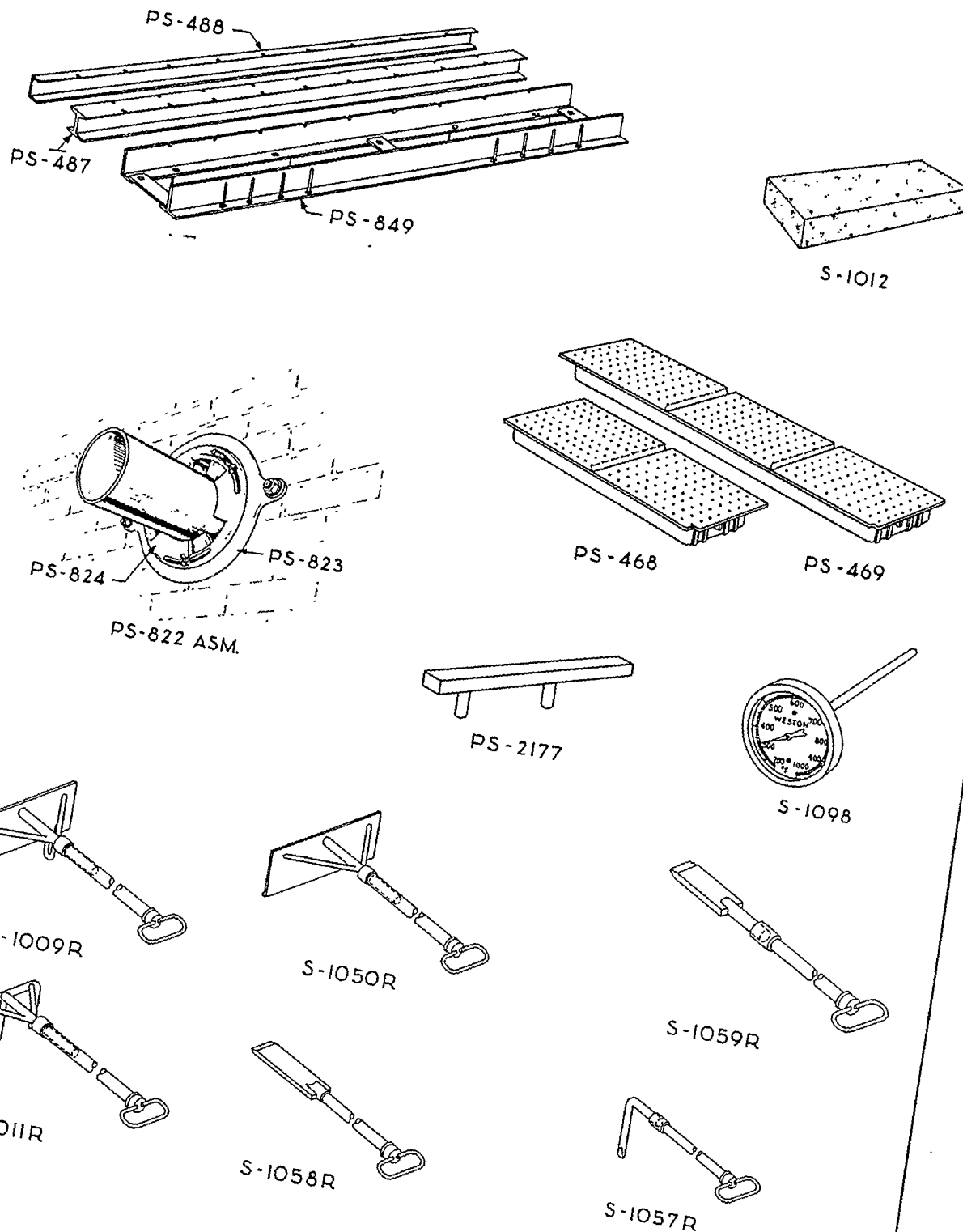


Figure 16 - Miscellaneous Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number

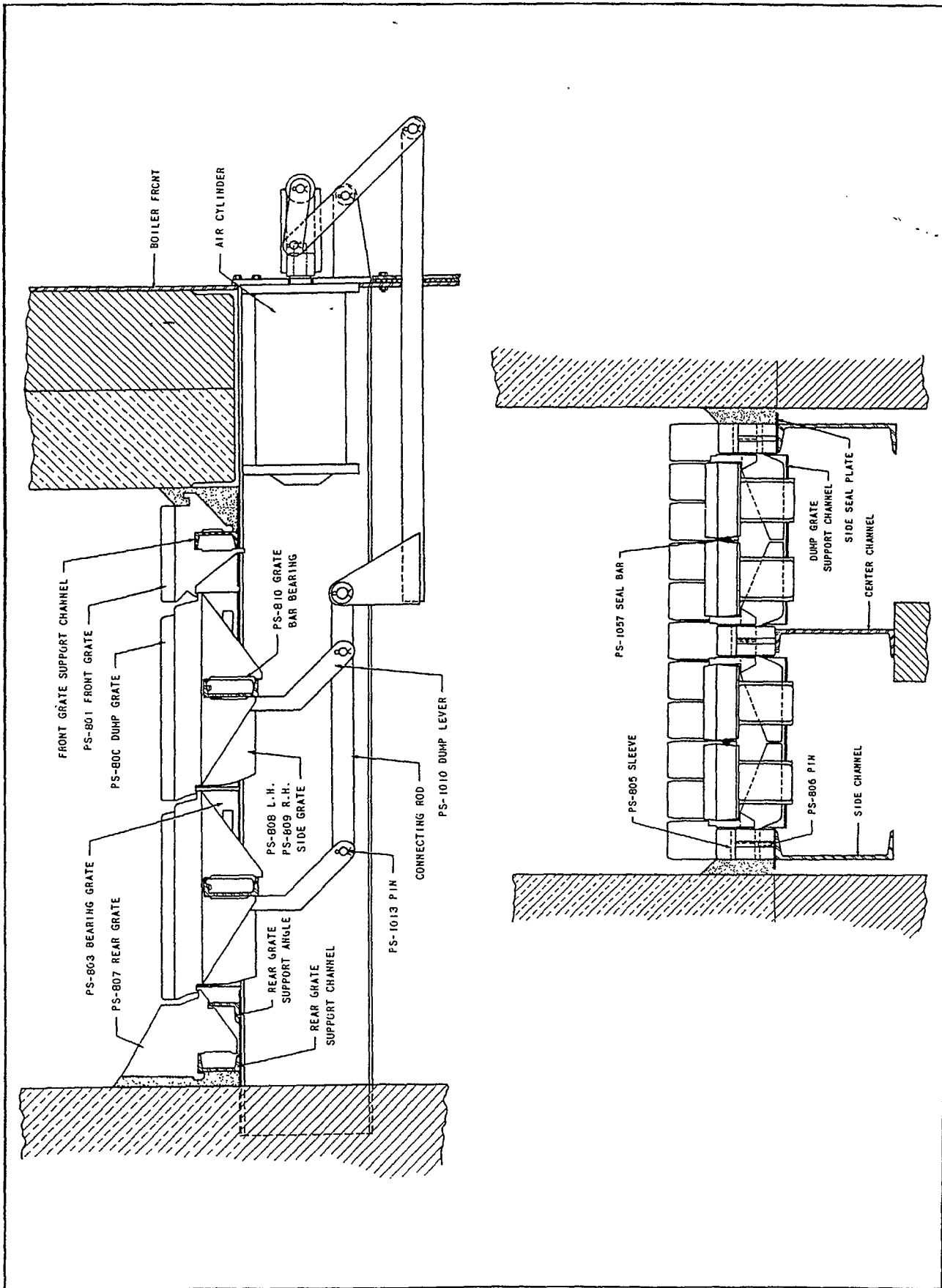
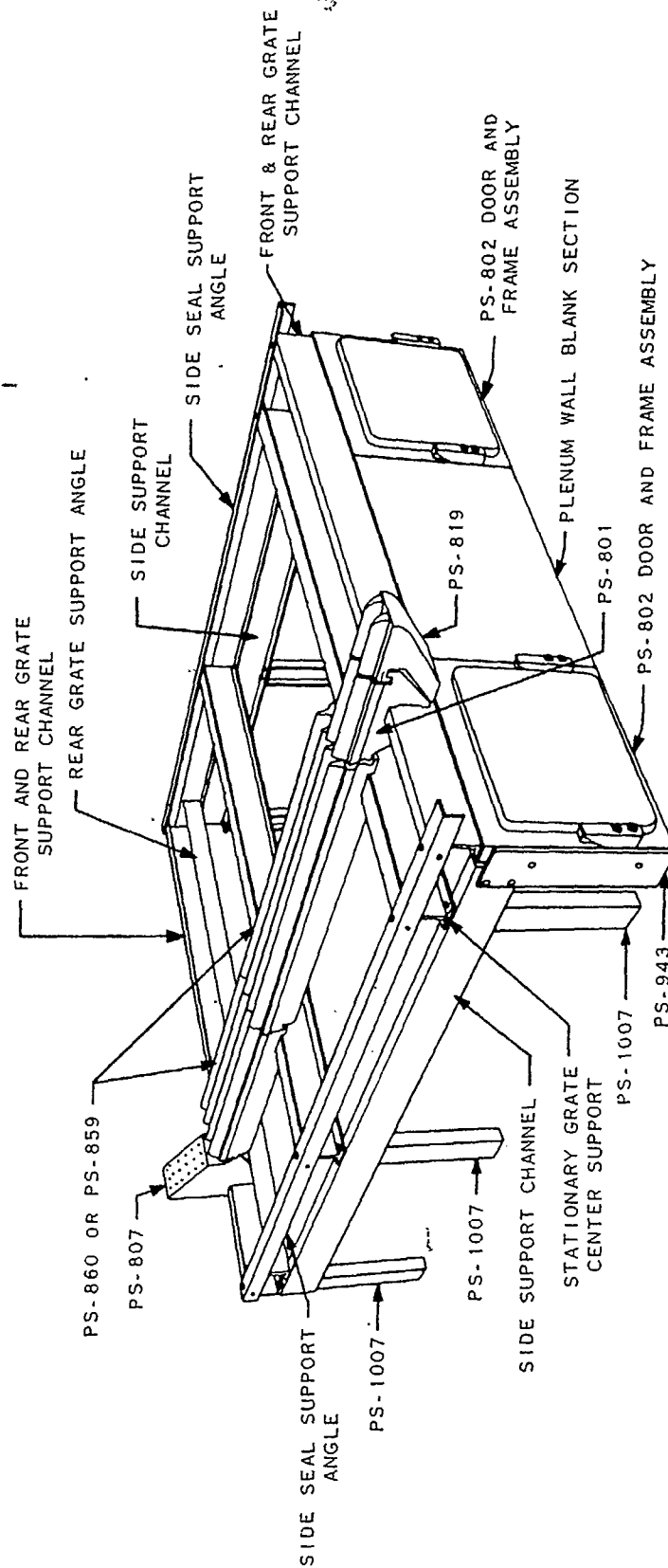


Figure 17 - Dump Grate Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number



IMPORTANT: Always specify stoker model number

REPLACEMENT PARTS

401 Series Pneumatic Spreader Stokers

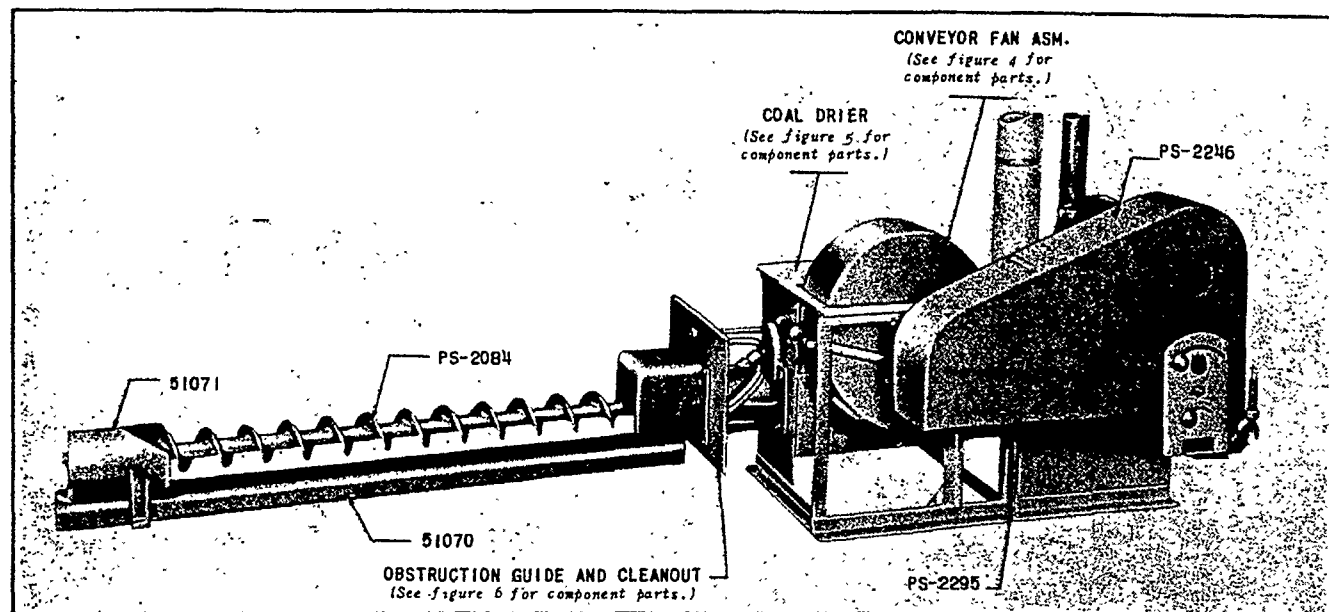


Figure 1 --PS-401 Series Pneumatic Spreader Stoker - Refer to Parts List I (Pg 10)

MODELS COVERED - 1949-1964

<u>MODEL</u>	<u>MODEL</u>
PS-75	PS-200
PS-110	PS-300
PS-160	PS-400

IMPORTANT: Always specify stoker model number and serial number when ordering.

GENERAL. Replacement parts for the 401 Series Pneumatic Spreader Stokers are listed and illustrated in this catalog. These units were first produced in 1949.

UNDERGRATE FAN UNITS. These units were equipped with undergrate fan units and an air duct with volumeter. Refer to Table II, page 15, for usage

of the items. Refer to figures 9, 10, 11, 12 and 13 and to Parts List III for identification of parts.

GRATE PARTS. These stokers were equipped with either stationary-type grates or power-operated dump grates. Refer to figures 16, 17 and 18 and to Parts List I for identification of parts.

THE WILL-BURT COMPANY

ORRVILLE, OHIO, U.S.A.

LIST OF CONTENTS

PARTS LISTS

	<u>Page</u>
Parts List I - Standard, Optional and Extra Equipment	10
Parts List II - PS Gear Case Assembly	15
Parts List III - Undergrate Fan Units and Air Duct Parts	21
Parts List IV - Conveying Fan Assembly	24

TABLES

Table I - Stoker and Conveying Fan Drive Data	9
Table II - Undergrate Fan Data.	20

LIST OF ILLUSTRATIONS

Figure 1 - PS-401 Series Pneumatic Spreader Stoker	1
Figure 2 - Front View of Stoker	3
Figure 3 - PS Gear Case Assembly	4 & 5
Figure 4 - Train View of Conveyor Fan Parts	6
Figure 5 - Coal Drier Parts.	7
Figure 6 - Obstruction Guide and Cleanout Parts	7
Figure 7 - Conveyor Elbow Assemblies	8
Figure 8 - Transfer Housing Cleanout Parts	8
Figure 9 - PG-4C Undergrate Fan Unit	17
Figure 10 - PG-50, 51, 52 and 53 Single Undergrate Fan Units	18
Figure 11 - Duplex Undergrate Fan Unit	18
Figure 12 - Internal Parts of Undergrate Fan Units	19
Figure 13 - Volumeter Air Duct Parts.	19
Figure 14 - PS-2413 Nozzle Assembly	25
Figure 15 - Coal Agitator Parts	25
Figure 16 - Miscellaneous Parts	26
Figure 17 - Dump Grate Parts	27
Figure 18 - Stationary Grate Parts	28

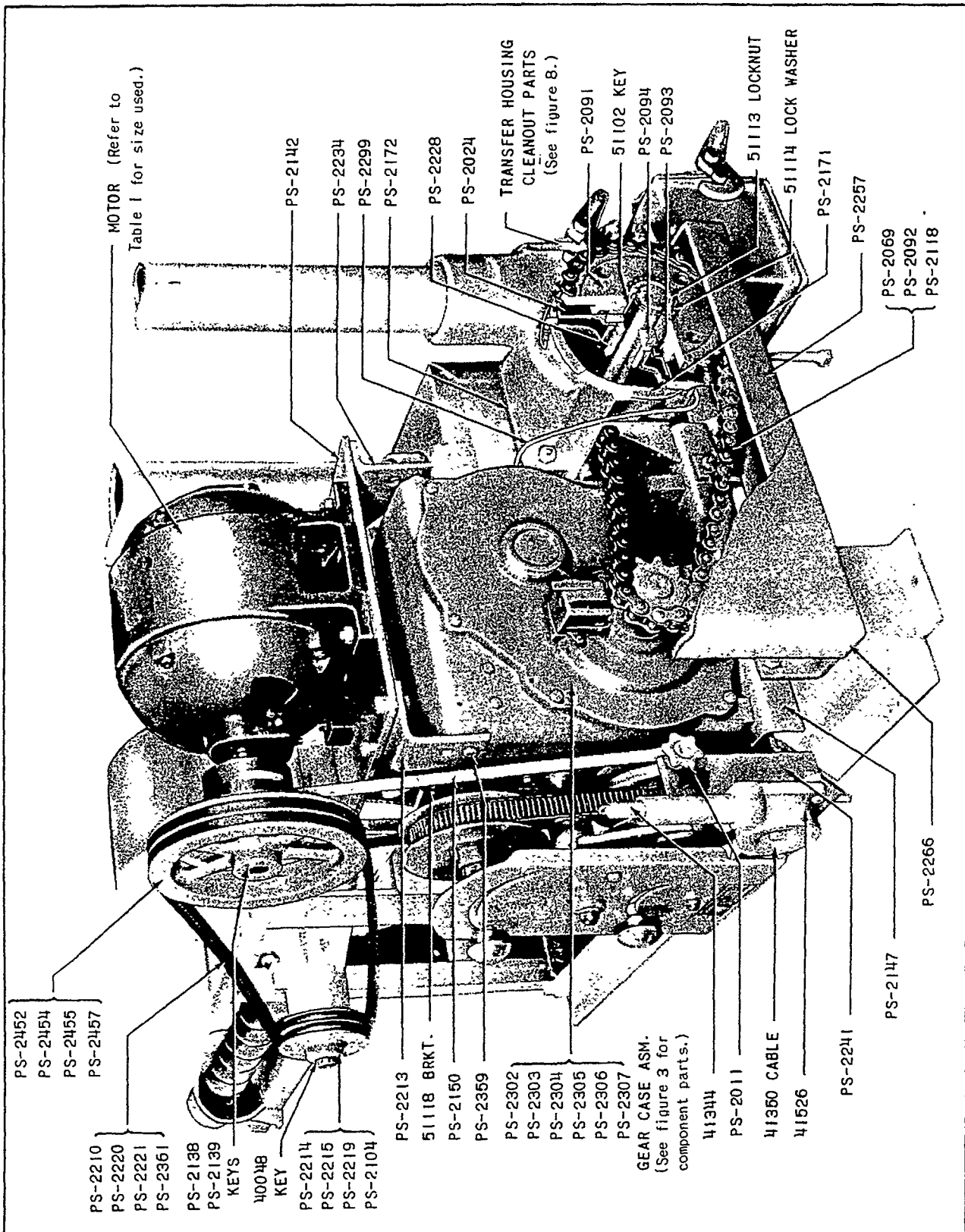


Figure 2 - Front View of Stoker - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

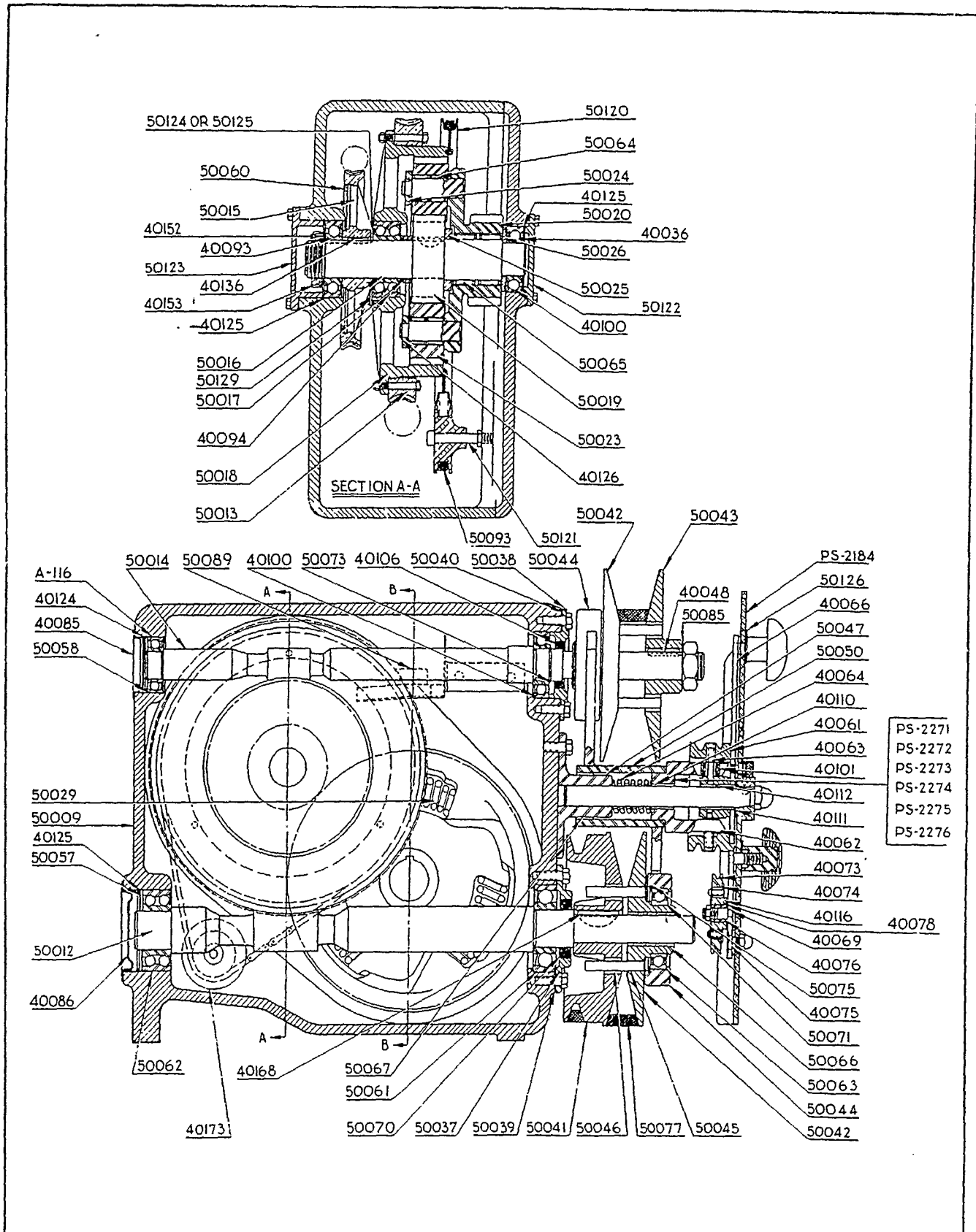


Figure 3 - PS Gear Case Assembly - Refer to Parts List II (Page 15)

IMPORTANT: Always specify stoker model number.

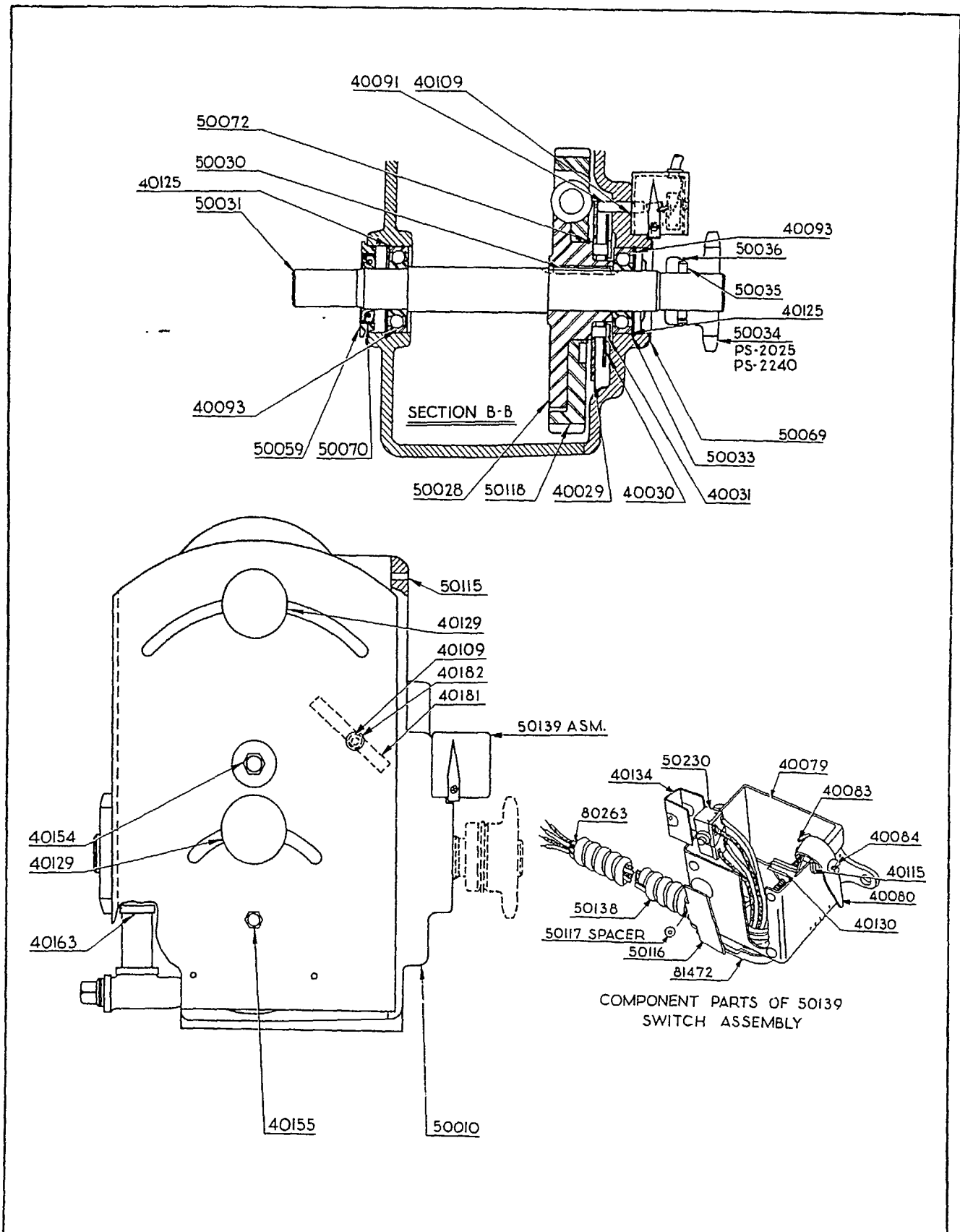
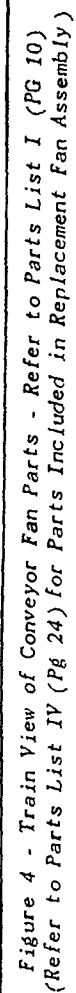


Figure 3 - PS Gear Case Assembly - Refer to Parts List II (Page 15)

IMPORTANT: Always specify stoker model number.



IMPORTANT: Always specify stoker model number.

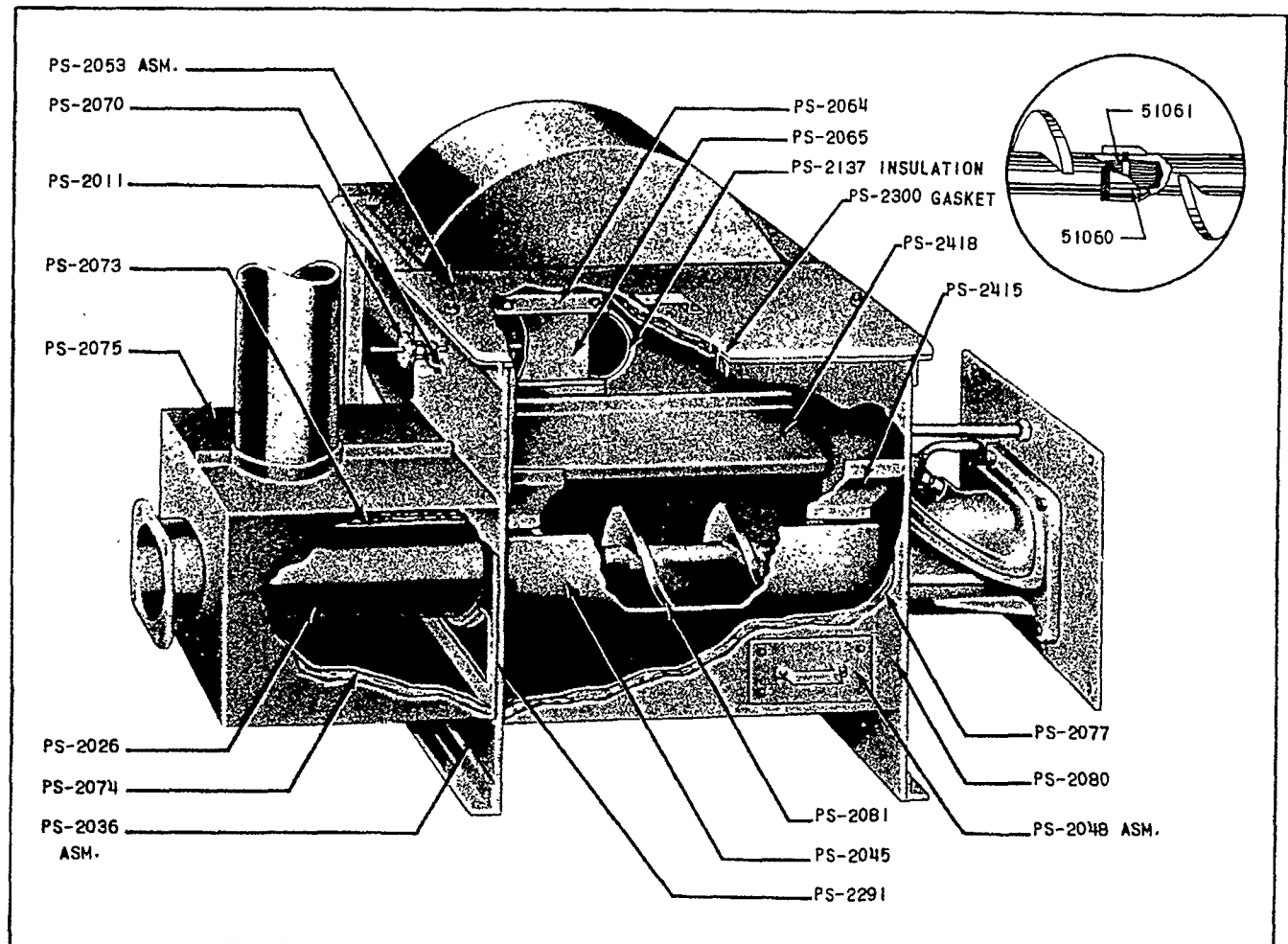


Figure 5 - Coal Drier Parts - Refer to Parts List I (Pg 10)

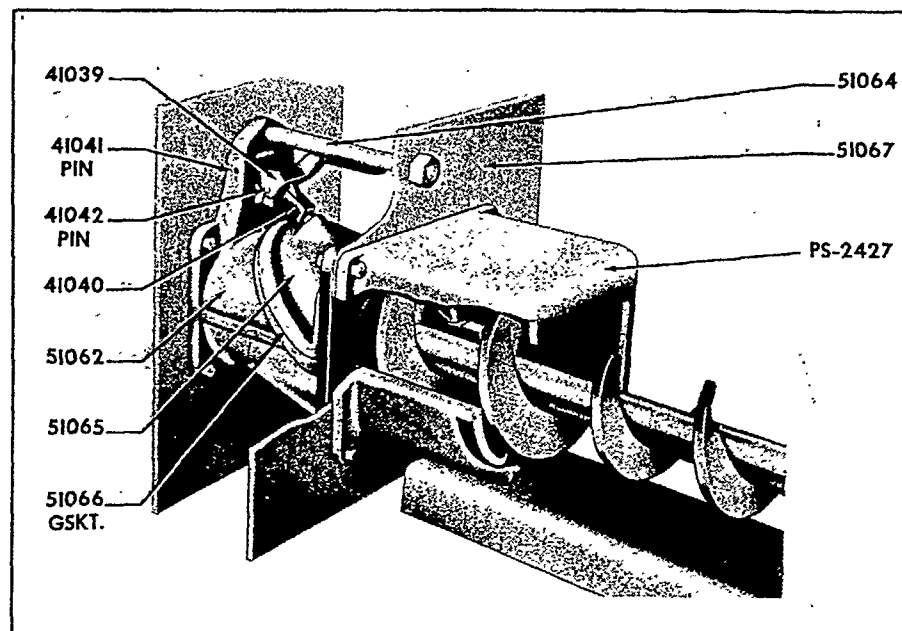


Figure 6 - Obstruction Guide and Cleanout Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

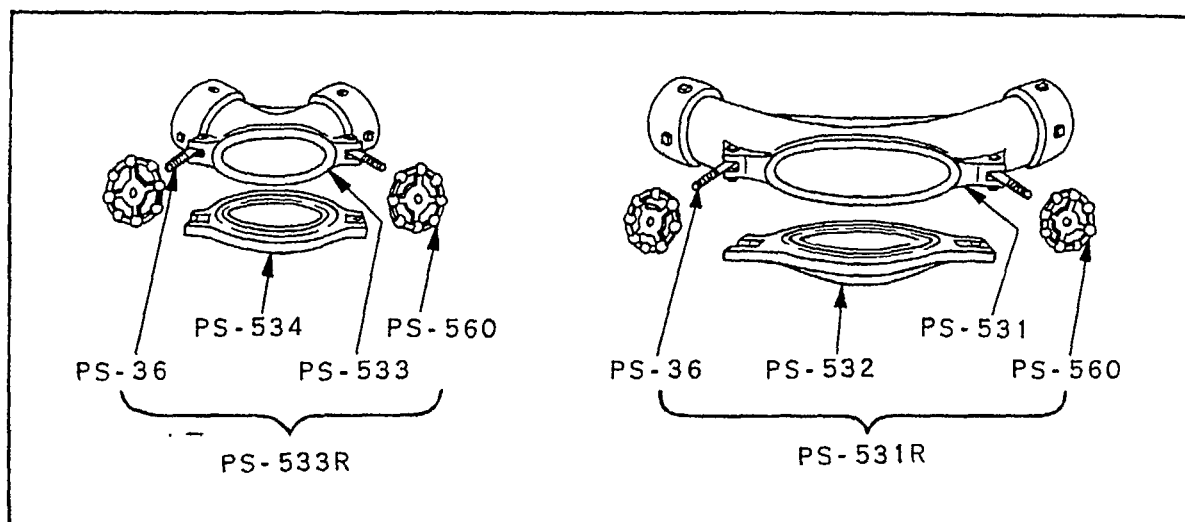


Figure 7 - Conveyor Elbow Assemblies - Refer to Parts List I (Pg 10)

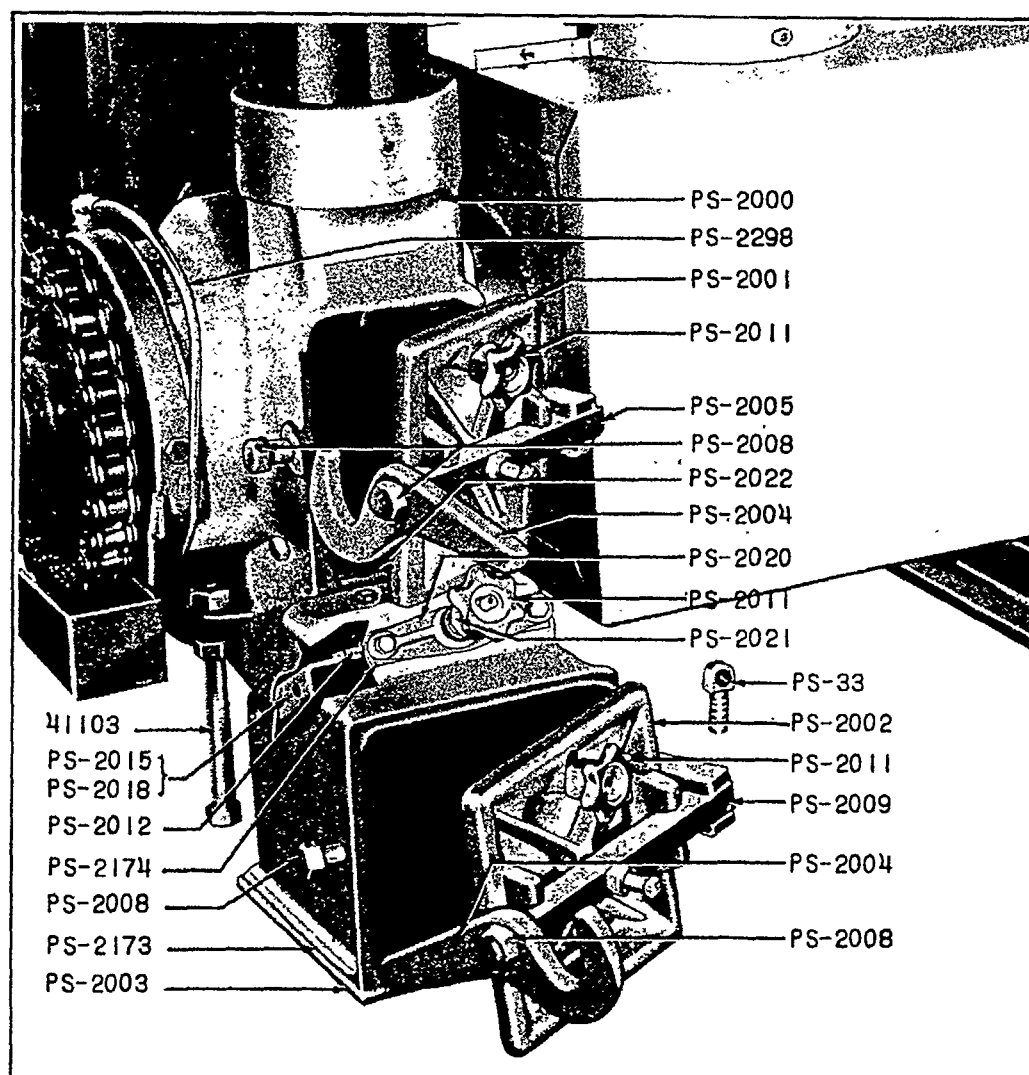


Figure 8 - Transfer Housing Cleanout Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number.

TABLE I
STOKER AND CONVEYING FAN DRIVE DATA

MODEL	PS-75-110-160				PS-200				PS-300		PS-400	
	FAN ARRANGEMENT	NO. 1 STANDARD	NO. 2 OPTIONAL USING 200-PS FAN DRIVE	NO. 3 OPTIONAL USING 300-PS FAN DRIVE	NO. 4 OPTIONAL USING 400-PS FAN DRIVE	NO. 2 STANDARD	NO. 3 OPTIONAL USING 300-PS FAN DRIVE	NO. 4 OPTIONAL USING 400-PS FAN DRIVE	NO. 3 STANDARD	NO. 4 OPTIONAL OVER SPEED FAN DRIVE	NO. 3 STANDARD	NO. 4 OPTIONAL OVER SPEED FAN DRIVE
MOTOR - 1725 R.P.M. H.P.		3	5	5	5	5	5	5	5	7-1/2	5	7-1/2
MOTOR SHEAVE ASM. - I.F. NO.		PS-2454	PS-2452	PS-2455		PS-2452	PS-2455		PS-2455	PS-2457	PS-2455	PS-2457
MERCURY CLUTCH ASM.		PS-2449		PS-2451			PS-2451		PS-2451	PS-2450	PS-2451	PS-2450
		1		1-1/8			1-1/8		1-1/8	1-1/4	1-1/8	1-1/4
				7-1/2			7-1/2			7-1/2		7-1/2
MOTOR SHEAVE TO FAN		PS-2189	PS-2453	PS-2456		PS-2453	PS-2456		PS-2456	PS-2456		PS-2456
		9-7/8	10-7/8	13-1/4		10-7/8	13-1/4		PS-2104	13-1/4		13-1/4
FAN SHEAVE		PS-2214	PS-2215	PS-2104	PS-2215	PS-2215	PS-2104	PS-2215	PS-2104	PS-2215	PS-2104	PS-2215
		6	6	6-1/2	6	6	6-1/2	6	6-1/2	6	6-1/2	6
FAN BELT CABLE CONSTRUCTION		PS-2221		PS-2220	PS-2361	PS-2221	PS-2220	PS-2361	PS-2220	PS-2361	PS-2220	PS-2361
		B-90		B-97	B-93	B-90	B-97	B-93	B-97	B-93	B-97	B-93
QUANTITY		1	2	2	2	2	2	2	2	2	2	2
FAN SPEED - R.P.M.		2940	3250	3660	4000	3250	3660	4000	3660	4000	3660	4000
STOKER SHEAVE			50041				50041		50041		50041	
			6-1/2				6-1/2		6-1/2		6-1/2	
STOKER BELT			PS-2150				PS-2150		PS-2150		PS-2150	
			B-60				B-60		B-60		B-60	
GEAR CASE CAM		(PS-2272-PS-75)	(PS-2273-PS-110)	(PS-2274-PS-160)			PS-2275		PS-2276		PS-2276	
			50034				50034		PS-2240		PS-2025	
DRIVE SPROCKET			11				11		16		21	
R.P.M. - MAX.		(7.6-PS-75)	(11.1-PS-110)	(16.3-PS-160)			20.4		21.0		21.0	
DRIVEN SPROCKET			PS-2091				PS-2091		PS-2091		PS-2091	
			28				28		28		28	
DRIVE CHAIN			PS-2118				PS-2118		PS-2069		PS-2092	
			58				58		60		62	
COAL WORM R.P.M. - MAX.		(3.0-PS-75)	(4.4-PS-110)	(6.4-PS-160)			8.0		12.0		16.0	

IMPORTANT: Always specify stoker model number.

PARTS LIST I

INCLUDES ALL STANDARD, OPTIONAL AND EXTRA PARTS FOR 401 SERIES PNEUMATIC SPREADER STOKERS.

REFER TO PARTS LIST II FOR COMPONENT PARTS OF GEAR CASE ASSEMBLY NUMBERS SHOWN ON THIS LIST.

REFER TO PARTS LIST III FOR COMPONENT PARTS OF UNDERGRATE FAN UNITS AND AIR DUCT ASSEMBLIES.

REFER TO PARTS LIST IV FOR COMPONENT PARTS INCLUDED WITH REPLACEMENT CONVEYING FAN ASSEMBLY.

REFER TO TABLE I FOR PARTS USED ON STANDARD AND OPTIONAL CONVEYING FAN AND STOKER DRIVE ARRANGEMENTS.

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
9&12	PG-4C	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
10,11&12	PG-50	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
10,11&12	PG-51	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
10&12	PG-52	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
10&12	PG-53	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
8	PS-33	Hinge Eyebolt.	2
13	PS-379VR	Air Duct and Volumeter Assembly. Used with PG-4C Undergrate Fan Unit. Refer to Parts List III for component parts.	As Required
13	PS-381VR	Air Duct and Volumeter Assembly. Used with PG-50, 51, 52 and 53 Undergrate Fan Units. Refer to Parts List III for component parts.	As Required
16	PS-468	Standard Pin Hole Grate Bar - 8 x 24 In..	As Required
16	PS-469	Standard Pin Hole Grate Bar - 8 x 36 In..	As Required
16	PS-487	Grate Support I-Beam for Standard Pin Hole Grates. (Specify number of notches and length required.)	As Required
16	PS-488	Grate Support Channel for Standard Pin Hole Grates (Specify number of notches and length required.)	As Required
7	PS-531R	Elbow Asm.. . . . Consists of: 2 - PS-36 Handwheel Eyebolt 1 - PS-531 Elbow 1 - PS-532 Elbow Cover 2 - PS-560 Handwheel	As Required
7	PS-533R	Elbow Asm.. . . . Consists of: 2 - PS-36 Handwheel Eyebolt 1 - PS-533 Elbow 1 - PS-534 Elbow Cover 2 - PS-560 Handwheel	As Required
17	PS-800	Dump Grate.	As Required
17&18	PS-801	Front Grate	As Required
18	PS-802	Cleanout Door Assembly.	As Required
17	PS-803	Bearing Grate.	As Required
17	PS-805	Side Grate Sleeve	As Required

IMPORTANT: Always specify stoker model number.

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
17	PS-806	Side Grate Pin	As Required
17&18	PS-807	Rear Grate.	As Required
17	PS-808	Side Grate - L.H.	As Required
17	PS-809	Side Grate - R.H.	As Required
17	PS-810	Grate Bar Bearing	As Required
18	PS-819	Ash Well Grate	As Required
16	PS-822	Hot Gas Outlet Assembly	1
		Consists of:	
		1 - PS-823 Hot Gas Outlet	
		1 - PS-824 Air Shutter	
16	PS-849	Grate Support Assembly for Standard Pin Hole Grates (Specify number of notches and length required.)	As Required
18	PS-859	Stationary Grate - 36 in.	As Required
18	PS-860	Stationary Grate - 24 in.	As Required
18	PS-943	Side Plate.	As Required
18	PS-1007	Grate Leg Assembly	As Required
17	PS-1010	Dump Lever.	As Required
17	PS-1013	Pin	As Required
13	PS-1018VR	Air Duct and Volumeter Assembly - 24 in. Long Used with PG-4C Undergrate Fan Unit. Refer to Parts List III for component parts.	As Required
13	PS-1020	Air Duct and Volumeter Assembly - 24 in. Long Used with PG-50, 51, 52 and 53 Undergrate Fan Units. Refer to Parts List III for component parts.	As Required
17	PS-1057	Seal Bar	As Required
8	PS-2000	Transfer Housing.	1
8	PS-2001	Transfer Cleanout Upper Cover	1
8	PS-2002	Transfer Cleanout Lower Cover	1
8	PS-2003	Transfer Housing Bottom Plate	1
8	PS-2004	Hand Latch.	2
8	PS-2005	Upper Hinge Bar	1
8	PS-2008	Shoulder Screw	4
8	PS-2009	Lower Hinge Bar	1
2,5&8	PS-2011	Knob.	5
8	PS-2012	Shutoff Gate	1
8	PS-2015	Gate Guide - L.H.	1
8	PS-2018	Gate Guide - R.H.	1
8	PS-2020	Shutoff Gate - Stuffing Box	1
8	PS-2021	Packing Nut Gland	1
8	PS-2022	Shield Plate Assembly	1
2	PS-2024	Coal Worm Bearing Housing.	1
5	PS-2026	Drier Inlet Housing.	1
5	PS-2036	Drier Enclosure Assembly	1
5	PS-2045	Drier Sheet Assembly	1
5	PS-2048	Drier Cleanout Cover Assembly	1
		Consists of:	
		1 - V-690 Handle	
		1 - PS-2050 Cleanout Plate	
		1 - PS-2052 Insulation - 3/8 in.	
		1 - PS-2235 Insulation - 1/4 in.	
		1 - PS-2236 Gasket	
		1 - PS-2237 Retainer Plate	
5	PS-2053	Access Plate Assembly	1
		Consists of:	
		1 - PS-2054 Access Plate	
		1 - PS-2056 Access Plate Shield	
		2 - PS-2079 Insulation	
		1 - V-690 Handle	
5	PS-2064	Upper Damper Guide	1
5	PS-2065	Damper Blade	1
2	PS-2069	Chain (Used on PS-300 only.)	1
5	PS-2070	Damper Adjusting Wheel Bracket	1
5	PS-2073	Drier Inlet Top Insulation	2

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
5	PS-2074	Drier Inlet Insulation	6
5	PS-2075	Drier Inlet Wrapper Sheet	1
*	PS-2076	Drier Insulation 9" x 26" x 1-1/4"	2
5	PS-2077	Lower Side Drier Insulation.	1
*	PS-2078	Drier Insulation 3-1/4" x 26" x 1-1/4"	2
5	PS-2080	Drier Insulation Wrapper Sheet.	1
5	PS-2081	Drier Coal Worm.	1
1	PS-2084	Bin End Coal Worm	1
2	PS-2087	Motor Sheave Assembly (Obsolete - replace with PS-2455)	1
2	PS-2091	Sprocket	1
2	PS-2092	Drive Chain (Used on PS-400 only.)	1
2	PS-2093	Seal Gasket	1
2	PS-2094	Thrust Bearing	1
4	PS-2095	Fan Bearing Housing (Used With PS-2411 Fan Shaft Assembly)	1
4	PS-2097	Seal Ring.	2
4	PS-2098	Fan Shaft Bearing Oiler	1
4	PS-2099	Fan Bearing Housing Vent.	1
4	PS-2100	Water-Cooled Bearing Retainer	1
4	PS-2102	Fan Support Studs	3
4	PS-2103	Fan Spacer	3
2	PS-2104	Fan Sheave (6-1/2 in. O.D.)	**
4	PS-2111	Fan Inlet Cover Plate.	1
4	PS-2114	First Stage Fan Liner (Also Order (1) PS-2485 & (1) PS-2484 Fan Housing Seal)	1
4	PS-2116	Interstage Fan	1
4	PS-2117	Second Stage Fan Liner (Also Order (1) PS-2485 Fan Housing Seal)	1
2	PS-2118	Drive Chain (Used on PS-75, 110, 160 and 200.)	1
4	PS-2119	Conveyor Fan Housing	1
4	PS-2123	Back Plate Insulation - 3/8 in. Thick	1
4	PS-2124	Back Plate Insulation - 1/4 in. Thick	1
4	PS-2125	Insulation Cover Sheet	1
4	PS-2127	Air Duct	1
4	PS-2131	Air Duct Gasket.	2
4	PS-2132	Wrapper Sheet	1
5	PS-2137	Drier Insulation - Fan Side.	1
2	PS-2138	Motor Shaft Key - 2 in. Long	1
2	PS-2139	Motor Sheave Key - 1 in. Long	1
2	PS-2142	Motor Plate	1
2	PS-2147	Gear Case Support	1
2	PS-2150	Gear Case Drive Belt	1
4	PS-2160	Fan Bearing Housing Support.	1
2	PS-2171	Bearing Housing Gasket	1
2	PS-2172	Worm Housing Gasket	1
8	PS-2173	Bottom Plate Gasket	1
8	PS-2174	Stuffing Box Gasket	1
4	PS-2175	Air Duct Clamp Gasket.	1
4	PS-2176	Balancing Hub Assembly Includes: 3 - PS-2362 Balancing Weight	1
16	PS-2177	Coal Worm Sprocket Spanner	1
2	PS-2210	Fan Drive Belt Used on Model PS-75.	1
2	PS-2213	Motor Plate Hinge	1
2	PS-2214	Fan Sheave Used on Models PS-110 and PS-160.	**
2	PS-2215	Fan Sheave	**
2	PS-2219	Fan Sheave Used on Model PS-75.	**

* Not illustrated.

** Refer to Table I for usage.

IMPORTANT: Always specify stoker model number.

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
2	PS-2220	Fan Drive Belt	2*
2	PS-2221	Fan Drive Belt	*
2	PS-2222	Motor Sheave Assembly (Obsolete - replace with PS-2455)	1*
2	PS-2224	Motor Sheave Assembly (Obsolete - replace with PS-2454)	1*
4	PS-2226	Air Duct Clamp	1
2	PS-2228	Coal Worm Housing Bearing	1
2	PS-2234	Motor Plate Hinge	1
2	PS-2241	Sheave Housing Support	1
1	PS-2246	Belt Guard	1
4	PS-2254	Belt Guard Support Clip	2
2	PS-2257	Oil Drain Pan	1
2	PS-2266	Chain Guard	1
5	PS-2291	Drier Inlet Gasket.	1
2	PS-2295	Belt Guard Bracket.	1
8	PS-2298	Overflow Tube	1
2	PS-2299	Cooling Tube Assembly.	1
5	PS-2300	Access Cover Gasket	1
2	PS-2302	Gear Case Assembly.	1
2	PS-2303	Gear Case Assembly. Used on Model PS-110. (See figure 3 and Parts List II for component parts.)	1
2	PS-2304	Gear Case Assembly. Used on Model PS-160. (See figure 3 and Parts List II for component parts.)	1
2	PS-2305	Gear Case Assembly. Used on Model PS-200. (See figure 3 and Parts List II for component parts.)	1
2	PS-2306	Gear Case Assembly. Used on Model PS-300. (See figure 3 and Parts List II for component parts.)	1
2	PS-2307	Gear Case Assembly. Used on Model PS-400. (See figure 3 and Parts List II for component parts.)	1
4	PS-2350	Seal Plate	2
4	PS-2353	Dust Check Ring.	1
1	PS-2357	Cooling Tube Clamp.	1
2	PS-2359	Motor Plate Hinge Screw	2
2	PS-2361	Fan Drive Belt	2*
2	PS-2365	Motor Sheave Assembly (Obsolete - replace with PS-2457)	1*
15	PS-2379	Coal Agitator Assembly Consists of: 1 - PS-2380 Agitator Bracket 2 - PS-2391 Retainer Ring 1 - PS-2385 Clamp Plate 2 - V-5252 Agitator Wheel Arm 1 - PS-2386 Agitator Wheel - R.H. 2 - 17023 Agitator Bearing 1 - PS-2387 Agitator Wheel - L.H. 4 - 17027 Thrust Bearing 2 - PS-2390 Shaft 4 - 17028 Bearing	1
4	PS-2410	Retaining Ring	1
4	PS-2411	Fan Shaft Assembly (Used With PS-2095 Fan Bearing Housing) Consists of: 2 - PS-1123 Fan Shaft Bearing 2 - PS-2460 Oiler Guide N.D. #87507 1 - 38298 Spacer 1 - PS-2105 Fan Shaft 4 - 41020 Retainer Ring	1
14	PS-2413	Nozzle Assembly. Consists of: 1 - PS-44 Nozzle Hinge Pin 2 - PS-309 Sleeve Cover Plate 1 - PS-45 Nozzle Control Rod 2 - PS-311 Support U Bolt 1 - PS-47 Nozzle Handwheel 1 - PS-2180 Nozzle End 1 - PS-81 Nozzle Body 1 - PS-2181 1-in. Deflector 1 - PS-308A Support Assembly 1 - PS-2182 1-1/2-in. Deflector 1 - PS-2183 2-1/2-in. Deflector	1
5	PS-2415	Baffle - R.H.	1
5	PS-2418	Baffle - L.H.	1
6	PS-2427	Obstruction Guide Housing	1
4	PS-2430	Fan Housing Seal	1
15	PS-2431	Coal Agitator Shaft	2

* Refer to Table I for usage.

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
15	PS-2432	Thrust Bearing	4
15	PS-2433	Bearing	4
4	PS-2434	Fan Wheel.	2
4	PS-2440	Sliding Nipple Assembly	1
2	PS-2452	Motor Sheave Assembly.	*1
2	PS-2454	Motor Sheave Assembly.	*1
2	PS-2455	Motor Sheave Assembly.	*1
2	PS-2457	Motor Sheave Assembly.	*1
4	PS-2459	Conveying Fan Assembly	1
		Refer to Parts List IV for Component Parts	
4	PS-2461	Balance Ring.	2
4	PS-2462	Inner Balance Ring.	1
4	PS-2463	Fan Bearing Housing (Used With PS-2468 Fan Shaft Asm.).	1
4	PS-2465	Gasket.	1
4	PS-2468	Fan Shaft Assembly (Used With PS-2463 Fan Bearing Housing)	1
		Consists of:	
		4 - 40120 Retainer Ring 1 - 38298 Spacer	
		1 - PS-2105 Fan Shaft 1 - PS-2466 Bearing - N.D. #97507	
		2 - PS-2460 Oiler Guide 1 - PS-2467 Bearing - N.D. #97607	
4	PS-2484	Fan Housing Seal - (Used With New Style PS-2114 First Stage Liner Sheet)	1
4	PS-2485	Fan Housing Seal - (Used With New Style First and Second Stage Liner)	2
16	S-1009R	Ash Hoe and Handle - 1-in. Pipe	1
		Used with pin-hole type grates.	
16	S-1011R	Clinker Rake and Handle - 1-in. Pipe.	1
16	S-1012	Refractory Tile Slab - 3" x 6" x 18".	1
		Used over nozzle opening in front wall.	
17	S-1049	Air Cylinder Assembly for Dump Grates	As Required
16	S-1050	Ash Hoe	1
16	S-1050R	Ash Hoe and Handle - 1-in. Pipe	1
		Used with ribbed-type grates.	
16	S-1057R	Clinker Hook and Handle - 3/4-in. Pipe	1
16	S-1058R	Slice Bar and Handle - 1-in. Pipe.	1
16	S-1059R	Slice Bar and Handle - 1-1/2-in. Pipe	1
16	S-1098	Hot Gas Temperature Indicator - 12-in.	1
17	S-1099	Steam Cylinder Assembly for Dump Grates.	As Required
2&4	40048	Key.	3
4	40125	Retainer Ring	2
6	41039	Toggle Handle	1
6	41040	Toggle Link	1
6	41041	Lock Pin	1
6	41042	Lock Pin	1
8	41043	Motor Adjusting Bolt	2
2	41344	Cable Spring.	1
2	41350	Quadrant Cable Assembly	1
2	41526	Sheave and Housing Assembly.	1
		Consists of:	
		1 - 41231 Sheave Housing	
		1 - 40076 Spacer 1 - 41232 Sheave Housing Cover	
		2 - 40078 Washer 1 - 41527 Cable Sheave	
5	51060	Worm Coupling Nut	1
5	51061	Worm Coupling Plug.	1
6	51062	Worm Cleanout Housing.	1
6	51064	Cleanout Stud	1
6	51065	Worm Cleanout Housing Cover.	1
6	51066	Worm Cleanout Housing Gasket	1
6	51067	Bin Plate.	1
1	51070	Bin Channel	1
1	51071	Bin Worm Bearing	1
2	51102	Key.	1
2	51113	Lock Nut	1
2	51114	Lock Washer	1
2	51118	Motor Adjusting Bracket	1
2	80348	Flare Nut (Not Illustrated).	2
4 - 2	80689	Brass Elbow	4

* Refer to Table I for usage

IMPORTANT: Always specify stoker model number.

PARTS LIST II

COMPONENT PARTS OF PS GEAR CASE ASSEMBLIES

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
3	A-116	Ball Bearing (N.D.-7505).	1
3	PS-2025	Drive Sprocket - 21 Teeth Used on Model PS-400 only.	1
3	PS-2184	Quadrant	1
3	PS-2240	Drive Sprocket - 16 Teeth Used on Model PS-300 only.	1
3	PS-2271	Cam.	1
3	PS-2272	Cam.	1
3	PS-2273	Cam.	1
3	PS-2274	Cam.	1
3	PS-2275	Cam.	1
3	PS-2276	Cam.	1
*	PS-2292	Cam Adjusting Washer	As Required
3	40029	Collector Plate.	1
3	40030	Finger Spring	1
3	40031	Shoulder Screw	3
3	40036	Bearing Stop Cover Shim	As Required
3	40048	Spring Key	3
3	40061	Cam Follower.	1
3	40062	Cam Roller	2
3	40063	Cam Roller Stud.	2
3	40064	Spring.	1
3	40066	Coal Feed Quadrant Arm	1
3	40069	Air Adjustment Quadrant Arm.	1
3	40073	Air Adjustment Sheave.	1
3	40074	Eccentric Bushing	1
3	40075	Air Adjustment Pivot Screw	1
3	40076	Air Adjustment Spacer.	1
3	40078	Air Adjustment Washer.	4
3	40085	Plug	1
3	40086	Plug	1
3	40091	Overload Release Pin	1
3	40093	Ball Bearing (N.D. 7507).	3
3	40094	Ball Bearing (N.D. 55507)	1
3	40100	Ball Bearing (N.D. 7506).	2
3	40101	Ball Bearing (N.D. 88035)	2
3	40106	Oil Seal (Nat. 140328)	1
3	40109	Oil Seal (Vitalic 6318)	2
3	40110	Bearing (Oilite A-956)	1
3	40111	Bearing (Oilite T-1303-1)	1
3	40112	Bearing (Oilite)	1
3	40116	Bearing (Oilite A-1167-2)	1
3	40124	Retainer Ring (Eaton International)	1
3	40125	Retainer Ring (Eaton International)	3
3	40126	Retainer Ring (Waldes Truarc)	3
3	40129	Knob	2
3	40136	Low Speed Shaft Key	1
3	40152	Washer (ABEC-W-07).	1
3	40153	Lock Nut (ABEC-N-07)	1
3	40154	Acorn Nut - Upper	1
3	40155	Acorn Nut - Lower	1
3	40163	Oil Gauge.	1
3	40168	Key.	1
3	40173	Chain Retainer Pulley.	1
*	40176	Name Plate	1
3	40181	Quadrant Arm Stop	1
3	40182	Retainer Screw	1
3	50009	Gear Case.	1
3	50010	Gear Case Cover.	1

* Not illustrated.

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
3	50012	Main Worm Shaft.	1
3	50013	Main Worm Gear	1
3	50014	Differential Worm Shaft	1
3	50015	Differential Worm Gear	1
3	50016	Low Speed Shaft.	1
3	50017	Spacer.	1
3	50018	Internal Gear	1
3	50019	Sun Pinion Gear.	1
3	50020	Spider Assembly.	1
3	50023	Planet Gear	3
3	50024	Inner Spider.	1
3	50025	Thrust Washer	1
3	50026	Thrust Washer	1
3	50028	Back Gear Hub	1
3	50029	Spring.	3
3	50030	Drive Shaft Key.	1
3	50031	Drive Shaft	1
3	50033	Drive Shaft Shim	As Required
3	50034	Drive Sprocket - 11 Teeth Used on PS-50, 75, 110, 160 and 200.	1
3	50035	Shear Pin.	As Required
3	50036	Shear Pin Retainer.	1
3	50037	Main Worm Bearing Retainer	1
3	50038	Differential Worm Bearing Retainer	1
3	50039	Main Worm Bearing Retainer Gasket.	1
3	50040	Differential Worm Bearing Retainer Gasket	1
3	50041	Input Sheave.	1
3	50042	Sliding Sheave	2
3	50043	Adjusting Sheave	1
3	50044	Bearing Housing.	2
3	50045	Sheave Drive Pin	4
3	50046	Bushing	4
3	50047	Belt Shifter Support	1
3	50050	Belt Shifter Assembly. Consists of: 1 - 50097 Belt Shifter - Front Half 1 - 50098 Belt Shifter - Rear Half	1
3	50057	Spring Washer	1
3	50058	Spring Washer	1
3	50059	Oil Seal Housing	1
3	50060	Snap Ring.	1
3	50061	Ball Bearing (N.D. 7607).	1
3	50062	Ball Bearing (N.D. 5507).	1
3	50063	Ball Bearing (N.D. 993L09).	2
3	50064	Needle Bearing (Tor. B-1210X).	6
3	50065	Needle Bearing (Tor. B-2414X0H).	2
3	50066	Bearing (Oilite A-1213-2).	2
3	50067	Bearing (Oilite A-1623).	1
3	50068	Oil Seal (Nat. 50135).	1
3	50069	Oil Seal (Nat. 50452).	1
3	50070	Oil Seal (Nat. 50055-S).	1
3	50071	Retainer Ring (Wal. NAS 51-175).	2
3	50072	Retainer Ring (Wal. No. 51-325).	1
3	50073	Retainer Ring (Wal. NAS 51-118).	1
3	50075	Retainer Ring (Wal. NAS 50-300).	2
3	50077	Wide V Belt	1
3	50085	Lock Washer	1
3	50089	Oil Distributor.	1
3	50093	Oil Distributor Chain.	1
3	50115	Dowel Pin	2
3	50118	Gear	1
3	50120	Oil Elevating Pulley	1
3	50121	Chain Retainer Pulley Screw.	1
3	50122	Cover Bearing Stop.	1
3	50123	Case Bearing Stop	1
3	50124	Worm Wheel Shim	As Required

IMPORTANT: Always specify stoker model number.

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
3	50125	Worm Wheel Shim.	As Required
3	50126	Pointer	2
3	50129	Internal Gear Bearing Retainer.	1
3	50139	Overload Switch Assembly.	1
		Consists of:	
		1 - 40079 Box	
		1 - 40080 Actuator Lever	
		1 - 40083 Spring	
		1 - 40084 Spring	
		1 - 40115 Bearing	
		1 - 40130 Nut	
		1 - 40134 Insulation	
		1 - 50116 Reset Lever	
		1 - 50117 Reset Spacer	
		1 - 50138 Conduit	
		1 - 50230 Switch Asm.	
		2 - 80263 Anti-Short Bushing	
		1 - 81472 90° Connector	

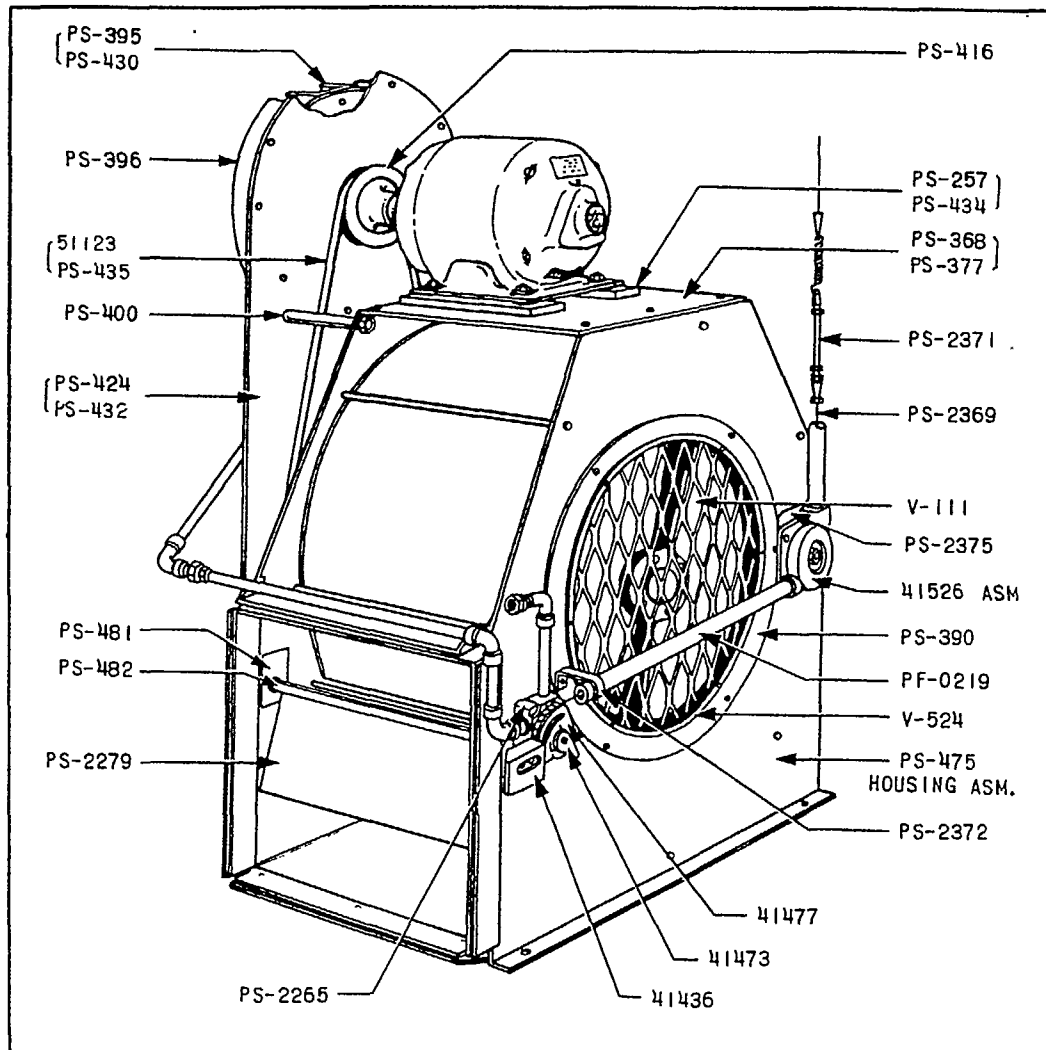


Figure 9 - PG-4C Undergrate Fan Unit - Refer to Parts List III (Pg 24)

401 SERIES PNEUMATIC SPREADER STOKER

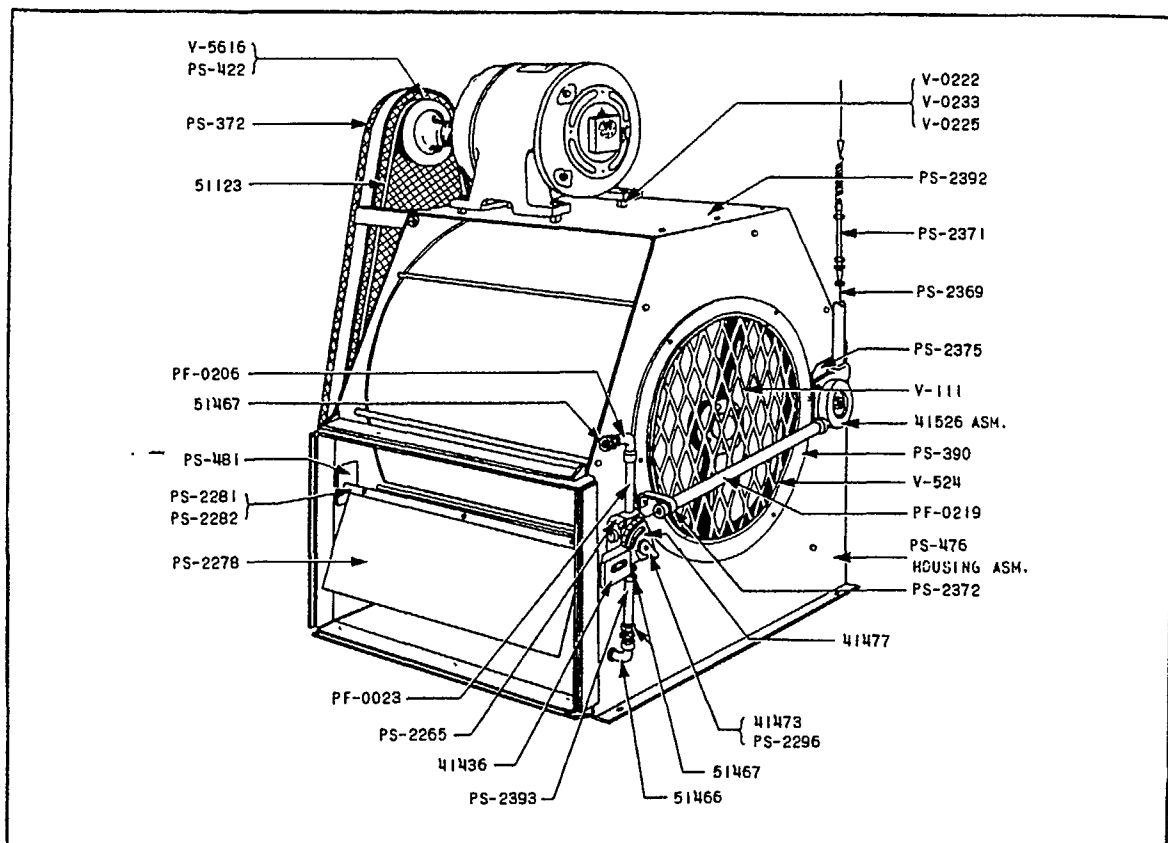


Figure 10 - PG-50, 51, 52 and 53 Single Undergrate Fan Units - Refer to Parts List III (Pg 21)

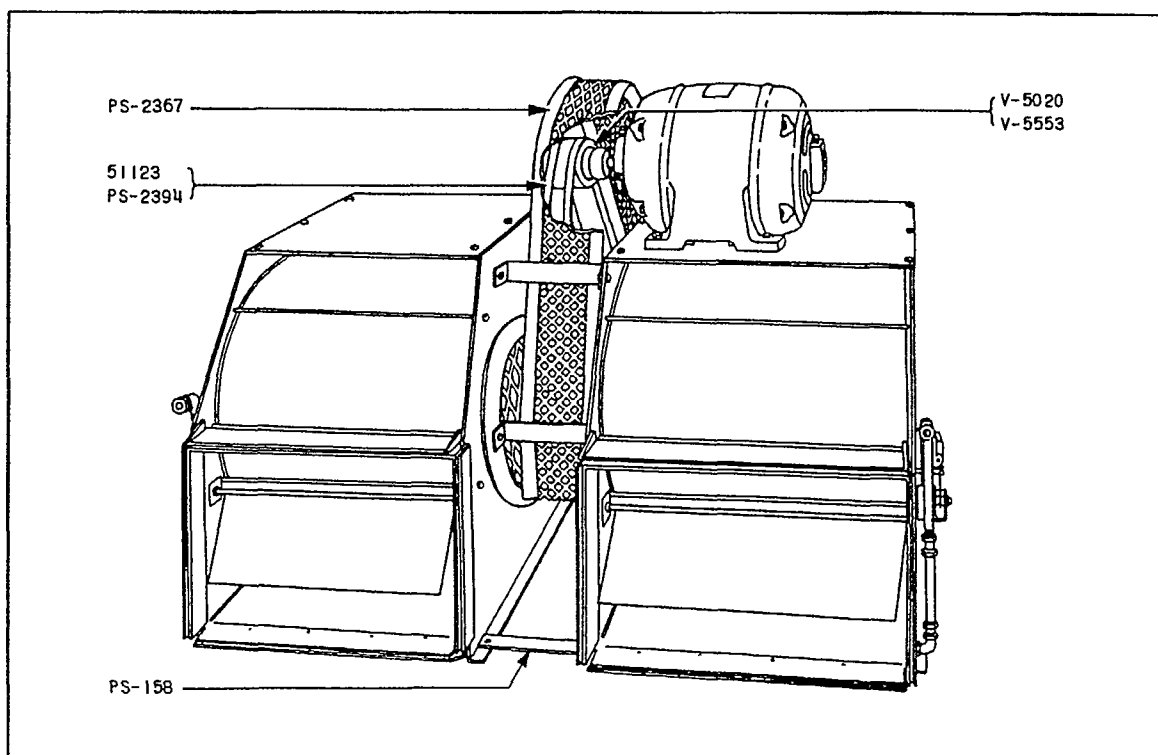


Figure 11 - Duplex Fan Unit - Refer to Parts List III (Pg 21)

IMPORTANT: Always specify stoker model number.

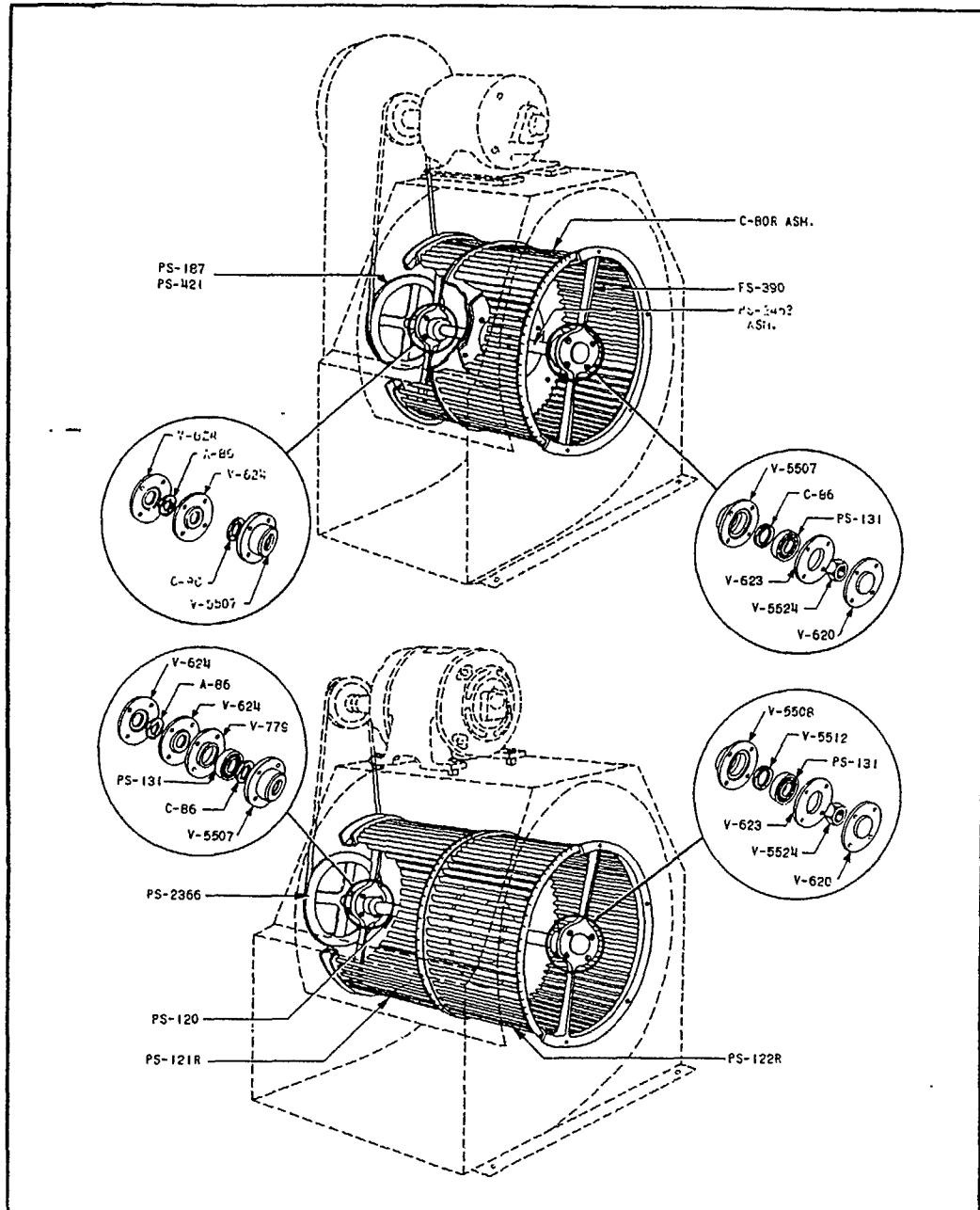


Figure 12 - Internal Parts of Undergrate Fan Units - Refer to Parts List III (Pg 21)

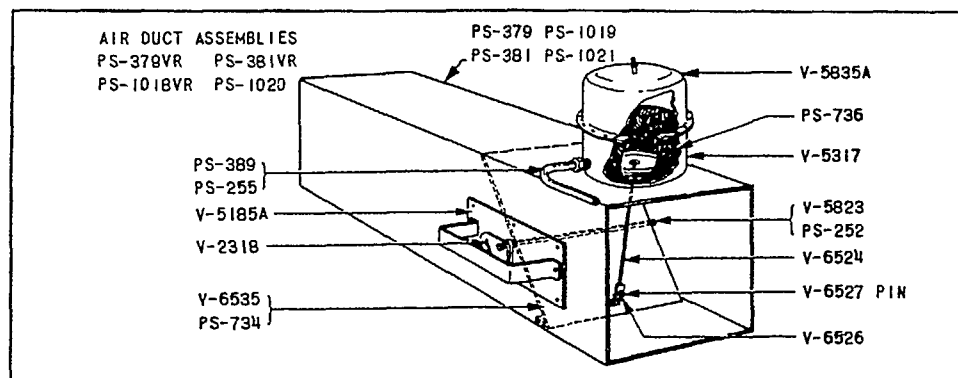


Figure 13 - Volumeter Air Duct Parts - Refer to Parts List III (Pg 21)

IMPORTANT: Always specify stoker model number

TABLE 11
UNDERGATE FAN DATA

STOKER SIZE TYPE OF UNDERGATE FAN	PS-75				PS-110				PS-160				PS-200				PS-300			
	STANDARD 60 CYCLE OVERSPEED	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	STANDARD 60 CYCLE OVERSPEED	STANDARD 60 CYCLE OVERSPEED	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	STANDARD 60 CYCLE OVERSPEED	STANDARD 60 CYCLE OVERSPEED	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	STANDARD 60 CYCLE OVERSPEED	STANDARD 60 CYCLE OVERSPEED	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	STANDARD 60 CYCLE OVERSPEED	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	STANDARD 60 CYCLE OVERSPEED	OPTIONAL 60 CYCLE OVERSPEED
FAN UNIT ASSEMBLY MOTOR BALL BEARING TYPE 220/440 VOLT 3 PHASE	PG-4C 1 HP	PG-4C 2 HP	PG-4C 1 HP	PG-50 (112 HP)	PG-50 (112 HP)	PG-50 (112 HP)	PG-50 (112 HP)	PG-50 (112 HP)	PG-50 (112 HP)	PG-50 (112 HP)	PG-50 (112 HP)	PG-50 (112 HP)	PG-50 (112 HP)	PG-50 (112 HP)	PG-50 (112 HP)	PG-50 (112 HP)	PG-50 (112 HP)	PG-50 (112 HP)	PG-50 (112 HP)	PG-50 (112 HP)
SHAFT	3/4"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
MOTOR I.F. NO. NO. OF GROOVES IN SHEAVE	PS-416	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421	PS-421
NO. OF GROOVES USED	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
DRIFT	5 29/32	7 1/2	7 1/2	6 1/10	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
SIZE	3/4"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
QUANTITY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
FAN SHEAVE I.F. NO. NO. OF GROOVES	PS-187	PS-187	PS-187	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366
O.D.	11"	11"	11"	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
FAN SPEED...R.P.M.	900	1100	900	1200	1400	1400	1185	1200	1400	1400	1185	1170	1415	1415	1185	1200	1400	1400	1185	1185

IMPORTANT: Always specify stoker model number

PARTS LIST III

COMPONENT PARTS OF UNDERGRATE FAN UNITS AND VOLUMETER AIR DUCT ASSEMBLIES.
SEE TABLE II FOR USAGE AND DATA REGARDING UNDERGRATE FANS.

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D				
			PG 40	PG 50	PG 51	PG 52	PG 53
12	A-86	Felt Washer Drive End	1	2	2	2	2
12	C-80R	Fan Wheel Assembly	1				
		Consists of:					
		1 - C-80 Fan Hub					
		1 - V-5611 Fan Wheel Spacer					
		1 - V-5613A Fan Wheel - 4 x 14-1/2 in.					
		1 - V-5614A Fan Wheel - 7 x 14-1/2 in.					
12	C-86	Felt Washer Drive End	2	1	1	2	2
*	PF-0020	1/2-14 x 1-3/4 in. Nipple	2				
*	PF-0022	1/2-14 x 3 in. Nipple	1				
*	PF-0023	1/2-14 x 4 in. Nipple	1	1	1	2	2
*	PF-0025	1-14 x 15-3/4 Pipe	1				
10	PF-0206	90° Ell		2	2	4	4
9&10	PF-0219	Cable Pipe	1	1	1	2	2
*	PF-0235	Bushing - 1/4-in. x 1/2-in.		1	1	2	2
12	PS-120	Fan Shaft		1	1	2	2
12	PS-121R	Fan Wheel - R.H.		1	1	2	2
		7 in. x 14-1/2 in.					
12	PS-122R	Fan Wheel - L.H.		1	1	2	2
		7 in. x 14-1/2 in.					
12	PS-131	Fan Shaft Bearing.	1	2	2	4	4
11	PS-158	Lower Tie Strap				2	2
12	PS-187	Fan Sheave	1				
9	PS-257	Motor Spacing Bar.	2				
*	PS-325	Belt Guard Spacer.	2				
9	PS-368	Motor Plate.	1				
10	PS-372	Belt Guard		1	1		
13	PS-379VR	Air Duct and Volumeter Assembly	1				
		Consists of:					
		1 - PS-379 Air Duct					
		1 - PS-389 Volumeter Air Tube					
		1 - PS-736 Volumeter Diaphragm					
		1 - V-2318 Regulator Rod Quadrant					
		1 - V-5185A Regulator Panel					
		1 - V-5317 Volumeter Lower Housing					
		1 - V-5823 Regulator Damper Rod					
		1 - V-5835A Volumeter Upper Housing					
		1 - V-6524 Diaphragm Piston Rod					
		1 - V-6526 Piston Rod Yoke					
		1 - V-6527 Yoke Pin					
		1 - V-6535 Regulator Blade					
13	PS-381VR	Air Duct and Volumeter Assembly	1	1	2	2	
		Consists of:					
		1 - PS-252 Regulator Damper Rod					
		1 - PS-255 Volumeter Air Tube					
		1 - PS-381 Air Duct					
		1 - PS-734 Regulator Blade					
		1 - PS-736 Volumeter Diaphragm					
		1 - V-2318 Regulator Rod Quadrant					
		1 - V-5185A Regulator Panel					
		1 - V-5317 Lower Volumeter Housing					
		1 - V-5835A Upper Volumeter Housing					
		1 - V-6524 Diaphragm Piston Rod					
		1 - V-6526 Piston Rod Yoke					
		1 - V-6527 Yoke Pin					
12	PS-390	Fan Inlet Ring.	2	2	2	4	4
9	PS-395	Fan Wheel	1				
9	PS-396	Fan Housing.	1				

* Not illustrated.

IMPORTANT: Always specify stoker model number

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D				
			PG 4C	PG 50	PG 51	PG 52	PG 53
9	PS-400	Belt Guard Spacer.	2				
9	PS-416	Motor Sheave	1				
10	PS-422	Motor Sheave			1		
9	PS-424	Belt Guard	1				
9	PS-475	Fan Housing Assembly.	1				
		Consists of:					
		1 - PS-352 Lower Tie Plate					
		1 - PS-354A Body Sheet					
		8 - PS-356 Tie Rod					
		2 - PS-357 Body Sheet Gasket					
		1 - PS-477 Leg - R.H.					
		1 - PS-478 Leg - L.H.					
10	PS-476	Fan Housing.		1	1	2	2
		Consists of:					
		2 - PS-357 Body Sheet Gasket					
		1 - PS-364 Body Sheet					
		8 - PS-366 Tie Rod					
		1 - PS-477A Leg - R.H.					
		1 - PS-478A Leg - L.H.					
9&10	PS-481	Indicator Vane Rod Bearing Plate.	1	1	1	2	2
9	PS-482	Indicator Vane Rod	1				
13	PS-1018VR	Air Duct and Volumeter Assembly - 24 In. Long	*				
		Consists of:					
		1 - PS-389 Volumeter Air Tube					
		1 - PS-736 Volumeter Diaphragm					
		1 - PS-1019 Air Duct - 24 in. Long					
		1 - V-2318 Regulator Rod Quadrant					
		1 - V-5185A Regulator Panel					
		1 - V-5317 Volumeter Lower Housing					
		1 - V-5823 Regulator Damper Rod					
		1 - V-5835A Volumeter Upper Housing					
		1 - V-6524 Diaphragm Piston Rod					
		1 - V-6526 Piston Rod Yoke					
		1 - V-6527 Yoke Pin					
		1 - V-6535 Regulator Blade					
13	PS-1020	Air Duct and Volumeter Assembly - 24 In. Long		*	*	*	*
		Consists of:					
		1 - PS-252 Regulator Damper Rod					
		1 - PS-255 Volumeter Air Tube					
		1 - PS-734 Regulator Blade					
		1 - PS-736 Volumeter Diaphragm					
		1 - PS-1021 Air Duct - 24 in. Long					
		1 - V-2318 Regulator Rod Quadrant					
		1 - V-5185A Regulator Panel					
		1 - V-5317 Lower Volumeter Housing					
		1 - V-5835A Upper Volumeter Housing					
		1 - V-6524 Diaphragm Piston Rod					
		1 - V-6526 Piston Rod Yoke					
		1 - V-6527 Yoke Pin					
9&10	PS-2265	Indicator Vane Frame.	1	1	1	2	2
10	PS-2278	Indicator Vane Plate.		1	1	2	2
9	PS-2279	Indicator Vane Plate.	1				
10	PS-2281	Indicator Vane Rod				2	2
10	PS-2282	Indicator Vane Rod		1	1		
10	PS-2296	Indicator Valve				1	1
12	PS-2366	Fan Sheave		1	1	2	2
11	PS-2367	Belt Guard				1	1
9&10	PS-2369	Indicator Cable	1	1	1	2	2
9&10	PS-2371	Cable Connector	1	1	1	2	2
9&10	PS-2372	Pipe Bracket	1	1	1	2	2
9&10	PS-2375	Sheave Housing Bracket	1	1	1	2	2
10	PS-2392	Motor Plate.		1	1	2	2
10	PS-2393	Indicator Air Tube		1	1	2	2

* As required

IMPORTANT: Always specify stoker model number

401 SERIES PNEUMATIC SPREADER STOKER

File No. 7-401
Page 23

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D				
			PG 4C	PG 50	PG 51	PG 52	PG 53
11	PS-2394	Belt - Goodyear B-62.					2
*	PS-2395	Button Plug.		1	1	2	2
12	PS-2458	Fan Shaft Assembly	1				
		Consists of:					
		1 - PS-131 Bearing					
		1 - PS-367 Fan Shaft					
9&10	V-111	Fan Screen	1	1	1	2	2
9&10	V-524	Fan Screen Ring	1	1	1	2	2
12	V-620	Bearing Cover Plate	1	1	1	2	2
12	V-623	Bearing Retainer	1	1	1	2	2
12	V-624	Bearing Cover Plate - Drive End	2	2	2	4	4
12	V-779	Bearing Retainer - Drive End		1	1	2	2
10	V-0222	Motor Plate Spacer			4	4	
		1/2-in. dia. x 1/4-in. pipe					
10	V-0225	Motor Plate Spacer					4
		1/2-in. dia. x 5/8-in. pipe					
10	V-0233	Motor Plate Spacer		4			
		1/2-in. dia. x 1-5/8-in. pipe					
11	V-5020	Motor Sheave				1	
12	V-5507	Bearing Retainer - Drive End	2	1	1	2	2
12	V-5508	Bearing Retainer		1	1	2	2
12	V-5512	Bearing Retainer Washer		1	1	2	2
12	V-5524	Fan Shaft Nut	1	1	1	2	2
11	V-5553	Motor Sheave					1
10	V-5616	Motor Sheave		1			
9&10	41436	Indicator Valve Body Weight	1	1	1	2	2
9&10	41473	Indicator Valve	1	1	1	1	1
9&10	41477	Indicator Valve Body.	1	1	1	2	2
9&10	41526	Housing and Sheave Assembly	1	1	1	2	2
		Consists of:					
		1 - 40076 Spacer					
		2 - 40078 Washer					
		1 - 41231 Sheave Housing					
		1 - 41232 Sheave Housing Cover					
		1 - 41527 Cable Sheave					
9,10&11	51123	Belt - Goodyear B-60.	1	1	1	1	
10	51466	Air Tube Elbow		1	1	2	2
10	51467	Air Tube Connector		3	3	6	6

PARTS USED WITH 25 CYCLE MOTOR ON PG-4C FAN UNIT

9	PS-377	Motor Plate.	1				
12	PS-421	Motor Sheave	1				
*	PS-425	Auxiliary Fan Housing Inner Plate	1				
*	PS-426	Auxiliary Fan Housing Band.	1				
*	PS-427	Auxiliary Fan Housing Outer Plate	1				
9	PS-430	Fan Wheel	1				
		1-in. x 14-1/2-in.					
9	PS-432	Belt Guard	1				
9	PS-434	Motor Spacing Bar.	2				
9	PS-435	Belt - Gates #3680	1				
	Motor	1 H.P., 1450 R.P.M., 220 Volt, 25 Cycle, 3 Phase, Ball-Bearing K-224 Frame					

PARTS USED WITH 60 CYCLE OVERSPEED ON PG-4C FAN UNIT

9	PS-377	Motor Plate.	1				
10	PS-421	Motor Sheave	1				
9	PS-432	Belt Guard	1				
9	PS-434	Motor Spacing Bar.	2				
9	PS-435	Belt - Gates #3680	1				
	Motor	2 H.P., 1750 R.P.M., 220 Volt, 60 Cycle, 3 Phase, K-224 Frame					

* Not illustrated.

IMPORTANT: Always specify stoker model number

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D				
			PG 4C	PG 50	PG 51	PG 52	PG 53
		OPTIONAL AIR DUCT EXTENSIONS AND ELBOWS FOR UNDERGRATE FAN UNITS					
*	PS-923	Air Duct Extension - 24-In.	**				
*	PS-927	Air Duct Extension - 48-In.	**				
*	PS-885	45° Elbow - Horizontal.	**				
*	PS-889	45° Elbow - Horizontal.		**	**	**	**
*	PS-893	90° Elbow - Horizontal.	**				
*	PS-898	90° Elbow - Horizontal.		**	**	**	**
*	PS-903	Vertical Elbow - Rectangular Outlet	**				
*	PS-907	Vertical Elbow - Rectangular Outlet		**	**	**	**
*	PS-911	Vertical Elbow - Square Outlet		**	**	**	**
*	PS-919	Vertical Elbow - Side Outlet.		**	**	**	**
*	PS-925	ATr Duct Extension - 24-In.		**	**	**	**
*	PS-929	Air Duct Extension - 48-In.		**	**	**	**
		* Not illustrated ** As Required					

PARTS LIST IV

COMPONENT PARTS OF PS-2470 REPLACEMENT CONVEYOR FAN ASSEMBLY

FIG. NO.	PART NO.	PART NAME	QUAN. REQ'D
	PF-0225	Butt Nipple - 3/4-14 X 1" Long-Straight Pipe Thread (Not illustrated) .	1
	PF-0358	Nipple - 1/4" X 6" Long- For PS-2098 Fan Shaft Oilier (Not illustrated) .	1
4	PS-2097	Seal Ring	1
4	PS-2098	Fan Shaft Oilier	1
4	PS-2099	Breather Tube	1
4	PS-2100	Water Cooled Bearing Retainer	1
4	PS-2102	Leveling Studs.	3
4	PS-2103	Fan Spacer.	3
4	PS-2111	Fan Inlet Plate	1
4	PS-2114	First Stage Liner	1
4	PS-2116	Fan Interstage.	1
4	PS-2117	Second Stage Liner.	1
4	PS-2119	Conveyor Fan Housing.	1
4	PS-2123	Back Plate Insulation - 3/8" Thick.	1
4	PS-2125	Insulation Cover Sheet.	1
4	PS-2132	Wrapper Sheet	1
4	PS-2160	Fan Bearing Housing Support	1
4	PS-2176	Balancing Hub Assembly.	1
4	PS-2350	Seal Plate.	1
4	PS-2353	Dust Check Ring	1
4	PS-2410	Retainer Ring	1
4	PS-2434	Fan Wheel	2
4	PS-2461	Balance Ring.	1
4	PS-2462	Inner Balance Ring.	1
4	PS-2463	Fan Bearing Housing	1
4	PS-2465	Gasket.	1
4	PS-2468	Fan Shaft Assembly.	1
		Consists of:	
		4 - 40120 Retainer Ring	
		1 - PS-2105 Fan Shaft	
		2 - PS-2460 Oilier Guide	
		1 - PS-2467 Bearing - N.D. #97607	
		1 - 38298 Spacer	
		1 - PS-2466 Bearing -N.D. #97507	
4	PS-2484	Fan Housing Seal.	1
4	PS-2485	Fan Housing Seal.	2
4	40048	Key	2
4	80348	Flare Nut (Not illustrated)	2
4	80689	Brass Elbow	2

IMPORTANT: Always specify stoker model number

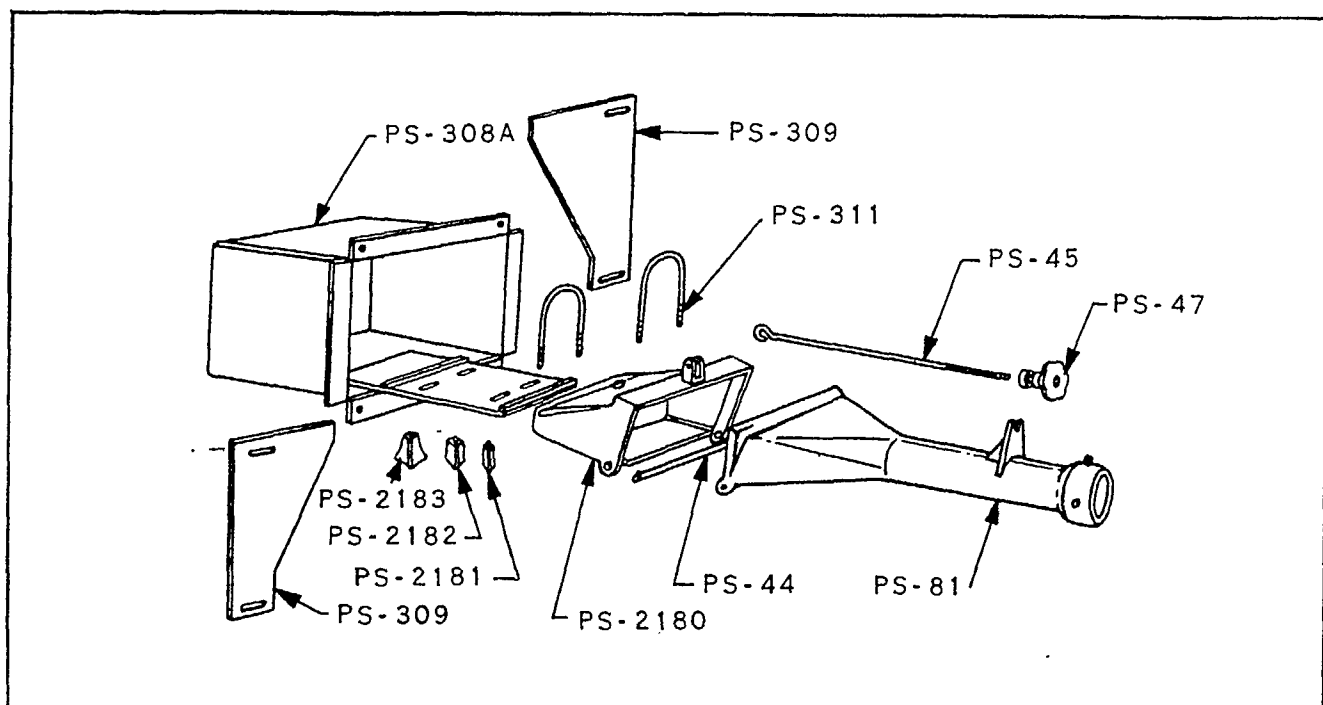


Figure 14 - PS-2413 Nozzle Assembly - Refer to Parts List I (Pg 10)

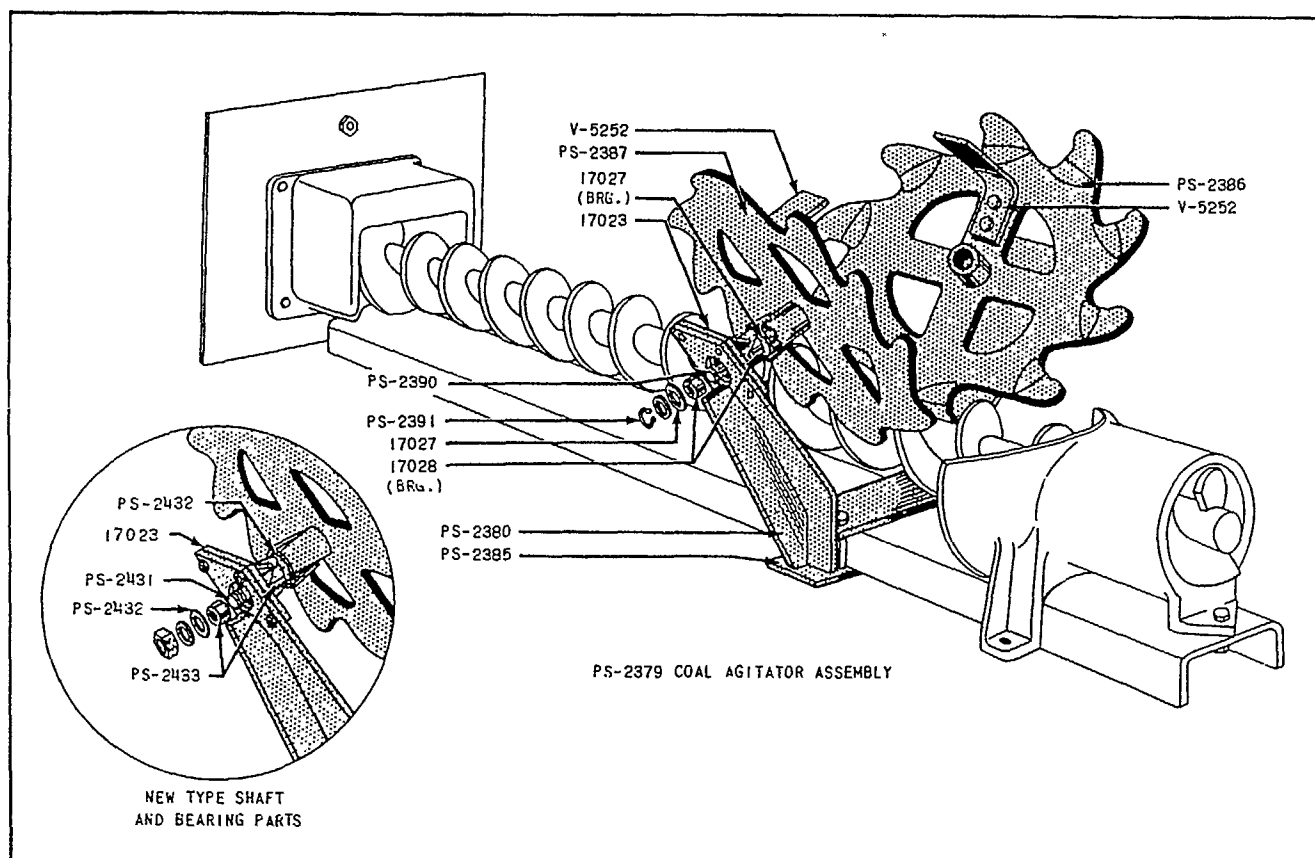


Figure 15 - Coal Agitator Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number

401 SERIES PNEUMATIC SPREADER STOKER

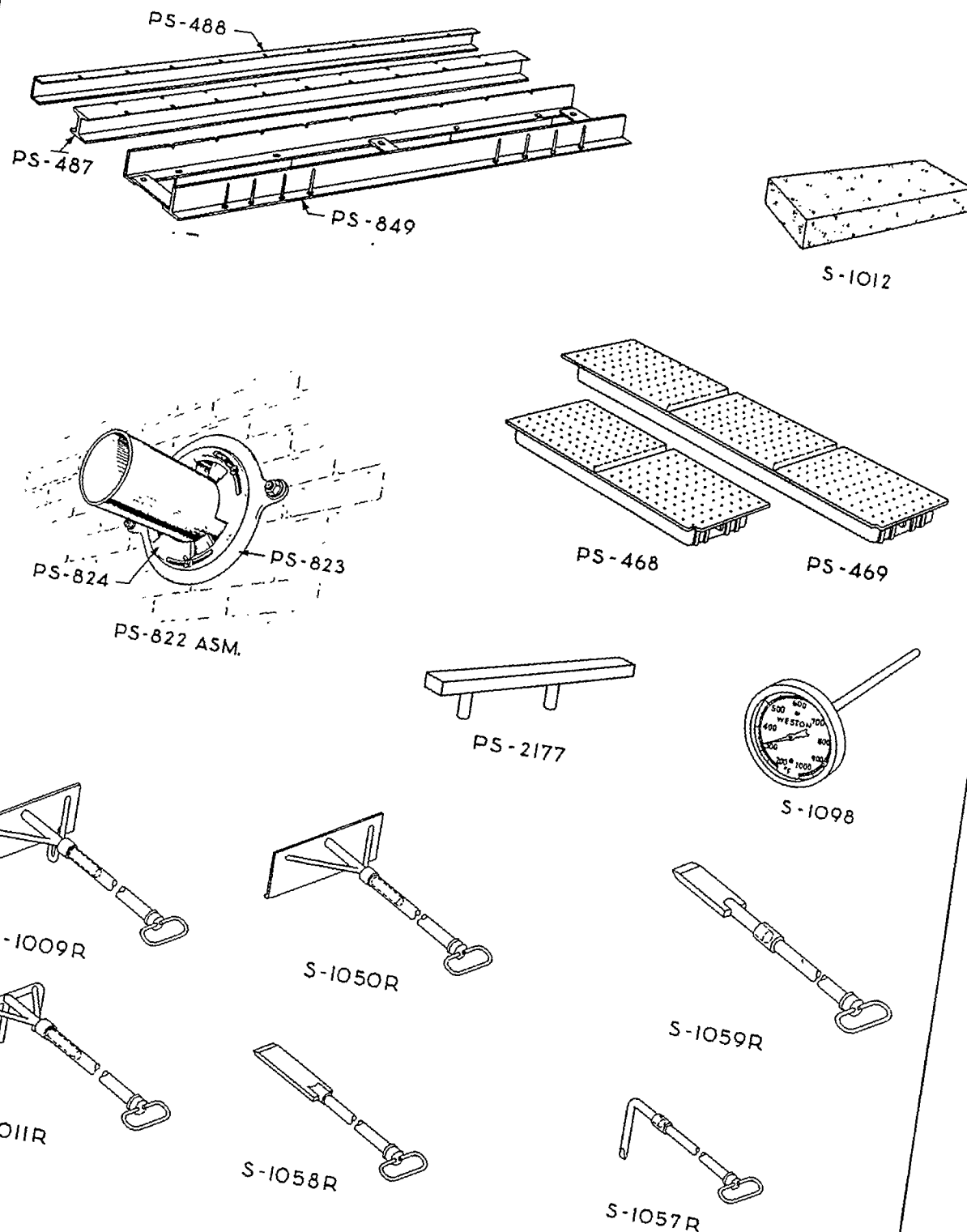


Figure 16 - Miscellaneous Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number

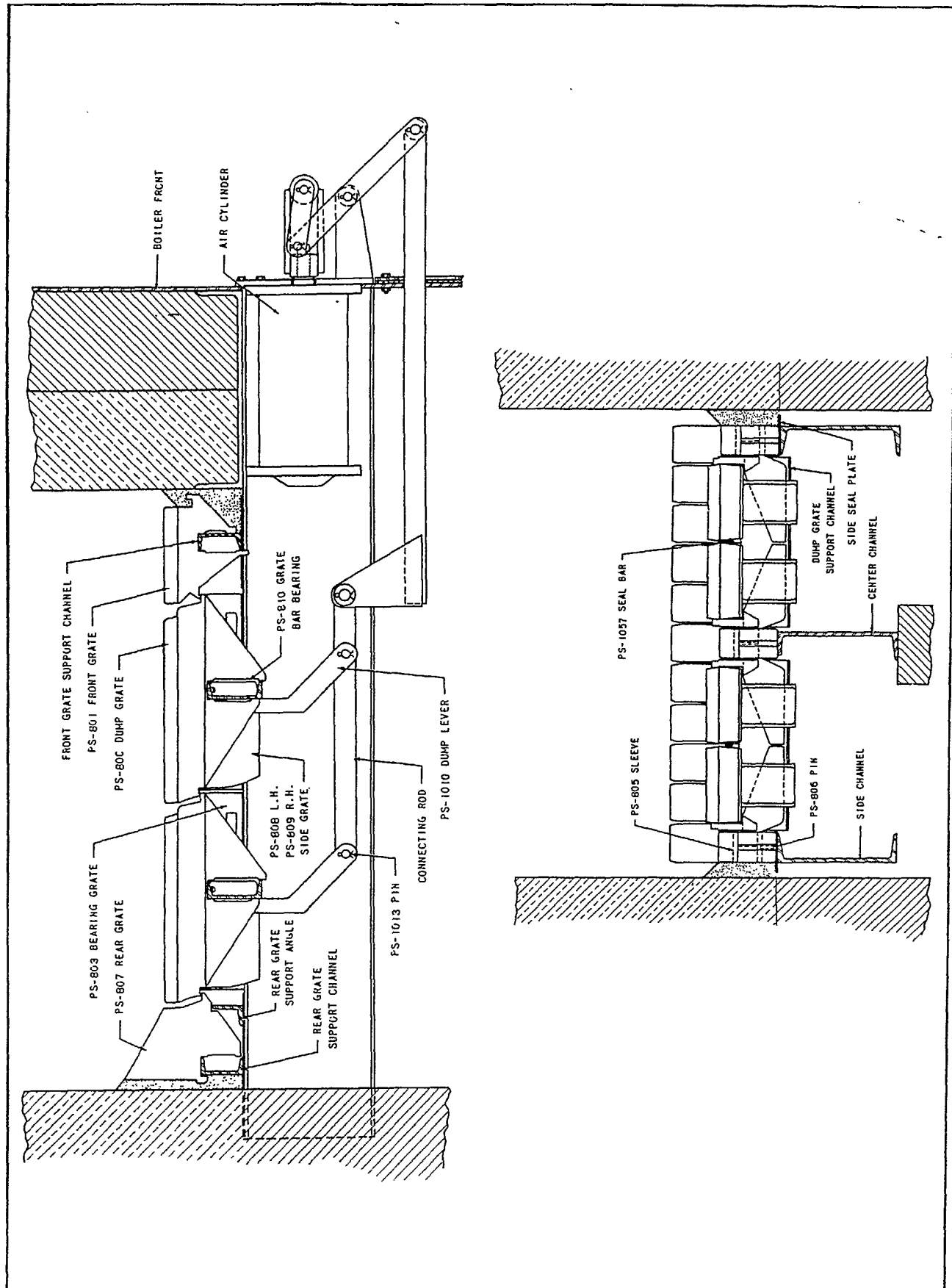


Figure 17 - Dump Grate Parts - Refer to Parts List I (Pg 10)

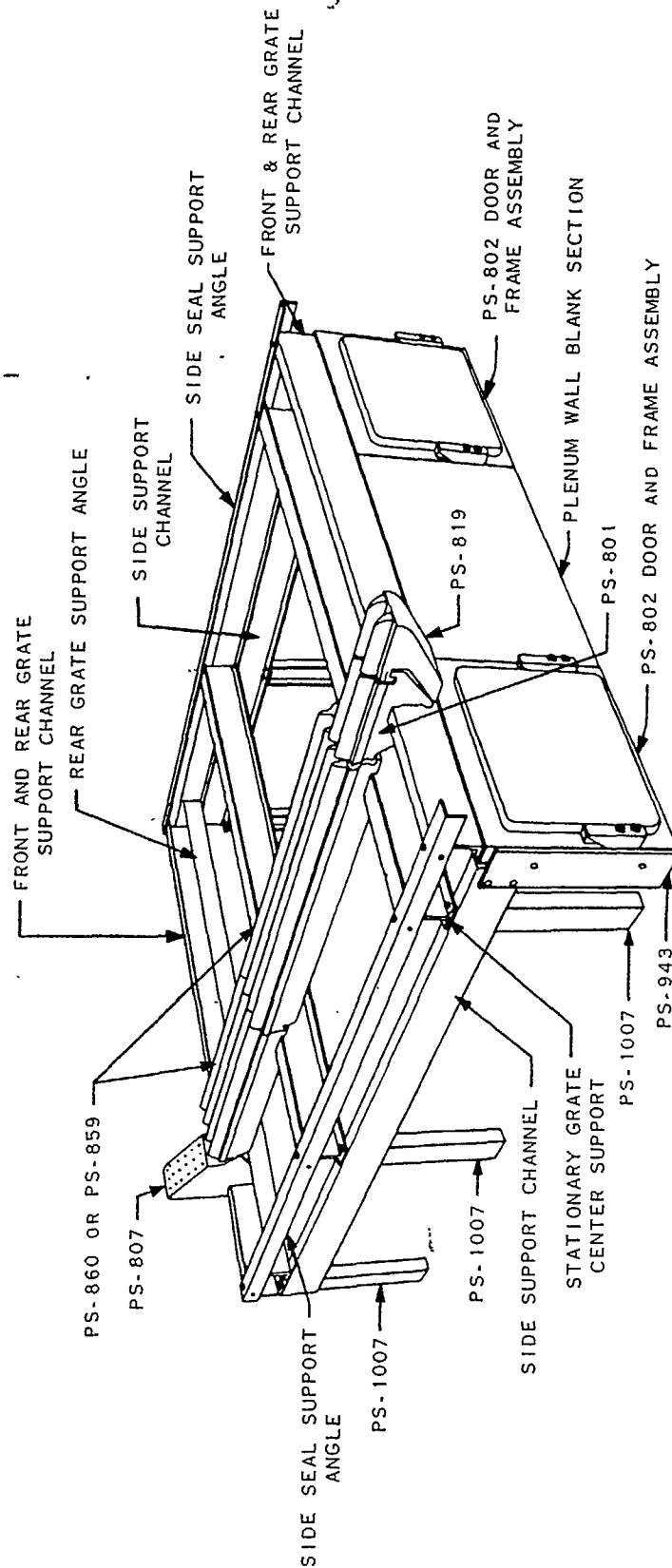


Figure 18 - Stationary Grate Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number

REPLACEMENT PARTS

401 Series Pneumatic Spreader Stokers

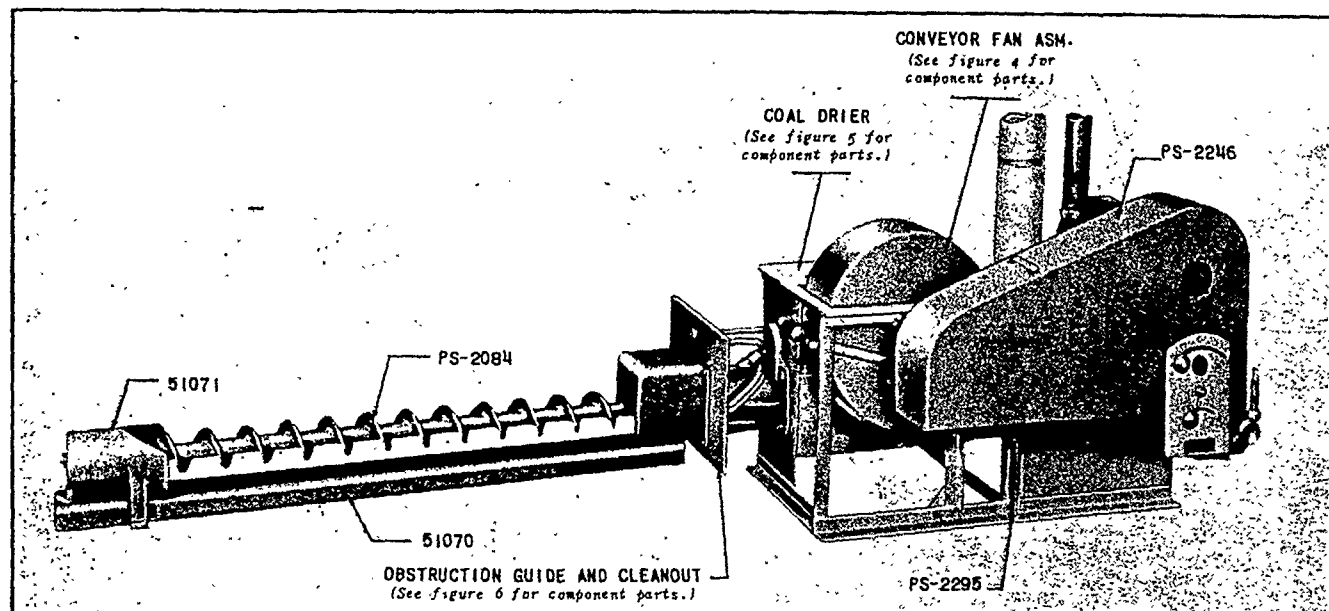


Figure 1 --PS-401 Series Pneumatic Spreader Stoker - Refer to Parts List I (Pg 10)

MODELS COVERED - 1949-1964

<u>MODEL</u>	<u>MODEL</u>
PS-75	PS-200
PS-110	PS-300
PS-160	PS-400

IMPORTANT: Always specify stoker model number and serial number when ordering.

GENERAL. Replacement parts for the 401 Series Pneumatic Spreader Stokers are listed and illustrated in this catalog. These units were first produced in 1949.

UNDERGRATE FAN UNITS. These units were equipped with undergrate fan units and an air duct with volumeter. Refer to Table II, page 15, for usage

of the items. Refer to figures 9, 10, 11, 12 and 13 and to Parts List III for identification of parts.

GRATE PARTS. These stokers were equipped with either stationary-type grates or power-operated dump grates. Refer to figures 16, 17 and 18 and to Parts List I for identification of parts.

THE WILL-BURT COMPANY

ORRVILLE, OHIO, U.S.A.

LIST OF CONTENTS

PARTS LISTS

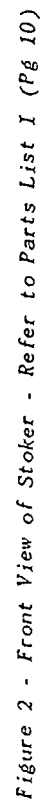
	<u>Page</u>
Parts List I - Standard, Optional and Extra Equipment	10
Parts List II - PS Gear Case Assembly	15
Parts List-III - Undergrate Fan Units and Air Duct Parts	21
Parts List IV - Conveying Fan Assembly	24

TABLES

Table I - Stoker and Conveying Fan Drive Data	9
Table II - Undergrate Fan Data.	20

LIST OF ILLUSTRATIONS

Figure 1 - PS-401 Series Pneumatic Spreader Stoker	1
Figure 2 - Front View of Stoker	3
Figure 3 - PS Gear Case Assembly	4 & 5
Figure 4 - Train View of Conveyor Fan Parts	6
Figure 5 - Coal Drier Parts.	7
Figure 6 - Obstruction Guide and Cleanout Parts	7
Figure 7 - Conveyor Elbow Assemblies	8
Figure 8 - Transfer Housing Cleanout Parts	8
Figure 9 - PG-4C Undergrate Fan Unit	17
Figure 10 - PG-50, 51, 52 and 53 Single Undergrate Fan Units	18
Figure 11 - Duplex Undergrate Fan Unit	18
Figure 12 - Internal Parts of Undergrate Fan Units	19
Figure 13 - Volumeter Air Duct Parts.	19
Figure 14 - PS-2413 Nozzle Assembly	25
Figure 15 - Coal Agitator Parts	25
Figure 16 - Miscellaneous Parts	26
Figure 17 - Dump Grate Parts	27
Figure 18 - Stationary Grate Parts	28



IMPORTANT: Always specify stoker model number.

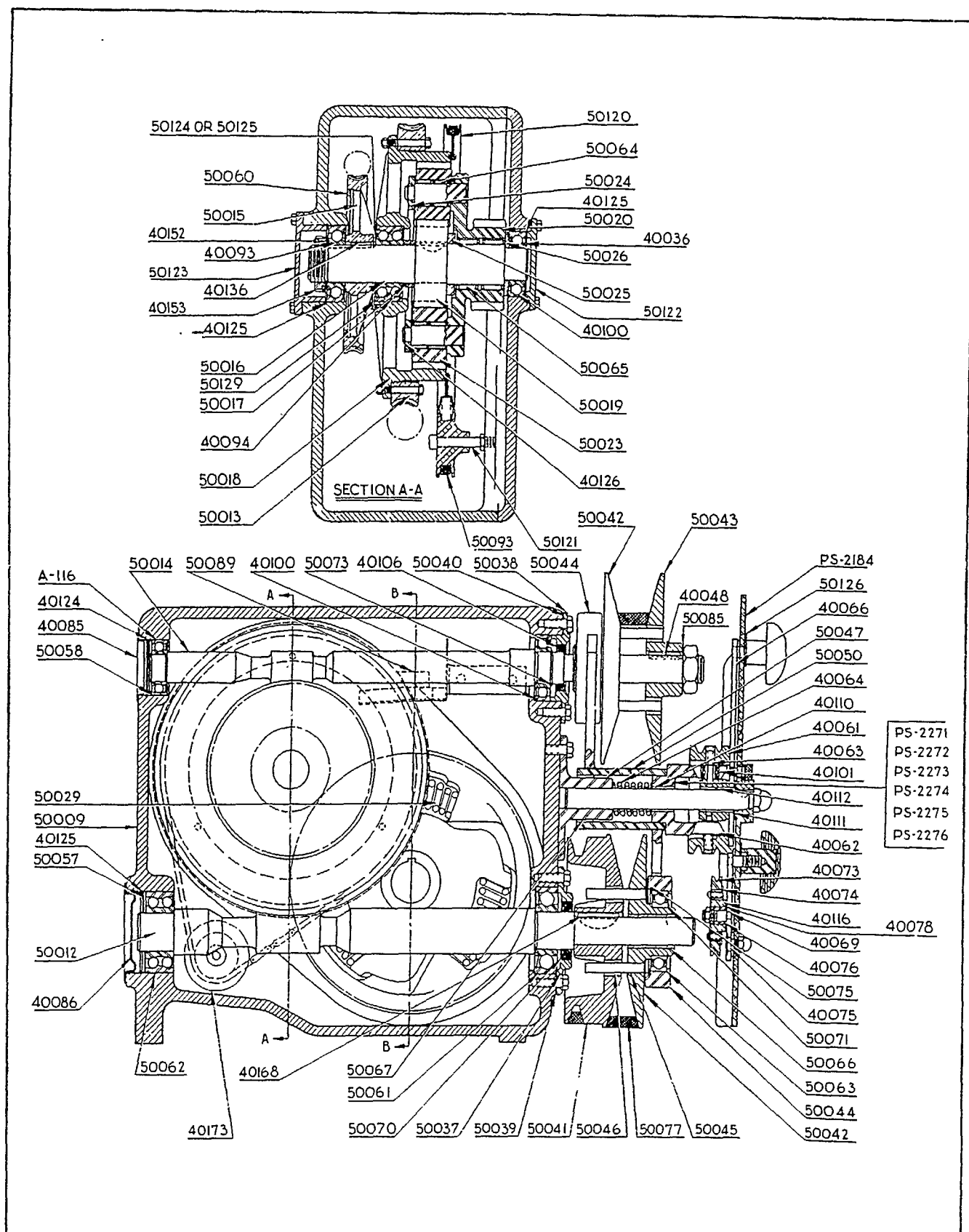


Figure 3 - PS Gear Case Assembly - Refer to Parts List II (Page 15)

IMPORTANT: Always specify stoker model number.

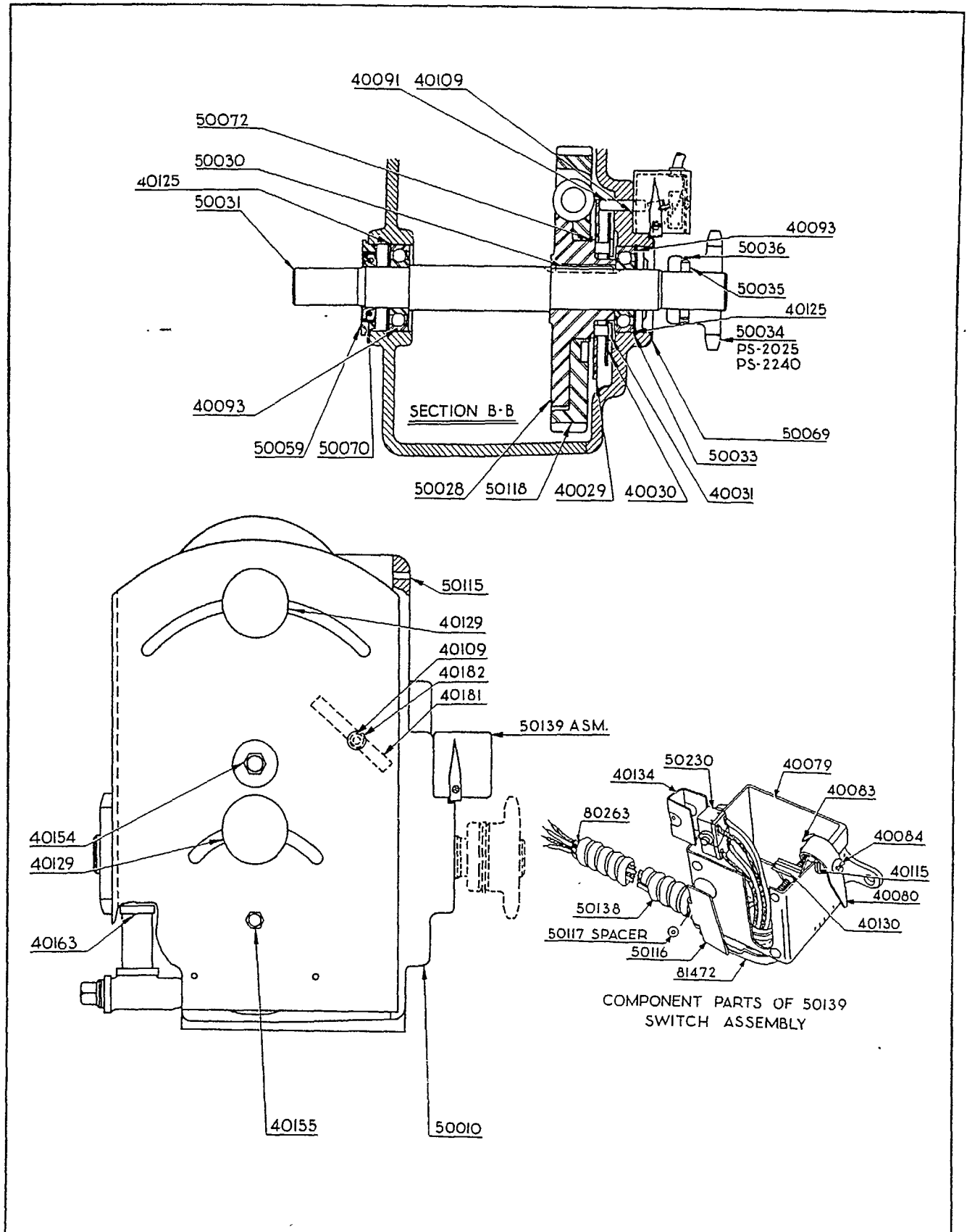
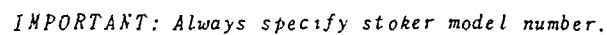


Figure 3 - PS Gear Case Assembly - Refer to Parts List II (Page 15)

IMPORTANT: Always specify stoker model number.



*Figure 4 - Train View of Conveyor Fan Parts - Refer to Parts List I (PG 10)
(Refer to Parts List IV (Pg 24) for Parts Included in Replacement Fan Assembly)*

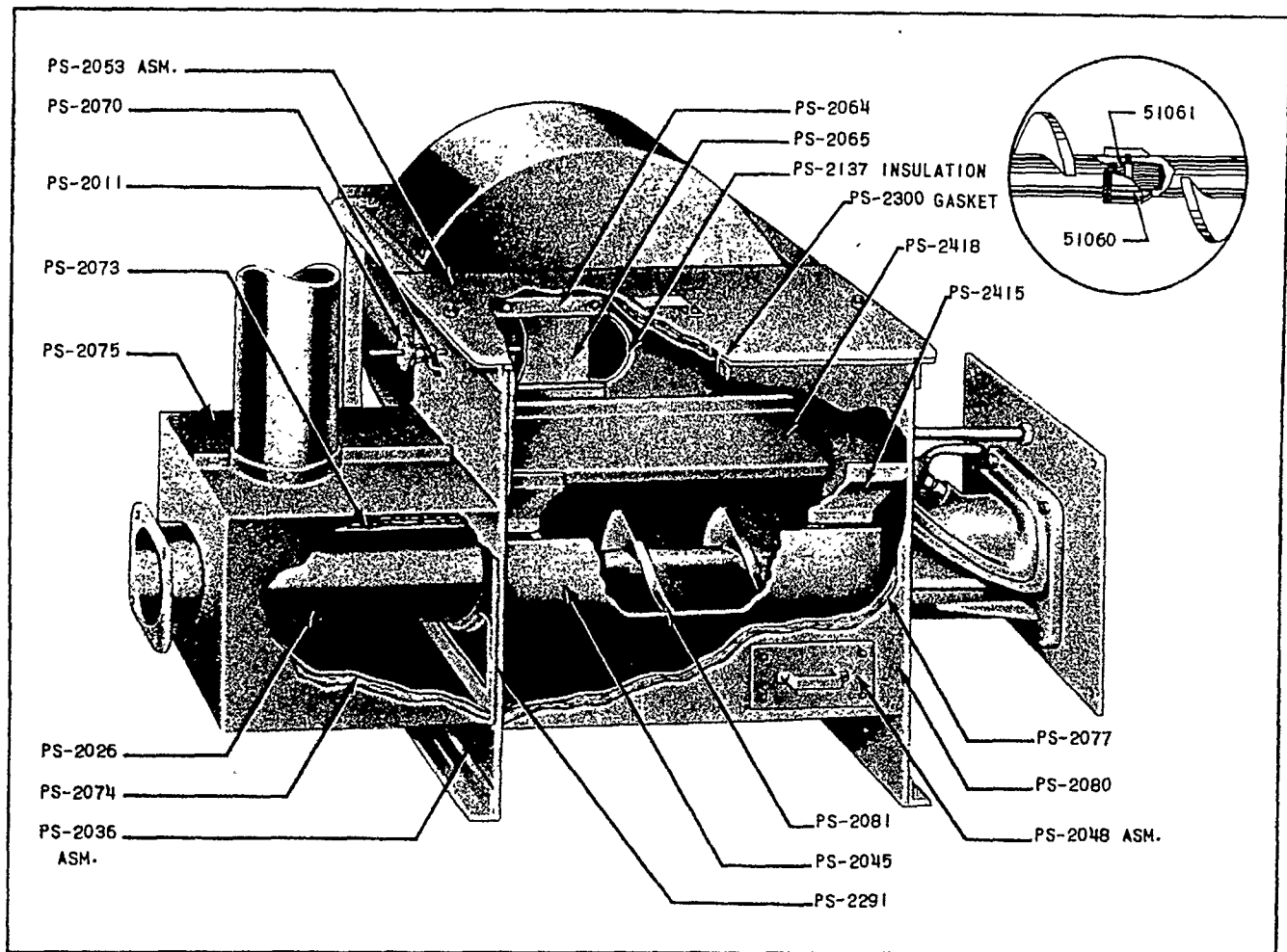


Figure 5 - Coal Drier Parts - Refer to Parts List I (Pg 10)

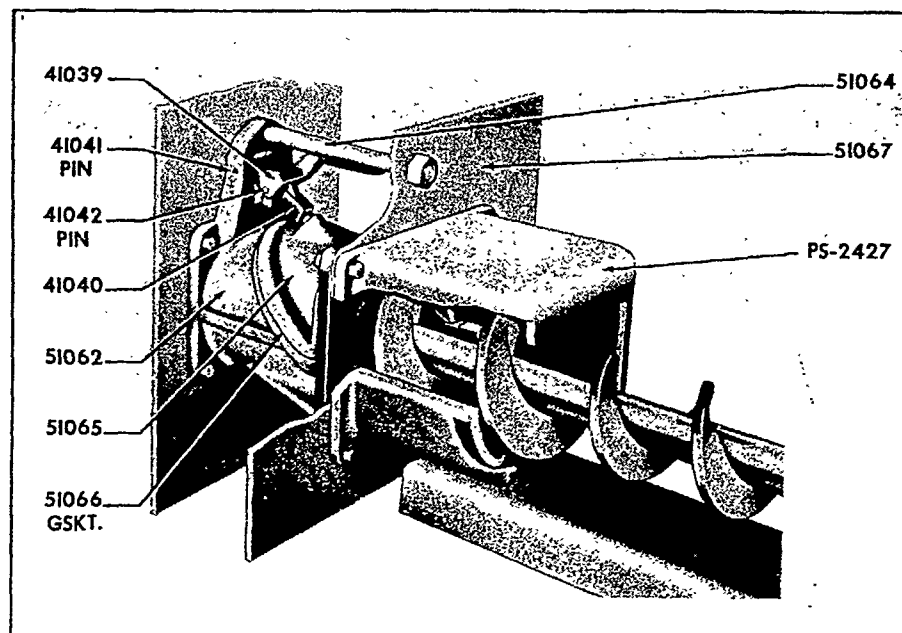


Figure 6 - Obstruction Guide and Cleanout Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

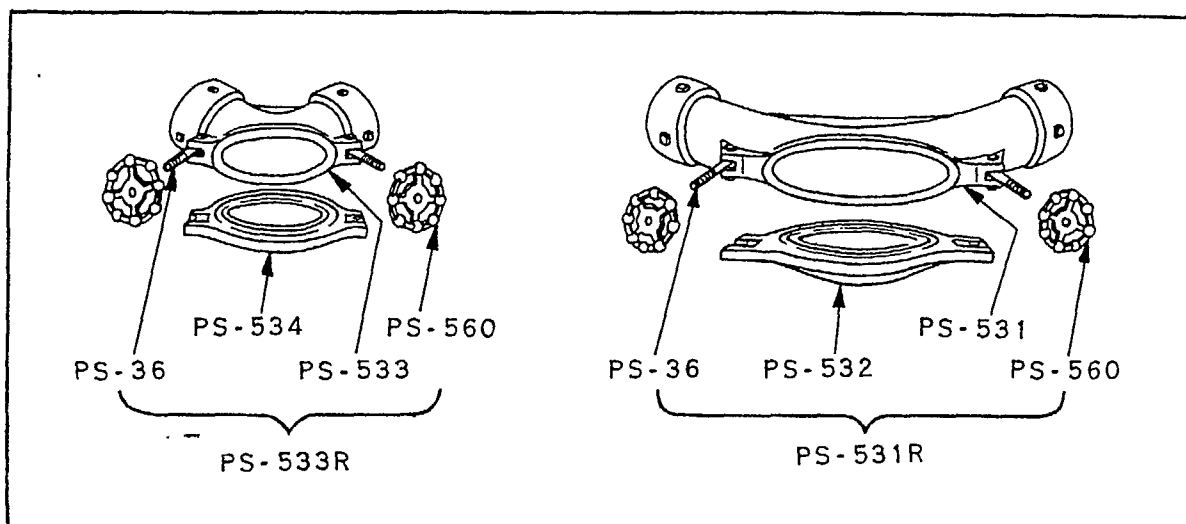


Figure 7 - Conveyor Elbow Assemblies - Refer to Parts List I (Pg 10)

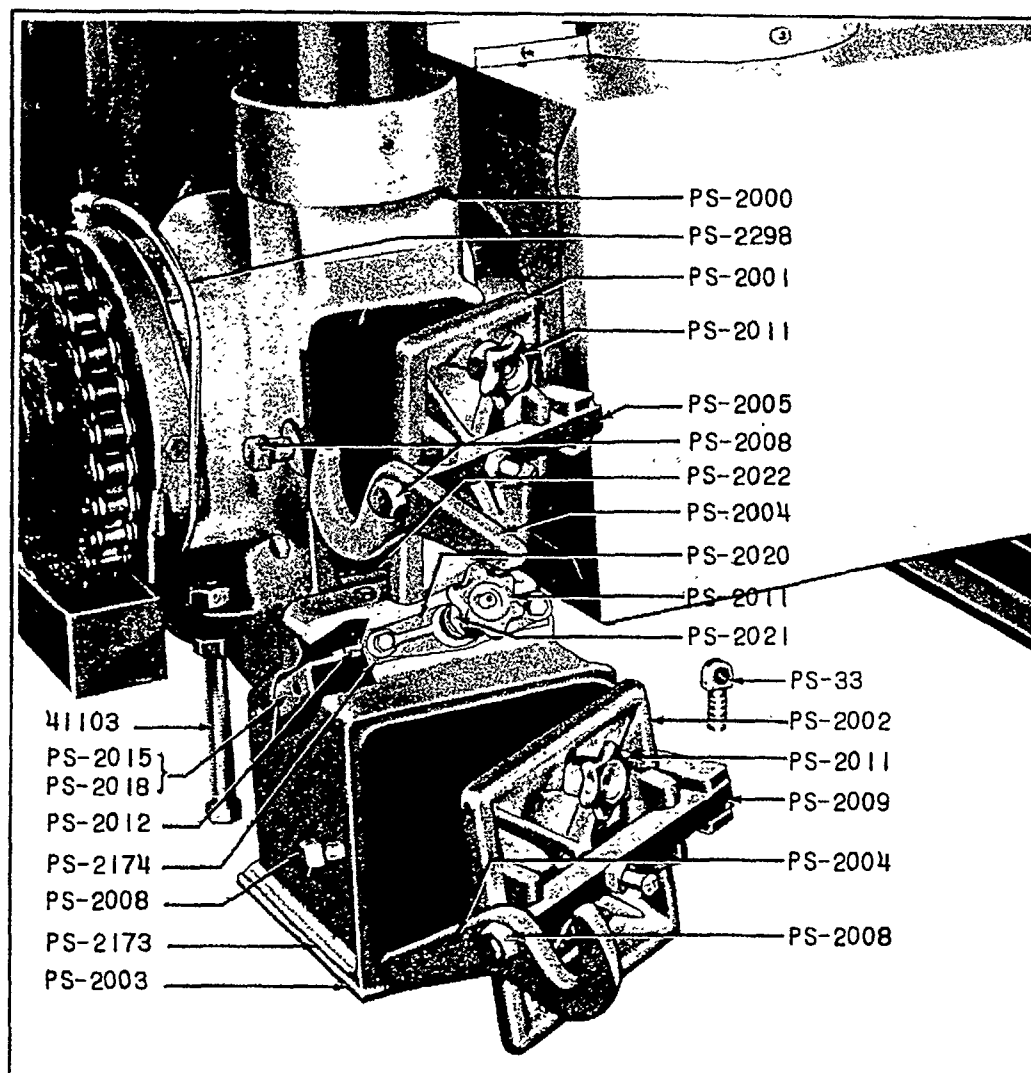


Figure 8 - Transfer Housing Cleanout Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number.

TABLE I
STOKER AND CONVEYING FAN DRIVE DATA

MODEL	PS-75-110-160				PS-200				PS-300				PS-400			
	FAN ARRANGEMENT	NO. 1 STANDARD	NO. 2 OPTIONAL USING 200-PS FAN DRIVE	NO. 3 OPTIONAL USING 300-PS FAN DRIVE	NO. 4 OPTIONAL USING 400-PS FAN DRIVE	NO. 2 STANDARD	NO. 3 OPTIONAL USING 300-PS FAN DRIVE	NO. 4 OPTIONAL USING 400-PS FAN DRIVE	NO. 3 STANDARD	NO. 4 OPTIONAL OVER SPEED FAN DRIVE	NO. 3 STANDARD	NO. 4 OPTIONAL OVER SPEED FAN DRIVE	NO. 3 STANDARD	NO. 4 OPTIONAL OVER SPEED FAN DRIVE	NO. 3 STANDARD	NO. 4 OPTIONAL OVER SPEED FAN DRIVE
MOTOR - 1725 R.P.M. H.P.		3	5	5	5		5	5	5	7-1/2	5	7-1/2	5	7-1/2		
MOTOR SHEAVE ASM. - I.F. NO.		PS-2454	PS-2452	PS-2455		PS-2452	PS-2452	PS-2455	PS-2455	PS-2457	PS-2455	PS-2457	PS-2455	PS-2457		
MERCURY CLUTCH ASM.		PS-2449		PS-2451					PS-2451	PS-2450	PS-2451	PS-2450	PS-2451	PS-2450		
		1		1-1/8					1-1/8	1-1/4	1-1/8	1-1/4	1-1/8	1-1/4		
				7-1/2					7-1/2	7-1/2		7-1/2		7-1/2		
MOTOR SHEAVE TO FAN		PS-2189	PS-2453	PS-2456		PS-2453	PS-2453	PS-2456	PS-2456		PS-2456		PS-2456			
		9-7/8	10-7/8	13-1/4		10-7/8		13-1/4		13-1/4		13-1/4		13-1/4		
FAN SHEAVE		PS-2214	PS-2215	PS-2104	PS-2215	PS-2215	PS-2215	PS-2215	PS-2104	PS-2215	PS-2104	PS-2215	PS-2104	PS-2215		
		6	6	6-1/2	6	6	6-1/2	6	6-1/2	6	6-1/2	6	6-1/2	6		
FAN BELT		PS-2221		PS-2220	PS-2361	PS-2221	PS-2221	PS-2361	PS-2220	PS-2361	PS-2220	PS-2361	PS-2220	PS-2361		
CABLE CONSTRUCTION		B-90		B-97	B-93	B-90	B-90	B-93	B-97	B-93	B-97	B-93	B-97	B-93		
		1	2	2	2	2	2	2	2	2	2	2	2	2		
FAN SPEED - R.P.M.		2940	3250	3660	4000		3250	4000	3660	4000	3660	4000	3660	4000		
STOKER SHEAVE			50041						50041				50041			
			6-1/2						6-1/2				6-1/2			
STOKER BELT			PS-2150				PS-2150		PS-2150				PS-2150			
			B-60				B-60		B-60				B-60			
GEAR CASE CAM		(PS-2272-PS-75) (PS-2273-PS-110) (PS-2274-PS-160)							PS-2275				PS-2276			
			50034				50034		50034				PS-2240			
DRIVE SPROCKET			11				11		16				PS-2276			
			11				20.4		21.0				PS-2091			
DRIVEN SPROCKET		(7.6-PS-75) (11.1-PS-110) (16.3-PS-160)					PS-2091		PS-2091				PS-2091			
			28				28		28				28			
DRIVE CHAIN			PS-2118				PS-2118		PS-2118				PS-2069			
			58				58		60				PS-2092			
COAL WORM R.P.M. - MAX.		(3.0-PS-75) (4.4-PS-110) (6.4-PS-160)					8.0		12.0				16.0			

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

PARTS LIST I

INCLUDES ALL STANDARD, OPTIONAL AND EXTRA PARTS FOR 401 SERIES PNEUMATIC SPREADER STOKERS.

REFER TO PARTS LIST II FOR COMPONENT PARTS OF GEAR CASE ASSEMBLY NUMBERS SHOWN ON THIS LIST.

REFER TO PARTS LIST III FOR COMPONENT PARTS OF UNDERGRATE FAN UNITS AND AIR DUCT ASSEMBLIES.

REFER TO PARTS LIST IV FOR COMPONENT PARTS INCLUDED WITH REPLACEMENT CONVEYING FAN ASSEMBLY.

REFER TO TABLE I FOR PARTS USED ON STANDARD AND OPTIONAL CONVEYING FAN AND STOKER DRIVE ARRANGEMENTS.

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
9&12	PG-4C	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
10,11&12	PG-50	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
10,11&12	PG-51	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
10&12	PG-52	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
10&12	PG-53	Undergrate Fan Unit. Refer to Table II for usage. Refer to Parts List III for component parts.	As Required
8	PS-33	Hinge Eyebolt.	2
13	PS-379VR	Air Duct and Volumeter Assembly. Used with PG-4C Undergrate Fan Unit. Refer to Parts List III for component parts.	As Required
13	PS-381VR	Air Duct and Volumeter Assembly. Used with PG-50, 51, 52 and 53 Undergrate Fan Units. Refer to Parts List III for component parts.	As Required
16	PS-468	Standard Pin Hole Grate Bar - 8 x 24 In..	As Required
16	PS-469	Standard Pin Hole Grate Bar - 8 x 36 In..	As Required
16	PS-487	Grate Support I-Beam for Standard Pin Hole Grates. (Specify number of notches and length required.)	As Required
16	PS-488	Grate Support Channel for Standard Pin Hole Grates (Specify number of notches and length required.)	As Required
7	PS-531R	Elbow Asm.. . . . Consists of: 2 - PS-36 Handwheel Eyebolt 1 - PS-531 Elbow 1 - PS-532 Elbow Cover 2 - PS-560 Handwheel	As Required
7	PS-533R	Elbow Asm.. . . . Consists of: 2 - PS-36 Handwheel Eyebolt 1 - PS-533 Elbow 1 - PS-534 Elbow Cover 2 - PS-560 Handwheel	As Required
17	PS-800	Dump Grate.	As Required
17&18	PS-801	Front Grate	As Required
18	PS-802	Cleanout Door Assembly.	As Required
17	PS-803	Bearing Grate.	As Required
17	PS-805	Side Grate Sleeve	As Required

IMPORTANT: Always specify stoker model number.

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
17	PS-806	Side Grate Pin	As Required
17&18	PS-807	Rear Grate.	As Required
17	PS-808	Side Grate - L.H.	As Required
17	PS-809	Side Grate - R.H.	As Required
17	PS-810	Grate Bar Bearing	As Required
18	PS-819	Ash Well Grate	As Required
16	PS-822	Hot Gas Outlet Assembly	1
		Consists of:	
		1 - PS-823 Hot Gas Outlet	
		1 - PS-824 Air Shutter	
16	PS-849	Grate Support Assembly for Standard Pin Hole Grates (Specify number of notches and length required.)	As Required
18	PS-859	Stationary Grate - 36 In.	As Required
18	PS-860	Stationary Grate - 24 In.	As Required
18	PS-943	Side Plate.	As Required
18	PS-1007	Grate Leg Assembly	As Required
17	PS-1010	Dump Lever.	As Required
17	PS-1013	Pin	As Required
13	PS-1018VR	Air Duct and Volumeter Assembly - 24 In. Long Used with PG-4C Undergrate Fan Unit. Refer to Parts List III for component parts.	As Required
13	PS-1020	Air Duct and Volumeter Assembly - 24 In. Long Used with PG-50, 51, 52 and 53 Undergrate Fan Units. Refer to Parts List III for component parts.	As Required
17	PS-1057	Seal Bar	As Required
8	PS-2000	Transfer Housing.	1
8	PS-2001	Transfer Cleanout Upper Cover	1
8	PS-2002	Transfer Cleanout Lower Cover	1
8	PS-2003	Transfer Housing Bottom Plate	1
8	PS-2004	Hand Latch.	2
8	PS-2005	Upper Hinge Bar	1
8	PS-2008	Shoulder Screw	4
8	PS-2009	Lower Hinge Bar	1
2, 5&8	PS-2011	Knob.	5
8	PS-2012	Shutoff Gate	1
8	PS-2015	Gate Guide - L.H.	1
8	PS-2018	Gate Guide - R.H.	1
8	PS-2020	Shutoff Gate - Stuffing Box	1
8	PS-2021	Packing Nut Gland	1
8	PS-2022	Shield Plate Assembly	1
2	PS-2024	Coal Worm Bearing Housing.	1
5	PS-2026	Drier Inlet Housing.	1
5	PS-2036	Drier Enclosure Assembly	1
5	PS-2045	Drier Sheet Assembly	1
5	PS-2048	Drier Cleanout Cover Assembly	1
		Consists of:	
		1 - V-690 Handle	
		1 - PS-2050 Cleanout Plate	
		1 - PS-2052 Insulation - 3/8 In.	
		1 - PS-2235 Insulation - 1/4 In.	
		1 - PS-2236 Gasket	
		1 - PS-2237 Retainer Plate	
5	PS-2053	Access Plate Assembly	1
		Consists of:	
		1 - PS-2054 Access Plate	
		1 - PS-2056 Access Plate Shield	
		2 - PS-2079 Insulation	
		1 - V-690 Handle	
5	PS-2064	Upper Damper Guide	1
5	PS-2065	Damper Blade	1
2	PS-2069	Chain (Used on PS-300 only.)	1
5	PS-2070	Damper Adjusting Wheel Bracket	1
5	PS-2073	Drier Inlet Top Insulation	2

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
5	PS-2074	Drier Inlet Insulation	6
5	PS-2075	Drier Inlet Wrapper Sheet	1
*	PS-2076	Drier Insulation 9" x 26" x 1-1/4"	2
5	PS-2077	Lower Side Drier Insulation.	1
*	PS-2078	Drier Insulation 3-1/4" x 26" x 1-1/4"	2
5	PS-2080	Drier Insulation Wrapper Sheet.	1
5	PS-2081	Drier Coal Worm.	1
1	PS-2084	Bin End Coal Worm	1
2	PS-2087	Motor Sheave Assembly (Obsolete - replace with PS-2455)	1
2	PS-2091	Sprocket	1
2	PS-2092	Drive Chain (Used on PS-400 only.)	1
2	PS-2093	Seal Gasket	1
2	PS-2094	Thrust Bearing	1
4	PS-2095	Fan Bearing Housing (Used With PS-2411 Fan Shaft Assembly)	1
4	PS-2097	Seal Ring.	2
4	PS-2098	Fan Shaft Bearing Oilier	1
4	PS-2099	Fan Bearing Housing Vent.	1
4	PS-2100	Water-Cooled Bearing Retainer	1
4	PS-2102	Fan Support Studs	3
4	PS-2103	Fan Spacer	3
2	PS-2104	Fan Sheave (6-1/2 in. O.D.)	**
4	PS-2111	Fan Inlet Cover Plate.	1
4	PS-2114	First Stage Fan Liner (Also Order (1) PS-2485 & (1) PS-2484 Fan Housing Seal)	1
4	PS-2116	Interstage Fan	1
4	PS-2117	Second Stage Fan Liner (Also Order (1) PS-2485 Fan Housing Seal)	1
2	PS-2118	Drive Chain (Used on PS-75, 110, 160 and 200.)	1
4	PS-2119	Conveyor Fan Housing	1
4	PS-2123	Back Plate Insulation - 3/8 in. Thick	1
4	PS-2124	Back Plate Insulation - 1/4 in. Thick	1
4	PS-2125	Insulation Cover Sheet	1
4	PS-2127	Air Duct	1
4	PS-2131	Air Duct Gasket.	2
4	PS-2132	Wrapper Sheet	1
5	PS-2137	Drier Insulation - Fan Side.	1
2	PS-2138	Motor Shaft Key - 2 in. Long	1
2	PS-2139	Motor Sheave Key - 1 in. Long	1
2	PS-2142	Motor Plate	1
2	PS-2147	Gear Case Support	1
2	PS-2150	Gear Case Drive Belt	1
4	PS-2160	Fan Bearing Housing Support.	1
2	PS-2171	Bearing Housing Gasket	1
2	PS-2172	Worm Housing Gasket	1
8	PS-2173	Bottom Plate Gasket	1
8	PS-2174	Stuffing Box Gasket	1
4	PS-2175	Air Duct Clamp Gasket.	1
4	PS-2176	Balancing Hub Assembly Includes: 3 - PS-2362 Balancing Weight	1
16	PS-2177	Coal Worm Sprocket Spanner	1
2	PS-2210	Fan Drive Belt Used on Model PS-75.	1
2	PS-2213	Motor Plate Hinge	1
2	PS-2214	Fan Sheave Used on Models PS-110 and PS-160.	**
2	PS-2215	Fan Sheave	**
2	PS-2219	Fan Sheave Used on Model PS-75.	**

* Not illustrated.

** Refer to Table I for usage.

IMPORTANT: Always specify stoker model number.

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
2	PS-2220	Fan Drive Belt	2*
2	PS-2221	Fan Drive Belt	*
2	PS-2222	Motor Sheave Assembly (Obsolete - replace with PS-2455)	1*
2	PS-2224	Motor Sheave Assembly (Obsolete - replace with PS-2454)	1*
4	PS-2226	Air Duct Clamp	1
2	PS-2228	Coal Worm Housing Bearing	1
2	PS-2234	Motor Plate Hinge	1
2	PS-2241	Sheave Housing Support	1
1	PS-2246	Belt Guard	1
4	PS-2254	Belt Guard Support Clip	2
2	PS-2257	Oil Drain Pan	1
2	PS-2266	Chain Guard	1
5	PS-2291	Drier Inlet Gasket.	1
2	PS-2295	Belt Guard Bracket.	1
8	PS-2298	Overflow Tube	1
2	PS-2299	Cooling Tube Assembly.	1
5	PS-2300	Access Cover Gasket	1
2	PS-2302	Gear Case Assembly.	1
2	PS-2303	Gear Case Assembly. Used on Model PS-110. (See figure 3 and Parts List II for component parts.)	1
2	PS-2304	Gear Case Assembly. Used on Model PS-160. (See figure 3 and Parts List II for component parts.)	1
2	PS-2305	Gear Case Assembly. Used on Model PS-200. (See figure 3 and Parts List II for component parts.)	1
2	PS-2306	Gear Case Assembly. Used on Model PS-300. (See figure 3 and Parts List II for component parts.)	1
2	PS-2307	Gear Case Assembly. Used on Model PS-400. (See figure 3 and Parts List II for component parts.)	1
4	PS-2350	Seal Plate	2
4	PS-2353	Dust Check Ring.	1
1	PS-2357	Cooling Tube Clamp.	1
2	PS-2359	Motor Plate Hinge Screw	2
2	PS-2361	Fan Drive Belt	2*
2	PS-2365	Motor Sheave Assembly (Obsolete - replace with PS-2457)	1*
15	PS-2379	Coal Agitator Assembly Consists of: 1 - PS-2380 Agitator Bracket 2 - PS-2391 Retainer Ring 1 - PS-2385 Clamp Plate 2 - V-5252 Agitator Wheel Arm 1 - PS-2386 Agitator Wheel - R.H. 2 - 17023 Agitator Bearing 1 - PS-2387 Agitator Wheel - L.H. 4 - 17027 Thrust Bearing 2 - PS-2390 Shaft 4 - 17028 Bearing	1
4	PS-2410	Retaining Ring	1
4	PS-2411	Fan Shaft Assembly (Used With PS-2095 Fan Bearing Housing) Consists of: 2 - PS-1123 Fan Shaft Bearing 2 - PS-2460 Oiler Guide N.D. #87507 1 - 38298 Spacer 1 - PS-2105 Fan Shaft 4 - 41020 Retainer Ring	1
14	PS-2413	Nozzle Assembly. Consists of: 1 - PS-44 Nozzle Hinge Pin 2 - PS-309 Sleeve Cover Plate 1 - PS-45 Nozzle Control Rod 2 - PS-311 Support U Bolt 1 - PS-47 Nozzle Handwheel 1 - PS-2180 Nozzle End 1 - PS-81 Nozzle Body 1 - PS-2181 1-in. Deflector 1 - PS-308A Support Assembly 1 - PS-2182 1-1/2-in. Deflector 1 - PS-2183 2-1/2-in. Deflector	1
5	PS-2415	Baffle - R.H.	1
5	PS-2418	Baffle - L.H.	1
6	PS-2427	Obstruction Guide Housing	1
4	PS-2430	Fan Housing Seal	1
15	PS-2431	Coal Agitator Shaft	2

* Refer to Table I for usage.

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
15	PS-2432	Thrust Bearing	4
15	PS-2433	Bearing	4
4	PS-2434	Fan Wheel.	2
4	PS-2440	Sliding Nipple Assembly	1
2	PS-2452	Motor Sheave Assembly.	*1
2	PS-2454	Motor Sheave Assembly.	*1
2	PS-2455	Motor Sheave Assembly.	*1
2	PS-2457	Motor Sheave Assembly.	*1
4	PS-2459	Conveying Fan Assembly	1
		Refer to Parts List IV for Component Parts	
4	PS-2461	Balance Ring.	2
4	PS-2462	Inner Balance Ring.	1
4	PS-2463	Fan Bearing Housing (Used With PS-2468 Fan Shaft Asm.).	1
4	PS-2465	Gasket.	1
4	PS-2468	Fan Shaft Assembly (Used With PS-2463 Fan Bearing Housing)	1
		Consists of:	
		4 - 40120 Retainer Ring 1 - 38298 Spacer	
		1 - PS-2105 Fan Shaft 1 - PS-2466 Bearing - N.D. #97507	
		2 - PS-2460 Oiler Guide 1 - PS-2467 Bearing - N.D. #97607	
4	PS-2484	Fan Housing Seal - (Used With New Style PS-2114 First Stage Liner Sheet)	1
4	PS-2485	Fan Housing Seal - (Used With New Style First and Second Stage Liner)	2
16	S-1009R	Ash Hoe and Handle - 1-in. Pipe	1
		Used with pin-hole type grates.	
16	S-1011R	Clinker Rake and Handle - 1-in. Pipe.	1
16	S-1012	Refractory Tile Slab - 3" x 6" x 18".	1
		Used over nozzle opening in front wall.	
17	S-1049	Air Cylinder Assembly for Dump Grates	As Required
16	S-1050	Ash Hoe	1
16	S-1050R	Ash Hoe and Handle - 1-in. Pipe	1
		Used with ribbed-type grates.	
16	S-1057R	Clinker Hook and Handle - 3/4-in. Pipe	1
16	S-1058R	Slice Bar and Handle - 1-in. Pipe.	1
16	S-1059R	Slice Bar and Handle - 1-1/2-in. Pipe	1
16	S-1098	Hot Gas Temperature Indicator - 12-in.	1
17	S-1099	Steam Cylinder Assembly for Dump Grates.	As Required
2&4	40048	Key.	3
4	40125	Retainer Ring	2
6	41039	Toggle Handle	1
6	41040	Toggle Link	1
6	41041	Lock Pin	1
6	41042	Lock Pin	1
8	41043	Motor Adjusting Bolt	2
2	41344	Cable Spring.	1
2	41350	Quadrant Cable Assembly	1
2	41526	Sheave and Housing Assembly.	1
		Consists of:	
		1 - 41231 Sheave Housing	
		1 - 40076 Spacer 1 - 41232 Sheave Housing Cover	
		2 - 40078 Washer 1 - 41527 Cable Sheave	
5	51060	Worm Coupling Nut	1
5	51061	Worm Coupling Plug.	1
6	51062	Worm Cleanout Housing.	1
6	51064	Cleanout Stud	1
6	51065	Worm Cleanout Housing Cover.	1
6	51066	Worm Cleanout Housing Gasket	1
6	51067	Bin Plate.	1
1	51070	Bin Channel	1
1	51071	Bin Worm Bearing	1
2	51102	Key.	1
2	51113	Lock Nut	1
2	51114	Lock Washer	1
2	51118	Motor Adjusting Bracket	1
2	80348	Flare Nut (Not illustrated).	2
4 - 2	80689	Brass Elbow	4

* Refer to Table I for usage

IMPORTANT: Always specify stoker model number.

PARTS LIST II

COMPONENT PARTS OF PS GEAR CASE ASSEMBLIES

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
3	A-116	Ball Bearing (N.D.-7505).	1
3	PS-2025	Drive Sprocket - 21 Teeth Used on Model PS-400 only.	1
3	PS-2184	Quadrant	1
3	PS-2240	Drive Sprocket - 16 Teeth Used on Model PS-300 only.	1
3	PS-2271	Cam.	1
3	PS-2272	Cam.	1
3	PS-2273	Cam.	1
3	PS-2274	Cam.	1
3	PS-2275	Cam.	1
3	PS-2276	Cam.	1
*	PS-2292	Cam Adjusting Washer	As Required
3	40029	Collector Plate.	1
3	40030	Finger Spring	1
3	40031	Shoulder Screw	3
3	40036	Bearing Stop Cover Shim	As Required
3	40048	Spring Key	3
3	40061	Cam Follower.	1
3	40062	Cam Roller	2
3	40063	Cam Roller Stud.	2
3	40064	Spring.	1
3	40066	Coal Feed Quadrant Arm	1
3	40069	Air Adjustment Quadrant Arm.	1
3	40073	Air Adjustment Sheave.	1
3	40074	Eccentric Bushing	1
3	40075	Air Adjustment Pivot Screw	1
3	40076	Air Adjustment Spacer.	1
3	40078	Air Adjustment Washer.	4
3	40085	Plug	1
3	40086	Plug	1
3	40091	Overload Release Pin	1
3	40093	Ball Bearing (N.D. 7507).	3
3	40094	Ball Bearing (N.D. 55507)	1
3	40100	Ball Bearing (N.D. 7506).	2
3	40101	Ball Bearing (N.D. 88035)	2
3	40106	Oil Seal (Nat. 140328)	1
3	40109	Oil Seal (Vitalic 6318)	2
3	40110	Bearing (Oilite A-956)	1
3	40111	Bearing (Oilite T-1303-1)	1
3	40112	Bearing (Oilite)	1
3	40116	Bearing (Oilite A-1167-2)	1
3	40124	Retainer Ring (Eaton International)	1
3	40125	Retainer Ring (Eaton International)	3
3	40126	Retainer Ring (Waldes Truarc)	3
3	40129	Knob	2
3	40136	Low Speed Shaft Key	1
3	40152	Washer (ABEC-W-07).	1
3	40153	Lock Nut (ABEC-N-07)	1
3	40154	Acorn Nut - Upper	1
3	40155	Acorn Nut - Lower	1
3	40163	Oil Gauge.	1
3	40168	Key.	1
3	40173	Chain Retainer Pulley.	1
*	40176	Name Plate	1
3	40181	Quadrant Arm Stop	1
3	40182	Retainer Screw	1
3	50009	Gear Case.	1
3	50010	Gear Case Cover.	1

* Not illustrated.

IMPORTANT: Always specify stoker model number.

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
3	50012	Main Worm Shaft.	1
3	50013	Main Worm Gear	1
3	50014	Differential Worm Shaft	1
3	50015	Differential Worm Gear	1
3	50016	Low Speed Shaft.	1
3	50017	Spacer.	1
3	50018	Internal Gear	1
3	50019	Sun Pinion Gear.	1
3	50020	Spider Assembly.	1
3	50023	Planet Gear	3
3	50024	Inner Spider.	1
3	50025	Thrust Washer	1
3	50026	Thrust Washer	1
3	50028	Back Gear Hub	1
3	50029	Spring.	3
3	50030	Drive Shaft Key.	1
3	50031	Drive Shaft	1
3	50033	Drive Shaft Shim	As Required
3	50034	Drive Sprocket - 11 Teeth Used on PS-50, 75, 110, 160 and 200.	1
3	50035	Shear Pin.	As Required
3	50036	Shear Pin Retainer.	1
3	50037	Main Worm Bearing Retainer	1
3	50038	Differential Worm Bearing Retainer	1
3	50039	Main Worm Bearing Retainer Gasket.	1
3	50040	Differential Worm Bearing Retainer Gasket	1
3	50041	Input Sheave.	1
3	50042	Sliding Sheave	2
3	50043	Adjusting Sheave	1
3	50044	Bearing Housing.	2
3	50045	Sheave Drive Pin	4
3	50046	Bushing	4
3	50047	Belt Shifter Support	1
3	50050	Belt Shifter Assembly.	1
		Consists of:	
		1 - 50097 Belt Shifter - Front Half	
		1 - 50098 Belt Shifter - Rear Half	
3	50057	Spring Washer	1
3	50058	Spring Washer	1
3	50059	Oil Seal Housing	1
3	50060	Snap Ring.	1
3	50061	Ball Bearing (N.D. 7607).	1
3	50062	Ball Bearing (N.D. 5507).	1
3	50063	Ball Bearing (N.D. 993L09).	2
3	50064	Needle Bearing (Tor. B-1210X).	6
3	50065	Needle Bearing (Tor. B-2414X0H).	2
3	50066	Bearing (Oilite A-1213-2).	2
3	50067	Bearing (Oilite A-1623).	1
3	50068	Oil Seal (Nat. 50135).	1
3	50069	Oil Seal (Nat. 50452).	1
3	50070	Oil Seal (Nat. 50055-S).	1
3	50071	Retainer Ring (Wal. NAS 51-175).	2
3	50072	Retainer Ring (Wal. No. 51-325).	1
3	50073	Retainer Ring (Wal. NAS 51-118).	1
3	50075	Retainer Ring (Wal. NAS 50-300).	2
3	50077	Wide V Belt	1
3	50085	Lock Washer	1
3	50089	Oil Distributor.	1
3	50093	Oil Distributor Chain.	1
3	50115	Dowel Pin	2
3	50118	Gear	1
3	50120	Oil Elevating Pulley	1
3	50121	Chain Retainer Pulley Screw.	1
3	50122	Cover Bearing Stop.	1
3	50123	Case Bearing Stop	1
3	50124	Worm Wheel Shim	As Required

IMPORTANT: Always specify stoker model number.

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D
3	50125	Worm Wheel Shim.	As Required
3	50126	Pointer	2
3	50129	Internal Gear Bearing Retainer.	1
3	50139	Overload Switch Assembly.	1
		Consists of:	
		1 - 40079 Box	
		1 - 40080 Actuator Lever	
		1 - 40083 Spring	
		1 - 40084 Spring	
		1 - 40115 Bearing	
		1 - 40130 Nut	
		1 - 40134 Insulation	
		1 - 50116 Reset Lever	
		1 - 50117 Reset Spacer	
		1 - 50138 Conduit	
		1 - 50230 Switch Asm.	
		2 - 80263 Anti-Short Bushing	
		1 - 81472 90° Connector	

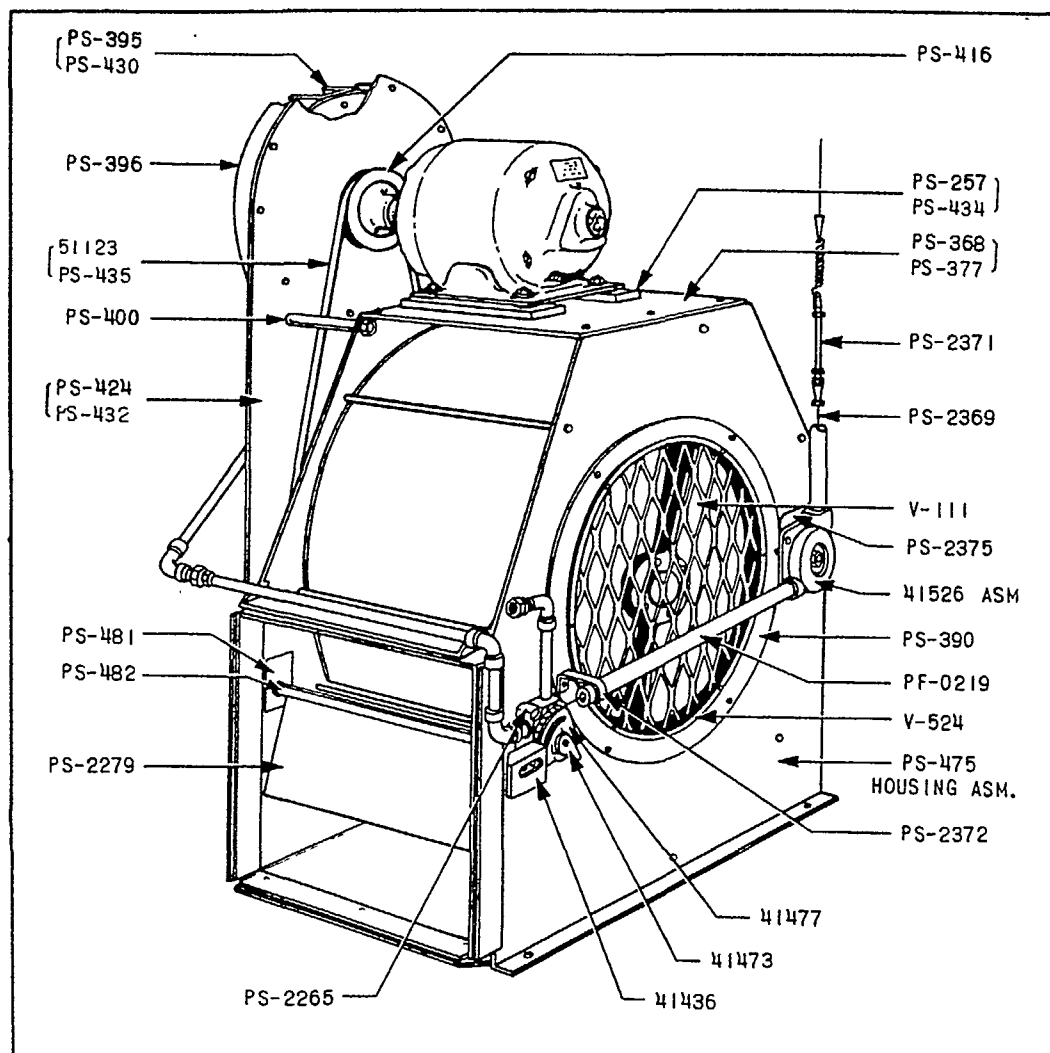


Figure 9 - PG-4C Undergrate Fan Unit - Refer to Parts List III (Pg 24)

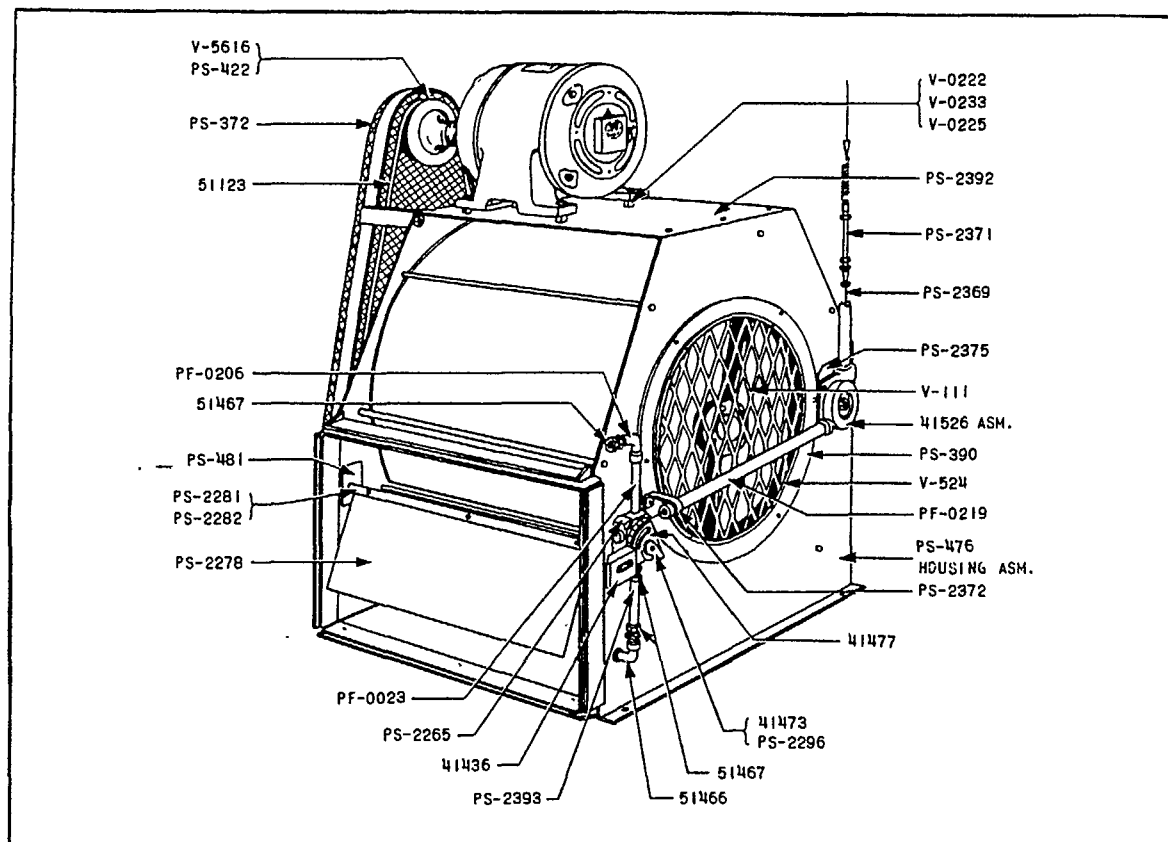


Figure 10 - PG-50, 51, 52 and 53 Single Undergrate Fan Units - Refer to Parts List III (Pg 21)

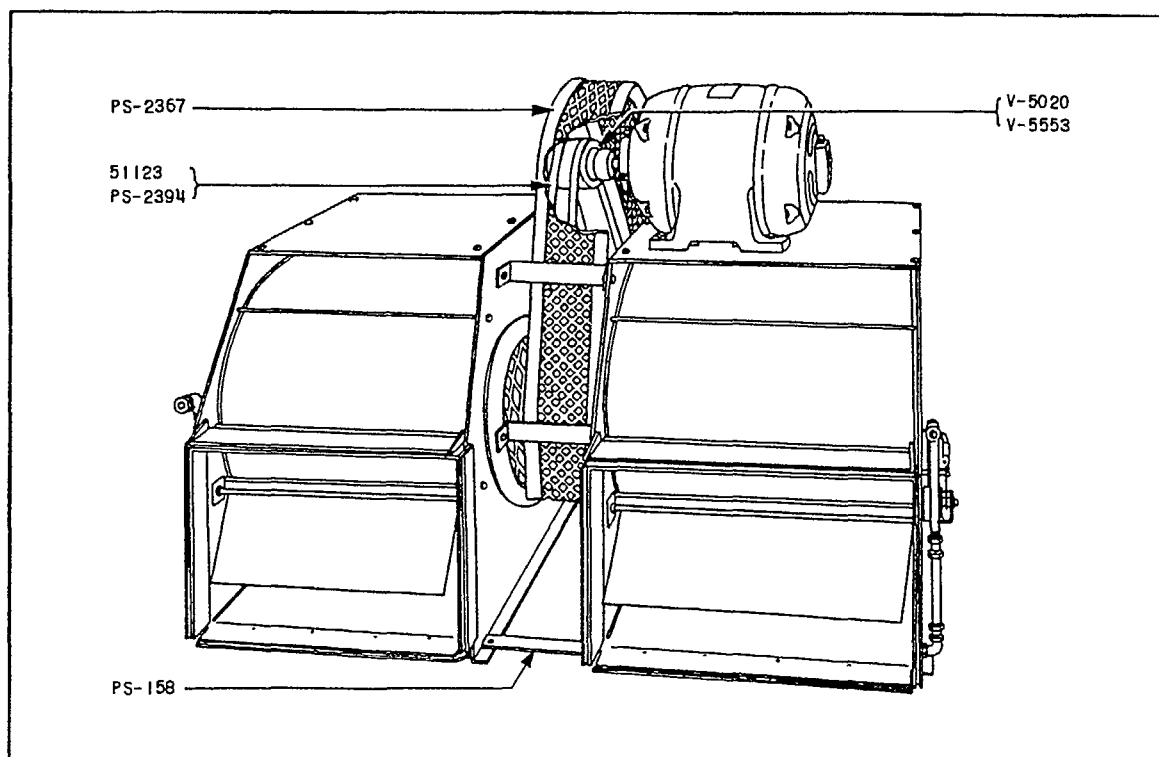


Figure 11 - Duplex Fan Unit - Refer to Parts List III (Pg 21)

IMPORTANT: Always specify stoker model number.

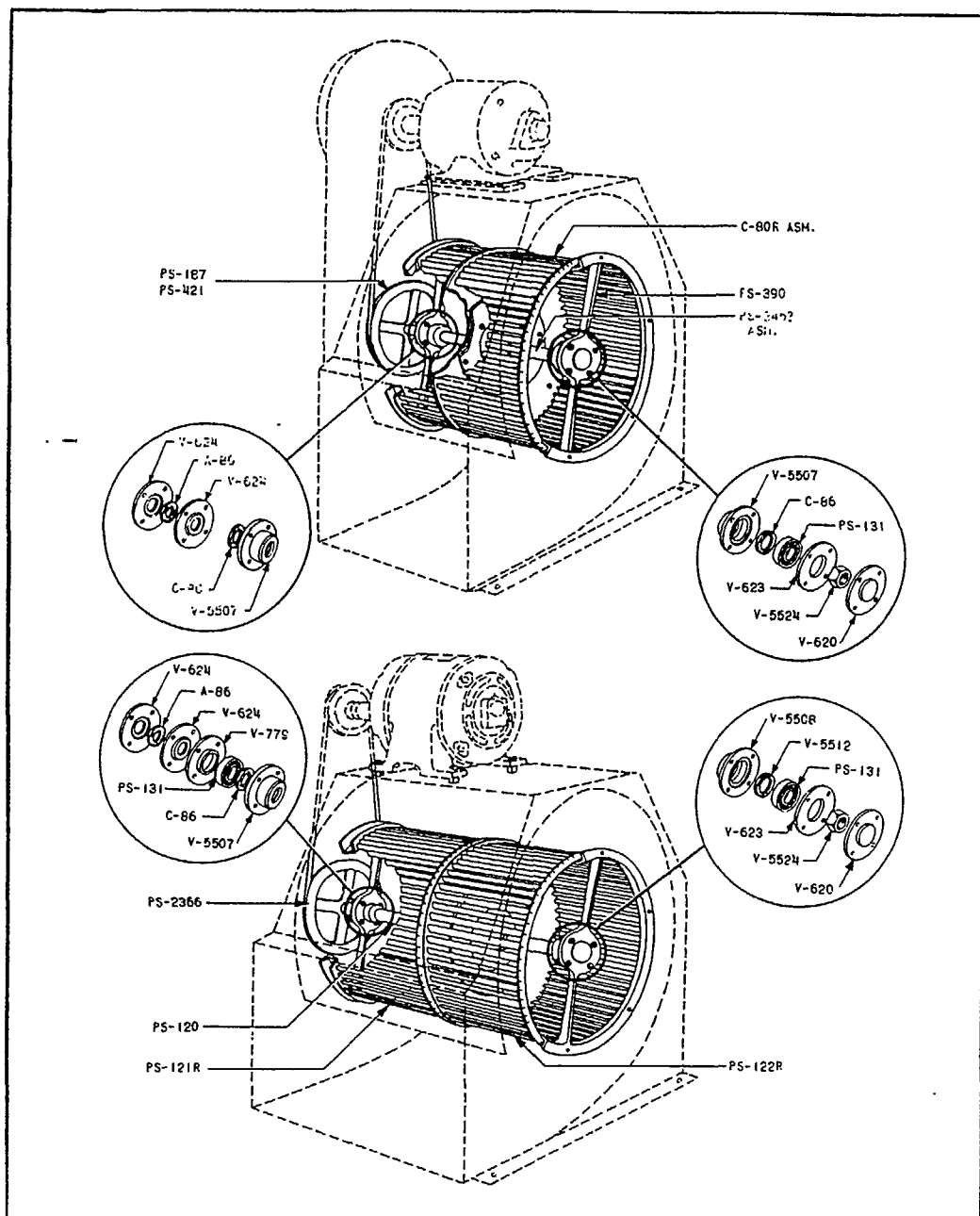


Figure 12 - Internal Parts of Undergrate Fan Units - Refer to Parts List III (Pg 21)

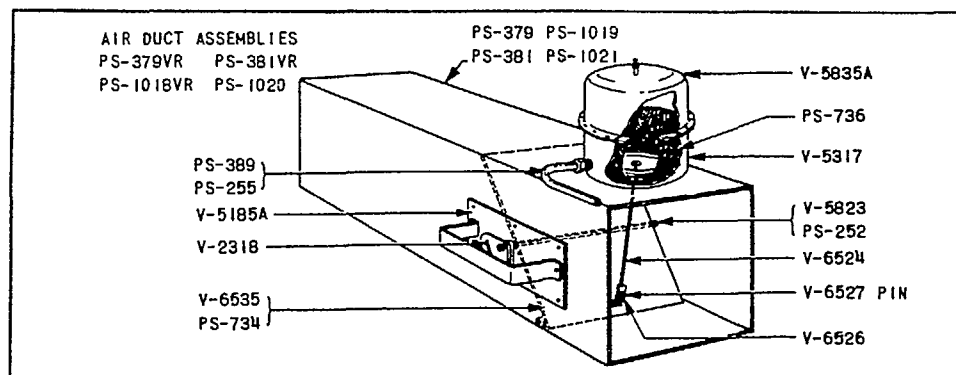


Figure 13 - Volumeter Air Duct Parts - Refer to Parts List III (Pg 21)

IMPORTANT: Always specify stoker model number

TABLE 11
UNDERGATE FAN DATA

STOKER SIZE	PS-75				PS-110				PS-160				PS-200				PS-300			
	STANDARD 60 CYCLE	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	STANDARD 60 CYCLE	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	STANDARD 60 CYCLE	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	STANDARD 60 CYCLE	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	STANDARD 60 CYCLE	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	STANDARD 60 CYCLE	OPTIONAL 60 CYCLE OVERSPEED	STANDARD 25 CYCLE	STANDARD 60 CYCLE	OPTIONAL 60 CYCLE OVERSPEED
FAN UNIT ASSEMBLY	PS-4C 1 HP	PS-4C 2 HP	PS-4C 1 HP	PS-50 (1) 1/2 HP	PS-51 (1) 3/4 HP	PS-51 (1) 1/2 HP	(1) PG-50 (1) 1/2 HP	(1) PG-51 (1) 3/4 HP	(1) PG-51 (1) 3/4 HP	(1) PG-51 (1) 3/4 HP	(1) PG-51 (1) 3/4 HP	(1) PG-51 (1) 3/4 HP	(1) PG-52 (1) 1/2 HP	(1) PG-53 (1) 1/2 HP	(1) PG-53 (1) 1/2 HP	(1) PG-51 (2) 1/2 HP	(1) PG-51 (2) 1/2 HP	(1) PG-51 (2) 1/2 HP	(1) PG-51 (2) 1/2 HP	(1) PG-51 (2) 1/2 HP
BEARING TYPE	60	60	25	60	60	25	60	60	25	60	60	25	60	60	25	60	60	25	60	60
220/440 VOLT	1750	1750	1450	1750	1750	1450	1750	1750	1450	1750	1750	1450	1750	1750	1450	1750	1750	1450	1750	1750
3 PHASE	K-204	224	224	224	225	225	225	254	254	254	254	284	254	284	284	225	254	254	254	254
SHAFT	3/4"	1"	1"	1"	1"	1"	1"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1"	1-1/8"	1-1/8"	1-1/8"	1-1/8"
MOTOR	PS-416	PS-421	PS-421	V-561/3	PS-421	PS-421	V-5616	PS-422	PS-422	PS-422	PS-422	PS-422	V-5020	V-5553	V-5553	(2) V-5616	(2) PS-422	(2) PS-422	(2) PS-422	(2) PS-422
NO. OF GROOVES IN SHEAVE	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	1	1	1	1	1
NO. OF GROOVES USED	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1
O.D.	5 29/32	7.125	7.125	6.110	7.125	7.125	6.110	7.125	7.125	7.125	7.125	7.125	6.000	7.125	7.125	6.110	7.125	7.125	7.125	7.125
BORE	3/4"	1"	1"	1"	1"	1"	1"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1"	1-1/8"	1-1/8"	1-1/8"	1-1/8"
DELTA	51123	PS-235	PS-235	51123	51123	51123	51123	51123	51123	51123	51123	51123	51123	PS-2394	PS-2394	51123	51123	51123	51123	51123
SIZ	B-60	65	65	9-60	B-60	B-60	B-60	B-60	B-60	B-60	B-60	B-60	B-60	B-62	B-62	B-60	B-60	B-60	B-60	B-60
QUANTITY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
FAN	PS-187	PS-187	PS-187	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	PS-2366	(2) PS-2366	(2) PS-2366	(2) PS-2366	(2) PS-2366	(2) PS-2366	(2) PS-2366	(2) PS-2366	(2) PS-2366
SHEAVE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
O.D.	11"	11"	11"	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
FAN SPEED...R.P.M.	900	1100	900	1200	1400	1185	1200	1400	1400	1400	1400	1185	1170	1415	1185	1200	1400	1400	1400	1185

IMPORTANT: Always specify stoker model number

PARTS LIST III

COMPONENT PARTS OF UNDERGRATE FAN UNITS AND VOLUMETER AIR DUCT ASSEMBLIES.
SEE TABLE II FOR USAGE AND DATA REGARDING UNDERGRATE FANS.

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D				
			PG 4C	PG 50	PG 51	PG 52	PG 53
12	A-86	Felt Washer Drive End	1	2	2	2	2
12	C-80R	Fan Wheel Assembly	1				
		Consists of:					
		1 - C-80 Fan Hub					
		1 - V-5611 Fan Wheel Spacer					
		1 - V-5613A Fan Wheel - 4 x 14-1/2 in.					
		1 - V-5614A Fan Wheel - 7 x 14-1/2 in.					
12	C-86	Felt Washer Drive End	2	1	1	2	2
*	PF-0020	1/2-14 x 1-3/4 in. Nipple	2				
*	PF-0022	1/2-14 x 3 in. Nipple	1				
*	PF-0023	1/2-14 x 4 in. Nipple	1	1	1	2	2
*	PF-0025	1-14 x 15-3/4 Pipe	1				
10	PF-0206	90° Ell		2	2	4	4
9&10	PF-0219	Cable Pipe	1	1	1	2	2
*	PF-0235	Bushing - 1/4-in. x 1/2-in.		1	1	2	2
12	PS-120	Fan Shaft		1	1	2	2
12	PS-121R	Fan Wheel - R.H.		1	1	2	2
		7 in. x 14-1/2 in.					
12	PS-122R	Fan Wheel - L.H.		1	1	2	2
		7 in. x 14-1/2 in.					
12	PS-131	Fan Shaft Bearing.	1	2	2	4	4
11	PS-158	Lower Tie Strap				2	2
12	PS-187	Fan Sheave	1				
9	PS-257	Motor Spacing Bar.	2				
*	PS-325	Belt Guard Spacer.	2				
9	PS-368	Motor Plate.	1				
10	PS-372	Belt Guard		1	1		
13	PS-379VR	Air Duct and Volumeter Assembly	1				
		Consists of:					
		1 - PS-379 Air Duct					
		1 - PS-389 Volumeter Air Tube					
		1 - PS-736 Volumeter Diaphragm					
		1 - V-2318 Regulator Rod Quadrant					
		1 - V-5185A Regulator Panel					
		1 - V-5317 Volumeter Lower Housing					
		1 - V-5823 Regulator Damper Rod					
		1 - V-5835A Volumeter Upper Housing					
		1 - V-6524 Diaphragm Piston Rod					
		1 - V-6526 Piston Rod Yoke					
		1 - V-6527 Yoke Pin					
		1 - V-6535 Regulator Blade					
13	PS-381VR	Air Duct and Volumeter Assembly		1	1	2	2
		Consists of:					
		1 - PS-252 Regulator Damper Rod					
		1 - PS-255 Volumeter Air Tube					
		1 - PS-381 Air Duct					
		1 - PS-734 Regulator Blade					
		1 - PS-736 Volumeter Diaphragm					
		1 - V-2318 Regulator Rod Quadrant					
		1 - V-5185A Regulator Panel					
		1 - V-5317 Lower Volumeter Housing					
		1 - V-5835A Upper Volumeter Housing					
		1 - V-6524 Diaphragm Piston Rod					
		1 - V-6526 Piston Rod Yoke					
		1 - V-6527 Yoke Pin					
12	PS-390	Fan Inlet Ring.	2	2	2	4	4
9	PS-395	Fan Wheel	1				
9	PS-396	Fan Housing.	1				

* Not illustrated.

IMPORTANT: Always specify stoker model number

401 SERIES PNEUMATIC SPREADER STOKER

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D				
			PG 4C	PG 50	PG 51	PG 52	PG 53
9	PS-400	Belt Guard Spacer.	2				
9	PS-416	Motor Sheave	1				
10	PS-422	Motor Sheave			1		
9	PS-424	Belt Guard	1				
9	PS-475	Fan Housing Assembly.	1				
		Consists of:					
		1 - PS-352 Lower Tie Plate					
		1 - PS-354A Body Sheet					
		8 - PS-356 Tie Rod					
		2 - PS-357 Body Sheet Gasket					
		1 - PS-477 Leg - R.H.					
		1 - PS-478 Leg - L.H.					
10	PS-476	Fan Housing.		1	1	2	2
		Consists of:					
		2 - PS-357 Body Sheet Gasket					
		1 - PS-364 Body Sheet					
		8 - PS-366 Tie Rod					
		1 - PS-477A Leg - R.H.					
		1 - PS-478A Leg - L.H.					
9&10	PS-481	Indicator Vane Rod Bearing Plate.	1	1	1	2	2
9	PS-482	Indicator Vane Rod	1				
13	PS-1018VR	Air Duct and Volumeter Assembly - 24 in. Long	*				
		Consists of:					
		1 - PS-389 Volumeter Air Tube					
		1 - PS-736 Volumeter Diaphragm					
		1 - PS-1019 Air Duct - 24 in. Long					
		1 - V-2318 Regulator Rod Quadrant					
		1 - V-5185A Regulator Panel					
		1 - V-5317 Volumeter Lower Housing					
		1 - V-5823 Regulator Damper Rod					
		1 - V-5835A Volumeter Upper Housing					
		1 - V-6524 Diaphragm Piston Rod					
		1 - V-6526 Piston Rod Yoke					
		1 - V-6527 Yoke Pin					
		1 - V-6535 Regulator Blade					
13	PS-1020	Air Duct and Volumeter Assembly - 24 in. Long		*	*	*	*
		Consists of:					
		1 - PS-252 Regulator Damper Rod					
		1 - PS-255 Volumeter Air Tube					
		1 - PS-734 Regulator Blade					
		1 - PS-736 Volumeter Diaphragm					
		1 - PS-1021 Air Duct - 24 in. Long					
		1 - V-2318 Regulator Rod Quadrant					
		1 - V-5185A Regulator Panel					
		1 - V-5317 Lower Volumeter Housing					
		1 - V-5835A Upper Volumeter Housing					
		1 - V-6524 Diaphragm Piston Rod					
		1 - V-6526 Piston Rod Yoke					
		1 - V-6527 Yoke Pin					
9&10	PS-2265	Indicator Vane Frame.	1	1	1	2	2
10	PS-2278	Indicator Vane Plate.		1	1	2	2
9	PS-2279	Indicator Vane Plate.	1				
10	PS-2281	Indicator Vane Rod				2	2
10	PS-2282	Indicator Vane Rod		1	1		
10	PS-2296	Indicator Valve				1	1
12	PS-2366	Fan Sheave		1	1	2	2
11	PS-2367	Belt Guard				1	1
9&10	PS-2369	Indicator Cable	1	1	1	2	2
9&10	PS-2371	Cable Connector	1	1	1	2	2
9&10	PS-2372	Pipe Bracket	1	1	1	2	2
9&10	PS-2375	Sheave Housing Bracket	1	1	1	2	2
10	PS-2392	Motor Plate.		1	1	2	2
10	PS-2393	Indicator Air Tube		1	1	2	2

* As required

IMPORTANT: Always specify stoker model number

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D				
			PG 4C	PG 50	PG 51	PG 52	PG 53
11	PS-2394	Belt - Goodyear B-62.					2
*	PS-2395	Button Plug.		1	1	2	2
12	PS- 2458	Fan Shaft Assembly	1				
		Consists of:					
		1 - PS-131 Bearing					
		1 - PS-367 Fan Shaft					
9&10	V-111	Fan Screen	1	1	1	2	2
9&10	V-524	Fan Screen Ring	1	1	1	2	2
12	V-620	Bearing Cover Plate	1	1	1	2	2
12	V-623	Bearing Retainer	1	1	1	2	2
12	V-624	Bearing Cover Plate - Drive End	2	2	2	4	4
12	V-779	Bearing Retainer - Drive End		1	1	2	2
10	V-0222	Motor Plate Spacer			4	4	
		1/2-in. dia. x 1/4-in. pipe					
10	V-0225	Motor Plate Spacer					4
		1/2-in. dia. x 5/8-in. pipe					
10	V-0233	Motor Plate Spacer		4			
		1/2-in. dia. x 1-5/8-in. pipe					
11	V-5020	Motor Sheave				1	
12	V-5507	Bearing Retainer - Drive End	2	1	1	2	2
12	V-5508	Bearing Retainer		1	1	2	2
12	V-5512	Bearing Retainer Washer.		1	1	2	2
12	V-5524	Fan Shaft Nut	1	1	1	2	2
11	V-5553	Motor Sheave					1
10	V-5616	Motor Sheave		1			
9&10	41436	Indicator Valve Body Weight	1	1	1	2	2
9&10	41473	Indicator Valve	1	1	1	1	1
9&10	41477	Indicator Valve Body.	1	1	1	2	2
9&10	41526	Housing and Sheave Assembly	1	1	1	2	2
		Consists of:					
		1 - 40076 Spacer					
		2 - 40078 Washer					
		1 - 41231 Sheave Housing					
		1 - 41232 Sheave Housing Cover					
		1 - 41527 Cable Sheave					
9,10&11	51123	Belt - Goodyear B-60.	1	1	1	1	
10	51466	Air Tube Elbow		1	1	2	2
10	51467	Air Tube Connector		3	3	6	6

PARTS USED WITH 25 CYCLE MOTOR ON PG-4C FAN UNIT

9	PS-377	Motor Plate.	1				
12	PS-421	Motor Sheave	1				
*	PS-425	Auxiliary Fan Housing Inner Plate	1				
*	PS-426	Auxiliary Fan Housing Band.	1				
*	PS-427	Auxiliary Fan Housing Outer Plate	1				
9	PS-430	Fan Wheel	1				
		1-in. x 14-1/2-in.					
9	PS-432	Belt Guard	1				
9	PS-434	Motor Spacing Bar.	2				
9	PS-435	Belt - Gates #3680	1				
	Motor	1 H.P. - 1450 R.P.M., 220 Volt, 25 Cycle, 3 Phase, Ball-Bearing K-224 Frame					

PARTS USED WITH 60 CYCLE OVERSPEED ON PG-4C FAN UNIT

9	PS-377	Motor Plate.	1				
10	PS-421	Motor Sheave	1				
9	PS-432	Belt Guard	1				
9	PS-434	Motor Spacing Bar.	2				
9	PS-435	Belt - Gates #3680	1				
	Motor	2 H.P., 1750 R.P.M., 220 Volt, 60 Cycle, 3 Phase, K-224 Frame					

* Not illustrated.

IMPORTANT: Always specify stoker model number

FIG. NO.	PART NUMBER	PART NAME	QUAN. REQ'D				
			PG 4C	PG 50	PG 51	PG 52	PG 53
		OPTIONAL AIR DUCT EXTENSIONS AND ELBOWS FOR UNDERGRATE FAN UNITS					
*	PS-923	Air Duct Extension - 24-In.	**				
*	PS-927	Air Duct Extension - 48-In.	**				
*	PS-885	45° Elbow - Horizontal.	**				
*	PS-889	45° Elbow - Horizontal.		**	**	**	**
*	PS-893	90° Elbow - Horizontal.	**				
*	PS-898	90° Elbow - Horizontal.		**	**	**	**
*	PS-903	Vertical Elbow - Rectangular Outlet	**				
*	PS-907	Vertical Elbow - Rectangular Outlet		**	**	**	**
*	PS-911	Vertical Elbow - Square Outlet		**	**	**	**
*	PS-919	Vertical Elbow - Side Outlet.		**	**	**	**
*	PS-925	Air Duct Extension - 24-In.	**	**	**	**	**
*	PS-929	Air Duct Extension - 48-In.	**	**	**	**	**
		* Not illustrated ** As Required					

PARTS LIST IV

COMPONENT PARTS OF PS-2470 REPLACEMENT CONVEYOR FAN ASSEMBLY

FIG. NO.	PART NO.	PART NAME	QUAN. REQ'D
	PF-0225	Butt Nipple - 3/4-14 X 1" Long-Straight Pipe Thread (Not illustrated) .	1
	PF-0358	Nipple - 1/4" X 6" Long- For PS-2098 Fan Shaft Oilier (Not illustrated) .	1
4	PS-2097	Seal Ring	1
4	PS-2098	Fan Shaft Oilier	1
4	PS-2099	Breather Tube	1
4	PS-2100	Water Cooled Bearing Retainer	1
4	PS-2102	Leveling Studs.	3
4	PS-2103	Fan Spacer.	3
4	PS-2111	Fan Inlet Plate	1
4	PS-2114	First Stage Liner	1
4	PS-2116	Fan Interstage.	1
4	PS-2117	Second Stage Liner.	1
4	PS-2119	Conveyor Fan Housing.	1
4	PS-2123	Back Plate Insulation - 3/8" Thick.	1
4	PS-2125	Insulation Cover Sheet.	1
4	PS-2132	Wrapper Sheet	1
4	PS-2160	Fan Bearing Housing Support	1
4	PS-2176	Balancing Hub Assembly.	1
4	PS-2350	Seal Plate.	1
4	PS-2353	Dust Check Ring	1
4	PS-2410	Retainer Ring	1
4	PS-2434	Fan Wheel	2
4	PS-2461	Balance Ring.	1
4	PS-2462	Inner Balance Ring.	1
4	PS-2463	Fan Bearing Housing	1
4	PS-2465	Gasket.	1
4	PS-2468	Fan Shaft Assembly.	1
		Consists of:	
		4 - 40120 Retainer Ring	1 - 38298 Spacer
		1 - PS-2105 Fan Shaft	1 - PS-2466 Bearing -N.D.
		2 - PS-2460 Oilier Guide	#97507
		1 - PS-2467 Bearing - N.D. #97607	
4	PS-2484	Fan Housing Seal.	1
4	PS-2485	Fan Housing Seal.	2
4	40048	Key	2
	80348	Flare Nut (Not illustrated)	2
4	80689	Brass Elbow	2

IMPORTANT: Always specify stoker model number

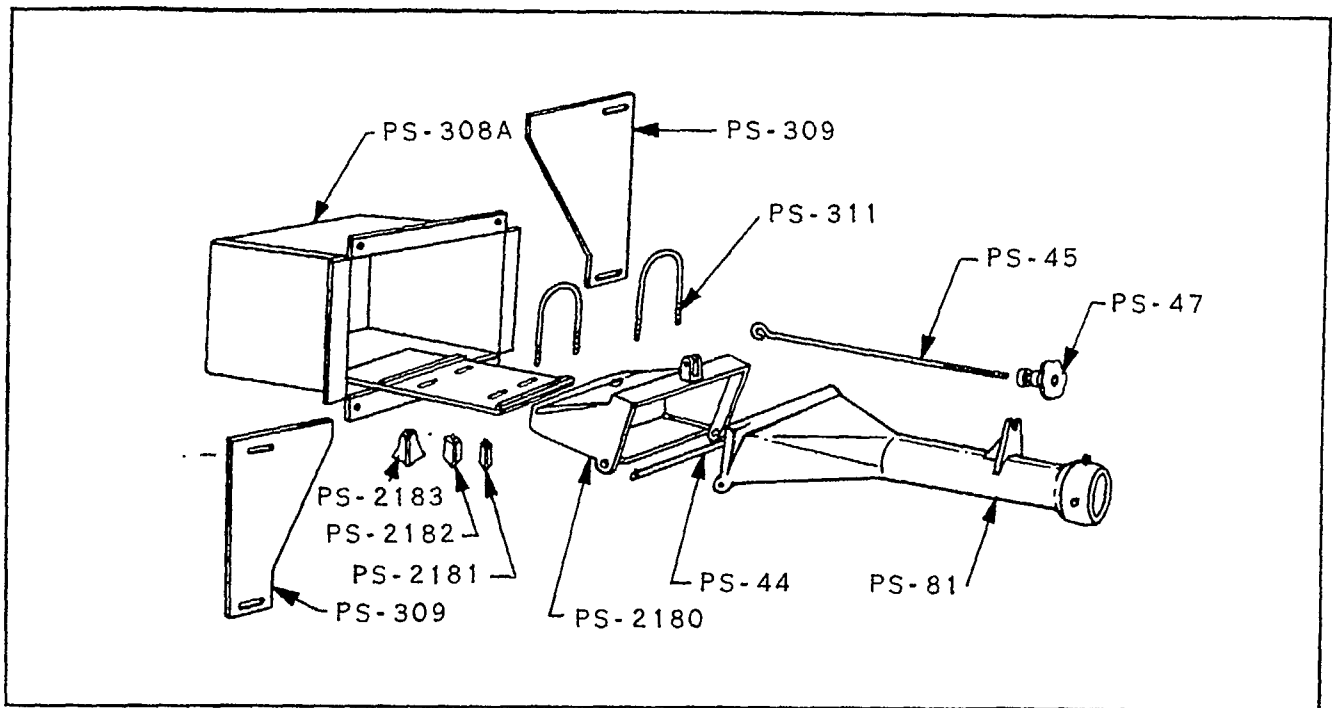


Figure 14 - PS-2413 Nozzle Assembly - Refer to Parts List I (Pg 10)

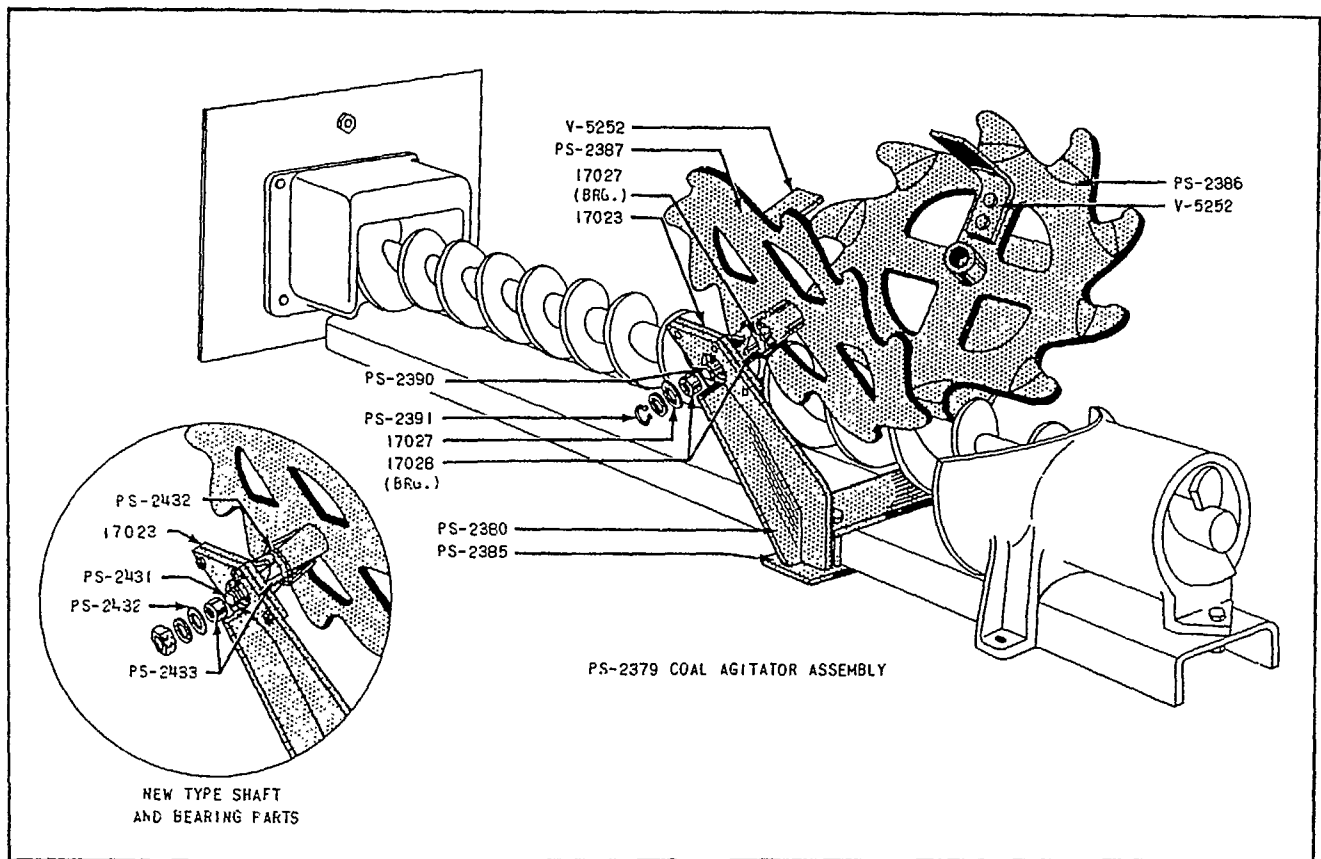


Figure 15 - Coal Agitator Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number

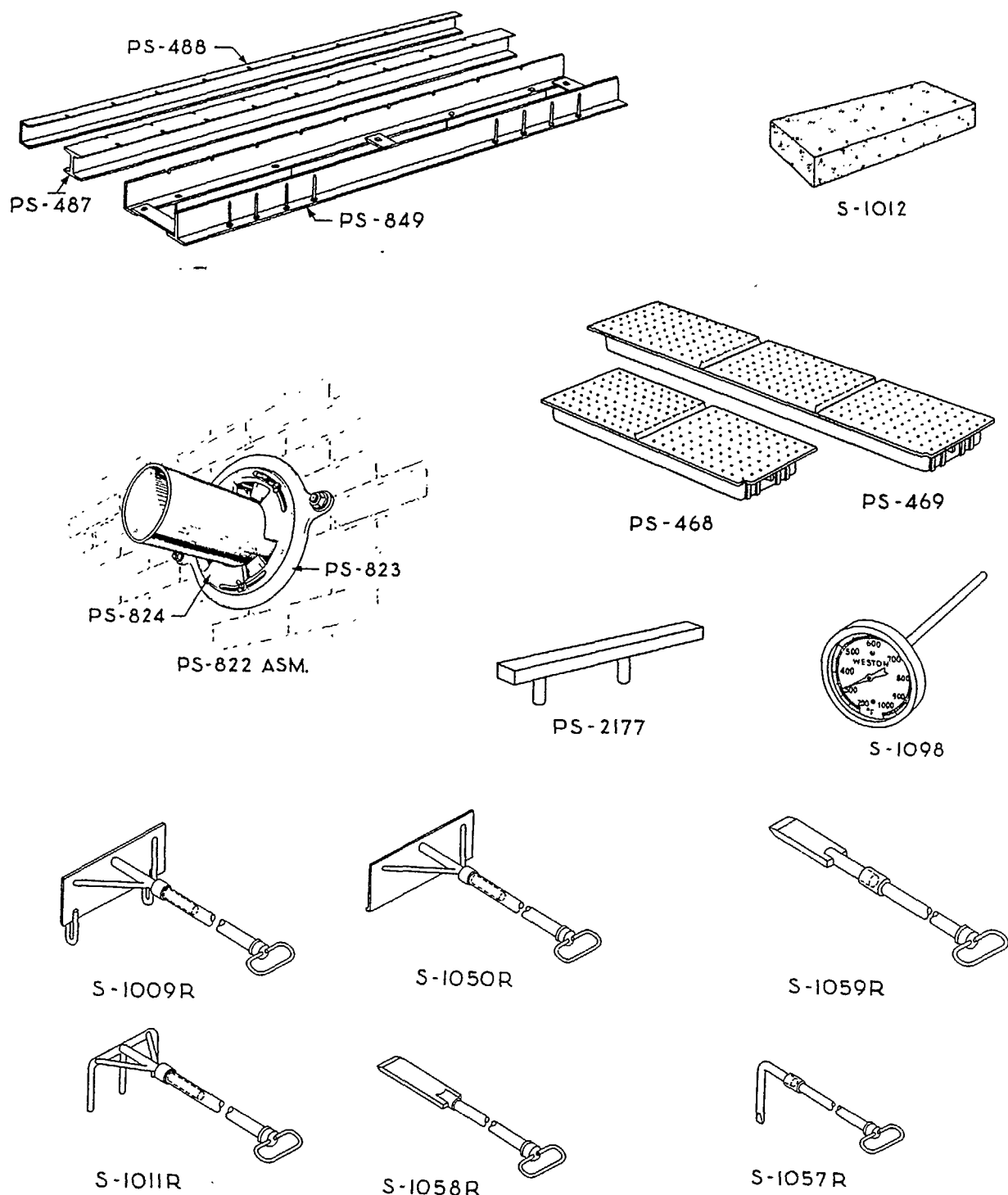


Figure 16 - Miscellaneous Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify storer model number

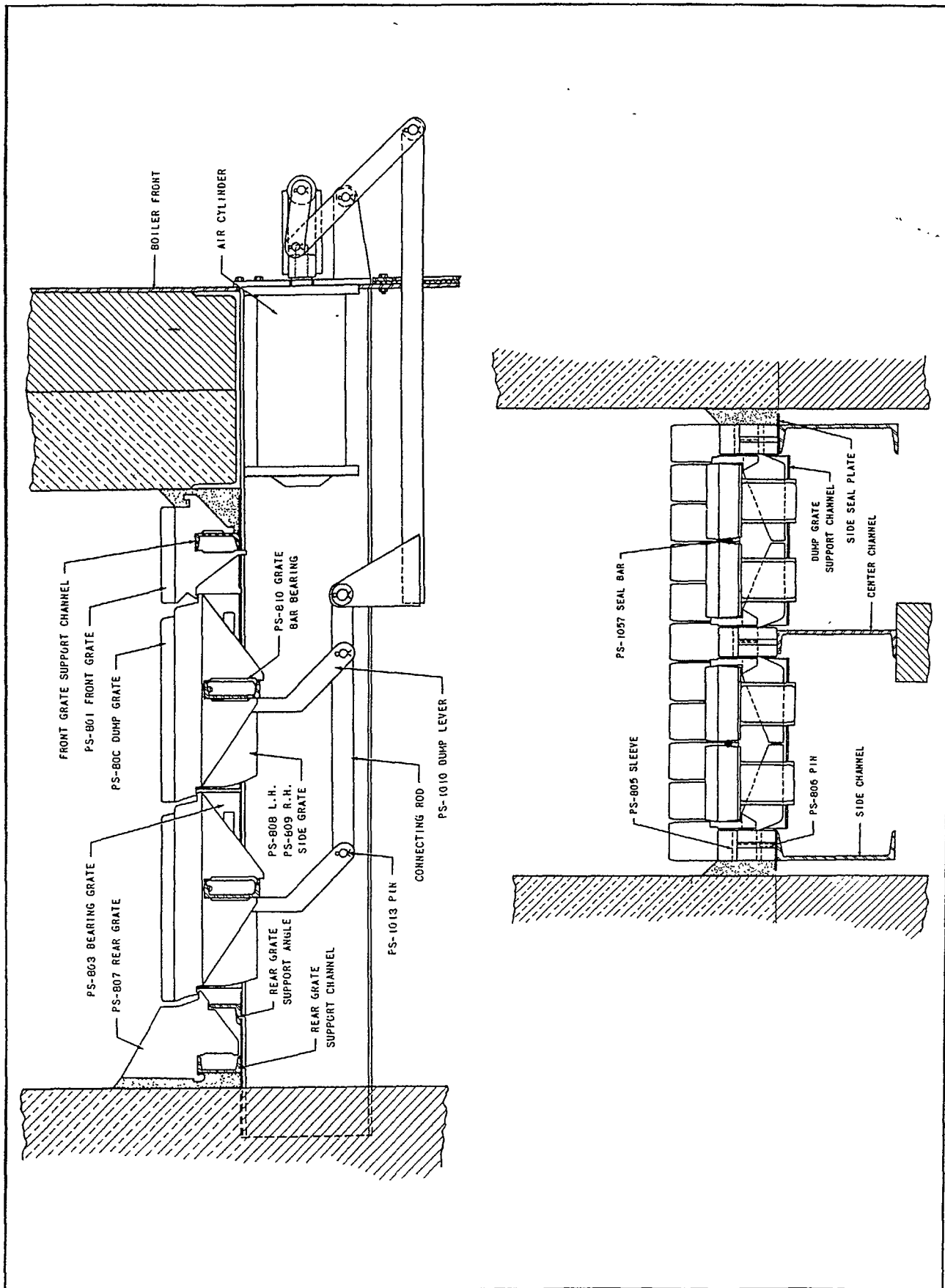


Figure 17 - Dump Grate Parts - Refer to Parts List I (Pg 10)

IMPORTANT: Always specify stoker model number

