

Wagner Division
Cooper Industries

Cooper Industries
Moog Automotive
P.O. Box 7224
St. Louis, MO 63177



July 29, 1997

Mr. Gil N. Laycock, Executive Director
Friction Materials Standards Institute, Inc.
588 Monroe Turnpike
Monroe, CT 06468

Subject: FMSI Bulletins

Dear Gil:

For the past several years you have been sending me the FMSI bulletins for distribution throughout the Wagner (Moog Automotive) organization. Since my responsibilities have changed recently and I am no longer directly associated with Moog's friction product line, I would like to ask you to forward all FMSI bulletins to John Mayer. John will have them distributed to the appropriate individuals in the Moog organization.

Thank you.

Sincerely yours,

A handwritten signature in cursive script that reads "Shirley Nelson".

Shirley A. Nelson
Engineering Services

/sn

cc: John Mayer

6565 Wells Avenue
St. Louis, MO 63133
314 977-0300



FMSI 15325

Cooper Industries
Wagner Brake Subsidiary
6565 Wells Avenue
St. Louis, MO 63133-2197
314-977-0300



February 20, 1995

Mr. Gil Laycock
Executive Director
Friction Materials Standards Institute
588 Monroe Turnpike
Monroe, CT 06468

Dear Gil:

Will you please add Greg Diecker as an alternate for Wagner Brake. His address should be the same as mine...6565 Wells Avenue, St. Louis, MO 63133-2197. I assume he will receive all publications.

Thanks.

Sincerely,


William A. Aymond
Vice President Operations

Friction Materials Standards Institute, Inc.

To GIL LAYCOCK

ACTIVE MEMBERS

CC

A. AARON

From J. May 2-13-95

Abex Friction Products	Winchester, Virginia
Division of Pneumo Abex Corporation	Rumford, Rhode Island
AlliedSignal Automotive Aftermarket	
AlliedSignal Automotive	
Friction Materials	Troy, Michigan
BBA Friction, Inc.	Dublin, Virginia
Brake Parts, Inc.	McHenry, Illinois
CECO Friction Products	Landis, North Carolina
Delco Chassis Division	
General Motors Corporation	Dayton, Ohio
Ferodo America, Inc.	Laverne, Tennessee
Fibro Friction Inc.	Montreal, Quebec, Canada
Friction Division Products, Inc.	Trenton, New Jersey
Friction Material Company, Inc.	Huntington, Indiana
Friction Products Company	Medina, Ohio
Frictiontech Inc.	Guelph, Ontario, Canada
Heavy Duty Friction Group	Prattville, Alabama
Hemispheres International	Downsview, Ontario, Canada
HKM of California, Corp.	Los Angeles, California
ITT Automotive - Parts Supply Div.	Auburn Hills, Michigan
Morse Automotive Corporation	Chicago, Illinois
Motion Control Industries	
Division of Carlisle Corporation	Ridgeway, Pennsylvania
Performance Friction Corporation	Clover, South Carolina
Reddaway Manufacturing Company, Inc.	Newark, New Jersey
Satisfied Brake Products	St. Laurent, Quebec, Canada
Scan-Pac Manufacturing, Inc.	Mequon, Wisconsin
Superior Friction, Inc.	Gardner, Massachusetts
TEK-Motive, Inc.	East Haven, Connecticut
Tenneco Automotive Brake	Cartersville, Georgia
Tenneco Heavy Duty Brake Ltd.	Concord, Ontario, Canada
Total Brake Industries	Dorval, Quebec, Canada
U.S. Automotive Manufacturing, Inc.	Tappahannock, Virginia
Ultra Brake Corporation	Boca Raton, Florida
Universal Friction Composites	Manheim, Pennsylvania
Vaapco, Inc.	Tappahannock, Virginia
Cooper Industries	
Wagner Brake Subsidiary	Chesterfield, Missouri
S.K. Wellman Corporation	Solon, Ohio
Wheeling Brake Block Manufacturing	Wheeling, West Virginia

SHOULD BE

COOPER INDUSTRIES
MOOG AUTOMOTIVE
WAGNER BRAKE SUBSIDIARY - - - - - ST. LOUIS, MISSOURI

DATA BOOK & Tech Committee

John M. Mayer
Brake Product Engineer

COOPER
Wagner Brake

Cooper Industries
Wagner Brake Subsidiary
6565 Wells Avenue
St. Louis, MO 63133-2197
Phone: 314-977-0718
Fax: 314-977-0905

Direct
to Mayer

Billamund 203
314-977-
↓

Mayer
Aymond
Wagner

- ROSTER
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 - OFFICE BOARD OF DIRECTORS Aymond
 - ALSO FOR CATHOLIC FILES

- Change Active Member List
To ST LOUIS MO. ADDRESS
- CATHOLIC LISTING Active member (Allen PAGES)
TO ST LOUIS MO

Cooper Industries
Wagner Brake Subsidiary
930 Roosevelt Parkway
Chesterfield, MO 63017
314 537-8700



July 20, 1993

Mr. Gil Laycock
Friction Materials Standards Institute
588 Monroe Turnpike
Monroe, CT 06468

Gil:

In regard to your letter of July 8, 1993, I wish to thank you for considering me for the position of Chairman of the Data Book and Technical Committee. The responsibilities and expenses connected with this position, particularly at the annual meeting, would however pose a problem in accepting this position.

With deep regret I must at this time decline your offer.

Thanks again for your offer. I am looking forward to continuing work as a member of the Data Book and Technical Committee, and our day-in and day-out activities concerning FMSI data.

Sincerely,

A handwritten signature in cursive script that reads "John M. Mayer".

John M. Mayer
Brake Engineering

sn
REF/JMM9319

cc: A. Aaron

FMSI 15329

TELEPHONE (203) 452-1877
FAX (203) 452-7951

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

October 14, 1993

Mr. John Mayer
Cooper Industries
Wagner Brake Subsidiary
930 Roosevelt Parkway
Chesterfield, MO 63017

Dear John:

During the Institute's Annual Meeting, Doug Willsie, Chairman of the Data Book and Technical Committee, reviewed a listing of those who were contributors of data to the Institute over the past year. Your name was high on the list and specifically noted as a major contributor. On behalf of the Officers, Board of Directors, Membership and myself, I would like to thank you for your excellent work.

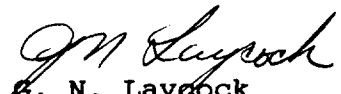
One can only hope that all members of the Institute would be as cooperative and forthcoming with data as you, however, in any group there will be leaders and followers. Through the efforts of your company and more specifically your contributions, you are definitely one of the leaders in the industry.

As we start into the gathering of 1994 data, we look forward to your continued excellent work.

Again, I would like to add my own personal thanks for your cooperation.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld

cc: Mr. W. Aymond

FMSI 15330

TELEPHONE (203) 452-1877
FAX (203) 452-7951

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

July 8, 1993

Mr. John Mayer
Cooper Industries
Wagner Brake Subsidiary
930 Roosevelt Parkway
Chesterfield, MO 63017

Dear John:

Enclosed are copies of the Meeting Report Booklets for the last 2 years. The Data Book and Technical Committee Reports are in Section 8 of both booklets. The report is partially generated by the new part and catalog information supplied by me. The report is given twice, at the Board of Directors Meeting and at the Membership Meeting.

Technical Committee Chairmen (Data Book, Brake Performance and Health and Environmental Affairs) attend all functions at the Annual Meeting. With the current schedule the functions are:

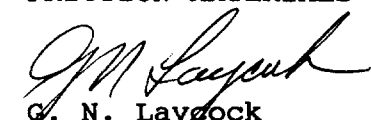
Friday - Reception - Officers, Directors & Technical
Committee Chairmen
Saturday - Board of Directors Meeting
Reception - Members
Sunday - Membership Meeting
Reception and Dinner - Members
Monday - Membership Meeting

Look over the reports. As Chairman, you can paraphrase Doug's Report or put things in your own words. Probably the hardest part (or at least it is for me) is standing at a microphone in front of 40 or 50 people and reading the report, but, it can be done.

Think it over and let me know if you would be interested in taking over the Committee replacing Doug Willsie.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld
Enclosure

FMSI 15331

Cooper Industries
Wagner Brake Subsidiary
930 Roosevelt Parkway
Chesterfield, MO 63017
314 537-8700



October 23, 1991

Mr. Gil Laycock
Friction Materials Standards Institute
588 Monroe Turnpike
Monroe, CT 06468

Subject: FMSI Assignments

REF: JMM-91-36

Gil:

Provided herewith are some new configurations which we believe need FMSI assignments.

1. 92-3501.01
Provided is one inner and one outer assembly from Audi Set 4A0698151. 7434-D555
2. 91-3562.01
Provided is one inner and one outer assembly from Subaru Set 26296PA020.
This set is similar to 7228-D333 except plate thickness and lugs on inner shoe. 7433-D554
3. 91-3571.05
Provided is one inner and one outer pad assembly from Nissan Set 41060-54C88. Two clip-on shims were provided in the set. 7428-D549
4. 92-3506.03
Provided is one of four identical pads from Mazda Set LAZ5-33-28Z. 7430-D551
5. 92-3511.02
Provided is one inner and one outer pad assembly from Mazda Set H3Y0-33-23Z.
Four clip-on insulators were provided in the set. 7431-D552
6. 92-3506.02
Provided is one of four identical pads found in Mazda Kit LAY3-33-28Z. 7429-D550
7. 92-3506-04
Provided is one of four identical drum shoe and linings found in Mazda Set B5Y7-26-38Z. 8104-S659

FMSI 15332

Mr. Gil Laycock
Friction Materials Standards Institute
Page 2
October 23, 1991

8. 92-3511.01

Provided is one inner and one outer assembly from Mazda Pad Set JOY1-26-43Z.
Four clip-on insulators were provided. This set is similar to 7277-D390.

7432-D553

The applications for the parts provided are shown on the attached data sheets.

Sincerely yours,

John M. Mayer

John M. Mayer
Brake Engineering

sn
attachment
cc: A. R. Wadum

WAGNER**Travel and Entertainment Expense Report**

NAME

JOHN MAYER

DATE OF TRIP

ST. LOUIS

PERIOD COVERED FROM

6-10-91

CONTRACT DETERMINATION NO.

132-493-54-7354

TO

6-12-91

EXPENSE ACCOUNT NO.

21

1 DATE	2 ACCOUNT VISITED CITY AND STATE (IF MEAL CONCERNED)	3 TRANSPORT	4 HOTEL	5 MEALS	6 ENTERTAINMENT	7 MISC.	8 TOTAL
6/10	TO HARRIS LAKE TAHOE FOR FMSI MEETING	558.00		5.50			563.50
6/11	FMSI-MEETING-LAKE TAHOE MISC 4.06=L.D. PHONE		105.84	7.70		4.06	117.60
6/12	FMSI-MEETING LAKE TAHOE MISC 3.07=L.D. PHONE TRAN. 8.40=RENTAL CAR GAS MISC 21.00=AIRPORT PARKING	114.48 8.40	105.84	7.80		3.07 8.40 21.00	231.19 8.40 21.00
NOTE: 558.00 AND 383.69 TO BE REIMBURSED BY FMSI							
TOTAL EXPENSE, OR CARRY OVER, FOR PERIOD		680.88	211.68	21.00		28.13	

BY:

John M. Mayer

NET AUTO EXPENSE (IF OTHER THAN STANDARD)

TOTAL EXPENSE FOR PERIOD

\$ 941.69

CARRY OVER TO PERIOD

AIRFARE
TO COOPER

558.00

CARRY OVER TO PERIOD

NOTE

558.00

TOTAL AMOUNT DUE COMPANY FROM FMSI

\$ 558.00

TOTAL AMT. DUE EMPLOYEE FROM FMSI

\$ 383.69

Instructions for use of columns:

Col. 2 Use as many lines as necessary for each day.

Col. 3 Railroad (RR), Air Travel (Air), Steamship (SS) or Auto Rental Firms (AR)

Col. 6 Entertainment- Show complete detail on (12-51380-000)

Col. 7 Miscellaneous- Tips (excluding meals)- Local transportation- Postage- Telegraph- Telephone
Total of columns 3 to 7 inclusive must equal total of column 8
Distribution: Send original to headquarters for reimbursement. 1st copy for departmental records. 2nd copy for individual file.

FMSI 15334



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PAGE 1

Name JOHN MAYER
Address % WAGNER BRAKE
Room L 541
Rate
Arrive 6/10/91
Depart 6/12/91
Persons 1
Deposit Amount
Company Name
Convention Code FMSI
Travel Agent No. 3145372227

930 ROSABELL PKW
CHESTERFIELD MO
63017
RES ID 333783642684
COL ID 333983791200
GUEST PAY FOLIO

☐ SMOKER
☐ NON SMOKER
☐ FIRST AVAILABLE ROOM
☐ C.A.P. ELEVATOR

CREDIT CARD HOLDER'S SIGNATURE (IF APPLICABLE)

EXPRESS CHECK-OUT ☐

EXPRESS CHECK-OUT AUTHORIZATION SIGNATURE

HARRAH'S HOPES YOU'VE ENJOYED YOUR STAY. Money or items of value must be placed in safe-deposit boxes which are provided without charge at the Front Desk, otherwise Harrah's will not be liable for any loss. CHECK-OUT TIME IS 12 NOON

DATE	REFERENCE	DESCRIPTION	PKT#	S	AMOUNT
6/10/91	333989000058	ROOM CHARGE L 541	L	541	98.00
		TAX			7.84
6/10/91	333983791201	APPLIED DEPOSIT			105.84
6/10/91	333983793061	LONG DISTANCE CALL	481A		4.06
	3148312119	EXT 541 06/10 18:12 481A			
6/11/91	333999000056	ROOM CHARGE L 541	L	541	98.00
		TAX			7.84
6/12/91	334003804766	LONG DISTANCE CALL	157A		3.07
	3148313771	EXT 541 06/12 09:56 157A			

C/O CASHIER

TOTAL 112.97

FMSI 15335

11-11-11

102.00

[illegible]

22

2

Other authors have found that 17% of women

NAME OF ASSIGNED MAVER/JOHN	FROM	TO
STLDD1431H	10 JUN	MLE7P50
XSLCD1455H	10 JUN	MLE7P50
ORMD011575H	12 JUN	MLE7P50

CARRIER	FLIGHT CLASS	DATE
STL		
CARRIER		
CARRIER		

 0 006 1344528030 2
 NOT VALID FOR TRAVEL
 UNCO
 WT
 PCS
 BAGGAGE & HUNDRA

IT IS UNLAWFUL TO PURCHASE OR RESELL THIS TICKET FROM/TO ANY
THIRD PARTY OTHER THAN THE ORIGINAL CARRIER OR ITS AUTHORIZED AGENTS

PARK N FLY
YOUR RECEIPT
THANK YOU

0154 01 1 06/13/91

Cash Receipt

SAVE THIS COPY FOR YOUR RECORDS

INITIAL TO VERIFY
EXPIRATION DATE

THE TERMS OF THIS AGREEMENT ARE CONTAINED ON BOTH SIDES OF THIS PAGE.

695609

INVOICE NUMBER

VEHICLE TAG NO	STATE	AUTHOR
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I HEREBY ACKNOWLEDGE RECEIPT OF A COMPLETED COPY OF THIS AGREEMENT, INCLUDING CURRENT TERMS OF THE CREDIT CARD AGREEMENT REFERENCED ON THE REVERSE SIDE.

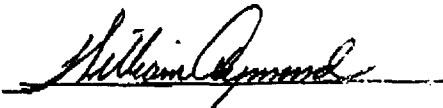
X
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AGREEMENT OR IF ANY SPACES INTENDED
AGREED TERMS ARE LEFT BLANK. RETAIN
COPY. YOU MAY AT ANY TIME PAY OFF THE

FMSI 15336

FEBRUARY 1, 1991

ANNOUNCEMENT

WAGNER BRAKE SUBSIDIARY OF COOPER INDUSTRIES, INC. WILL BE DISCONTINUING ENGINEERING OPERATIONS AT THE CRAIG ROAD FACILITY IN ST. LOUIS. THE PHASEOUT OF ENGINEERING OPERATIONS WILL TAKE APPROXIMATELY 90 DAYS. ENGINEERING FUNCTIONS WILL BE TRANSFERRED TO VARIOUS FACILITIES INCLUDING THE DIVISION OFFICE AND SEVERAL PLANT LOCATIONS. THE COMPANY HAS ADVISED THE UNION THAT DURING THE PHASEOUT PERIOD ALL BARGAINING UNIT EMPLOYEES DIRECTLY AND INDIRECTLY RELATED TO SUCH OPERATIONS WILL BE TERMINATED. SALARIED EMPLOYEES WILL BE MET WITH ON AN INDIVIDUAL BASIS TO DISCUSS INDIVIDUAL OPPORTUNITIES AND/OR SEVERANCE PACKAGES.



William Aymond

V.P. Operations



WAGNER BRAKE

file
314 537 8700

November 12, 1990

F.M.S.I
% Marshall Granger & Company
1600 Harrison Avenue
Mamaroneck, NY 10543

Dear Sir or Madam:

Please initiate the following changes for Cooper Industries, Wagner Brake Subsidiary, 930 Roosevelt Parkway, Chesterfield, MO 63017.

Current Delegate

Thomas R. Rokos
Vice President, Operations

Alternate Delegate

Thomas Scott
145 North Beacon Street
Brighton, MA 02135

Contact:

Debra J. Davis
Executive Secretary, Operations
Wagner Brake
930 Roosevelt Parkway
Chesterfield, MO 63017

Change To:

William A. Aymond
Vice President, Operations

William F. Little
Productos De Frenos
4630 Border Village Road
Suite O - 689
San Diego, CA 92073

Executive Secretary, Operations
Wagner Brake
930 Roosevelt Parkway
Chesterfield, MO 63017



WAGNER

We are in the process of some reorganization and would appreciate these above changes being initiated.

If you have any questions, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads 'Debra J. Davis'.

Debra J. Davis

Executive Secretary, Operations

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

December 12, 1990

Mr. John Mayer
Wagner Division
Cooper Industries
1848 Craig Road
St. Louis, MO 63146

Dear John:

Enclosed is a copy of the last 5 years (approximately) of FMSI assignments with O.E. part number and edgcode taken from original sample. This listing is intended to replace the "Semi-Metallic" Bulletin which we traditionally have published in February. Since we will no longer be making the arbitrary decision of is it semi-met or not and no longer publish a "Semi-Met" Bulletin.

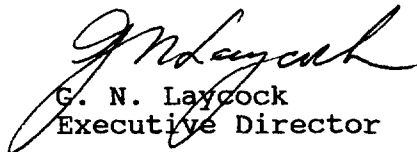
Obviously this is not a complete list of all O.E. numbers that correspond to FMS assignments with the edgcode, but we have tried to get all the information we had in our files into this list.

There are a few areas where we do not have either the O.E. part number of material type. These are marked with "N/A". Knowing that you have a wealth of history in your files or parts room could you take a look at those areas where we have "N/A" and give us what you have to fill in the holes.

We will be distributing this listing in February to all Delegates and Alternates in place of the "Semi-Metallic" Bulletin. So if you could take a look for the missing information at your convenience it would be appreciated. Thank you.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld
Enclosure

TELEPHONE (203) 452-1877
FAX (203) 452-7951

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

November 28, 1990

Mr. Tom Wall
Cooper Industries
Wagner Brake Subsidiary
930 Roosevelt Parkway
Chesterfield, MO 63017

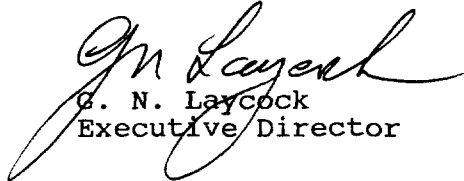
Dear Tom:

Thank you for your note concerning the Delegate and Alternate from Wagner Brake. We look forward to your participation at the Annual Meeting, June 10-12, 1991 at Harrahs, Lake Tahoe.

Enclosed is a copy of the minutes of our 1990 Annual Meeting along with the report booklet of the various reports which are presented by the Officers and Committee Chairmen at the meeting. You may want to look them over to see who attends and what sort of business is conducted at the meeting.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE



G. N. Laycock
Executive Director

GNL:ld
Enclosures

FMSI 15341

TELEPHONE (203) 452-1877
FAX (203) 452-7951

FRICITION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

November 15, 1990

Mr. John Mayer
Wagner Division
Cooper Industries
1848 Craig Road
St. Louis, MO 63146

Dear John:

Re: Mazda 626, MX6

We assigned FMS 7288-D514 to Mazda part G211-33-28Z per your data sheet 89-3526.4 with application 1989 MY. D514 shoe is D399 without holes in outside radius.

Please refer to your data sheet 90-3502.5 for 1990 Mazda 626, MX6 part number GN60-33-28Z. Would this also be a 7288-D514 assignment?

Thank you.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE



G. N. Laycock
Executive Director

GNL:ld

FMSI 15342



WAGNER BRAKE

Thomas D. Wall
Vice President and
General Manager

October 31, 1990

Mr. Gil Laycock
F.M.S.I.
588 Monroe Turnpike
Monroe, CT 06468

Dear Gil:

Thanks for the call to remind me about our representatives to F.M.S.I.
Here are our preferences:

Delegate	Thomas D. Wall Vice President and General Manager
----------	--

Alternate	William A. Aymond Vice President of Operations
-----------	---

I look forward to meeting with you soon.

Sincerely


TDW:rqd

copy: William Aymond

930 Roosevelt Parkway
Chesterfield, Missouri 63017
(314) 537-8700

FMSI 15343

TELEPHONE (203) 452-1877
FAX (203) 452-7951

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

October 16, 1990

Mr. John Mayer
Wagner Division
Cooper Industries
1848 Craig Road
St. Louis, MO 63146

Dear John:

Enclosed is a copy of the minutes of the 1990 FMSI Annual Meeting which was held last June in Stuart, Florida. For your reference next years meeting is scheduled for Harrah's - Lake Tahoe, June 10-12, 1991. You may wish to pencil this in on your calendar.

Also, should anyone ask, you do not have to be a Delegate or Alternate to attend the meeting. For instance in the "Others Present" section of page 1, only Max Sleeth - President and Ed Kaufman were Alternates, all others were "guests".

When talking to Tom Wall today, I got the impression that there will be an increase in FMSI Annual Meeting participation by Wagner which is welcome.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld
Enclosures

FMSI 15344

TELEPHONE (203) 452-1877
FAX (203) 452-7951

FRICION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

August 31, 1990

Mr. John Mayer
Wagner Division
Cooper Industries
1848 Craig Road
St. Louis, MO 63146

Dear John:

Referring to your sheets 90-3545 and 90-3583, the 1990 Hyundai Excel (1990 Mitsubishi Precis) set 58101 24A00 is not 7293-D440, due to steel, pad and O.A.T. differences. Otherwise configuration is the same.

Hyundai 58101 32A00
7293-D440

Pad	.382
Steel	<u>.197</u>
OAT	.579

Hyundai 58101 24A00

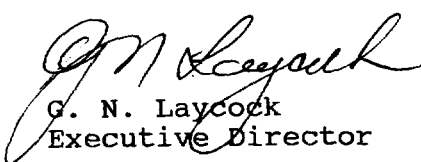
Pad	.358
Steel	<u>.236</u>
OAT	.594

Material is different also, but that does not affect the change. We are getting samples from Allied to verify 58101 24A00 dimensions for new assignment.

FYI

Sincerely,

FRICION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld

FMSI 15345

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

August 21, 1990

Mr. Arnold Waddam
Wagner Division
Cooper Industries
1848 Craig Road
St. Louis, MO 63146

Dear Arnold:

At the June 1989 Annual Membership Meeting a Rivet Pattern Subcommittee of the Data Book and Technical Committee was established. Your name was submitted as a possible participant on this Committee.

A number of concerns were also expressed by several members of the Institute concerning the function of the Committee and its effect upon the Institute. After obtaining a legal opinion from the Institute counsel, reviewed by the Board of Directors and a careful reading of the Institute Constitution, it was decided that the Committee function to "Recommend" Rivet Patterns was not in the best interest of the Institute. It also did not concur with Article II, Section d of the Institute's Constitution which reads in part:

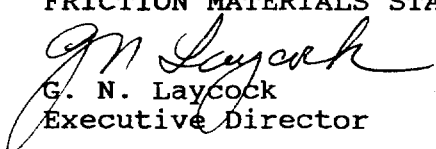
The object of this Institute shall be to collect, assemble and disseminate to members of the said industry, scientific, engineering, technological, statistical and other relevant information...

The decision to disband this Committee was made by the Board of Directors at the 1990 June Annual Meeting on June 11th and presented to those members present at the Membership Meeting on June 12th. This decision is detailed in the Minutes of the Membership Meeting which will be distributed shortly.

The Institute would like to thank you for your willingness to participate on this Committee and support of the Institute. We look forward to your continued support. Thank you.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

TELEPHONE (203) 452-1877
FAX (203) 452-7951

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

August 2, 1990

Mr. John Mayer
Wagner Division
Cooper Industries
1848 Craig Road
St. Louis, MO 63146

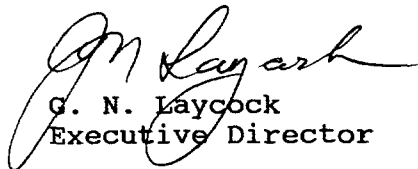
Dear John:

Referring to your letter of July 20, JMM-90-73, concerning Toyota 04495-12181 FMSI 372 shoe. We have decided to go with the 372 shoe assignment and modify drawing to show hole or notch alternate configurations. As you noted, you already have a 50/50 mix of these in your bond shops.

The S635 shoe number will be used for another assignment since it was not published. You, Allied Signal and Brake Parts Inc. were the only parties involved in the discussions and all are aware of the continued use of the 372 shoe.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld

FMSI 15347



WAGNER

July 20, 1990

Mr. Gil Laycock
Friction Materials Standards Institute, Inc.
588 Monroe Turnpike
Monroe, CT 06468

Subject: FMSI 372 vs. S-635 Shoe Core

Gil:

Reference your letter of July 12, 1990. In reviewing the history and previous OEM samples on the question of should there be an S-635 shoe assignment, we have noted that there are four OEM service part numbers involved in this question. They are as follows:

<u>OEM Number</u>	<u>Wagner Ref Number</u>	<u>Application</u>
04495-12181	90-3536	Toyota Corolla 4 W.D., 1990
04495-12130	89-3535	Toyota Corolla 4 W.D., 1988-89
04495-12060	82-384	Toyota Corolla 1200 CC 1979-75
04497-12010	74-906	Toyota Corolla 1200 CC 1974-71

We have also learned that the 04497-12010 set has been superseded by 04495-12060.

In checking OEM samples of 04495-12181, 04495-12130 and 04495-12060, we have found that these three sets have shoes that match the configuration on your S-635 print. We do not have OEM samples of the original 04497-12010 set. We believe that it does match the original FMSI 372 configuration because about 50 percent of our used shoe cores were found to match the original 372 and about 50 percent of our used cores were reported to match the S-635 configuration.

The question for the FMSI on this matter is, do we wish to reassign a new S-635 shoe for applications back to 1975, or should the 372 shoe have notes added to the illustration to indicate a design change occurred in 1975 which is interchangeable with the 372 shoes produced prior to 1975. I lean towards keeping the 372 designation for the newer applications (75-90). This is, however, a matter which other FMSI members may have differing and more significant views on. A

Very truly yours,

John M. Mayer
John M. Mayer
Brake Engineering

sn

cc: R. Bueler
B. Chabot
T. Kindell

C. Stallworth
A. Wadum

Wagner Division
Cooper Industries, Inc.
1848 Craig Road
St. Louis, Missouri 63146

211/851-5210

John

S635 SHOE NOT ISSUED
We will show 372 shoe
AND modify DRAWING
TO SHOW Hole or Cut-out
We will ^{RE-}use S635# Since
IT WAS NOT PUBLISHED AND
REF: JMM-90-73
ALL INVOLVED HAVE BEEN ADVISED
THAT WE WILL use 372
GIL

FMSI 15348

TELEPHONE (203) 452-1877
FAX (203) 452-7951

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

July 12, 1990

Mr. John Mayer
Wagner Division
Cooper Industries
1848 Craig Road
St. Louis, MO 63146

Dear John:

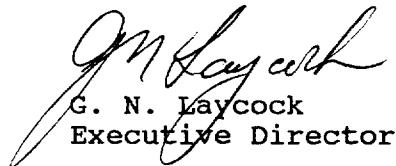
Re your sheet 89-3535-3, your p/n 372A. We have received two sample from Bendix and Brake Parts Inc. of the shoe which is similar to 372. The two parts were Toyota part numbers 04495-12131 and 04495-12181. They had different materials and were listed for 1989 and 90 respectively.

In addition to the hole you noted as replacing the cut out in the web, the notch for the parking brake strut appears to be a different configuration (if the 372 shoe drawing is representative of the original sample).

We have assigned shoe number S635 to the "new" part. I am enclosing copies of both drawings for your reference.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld
Enclosures

FMSI 15349

TELEPHONE (203) 452-1877
FAX (203) 452-7951

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

July 10, 1990

Mr. John Mayer
Wagner Division
Cooper Industries
1848 Craig Road
St. Louis, MO 63146

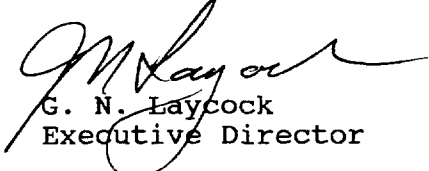
Dear John:

You supplied me the sample for 7369-D489 and I believe I may have missed two features when I drew up the sketch. There are a couple of upsets or nicks in the back of the steel which I am told hold snap-on wear sensors.

Could you check your sample and mark on the enclosed drawing the approximate size and position of the upsets. Thank you.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

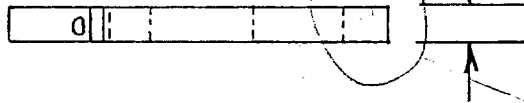
GNL:ld
Enclosures

FMSI 15350

ORIGINAL

SHOE FMS D489

Eight insulators per set, clip-on,
four steel and four steel/rubber
composite.
Two insulators on each assembly.

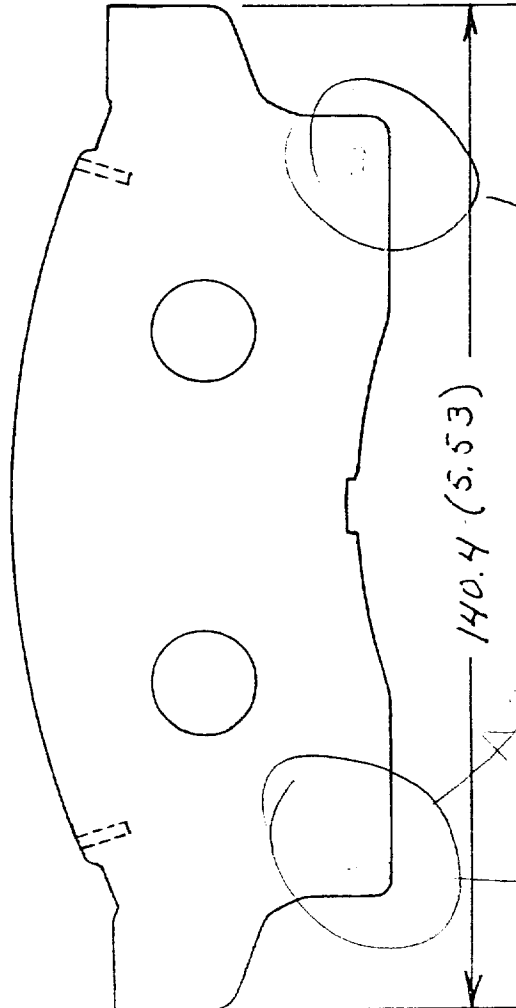


Insulator

If the insulator is not
used, the shoe will be
clip on and will be
used.

Clip on and will be
used.

Insulator



Assembly: FMSI 7369-D489
Application: 1991 Toyota MR2 with 2.0L Front
OEM Number: (set of four assemblies) 04491 17120

This drawing was prepared from
a sample. It may not have
sufficient detail to be used
for manufacturing purposes.

When dimensioned in millimeters,
inches are shown parenthetically.

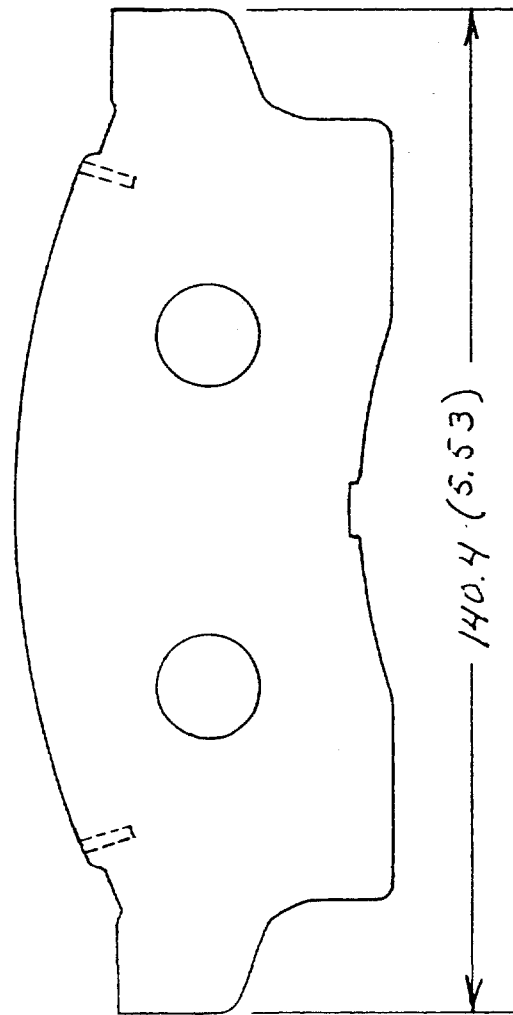
FMSI® and FMSI® are registered
trademarks of the Friction
Materials Standards Institute.

SHOE FMS D489

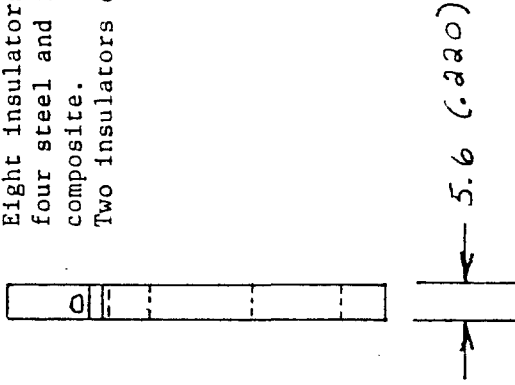
MAY 23 1990

ORIGINAL

SHOE FMS D489



Eight insulators per set, clip-on,
four steel and four steel/rubber
composite.
Two insulators on each assembly.



Assembly: FMSI 7369-D489
Application: 1991 Toyota MR2 with 2.0L Front
OEM Number: (set of four assemblies) 04491 17120

This drawing was prepared from
a sample. It may not have
sufficient detail to be used
for manufacturing purposes.

When dimensioned in millimeters,
inches are shown parenthetically.

FMSI® and FMSI® are registered
trademarks of the Friction
Materials Standards Institute.

SHOE FMS D489

MAY 23 1990

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

July 9, 1990

Mr. John Mayer
Wagner Division
Cooper Industries
1848 Craig Road
St. Louis, MO 63146

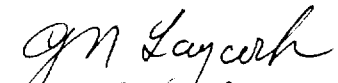
Dear John:

Enclosed is a copy of the legal opinions of Richard LeBlancq of Harwood Lloyd Counsellors at Law, Hackensack, NJ, concerning the Institute "recommending" rivet patterns for parts which are O.E.-I.M. This along with the Institutes' Constitution (copy enclosed) Article II Section D were the major factors considered when the Board of Directors voted to abolish the "Rivet Pattern" Sub-Committee.

It will be a while before the minutes of the Membership Meeting are reviewed by legal so I figured I would send you these in advance.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld
Enclosures

TELEPHONE (203) 452-1877
FAX (203) 452-7951

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

May 18, 1990

Mr. John Mayer
Wagner Division
Cooper Industries
1848 Craig Road
St. Louis, MO 63146

Dear John:

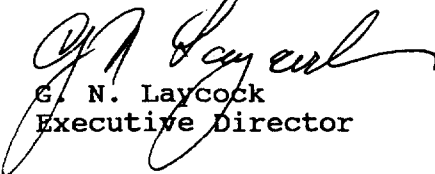
Please refer to the enclosed copies of your letters of March 19th and 27th, which accompanied samples. We will be shipping these back to you shortly.

While I was working on the above, I received 3 boxes of samples from Ray Boggia at Allied Aftermarket, E. Providence, RI. However, I will finish up your other two boxes of "stuff" first.

Keep those cards and letters coming.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE



G. N. Laycock
Executive Director

GNL:ld
Enclosures

FMSI 15354



WAGNER

March 19, 1990

Mr. Gil Laycock
Friction Materials Standards Institute, Inc.
588 Monroe Turnpike
Monroe, CT 06468

REF: JMM-90-22

Gil:

Provided herewith are the following items for which we believe new FMSi assignments are needed.

1. 90-3532.01

186-D482 Provided is one of four identical pads from Mazda Set FB06-49-280A. This is the rear set for 1990 RX7. Insulators were not provided. This set is the same as FMSI 7186-D332 except the projection on the back of the shoes have been moved higher.

Also provided herewith for your comparison is an FMSI 7186-D332 assembly.

2. 90-3512.02

1360-D479 Provided is one inner and one outer assembly from Nissan Kit 44060-21P85. This is the rear semi-metallic set for 1990 Infiniti Coupe.

3. 90-3512.04

363-D481 Provided is one of three identical assemblies and one unique inner assembly found in Nissan Kit ~~440-60087~~ 44060-60086. This is the rear set for Infiniti Sedan.

4. 90-3531.02

7365-D484 Provided is one inner and one outer assembly from Mitsubishi Set MB699174. This is the front set for Eagle Talon.

5. 90-3530.01

364-D483 Provided is one of four identical pads found in Porsche Set 964-352-94901. This is the rear organic set for 911 with 2 W.D.

Very truly yours,

John M. Mayer
John M. Mayer
Brake Engineering

sn

Enclosures

cc: Mr. R. C. Bueler
Ms. J. F. McKinney
Mr. A. R. Wadum

Wagner Division
Cooper Industries, Inc.
1848 Craig Road
St. Louis, Missouri 63146

314/851-5340

5/17/90

JOHN

WHAT ABOUT

MITSUBISHI-ECLIPSE

& PLYMOUTH-LASER

Gil Laycock

FMSI 15355



WAGNER

March 27, 1990

Mr. Gil Laycock
Friction Materials Standards Institute, Inc.
588 Monroe Turnpike
Monroe, CT 06468

JMM-90-24

Gil:

Provided are the following parts which we believe need new FMSI assignments.

- 434-S632 1. 88-8502.05 & 07
Provided is one International rear shoe 4406-0Z5-066 for LFE 400 88-87.
- 1433-S631 2. 90-3524.04
Provided is one reverse shoe from Nissan Kit 44060-37G26. The forward shoes in the set were the same as the reverse except less pivot pins. This is the rear shoe for 1990 Nissan 4 WD truck.
- 7362-0480 3. 89-3529.01
Provided is one inner and one outer shoe from Subaru Set 725193040 for 1989 Justy DL and GL front.

Your attention to this request is most appreciated.

Very truly yours,

John M. Mayer
John M. Mayer
Brake Engineering

sn

Enclosures

cc: Ms. J. F. McKinney
Mr. A. R. Wadum

Wagner Division
Cooper Industries, Inc.
1848 Craig Road
St. Louis, Missouri 63146
314/851-5340

FMSI 15356



WAGNER BRAKE

The Laycock -

For your information

Mary Farren

April 25, 1990

Marshall Granger & Company
1600 Harrison Avenue
Mamaroneck, New York 10543

Dear Sir or Madam:

Enclosed is the information requested by Friction Materials standards Institute to be reported to your firm.

✓ Please note and make the appropriate change to your records, Brenda Matthews is no longer with Wagner. The new contact name is Ms. Debra J. Davis. The address remains the same. please relay this information to the appropriate parties within your organization and to Friction Materials Institute.

Sincerely,

Debra J. Davis
Debra J. Davis
Executive Secretary

*Historical
Sales*

ADDRESS LIST

NAME CHANGE

:155-2

TELEPHONE (203) 452-1877
FAX (203) 452-7951

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

March 28, 1990

Mr. John Mayer
Wagner Division
Cooper Industries
1848 Craig Road
St. Louis, MO 63146

Dear John:

Re: Your Sheet 90-3507, Ford Motor Company Item 3 Front Pads for
1990 Lincoln Continental Mark VII

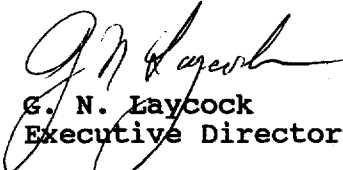
In the strict interpretation of our rule for new assignments the set should have a new puck and steel assignment. Our assignment was 7082B-D200 and we have gone to press with it for the 1990 Catalog. However, comparing the Published sizes with your measurements we see the following:

	<u>STEEL</u>		<u>LINING</u>	
	<u>IN</u>	<u>OUT</u>	<u>IN</u>	<u>OUT</u>
7082B-D200	.224	.220	.450	.400
Your Measurements	<u>.232</u>	<u>.189</u>	<u>.416</u>	<u>.373</u>
Difference	.008	.031	.034	.027

We will write to FDP to see if we can get the latest drawings.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE


G. N. Laycock
Executive Director

GNL:ld

FMSI 15358

TELEPHONE (203) 452-1877
FAX (203) 452-7951

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

March 15, 1990

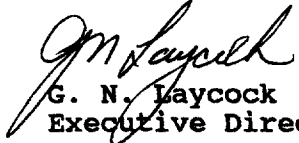
Mr. John Mayer
Wagner Division
Cooper Industries
1848 Craig Road
St. Louis, MO 63146

Dear John:

Referring to your note of February 22, 1990, concerning the Mitsubishi "Drum in Hat" parking brake 596 shoe. We included the information in the 1990 Catalog which is at the printer.

I wonder if the same situation applies to the 1415-610 shoe set. You sent us the samples. Could you check your sources?

Sincerely,


G. N. Laycock
Executive Director

GNL:ld

TELEPHONE (203) 452-1877
FAX (203) 452-7951

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

March 9, 1990

Mr. Paul Wiehl
Wagner Division
Cooper Industries, Inc.
200 Circle Drive North
Piscataway, NJ 08855

Dear Paul:

Referring to our conversation concerning the 1988 Automotive Data Books which you have in inventory, the Institute would like to Purchase 1,000 of the Catalogs if it acceptable to you.

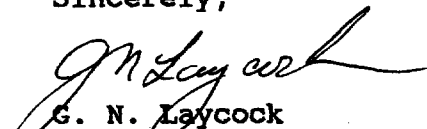
Another possible way of handling the transaction would be for the Institute to have Tweddle invoice us for 1,000 of your 1990 Catalogs and invoice you for the balance of your order. We could handle this when the orders are sent to Tweddle.

We are audited annually and I would like to keep the books as clean as possible. I would have difficulty explaining the appearance of 1,000 Catalogs at no cost.

I feel that when the 1990 Catalogs are published some demand for the 1988 Edition may be generated because there are over 100 entries in the 1990 book which say "see 1988 book" for deleted items due to our 14 year window.

Let me stress, again, that the Institute wants to pay for the Catalogs. We can handle it with an invoice from Wagner for the Catalogs or an adjustment in the billing for the 1990 Catalogs. Please let me know which way you want to proceed. That is provided you can spare the 1,000 1988 Automotive Data Books.

Sincerely,


G. N. Laycock
Executive Director

GNL:ld

FMSI 15360

TO GIL LAYCOCK-FMSI

The illustrations are arranged according to size by overall length.

Drawings 353-361

(Dwg. 353)
SHOE D257-I
7106A

156.5
(6.16)

Plate 5.0
(.197)

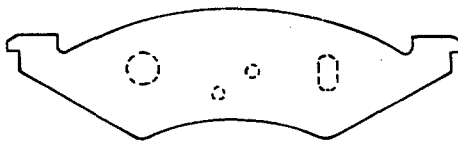


Insulators

(Dwg. 354)
SHOE D257-O
7106A

156.5
(6.16)

Plate 5.0
(.197)

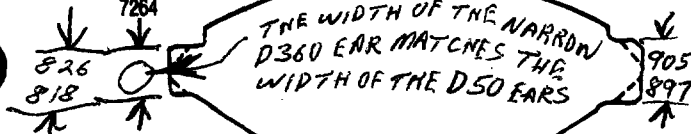


Third lug added to position insulators

(Dwg. 355)
SHOE D360-I
788
SHOE D375-I
7264

157.5
(6.20)

Plate 5.7
(.224)

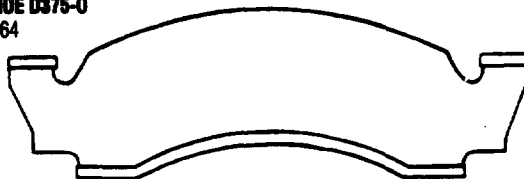


D360 riveted; D375 molded

(Dwg. 356)
SHOE D360-O
788
SHOE D375-O
7264

182.9
(7.20)

Plate 4.2
(.165)

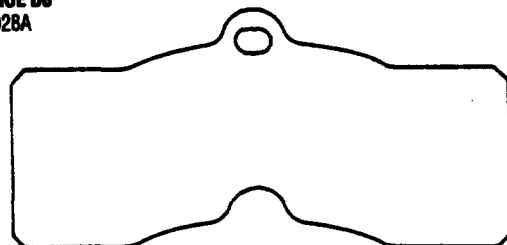


D360-O = D50-O
D360 riveted; D375 molded

(Dwg. 357)
SHOE D8
7028A

6.21

Plate .125



(Dwg. 358)
SHOE D50-I
788
7013A

6.21

Plate .224

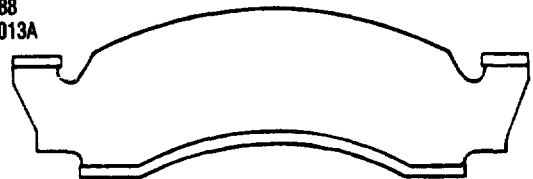


OEM Shoes have insulator

(Dwg. 359)
SHOE D50-O
788
7013A

7.20

Plate .164

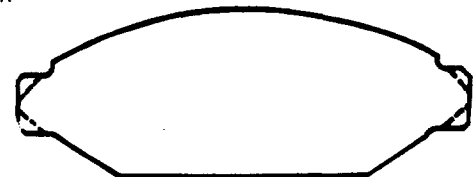


OEM Shoes have insulator
Replacement Outer Shoes have bent flange guides
for attaching to caliper

(Dwg. 360)
SHOE D92-I
7013A

6.24

Plate .224

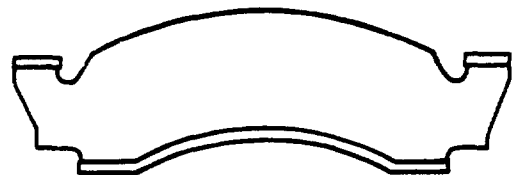


Slightly longer with end sections narrower than
D-50-I. OEM Shoes have insulator

(Dwg. 361)
SHOE D92-O
7013A

7.20

Plate .164



Same as D-50-O
OEM Shoes have insulator

INCORRECT
SHOULD READ SOMETHING LIKE
"D360 WIDER RIGHT HAND EAR
THAN D50"

John Mayur
9/26/89

TELEPHONE (203) 452-1877
FAX (203) 452-7951

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

588 MONROE TURNPIKE
MONROE, CT 06468

December 27, 1989

Mr. John Mayer
Wagner Division
Cooper Industries
1848 Craig Road
St. Louis, MO 63146

Dear John:

Referring to your letter JMM-89-133, concerning 597 and 601 shoe assignments, we agree. We are cancelling the 601 shoe assignment. The correction will appear in the next shoe Bulletin No. 153.

Sincerely,

Friction Materials Standards Institute, Inc.


G. N. Laycock
Executive Director

GNL:ld

FMSI 15362



WAGNER

JMM-89-133
314-851-5340

September 19, 1989

FRICTION MATERIALS STANDARDS INSTITUTE
Bergen Mall Office Center
E-210, Route #4
Paramus, NJ 07652

Attn: Gil Laycock

Subject: FMSI Assignments 597 vs 601

*Cancelled
Bulletin #
153*

Gil:

Provided herewith for your review is one FMSI 597 shoe from Toyota set 04495-01030 and one FMSI 601 shoe from Toyota set 04495-12100. I believe the 601 shoe is a duplicate of the 597 shoe. This problem was brought to my attention by Mr. Edgar Flores of E.P.E. Incorporated. In looking over my records on these part numbers, it appears that the 601 shoe was sent in while we were waiting for the 597 assignment to be issued. Somehow we missed picking up on the duplication.

If you agree, I propose that the 601 assignment be cancelled on the next shoe bulletin.

Very truly yours,

WAGNER DIVISION
COOPER INDUSTRIES, INC.

John M. Mayer

John M. Mayer
Brake Engineering

JMM:dr

cc: R. C. Bueler
E. Flores
A. R. Wadum

Wagner Division
Cooper Industries, Inc.
1848 Craig Road
St. Louis, Missouri 63146

FMSI 15363



WAGNER

Re: JMM-89-129
314-851-5340
Page 1 of 2

September 7, 1989

FRICTION MATERIALS STANDARDS INSTITUTE
Bergen Mall Office Center
E-210, Route #4
Paramus, NJ 07652

Attn: Gil Laycock

Gil:

Confirming our phone conversation of 9/6/89 and in reply to your letter of 8/31/89, please be advised of the following:

You are correct, our 89-3527 data sheet is incorrectly indicating that the Toyota rear pad set 04492-22090 is used on 1989 Toyota truck applications. After reviewing your question with our sources at Chilton, we were advised that the 04492-22090 (FMSI 7319-D432) set is only used on rear Cressida applications.

Your information is also correct which indicates that the 04495-30040 shoe set is not used on 1989 Toyota Camry as indicated on our 89-3527 data sheet. The correct Toyota part number for the rear shoe set on 1989 Camry should be 04495-32021 based on a recheck of OEM cataloging information.

In regards to the shoes which were inadvertently given the FMSI-S611 assignment based on our previous application data, we agree that the S611 assignment should be cancelled. The shoes in the 04495-30040 set were functional equivalents of the FMSI 387 shoes except indented shoe rides were used in place of the original lanced type shoe ride. As this appears to be an OEM service product change, current FMSI policy does not allow for the recognition of this change.

Wagner Division
Cooper Industries, Inc.
1848 Craig Road
St. Louis, Missouri 63146

FMSI 15364



WAGNER

JMM-89-129
Page 2 of 2

One other item noted on our review of the 387 versus S611 shoe assignment was that the last published illustration of the 387 shoe only shows two shoe rides on the shoe table edge. There are actually three lanced shoe rides on each side of the table. We do not have a FMSI print of the 387 shoe to determine if the center shoe ride is also missing on the FMSI print. If it is, we can provide a sample 387 shoe to enable the drawing to be updated.

Thanks for bringing this problem to our attention before it adversely affected our cataloging and we regret the inconvenience this has caused the FMSI.

Very truly yours,

WAGNER DIVISION
COOPER INDUSTRIES, INC.

A handwritten signature in cursive script that reads 'John M. Mayer'.

John M. Mayer
Brake Engineering

JMM:dr

cc: R. C. Bueler
C. Stallworth/Chilton
A. R. Wadum
P. Wiehl

FMSI 15365

FRICION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

August 31, 1989

Mr. John Mayer
Wagner Div. Cooper Ind. Inc
1848 Craig Road
St. Louis, MO 63146

Dear John,

We have gotten several inquiries concerning two assignments we made from your sheet 89-3527 and samples for Toyota. The first involves 89-3527-2, the rear pads for Item 1 - Cressida, Truck 4x2, 1/2 ton w/ long & extra long bed. One member has checked the O.E. micro-fiche for rear caliper and pad set for the trucks and can find none. He also checked with the dealer and they have no listing for a rear disc on the truck. He also just bought a 1989 Toyota truck so he is familiar with the vehicle. He said the Cressida listing is OK. Would you please double check your sources and advise before we issue a correction.

The second question concerns 89-3527-4, the rear shoe for a 1989 Camry. Two shoe suppliers say P/N 04495-30040 is an old shoe for Toyota Crown 1968-1972 - FMSI 8108-387. Copies of their inquiries are attached. Util says the 1989 Camry rear is P/N 04495-32020/1 - FMSI 1385-587 a carry over from 1988. Again, please double check your sources and advise before we cancel the S611 assignment and publish a correction.

Sincerely.

FRICION MATERIALS STANDARDS INSTITUTE

G.N. Laycock
Executive Director

*Bulletins 151 & 369
corrections
issue corrected
for both*

*No Rear
Disc on
Toyota
Truck*

Cancel S611

*Toyota Camry
1385-587*

PART REQUEST # 89-3527 Sheet 1 of 3 Car Mfg. - Toyota Date-12/05/88
 Car Mfg. - Toyota Year-SEE TEXT Originated by-BBA Date-12/05/88
 DEC 21 1988

Action Record			M=Marketing			C=Chilton			E=Engineering		
Action by	Date	Items	Copies	Action by	Date	Items	Copies	Action by	Date	Items	Copies
C BBA	12/05/88	ALL	NO								
M-PW	12/20/88	1-5	JM BC								
E-JMM	2-3-89	5	PW BK BC								

Type & Model Coverage Part name, Details, Contents of Kits	Pos Mfg E/C	Qty Syr Sls	List Price OEM Part #	Size	Cov Dec	Wagner Part #	In Pgms Y/N Date	Release # & Date		Remarks
								S	F	
1 / Cressida, truck 89 incl. 1/2 ton w/long & extra long bed	F	1	✓ \$17.79 04491 22280	ORGANIC	Y ✓ N	9310-11413				SUMITOMO M2238 FF
2 Set Disc Pad PAD for Item #1	R	1	✓ \$24.45 04492 22090	ORGANIC	Y ✓ N	9319-11413				NOTHING USE N 1111 FMSI 7206 SUMITOMO M2231-FF
3 Set Disc Pad PAD Bellera Supra 89	F	1	✓ \$30.33 04491 14240	ORGANIC	Y ✓ N	9321 11413				SUMITOMO M2238 FF FMSI-7231-FF
4 Set Disc Pad PAD Camry Supra 89 Two Spac supplies from 88 SAY CARRY OVER FROM 88 1285-587 Brake shoe SHD	R	1	✓ \$18.64 04495 30040	9x2	Y ✓ N	8082-11				NBAK DON 242-FF
5 Camry w/2.0L 4 cyl. produced at TM plant 4 INSULATORS PER SET Set Disc Pad PAD	F	1	✓ \$14.87 04491 32280	ORGANIC D356	Y ✓ N	7247	NO 2/3/89			FMSI 7247-D356 SUMITOMO M-2238FF



FACTORY
1091 Nagatoro, Saku-city, Nagano-pref.
385 JAPAN
TEL:0267-67-1161 FAX:0267-67-1833

OVERSEAS DIVISION
3F Takanawa No.6 Bldg.
2-4-2 Chome, Hachobori, Chuo-ku
TOKYO, 104 JAPAN
TEL: 03-555-1531 FAX: 03-555-1266
TLX: 2524601 TMKP-J

JULY 5, 1989

FRICTION MATERIALS STANDARDS INSTITUTE, INC.
EAST 210 ROUTE 4,
PARAMUS,
NJ 07652

Attention: Mr. E. W. Drislane,
Executive Director

Dear Sirs,

Firstly we would like to take this opportunity to thank you
for the informations of FMS and FMSI.

We have an inquiry regarding your last informations of brake
shoe.

This item, SHOE FMS S611 on following sheet have registered
long time ago, so we consider that this shoe is not used for new
model cars at the present time.

We would appreciate if you cofirmed once again.

Looking forward to receiving your comments by return.

Thanking you in anticipation.

Sincerely yours,

MK KASHIYAMA CORP.


M. Hayashi, General Manager
Overseas Dpt.

FMSI 15368

UTIL AUTOMOTIVE, INC.

GARDENA, CALIFORNIA
TELEFAX: (213) 329-9895

FAX MESSAGE NO.:

1157

DATE:

7/26/89

NUMBER OF PAGES:
(INCLUDING THIS ONE)

1

FROM: UTIL AUTOMOTIVE, INC.

FROM THE DESK OF:

Chris Erickson

TO: F.M.S.I.

TO THE ATTENTION OF:

Gil Laycock

Gil, I think there is an error with the assignment of 8098 S611, 1989 Toyota Camry rear 04495-30040. The information I have shows that the '89 Camry w/shoes is 04495-32020/1 FMSI # 1385-587. The picture shown & OE # 04495-30040 is FMSI # 8108-387. Fitting '68-'72 Toyota Crown. Please advise.

Thank You,
Chris Erickson

Fast

For Information of Employees

6/16/89

*Rec'd
6/20/89*

WAGNER TO BECOME TWO DIVISIONS

In order to pursue the growth opportunities in our major product lines and to give them the management and staff attention this requires, plans are being made to divide what is now the Wagner Division into two businesses.

Between now and the end of the year, we expect to regroup our present operations under two new divisions as shown below:

WAGNER ELECTRIC DIVISION

Belden Automotive
Wire & Cable Operations
Dumas, AR
Naperville, IL
Memphis, TN

Wagner Lighting Operations
Boyertown and Weatherly, PA
Sevierville and Sparta, TN

Lighting Engineering Center
Whippany, NJ

WAGNER BRAKE DIVISION

Wagner Operations
Boaz, AL

Century Operations
St. Louis, MO

Distribution Center
Piscataway, NJ
Kansas City, KS
Torrance, CA
Dallas, TX
Tulahoma, TN

Brake Fluid Operations
St. Louis (Berkeley), MO

Brake Engineering Center
St. Louis, MO

Guardian Operations
Brighton, MA
Fort Worth, TX

Remanufacturing Facilities
Torrance, CA
Hilliard, OH
Memphis, TN

Wagner Canada
Bramalea, Ontario

Frank Hayes will become Vice President and General Manager of the Wagner Electric Division.

John Gethin, formerly Executive Vice President of Echlin, Inc. in Branford, Connecticut will be joining Cooper as Vice President and General Manager of the Wagner Brake Division.

This reorganization anticipates the transfer of the headquarters offices of Wagner Brake from its present location in ParsIPPany, New Jersey to St. Louis, Missouri. We expect this move to begin in late August or early September and to be completed by the end of the year. Some people will be asked to make the transfer. Others will be asked to remain on the job until the move has been completed, for which severance pay will be paid.

The Wagner Electric Division headquarters will remain in ParsIPPany.

C. Baker Cunningham
Executive Vice President - Operations

6/16/89

REC'D
6/20/89

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Lighting Engineering Center
Whippany, NJ

WAGNER BRAKE DIVISION

Wagner Operations
Boaz, AL

Century Operations
St. Louis, MO

Distribution Center
Piscataway, NJ
Kansas City, KS
Torrance, CA
Dallas, TX
Tulahoma, TN

Brake Fluid Operations
St. Louis (Berkeley), MO

Brake Engineering Center
St. Louis, MO

Guardian Operations
Brighton, MA
Fort Worth, TX

Remanufacturing Facilities
Torrance, CA
Hilliard, OH
Memphis, TN

Wagner Canada
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C. Baker Cunningham
Executive Vice President - Operations

FRICION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

June 16, 1989

Mr. John M. Mayer
Wagner Division
Cooper Industries
1848 Craig Road
St. Louis, MO 63146

Dear John:

We are currently working on your latest shipment of new parts and have encountered a question that you can probably answer. We are working on your item 89-3541.1 Porsche 944.351.951.02. While there are significant differences in both pad and steel to use new numbers for both a question came up on the size of the D251 steel.

The D251 steel shows a length dimension of 89.0 mm (3.50"), copy of drawing attached. However, both the new sample 89-3541.1 and the old sample 82-391.2 measure 89.7 mm (3.53"). Could you check your manufacturing drawing to verify the length dimension on the D251 steel?

I have just encountered the same situation on your item 89-3541.2 Porsche 951.351.939.04. Your sample measures (with Verniers) 3.846" - (3.85 rounded to two places) or 97.7 mm. Could you check your manufacturing prints for your 7238-D345 set for the length dimension?

Also, your item 89-3541.3 Porsche part 928.351.939.04 measures 5.185" (5.19 rounded). The referenced part 7262-D372 is shown as 5.16 length. Could you check your manufacturing prints for your 7262-D372 for the length dimension?

Looking at the Porsche materials, the three samples of Textar T400FF and Textar T426FF, they do not fit what has been seen domestically as semi-metallic with the major ingredients being steel wool and iron powder. Therefore, we classified them as "organic (High Metal Content)".

Thank you for your assistance.

Sincerely,

FRICION MATERIALS STANDARDS INSTITUTE

G. N. Laycock
Executive Director

GNL/dr
Enc.

FMSI 15372

VENDOR NAME		TELEPHONE		VENDOR NO.	
STREET ADDRESS		CITY	STATE	ZIP	NO. EMPLOYEES AT THIS COMPANY
NAME OF PARENT COMPANY AND ADDRESS:					
☐ A DIVISION ☐ A SUBSIDIARY ☐ AN AFFILIATE OF:					
☐ SMALL ☐ LARGE BUSINESS		☐ MANUFACTURER ☐ DISTRIBUTOR		MINORITY OWNED? ☐ YES ☐ NO	
				IDENTIFY STATE IN WHICH PRODUCT IS MANUFACTURED:	
THIS FIRM IS:					
1. SELLER ☐ HAS ☐ HAS NOT HELD CONTRACTS OR SUBCONTRACTS SUBJECT TO THE EQUAL OPPORTUNITY CLAUSE OF EXECUTIVE ORDER 11246, AS AMENDED.					
2. SELLER ☐ HAS ☐ HAS NOT FILED THE ANNUAL EQUAL EMPLOYMENT OPPORTUNITY INFORMATION REPORT EEO-1 AND ALL OTHER REQUIRED REPORTS (SEE 4)(OFR 60-1.7).					
3. SELLER ☐ WILL ☐ WILL NOT FILE EQUAL EMPLOYMENT OPPORTUNITY INFORMATION REPORT EEO-1 WHEN REQUIRED.					
4. THE EQUAL EMPLOYMENT OPPORTUNITY PROGRAM OF THIS FIRM ☐ HAS ☐ HAS NOT BEEN SUBJECT TO A GOVERNMENT EQUAL OPPORTUNITY COMPLIANCE REVIEW. IF SO, WHEN?					
5. SELLER ☐ HAS ☐ HAS NOT DEVELOPED A WRITTEN AFFIRMATIVE ACTION PROGRAM.					
6. SELLER ACKNOWLEDGES RECEIPT OF COMPLIANCE CERTIFICATION INFORMATION SHEET CONTAINING CERTIFICATIONS OF NON-SEGREGATED FACILITIES AND AGREES TO THE TERMS OF THE EQUAL OPPORTUNITY CLAUSE, AFFIRMATIVE ACTION COMPLIANCE PROGRAMS, EQUAL EMPLOYMENT OPPORTUNITY REPORTING REQUIREMENTS, EMPLOYMENT OF THE HANDICAPPED CLAUSE, SMALL BUSINESS, LABOR SURPLUS AREA AND MINORITY BUSINESS ENTERPRISE REQUIREMENTS, LISTING OF EMPLOYMENT OPENINGS FOR VETERANS AND SELLER HEREBY ☐ AGREES AND CERTIFIES ☐ DOES NOT AGREE AND CERTIFY, IN ACCORDANCE THEREWITH.					
SIGNATURE				TITLE	
				DATE	

WAGNER ELECTRIC CORPORATION

Boston Operations

May 12, 1989

TO ALL GUARDIAN SUPPLIERS:

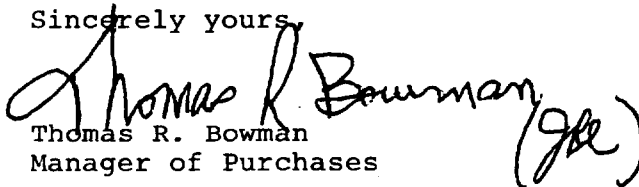
In accordance with applicable government and prime contract requirements, we are required annually to verify the business size of our suppliers and subcontractors, and validate their compatibility with existing government policies dealing with equal opportunity, minority business and surplus labor practices.

Executive orders 11246 and 11375, as amended, and the rules and regulations of the Secretary of Labor provide that, without regard to number of employees, government prime contractors and subcontractors must solicit certification on non-segregated facilities and include the **Equal Opportunity Clause** requirements with any purchase order or contract exceeding amounts prescribed by law. To reduce the number of requests for certifications, we are maintaining our records based on annual certification, insofar as possible.

Accordingly, we ask that you complete and return the enclosed compliance certification form within fifteen (15) days of receipt. Response to the question concerning number of employees should take all employees into consideration, including those of affiliates, subsidiaries and parent company.

Your continued cooperation and expedient reply is appreciated.

Sincerely yours,


Thomas R. Bowman
Manager of Purchases

TRB:cpn70
Attachment

PLEASE USE ENCLOSED RETURN ADDRESS ENVELOPE

Compliance Certification Information Sheet

I. EQUAL OPPORTUNITY

A. NON-SEGREGATED FACILITIES REQUIREMENTS

Notice to prospective subcontractors of requirement for certification of non-segregated facilities.

A Certification of Non-segregated Facilities, is required by 41 CFR, Part 60-1, as amended. It must be submitted prior to the award of a subcontract exceeding \$10,000 which is not exempt from the provisions of the Equal Opportunity Clause. The Certification must be submitted before award of subcontract and annually thereafter. (Note: The penalty for making false statements in offers is prescribed in 18 USC 1001.)

2. Certification of Non-Segregated Facilities

The bidder, offeror, applicant, or seller certifies that he does not maintain or provide for his employees any segregated facilities at any of his establishments, and that he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. He certifies further that he will not maintain or provide for his employees any segregated facilities at any of his establishments, and that he will not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The bidder, offeror, applicant, or seller agrees that a breach of this Certification is a violation of the Equal Opportunity Clause in this order. As used in this Certification, the term "segregated facilities" means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion or national origin, because of habit, local custom or otherwise. He further agrees that (except where he has obtained identical certifications from proposed subcontractors for specific time periods) he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of Equal Opportunity Clause; that he will retain such certifications in his files; and that he will forward the following notice to such proposed subcontractors (except where the proposed subcontractors have submitted identical Certifications for specific time periods):

NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENT FOR CERTIFICATIONS OF NON-SEGREGATED FACILITIES

A Certification of Non-Segregated Facilities, as required by 41 CFR, Part 60-1, as amended, must be submitted prior to the award of a subcontract exceeding \$10,000 which is not exempt from the provisions of the Equal Opportunity Clause. The Certification may be submitted either for each subcontract or for all subcontracts during a period (i.e., quarterly, semi-annually, or annually). (Note: The penalty for making false statements in offers is prescribed in 18 USC 1001.)

B. EQUAL OPPORTUNITY CLAUSE

During the performance of this order, Seller agrees as follows:

1. Seller will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. Seller will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. Seller agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Contracting Officer setting forth the provisions of this non-discrimination clause.
2. Seller will, in all solicitations or advertisements for employees placed by or on behalf of Seller, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
3. Seller will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided by the agency Contracting Officer, advising the labor union or workers' representative of Seller's commitments under Section 202 of Executive Order 11246, as amended, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. Seller will comply with all provisions of Executive Order 11246, as amended, and of the rules, regulations, and relevant orders of the Secretary of Labor.
5. Seller will furnish all information and reports required by Executive Order 11246, as amended, and by the rules, regulations and orders of the Secretary of Labor, or pursuant thereto, and contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

6. In the event of Seller's non-compliance with the non-discrimination clauses of this order or with any of such rules, regulations, or orders, this order may be canceled, terminated, or suspended in whole or in part and Seller may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order 11246, as amended, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246, as amended, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
7. Seller will include the provisions of paragraphs 1 through 7, in every subcontract or purchase order unless exempted by rules, regulations or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order 11246, as amended, so that such provisions will be binding upon each subcontractor or vendor. Seller will take such action with respect to any subcontract or purchase order as the contracting agency may direct as a means of enforcing such provisions including sanctions for non-compliance, provided, however, that in the event Seller becomes involved in, or is threatened with litigation with a subcontractor or vendor as a result of such direction by the contracting agency, Seller may request the United States to enter into such litigation to protect the interests of the United States.

C. AFFIRMATIVE ACTION COMPLIANCE PROGRAMS (applicable to orders amounting to \$50,000 or more if Seller has 50 or more employees)

1. Paragraph 60-1.40 of 41 CFR, Part 60-1, stipulates that each prime contractor and subcontractor shall require each subcontractor who has 50 or more employees and a subcontract of \$50,000 or more to develop a written affirmative action compliance program for each of its establishments. Within 120 days from the commencement of the contract, each subcontractor shall maintain a copy of separate affirmative action compliance programs for each establishment, including evaluations of utilization of minority group personnel and the job classification tables, at each local office responsible for the personnel matters of such establishment. An affirmative action compliance program shall be part of the manpower and training plans for each new establishment and shall be developed and made available prior to the staffing of such establishment. A report of the results of such program shall be compiled annually and the program shall be updated at that time. This information shall be made available to representatives of the agency or Director upon request and the subcontractor's affirmative action program and the result it produces shall be evaluated as part of compliance review activities.

D. EQUAL EMPLOYMENT OPPORTUNITY REPORTING REQUIREMENTS (applicable to orders amounting to \$10,000 if Seller has 50 or more employees)

1. Seller will complete and file Government Standard Form 100, Equal Employment Opportunity Employer Information Report EEO-1, in accordance with the instructions contained therein.
2. Notification of compliance with the above requirement shall be furnished to buyer, either by letter of duly executed McGraw-Edison Company Form 6070, Compliance Certification Check List.

E. EMPLOYMENT OF THE HANDICAPPED CLAUSE

This clause applies to all nonexempt contracts and subcontracts which exceed \$2,500 as follows: (1) Part A applies to contracts and subcontracts which provide for performance in less than 90 days, (2) Parts A and B apply to contracts and subcontracts which provide for performance in 90 days or more and the amount of the contract or subcontract is less than \$500,000, and (3) Parts A, B, and C apply to contracts and subcontracts which provide for performance in 90 days or more and the amount of the contract or subcontract is \$500,000 or more.

PART A

- (A) The Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap in regard to any position for which the employee or applicant for employment is qualified. The Contractor agrees to take affirmative action to employ, advance in employment and otherwise treat qualified handicapped individuals without discrimination based upon their physical or mental handicap in all employment practices such as the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship.
- (B) The Contractor agrees that, if a handicapped individual files a complaint with the Contractor that he is not complying with the requirements of the Act, he will (1) investigate the complaint and take the appropriate action consistent with the requirements of CFR 741.29 and (2) maintain on file for three years, the record regarding the complaint and the actions taken.
- (C) The Contractor agrees that, if a handicapped individual files a complaint with the Department of Labor that he has not complied with the requirements of the Act, (1) he will cooperate with the Department in its investigation of the complaint, and (2) he will provide all pertinent information regarding his employment practices with respect to the handicapped.

- (D) The Contractor agrees to comply with rules and regulations of the Secretary of Labor in 20 CFR Ch. VI, Part 741.
- (E) In the event of the Contractor's non-compliance with the requirements of this clause, the contract may be terminated or suspended in whole or in part.
- (F) This clause shall be included in all subcontracts over \$2,500.

PART B

- (G) The Contractor agrees (1) to establish an affirmative action program, including appropriate procedures consistent with the guidelines and the rules of the Secretary of Labor, which will provide the affirmative action regarding the employment and advancement of the handicapped required by P.L. 93-112, (2) to publish the program in his employee's or personnel handbook or otherwise distribute a copy to all personnel, (3) to review his program, on or before March 31 of each year and to make such changes as may be appropriate, and (4) to designate one of his principal officials to be responsible for the establishment and operation of the program.
- (H) The Contractor agrees to permit the examination by appropriate contracting agency officials or the Assistant Secretary for Employment Standards or his designee, or pertinent books, documents, papers and records concerning his employment and advancement of the handicapped.
- (I) The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices in a form to be prescribed by the Assistant Secretary for Employment Standards, provided by the contracting officer stating contractor's obligation under the law to take affirmative action to employ and advance in employment qualified handicapped employees and applicants for employment and the rights and remedies available.
- (J) The Contractor will notify each labor union or representative of workers with which he has a collective bargaining agreement or other contract understanding, that the contractor is bound by the terms of Section 503 of the Rehabilitation Act, and is committed to take affirmative action to employ and advance in employment physically and mentally handicapped individuals.

II. SMALL BUSINESS, LABOR SURPLUS AREA AND MINORITY BUSINESS ENTERPRISE REQUIREMENTS

A. UTILIZATION OF MINORITY BUSINESS ENTERPRISES

It is the policy of the Government that Minority Business Enterprises shall have the maximum practicable opportunity to participate in the performance of Government contracts.

Seller agrees to use his best efforts to carry out this policy in the award of his subcontracts to the fullest extent consistent with the efficient performance of this Order. As used in this Order, the term "minority business enterprise" means a business, at least 50 percent of which is owned by minority group members or, in case of publicly-owned business, at least 51 percent of the stock of which is owned by minority group members. For the purpose of this definition, minority group members are Negroes, Puerto Ricans, Spanish-speaking American persons, American-Orientals, American-Indians, American-Eskimos, and American Aleuts. Seller may rely on written representations by subcontractors regarding their status as minority business enterprises in lieu of an independent investigation.

B. SMALL BUSINESS, LABOR SURPLUS AREA AND MINORITY BUSINESS ENTERPRISE SUBCONTRACTING

If this order offers subcontracting opportunities and amounts to or is expected to amount to \$100,000 or more, but less than \$500,000, Seller is urged to establish small business, labor surplus area and minority business enterprise subcontracting programs as described in the appropriate related Government agency regulations (see paragraph C below).

- C. If this order amounts to or is expected to amount to \$500,000 or more, Seller agrees to establish small business, labor surplus area and minority business enterprise programs in accordance with the appropriate clauses referenced below which are hereby incorporated in this order by reference.

Government agency regulations governing small business, labor surplus area and minority business enterprise subcontracting programs are:

Government Agency	Small Business Subcontracting Program	Labor Surplus Area Subcontracting Program	Minority Business Enterprise Program
DOD	ASPR 1-707.3	ASPR 1-805.3	ASPR 1-332.3
NASA	NASA PR 1.707-3	NASA PR 1.805-3	NASA PR 1.332-3
AEC	FPR 1-1.710-3	FPR 1-1.805.3	FPR 1-1.1310-2

As used in the above regulations the words "Prime Contractor" and "Contractor" shall be deemed to mean

"Subcontractor" or "Seller", the word "Contracts" shall be deemed to mean "Subcontracts" or "Orders", and words "Contracting Officer" shall be deemed to mean "The Government Agency Contracting Officer having cognizance over the Subcontractor."

III. LISTING OF EMPLOYMENT OPENINGS FOR VETERANS

(Applicable to orders that amount to \$2,500 or more)

- A. Seller agrees that all suitable employment openings of Seller which exist at the time of the execution of this order and those which occur during the performance of this order, including those not generated by this order and including those occurring at an establishment of Seller other than the one wherein the order is being performed but excluding those of independently operated corporate affiliates shall, be offered for listing at an appropriate office of the State employment service system wherein the opening occurs and to provide such periodic reports to such office regarding employment openings and hires as may be required.
- B. Listing of employment openings with the employment service system pursuant to this clause shall be made at least concurrently with the use of any other recruitment service or effort and shall involve the normal obligations which attach to the placing of a bona fide job order including the acceptance of referrals of veterans and non-veterans. Listing of employment openings does not require the hiring of any particular job applicant or from any particular group of job applicants referred by the employment service system. Nothing contained herein is intended to relieve the Seller from any requirements in any Executive Order or regulation regarding non-discrimination employment.
- C. The periodic reports required by paragraph (A) above shall be filed at least quarterly with the appropriate local State employment service or, where Seller has more than one establishment in a State, with the central office of that State employment service. Such reports shall indicate for each establishment the number of individuals who were hired during the reporting period, the number of hires who were disabled veterans, and the number of hires who were non-disabled veterans who served in the Armed Forces on or after August 5, 1964, and who received other than a dishonorable discharge. Seller shall maintain copies of the reports submitted until the expiration of one year after final payment under the order, during which time they shall be made available, upon request, for examination by any authorized representatives of Buyer's Contracting Officer or of the Secretary of Labor.
- D. Whenever Seller becomes contractually bound to the listing provisions of this clause, it shall advise the employment service system in each State wherein it has establishments of the name and location of each such establishment in the State. As long as Seller is contractually bound to these provisions and has so advised the State employment service system, there is no need to advise the State system of subsequent contracts. Seller may advise the State systems when it is no longer bound by this clause.
- E. This clause does not apply (1) to the listing of employment openings which occur and are filled outside of the 50 States, the District of Columbia, Guam, Puerto Rico, and the Virgin Islands; (2) contracts with state and local governments; (3) contracts for personal services.
- F. This clause does not apply to openings which Seller proposes to fill from within his own organization or to fill pursuant to a customary and traditional employer-union hiring arrangement. This exclusion does not apply to a particular opening once an employer decides to consider applicants outside of his own organization or employer-union arrangement for that opening.
- G. AS USED IN THIS CLAUSE:
 - 1. "All suitable employment openings" include, but are not limited to, openings which occur in the following job categories: production and nonproduction; plant and office; laborers and mechanics; supervisory and nonsupervisory; technical; and executive, administrative, and professional openings which are compensated on a salary basis of less than \$18,000 per year. This term includes full-time employment, temporary employment of more than three (3) days' duration, and part-time employment.
 - 2. "Appropriate office of the State employment service system" means the local office of the Federal-State national system of public employment offices with assigned responsibility for serving the area of the establishment where the employment opening is to be filled, including the District of Columbia, Guam, Puerto Rico, and the Virgin Islands.
 - 3. "Openings which Seller proposes to fill from within his own organization or to fill pursuant to a customary and traditional employer-union hiring arrangement", means employment openings for which no consideration will be given to persons outside Seller's organization (including any affiliates, subsidiaries, and parent companies) or outside of a special hiring arrangement which is part of the customary and traditional employment relationship which exists between Seller and representative of its employees and includes any openings which Seller proposes to fill from regularly established "recall" or "rehire" lists or from union hiring halls.
 - 4. "Disabled veteran" means a person entitled to disability compensation under laws administered by the Veterans Administration for disability rated at 30 percent or more, or a person whose discharge or release from active duty was for a disability incurred or aggravated in line of duty.

VENDOR NAME		TELEPHONE		VENDOR NO.
STREET ADDRESS		CITY	STATE	ZIP
NAME OF PARENT COMPANY AND ADDRESS:				
☐ A DIVISION ☐ A SUBSIDIARY ☐ AN AFFILIATE OF:				
☐ SMALL ☐ LARGE BUSINESS		☐ MANUFACTURER ☐ DISTRIBUTOR	MINORITY OWNED? ☐ YES ☐ NO	
		IDENTIFY STATE IN WHICH PRODUCT IS MANUFACTURED:		
1. SELLER ☐ HAS ☐ HAS NOT HELD CONTRACTS OR SUBCONTRACTS SUBJECT TO THE EQUAL OPPORTUNITY CLAUSE OF EXECUTIVE ORDER 11246, AS AMENDED. 2. SELLER ☐ HAS ☐ HAS NOT FILED THE ANNUAL EQUAL EMPLOYMENT OPPORTUNITY INFORMATION REPORT EEO-1 AND ALL OTHER REQUIRED REPORTS (SEE 4)(CFR 60-1.7). 3. SELLER ☐ WILL ☐ WILL NOT FILE EQUAL EMPLOYMENT OPPORTUNITY INFORMATION REPORT EEO-1 WHEN REQUIRED. 4. THE EQUAL EMPLOYMENT OPPORTUNITY PROGRAM OF THIS FIRM ☐ HAS ☐ HAS NOT BEEN SUBJECT TO A GOVERNMENT EQUAL OPPORTUNITY COMPLIANCE REVIEW. IF SO, WHEN? 5. SELLER ☐ HAS ☐ HAS NOT DEVELOPED A WRITTEN AFFIRMATIVE ACTION PROGRAM. 6. SELLER ACKNOWLEDGES RECEIPT OF COMPLIANCE CERTIFICATION INFORMATION SHEET CONTAINING CERTIFICATIONS OF NON-SEGREGATED FACILITIES AND AGREES TO THE TERMS OF THE EQUAL OPPORTUNITY CLAUSE, AFFIRMATIVE ACTION COMPLIANCE PROGRAMS, EQUAL EMPLOYMENT OPPORTUNITY REPORTING REQUIREMENTS, EMPLOYMENT OF THE HANDICAPPED CLAUSE, SMALL BUSINESS, LABOR SURPLUS AREA AND MINORITY BUSINESS ENTERPRISE REQUIREMENTS, LISTING OF EMPLOYMENT OPENINGS FOR VETERANS AND SELLER HEREBY ☐ AGREES AND CERTIFIES ☐ DOES NOT AGREE AND CERTIFY, IN ACCORDANCE THEREWITH.				
SIGNATURE		TITLE		DATE

WAGNER ELECTRIC CORPORATION

145 North Beacon Street
Boston, MA 02135
(617) 787-9000

To All Vendors:

Please be advised that our legal company name has been changed to Wagner Electric Corporation.

In the past you may have referred to us as: Guardian Corporation, Guardian Properties, Guardian-McGraw Edison, Guardian Cooper Industries, Wagner Division-Cooper Industries, Wagner.

This change will not in any way affect our operations and is effective immediately.

Wagner

REF: JWK-88-166
June 8, 1988



WAGNER

FRICTION MATERIALS STANDARDS INSTITUTE

Health & Environmental Affairs +
Regulatory History
June 21, 1988

Slide Presentation

1. Federal Register Notice to Law/Regulation
2. Docket Input - FMSI Support
3. Compliance Levels
4. Industry Bell Curve
5. Overdesign
6. Composite-DOT Minimum vs Industry Standards
7. Brake Requirements are Different
8. More Differences
9. Variables Influencing Stopping Distance
10. Window #1
11. Window #2
12. Window #3
13. Window #4
14. Public Law 89-563
15. Mechanic on Duty
16. Components
17. New OE Part Numbers
18. Accumulated New FMSI Disc/Shoe Numbers
19. New FMSI Numbers
20. 132 New Disc Plates
21. Red Disc

Commentary Re:
FMSI Support for Members:

1. FR Notices
2. SAE Fibers Symposium
3. OSHA/Proposition 65
4. EPA Position - Education
Facts - Selectivity
5. Cleanliness Factors
6. Source for Member Action
7. FM Standards I
8. Simplicity in Participation

J. W. Kourik
June 8, 1988

FMSI 15381

FRICITION MATERIALS STANDARDS INSTITUTE

EAST 210 ROUTE 4 • PARAMUS, NEW JERSEY 07652 • PHONE (201) 845-0440

010705

OF
F
W
D
I
N

Guardian, Cooper Industries
145 North Beacon St.
Brighton, MA 02135
Attn.: Lou Cicchetti

DATE	DATE SHIPPED	SHIPPED VIA	YOUR ORDER NO.	F.O.B.	TERMS	INVOICE NO.
05-16-88	05-16-88	1st Class	Phone		No Charge	0001211
QUANTITY	DESCRIPTION	PRICE	AMOUNT			
3 Prints	FMSI 7237A, D344(I), D344(O)	No Charge				

ITEM #NVR73 : WHEELER GROUP INC

TRIPPLICATE COPY



WAGNER

Ref: VAL-88-08

April 15, 1988

Mr. E. W. Drislane
Executive Director
Friction Materials Standards Institute
Bergen Mall Office Center
E. 210, Route #4
Paramus, New Jersey 07652

A handwritten signature, possibly 'WJ', in dark ink.

Dear Mr. Drislane:

Since I am retiring at the end of this month, will you please change your records to indicate that any Bulletins, etc. sent to me in the past should now be forwarded to Mrs. Shirley Nelson at this same address. This consists mostly of the 20 copies each of the various Bulletins that are sent to me for distribution among Wagner personnel at the different locations who have need for them.

It has been a pleasure working with you over the years. I remember when you joined the FMSI and also remember when Harriet Duschek visited us some 20 or more years ago. I have been with Wagner almost 36 years; however, it seems but a few years.

I sincerely hope that you and John Mayer will continue working out the day-to-day problems as you have in the past.

Best Regards,

WAGNER DIVISION, COOPER INDUSTRIES

A handwritten signature in cursive script, reading 'Vi Lomando'.

Vi Lomando
Brake Engineering

cc: R. C. Bueler
Shirley Nelson

vl

Wagner Division
Cooper Industries, Inc.
1848 Craig Road
St. Louis, Missouri 63146

FMSI 15383

Wagner

TELEPHONE (201) 845-0440

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

April 22, 1988

Ms. Vi Lomando
Wagner Division
Cooper Industries
1848 Craig Road
St. Louis, MO 63146

Dear Vi:

Your letter of April 15 came in yesterday, while I was at an SAE meeting in Atlantic City. As I am just in the Office today before I start my vacation, I was pushing one letter after another aside. I thought at first you were telling me that Jack Kourik was retiring, which I knew. Then I looked at the bottom of the letter and saw it was you that was retiring.

I came in the brake business (with Bendix in 1948). I had dealings with many at Wagner since that time. You people in St. Louis have always been such help to me with such a nice level of competence and decency that it's hard for me to believe that you and Jack and others at Wagner are now retiring.

Thank you for your help in handling the Wagner Membership and taking care of distributing our paperwork. My very best to you in your retirement, and thanks again.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

PS: Vi, I even pushed a couple of John Mayer's letters aside in the "Hold" basket so I could get back to you before you left.

Ed Drislane

FMSI 15384

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER
E. 210 ROUTE 4
PARAMUS, N. J. 07652

August 4, 1987

Mr. John M. Mayer
Wagner Division
Cooper Industries
1848 Craig Road
St. Louis, MO 63146

Dear John:

On one of your specification sheets you added the following note: "We have our 1987 computer galleries for our catalog. If we can be of any help on carry-over applications, please advise."

This is an offer I can't refuse. In prior years I was able to go to Bendix Aftermarket and go over all their microfiche on imports, and this was the way I brought my carryforwards up-to date. I no longer have that source.

I have attached six pages of import part numbers, applications and FMSI Numbers, most of which are my 1986 application data. Some are back to 1985, but these are noted. This is quite a package I've enclosed. If you could go over them and note the carryforwards to 1987 (and to 1986 for the 1985 data) it would bail me out.

Even if you can only review parts of this data, anything I get is better than what I have now. And I still don't have a new source for reviewing the microfiche that I did at Bendix.

Your offer is most appreciated.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

FMSI 15385



GUARDIAN

April 22, 1987

Friction Materials
Standards Institute, Inc.
E. 210 Route #4
Paramus, NJ 07652

Please see the attached listing of foreign disc sets. Please provide us with "prints" of the plates and lining for those part numbers. We require two (2) prints each; please send one (1) set of prints to this address in Brighton, MA and the other set to:

Guardian Central
5125 Rondo Drive
Fort Worth, TX 76106
ATTN: Ray Reuter

817-626-5404

Please send these prints via Purolator Courier overnight express. Bill to third party:

Barry & Lloyd
Box 920
Norwood, MA 02062

Use our Purolator account #53-83-51700.

Thank you for your help.

Sincerely,

S.L. Silverstein

Steve L. Silverstein
Materials Manager

lm

attachment

Invoice 5172
Sent 4/24/87

Purolator
800-645-3333
Conf # 6-337
(La)

145 North Beacon Street
Brighton, MA 02135
(617) 787-9000

FMSI 15386

INVOICE

FRICITION MATERIALS STANDARDS INSTITUTE

E-210 ROUTE 4 • PARAMUS, NEW JERSEY 07652 • PHONE (201) 848-0440

SOLD TO

Guardian - Cooper Industries
145 North Beacon Street
Brighton, MA 02135
Attn.: Steve Silverstein

SHIPPED TO

2 Shipments:
1 to 145 North Beacon St.
1 to 5125 Rondo Drive
(See below)

DATE	DATE SHIPPED	SHIPPED VIA	YOUR ORDER NO.	F.O.B.	TERMS	INVOICE NO.	
04-24-87	04-24-87	Purolator	S. Silverstein 4/22		Net	005172	
QUANTITY	DESCRIPTION					PRICE	AMOUNT
344	Prints of FMSI disc brake lining pads and shoes, per attached listing. 2 copies of each printed. 1 set sent to North Beacon St.; 1 set to Brighton Rondo Drive.					\$.50 ea	\$172.00
Sent Purolator Courier per Mr. Silverstein. Purolator charges to Third Party: Barry & Lloyd, Box 920, Norwood, MA 02062							
172 Prints to: Guardian Central, 5125 Rondo Drive, Port Worth, TX 76106, Attn.: Ray Reuter							
172 Prints to: Guardian-Cooper Industries, 145 North Beacon St. Brighton, MA 02135 , Attn.: Steve Silverstein 02135							

Form # NV P75 - Wheeler Group Inc.

FMSI 15387

7094-D167
7094A-D213
7039-D103
7046-D113
7050-D117
7046A-D146
7047-D114
7100A-D244
795A-D161
7100-D173
7150-D238
7150-D246
794-D57
795-D57
7079-D147
7176-D147
7116-D193
7129-D240
7156-D276
7066-D132
7063-D123
7061-D226
7147-D233
7155-D233
7110-D186
7110-D187
7110-D234
7110-D274
7110-D293
7110-D312
7182-D279
7221-D322
7118-D195
7118-D208
7071-D136

7037-D101
7025-D94
7096-D169
7099-D172
7146-D230
7146-D231
7146-D232
7146-D272
7146-D232
7181-D278
7181-D321
7112-D188
7198-D297
7119-D196
7119-D211
7123-D201
7129-D210
7156-D247
7048-D115
785-D48
7061-D130
7105-D178
7105-D260
7155-D275
7074-D142
7131-D218
7152-D241
7153-D242
7153-D302
7143-D227
7177-D227
7143-D290
7162-D131
7185-D131
7128-D209

7128-D245
7183-D280
7210-D307
7059-D41
782-D41
7031-D96
7032-D96
7044-D110

7094-D167
7094A-D213
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7050-D117
7046A-D146
7047-D114
7100A-D244
795A-D161
7100-D173
7150-D238
7150-D246
794-D57
795-D57
7079-D147
7176-D147
7116-D193
7129-D240
7156-D276
7066-D132
7063-D123
7061-D226
7147-D233
7155-D233
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7128-D209

7128-D245
7183-D280
7210-D307
7059-D41
782-D41
7031-D96
7032-D96
7044-D110

(1) 7094-D167 (1)	(1) 7037-D101 (1)	(1) 7128-D245 (2)
(1) 7094A-D213 (1)	(1) 7025-D94 (1)	(2) 7183-D280 (2)
(1) 7039-D103 (1)	(1) 7096-D169 (1)	(2) 7210-D307 (2)
(1) 7046-D113 (1)	(1) 7099-D172 (1)	(1) 7059-D41 *
(1) 7050-D117 (1)	7146-D230 (2)	(1) 782-D41* (1)
(1) 7046A-D146 (1)	7146-D231 (2)	(1) 7031-D96
(2) 7047-D114 (2)	3 To 7th 7146-D232* (1)	(1) 7032-D96 (1)
(1) 7100A-D244 (1)	7146-D272 (2)	(1) 7044-D110 (1)
(1) 795A-D161 (1)	7146-D232*	
(1) 7100-D173 (1)	(1) 7181-D278 (1)	
(2) 7150-D238 (2)	(1) 7181-D321 (1)	
(2) 7150-D246 (2)	(1) 7112-D188 (1)	
(1) 794-D57* (1)	(1) 7198-D297 (1)	
(1) 795-D57*	(1) 7119-D196 (1)	
(1) 7079-D147* (1)	(1) 7119-D211 (1)	
(1) 7176-D147*	(1) 7123-D201 (1)	
(1) 7116-D193 (1)	(1) 7129-D210 (2)	
(1) 7129-D240 (2)	(1) 7156-D247 (1)	
(1) 7156-D276 (1)	(1) 7048-D115 (1)	
(1) 7066-D132 *	(1) 785-D48 (1)	
(1) 7063-D123 132* (1)	(1) 7061-D130 (1)	
(1) 7061-D226 (1)	(1) 7105-D178 (1)	
(1) 7147-D233 (1)	(1) 7105-D260 (1)	
(1) 7155-D233*	(1) 7155-D275 (2)	
(1) 7110-D186 (1)	(1) 7074-D142 (1)	
(1) 7110-D187 (2)	(1) 7131-D218 (1)	
(1) 7110-D234 (2)	(1) 7152-D241 (1)	
(1) 7110-D274 (2)	(1) 7153-D242 (1)	
(1) 7110-D293 (2)	(1) 7153-D302 (1)	
(1) 7110-D312 (2)	(1) 7143-D227 290 (1)	
(1) 7182-D279 (1)	(1) 7177-D227 (1)	
(1) 7221-D322 (1)	(1) 7143-D290	
(1) 7118-D195 (1)	(2) 7162-D131 256 (2)	
(1) 7118-D208 (1)	(1) 7185-D131 (1)	
(1) 7071-D136 139 (2)	(1) 7128-D209 (2)	

172 T.

PRESS HARD - THIS IS A 5 PT. FORM

Purulator courier

TO:

PURULATOR ACCOUNT TO BE BILLED		DATE 04-24-87	
FROM COMPANY NAME (CONSIGNOR) Friction Materials Standards Institute			
STREET ADDRESS East 210 Route 4			
CITY Paramus	STATE N J	ZIP CODE (REQUIRED) 07652	
P.O. OR REFERENCE NO. Steve Silverstein, Guardian			
SHIPPER'S SIGNATURE (PRINT AND SIGN) X <i>E. W. Drislane</i> E. W. Drislane			
TO COMPANY NAME (RECIPIENT) Guardian Central		☐ SATURDAY DELIVERY SERVICE REQUESTED	
ATTENTION - INDIVIDUAL/DEPT./SUITE Ray Reuter	PHONE NO. 817-626-5404		
STREET ADDRESS 5125 Rondo Drive			
CITY Fort Worth,	STATE T X	ZIP CODE (REQUIRED) 76106	

57793362

It is mutually agreed that goods herein described are accepted in apparent good order (except as noted) and transportation as specified herein. Unless a greater value is declared hereon, the shipper agrees and declares that the value of the property herein is released to a value as specified on the back of the shipper's copy.

TYPE OF SERVICE (CHECK ONE BOX ONLY)			
☐ PURD LETTER	☐	☐ AIR	☐ GROUND
PAYMENT (CHECK ONE)	☐ PREPAID BILL CONSIGNOR	☐ COLLECT (BILL RECIPIENT)	☐ THIRD PARTY CASH
THIRD PARTY NAME Barry & Lloyd			
ADDRESS Box 920, Norwood, MA 02062			
DESCRIPTION OF CONTENTS 172 8-1/2 x 11 Prints			
PIECES 1	WEIGHT 2 lbs.	DECLARED VALUE \$50	
DIMENSIONS L 11 1/2 W 8 1/2 H 1	PIU DATE	TIME AM PM	ROUTE ☐ DB ☒ X
COURIER GUARD SIGNATURE			

Purulator courier
UNIFORM BILL OF LADING
NON-NEGOTIABLE BILL OF LADING SUBJECT TO CONDITIONS OF CONTRACT SET FORTH ON REVERSE SIDE OF SHIPPER'S COPY
BL 1 Rev. 1-84

PRESS HARD - THIS IS A 5 PT. FORM

Purulator courier

TO:

PURULATOR ACCOUNT TO BE BILLED		DATE 04-24-87	
FROM COMPANY NAME (CONSIGNOR) Friction Materials Standards Institute			
STREET ADDRESS East 210 Route 4			
CITY Paramus	STATE N J	ZIP CODE (REQUIRED) 07652	
P.O. OR REFERENCE NO. Steve Silverstein, Guardian			
SHIPPER'S SIGNATURE (PRINT AND SIGN) X <i>E. W. Drislane</i> E. W. Drislane			
TO COMPANY NAME (RECIPIENT) Guardian, Cooper Industries		☐ SATURDAY DELIVERY SERVICE REQUESTED	
ATTENTION - INDIVIDUAL/DEPT./SUITE Steve Silverstein	PHONE NO. 617-787-9000		
STREET ADDRESS 145 North Beacon St.			
CITY Brighton	STATE M A	ZIP CODE (REQUIRED) 02135	

57793361

It is mutually agreed that goods herein described are accepted in apparent good order (except as noted) and transportation as specified herein. Unless a greater value is declared hereon, the shipper agrees and declares that the value of the property herein is released to a value as specified on the back of the shipper's copy.

TYPE OF SERVICE (CHECK ONE BOX ONLY)			
☐ PURD LETTER	☐	☐ AIR	☐ GROUND
PAYMENT (CHECK ONE)	☐ PREPAID BILL CONSIGNOR	☐ COLLECT (BILL RECIPIENT)	☐ THIRD PARTY CASH
THIRD PARTY NAME Barry & Lloyd			
ADDRESS Box 920, Norwood, MA 02062			
DESCRIPTION OF CONTENTS 172 8-1/2 x 11 Prints			
PIECES 1	WEIGHT 2 lbs.	DECLARED VALUE \$50	
DIMENSIONS L 11 1/2 W 8 1/2 H 1	PIU DATE	TIME AM PM	ROUTE ☐ DB ☒ X
COURIER GUARD SIGNATURE			

Purulator courier
UNIFORM BILL OF LADING
NON-NEGOTIABLE BILL OF LADING SUBJECT TO CONDITIONS OF CONTRACT SET FORTH ON REVERSE SIDE OF SHIPPER'S COPY
BL 1 Rev. 1-84

PLEASE DO NOT ENTER ANY INFO IN SHADDED AREAS. COMPLETE ALL INFO IN UNSHADDED AREAS. SEE BACK OF FORM FOR INSTRUCTIONS.

FMSI 15391

Guardian

TELEPHONE (201) 845-0440

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

April 15, 1987

Mr. Tom Rokos
Wagner Division
Cooper Industries
100 Misty Lane
Parsippany, NJ 07054

Dear Mr. Rokos:

In following up on the Institute's Historical Sales Reporting Program (or Sales Statistics) I have contacted Bob Foscaldo at Guardian, in Brighton, Massachusetts, in the past. He formerly had provided our Accountants with the sales data on disc linings sold by Guardian. He has suggested that I contact you if Wagner/Guardian will be participating in the program in the future.

To briefly describe the program, most brake lining/clutch facing manufacturers who are Institute Members report sales of pieces (not dollars) of four groups of friction products to our Accountants: (1) Drum brake linings; (2) Disc brake linings; (3) Brake Blocks; (4) Clutch Facings. Reports are quarterly. The Accountants are the only ones seeing the individual data. From the summary reports, Members can project their share of the market. The data reported are for sales to the United States replacement market only (does not include original equipment sales, or overseas sales).

I'm enclosing a copy (for reference) of the Bulletin we sent Members last January. It helps with definitions. I'd be most interested in hearing from you as to whether you wish to participate in this program and will be reporting the Guardian-Wagner figures for the first quarter of 1987.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/dr
Enc.

FMSI 15392

Historical Sales

The Guardian responsibility will be taken over by Mr. Tom Rokos,
of Wanger in Parsippany.

Wagner Division
Cooper Industries
100 Misty Lane
Parsippany, NJ 07054

201-386-9300

Guardian

TELEPHONE (201) 845-0440

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

December 5, 1986

Ms. Lea Metropoulos
Guardian-Cooper Industries
145 North Beacon St.
Brighton, MA 02135

1/5

Dear Ms. Metropoulos:

Per our conversation, I am enclosing another copy of the Statistics Reporting Form. Also enclosed is a copy of the BULLETIN NO. 868 which requested the data. Would you please check the following:

1. The data being for the first nine months of 1986 (to September 30) should have higher quantities than those reported for the three months and the six months periods. (If you have copies of the earlier reports).

2. Please send to: Marshall Granger & Co., CPA
1600 Harrison Ave.
Mamaroneck, NY 10543

Thanks.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

617-787-9000

FMSI 15394

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

August 8, 1986

Mr. Lou Cicchetti
Guardian, Cooper Industries
145 North Beacon St.
Brighton, MA 02135

Dear Lou:

Earlier this Summer we billed you \$52.00 for certain prints. I wrote on June 30 saying this was a mistake and sent you a credit for \$26.00.

When Guardian paid, they sent their Check No. 1327 for \$52.00. You should have paid \$26.00. I am therefore forwarding with this letter our Check in amount of \$26.00 to settle this balance.

Sorry about the extra paperwork.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

Guardian

TELEPHONE (201) 845-0440

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

June 30, 1986

Mr. Lou Cicchetti
Guardian, Cooper Industries
145 North Beacon St.
Brighton, MA 02135

Dear Lou:

While I was at our Annual Membership Meeting on June 17, the Office sent you certain prints as referred to in our Bulletin No. 855. From what I have here, I believe you were looking for the drilled steel drawings referred to in that Bulletin, and you were probably sent the undrilled lining and steel numbers referenced in the Bulletin.

Enclosed are copies of the drilled steel. We do not have corresponding drawings for the drilled lining. I believe the enclosed is what you were after.

Also, enclosed is a corrected invoice to charge you for the steel only. The original invoicing billed you for the linings and the steel. I called Guardian today, but was told you were on vacation.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director



GUARDIAN 145 NORTH BEACON STREET, BRIGHTON, MA 02135

VENDOR NO. 000696

001327

INVOICE NUMBER	INVOICE DATE	VOUCHER NO.	P.O. NUMBER	GROSS	DISCOUNT	NET
004942	17 JUN 86	20513	1407	52.00	0.00	52.0
					TOTAL :	52.0

DETACH AT PERFORATION BEFORE DEPOSITING CHECK

REMITTANCE ADVICE

FMSI 15397



GUARDIAN 145 NORTH BEACON STREET, BRIGHTON, MA 02135

VENDOR NO.

001327

ORDER NUMBER	INVOICE DATE	VOUCHER NO.	P.O. NUMBER	GROSS	DISCOUNT	NET
04942	17 JUN 86	20513	1407	52.00	0.00	52.00
					TOTAL:	52.00

FACHAT PERFORATION BEFORE DEPOSITING CHECK

REMITTANCE ADVICE

INVOICE

FRICTION MATERIALS STANDARDS INSTITUTE

E-210 ROUTE 4 • PARAMUS, NEW JERSEY 07652 • PHONE (201) 845-0440

SOLD TO

Mr. Lou Cicchetti
The Guardian Corporations
145 No. Beacon Street
Brighton, MA 02135

SHIPPED TO

DATE	ORDERED DATE	CLASS	PHONE	PARAMUS	NET	INVOICE NO.
6/17/86	6/17/86	1st Class	Phone 6/17	Paramus	Net	004942

52 Prints	FMSI Drawings as per attached list re: Bulletin No. 855	\$1.00/ea.	\$52.00
LESS 26.00 CREDIT SEE EWD LTR 6-30-86			(26.00)
BALANCE DUE			26.00

Rev. # NV 875 - Wheeler Group Inc.

FMSI 15398



GUARDIAN ←

and

May 21, 1986

Mr. E.W. Drislane
Executive Director
Friction Materials Standards Institute
Bergen Mall Office Center
E. 210, Route #4
Paramus, NJ 07652

Dear Mr. Drislane:

Please be advised on the next revision of the Automotive Data Book that on page 182 where the active members are listed, Guardian, McGraw-Edison Co. should be changed to read Guardian, Cooper Industries, Inc. On page 183 where the Licensees are listed, Wagner Division, McGraw-Edison Co. should be changed to read Wagner Division, Cooper Industries, Inc.

Thank you for your cooperation in this matter. Please feel free to call me if you have any questions.

Sincerely,

GUARDIAN, COOPER INDUSTRIES

Juliet David
Juliet David
Administrative Assistant

cc: R. Foscaldo
T. Scott
J. Mayer

145 North Beacon Street
Brighton, MA 02135
(617) 787-9000

FMSI 15399



GUARDIAN 

April 16, 1986

Mr. E. W. Drislane
Executive Director
Friction Materials Standards Institute
Bergen Mall Office Center
E. 210 Route 4
Paramus, NJ 07652

End

Dear Mr. Drislane:

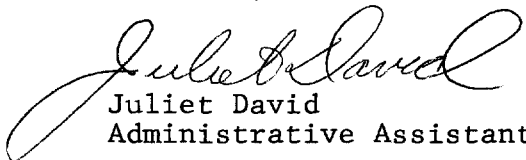
Please be advised that Mr. Robert Foscaldo should now officially be considered the Delegate for Guardian, Cooper Industries. Mr. Tom Scott should be listed as our new Alternate.

Please note that the official name for Guardian should now be Guardian, Cooper Industries. Would you please update your records to reflect this change.

Thank you for your cooperation in this matter.

Sincerely,

GUARDIAN, COOPER INDUSTRIES


Juliet David
Administrative Assistant

cc: R. Foscaldo
T. Scott
J. McCorry

Guardian

TELEPHONE (201) 845-0440

FRICITION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

8 April 1986

Mr. Robert G. Foscaldo
Guardian McGraw Edison Co.
145 North Beacon St.
Brighton, MA 02135

Dear Mr. Foscaldo:

By letter of April 4, 1986, Norman Morse advised that his contract with Cooper Industries ran out, and noted that the position of Guardian with FMSI might best be ascertained through you.

Mr. Morse had served as the Guardian Delegate, and you had earlier been appointed as the Alternate. As Alternate, you would ordinarily be now considered the Delegate. Would you like to make this official and also appoint someone else as the new Alternate?

Please let me know as regards Delegate and Alternate. Also, since the Cooper Industries acquisition, I have not changed the name from "Guardian-McGraw Edison Company." What should be the official name for Guardian?

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

FMSI 15401



GUARDIAN ←

Cure

April 4, 1986

Dear Ed:

I have just received the latest memoranda from FMSI. They arrived at approximately the same time that my contract with Cooper Industries, Guardian Division, ran out.

It has been a pleasure working with you, the Board and members of the Friction Materials Standards Institute, Ed. Although I look forward to being in contact with the friends I have made in the automotive industry in the future, at this time, I personally must resign from what I can best describe as a gratifying affiliation.

The position of Guardian with regard to FMSI might best be ascertained through its General Manager, Robert G. Foscaldo.

With best personal regards, I am

Sincerely yours,

A handwritten signature in cursive script, appearing to read 'Norman'.

Norman Morse

(copy: R.G. Foscaldo)

Mr. E.W. Drislane
Executive Director
FRICTION MATERIALS STANDARDS INSTITUTE INC.
East 210 Route 4
Paramus, NJ 07652

Guardian

TELEPHONE (201) 845-0440

FRICION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

August 9, 1984

Mr. Norman Morse
Guardian McGraw-Edison
145 North Beacon St.
Brighton, MA 02135

Dear Norman:

On another subject (the Credit Reporting Service) I was asked to change the name of your Membership from Guardian Corporation to Guardian McGraw Edison. While I have been aware of the Guardian- McGraw Edison change for some time, this is the first I have been asked to make the change.

Would you please request the change on the Membership books of the Guardian Corporation to the full new name. We need Company, Corporation, Inc. or whatever follows the name. Also, please advise if this was the full acquisition by purchase or purchase of a majority of the stock, or however the change was effected. I have to go through balloting by the Board of Directors to make the change on our records.

Would you please request this change in writing. Also, if applicable, advise of any change in Delegate/Alternate. I now have you as the Delegate and Mr. Foscaldo as the Alternate.

Sincerely,

FRICION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

FMSI 15403

GUARDIAN

TELEPHONE (201) 845-0440

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

March 24, 1983

Mr. Andy Fleischer
Guardian Corporation
145 North Beacon Street
Brighton, MA 02135

Dear Andy:

This is with reference to your phone call this date on three FMSI assignments:

<u>Item</u>	<u>Application</u>	<u>FMSI Assignments</u>	
		<u>Had</u>	<u>Later</u>
1	1981-79 Honda Accord Fronts	7061-D130	7061-D226
2	1981 Datsun 280ZX Rears	7094-D167	7094-D213
3	1982 Nissan Stanza Fronts	7110-D186, 7110-D187	7110-D234

The later items are essentially correct, but please see the comments that follow:

- Item 1: This is correct. See SHOE BULLETIN NO. 110. Both 7061-D130 (organic) and 7061-D226 (semi-met retrofit) are used on this application.
- Item 2: We had not assigned 7094-D213 to the 280ZX rears, but they will interchange with 7094-D167. They are identical except that the D213 shoes have threaded holes on two outers for attaching to caliper.
- Item 3: We had never assigned 7110-D186 or 7110-D187 for the 1982 Stanza fronts. Our only assignment for these fronts was the 7110-D234.

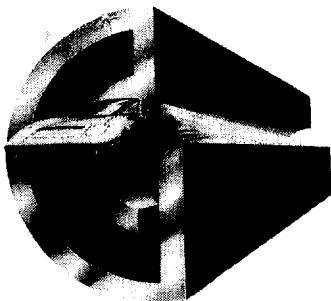
Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

FMSI 15404



THE GUARDIAN CORPORATIONS

"THE HOUSE THAT BRAKES BUILT" 145 N BEACON STREET BRIGHTON, MA 02135 TEL: 617-787-9000

January 10, 1983

Mr. E.W. Drislane
FMSI
E-210 Route 4
Parumus, NJ 07652

Dear Mr. Drislane:

Please send me the prints on all of the foreign car numbers, (disc brakes only). In addition to these prints, I also need all of the steel backing prints.

Thank you for your help.

Sincerely,

THE GUARDIAN CORPORATIONS

Lou Cicchetti
Redford Manager

LC:kg

FMSI 15405

INVOICE

FRICITION MATERIALS STANDARDS INSTITUTE

E-210 ROUTE 4 • PARAMUS, NEW JERSEY 07652 • PHONE (201) 845-0440

SOLD TO

Guardian Corporation
145 North Beacon St.
Brighton, MA 02135
Attn. 5 Lou Cicchetti

SHIPPED TO

Same

DATE	DATE SHIPPED	SHIPPED VIA	YOUR ORDER NO.	F.O.B.	TERMS	INVOICE NO.	
01-14-83	01-24-83	1st Class	Lou Cicchetti	1/10/83	Net	004128	
QUANTITY	DESCRIPTION					PRICE	AMOUNT
262	Prints(All foreign car numbers, disc brakes only, and all steel backing prints)					.75ea	\$196.50
Prints selected per above request indicated on the packing list attached. (Where 2 or 3 is indicated, it means that 2 or threeprints were required for that number)							

Item # HV-R75 - Wheeler Group Inc

Packing List - Imported Car Disc Brakes - Linings

(Note: There may be more than one print for each lining - Inner and Outer linings on some numbers)

716	7021	7064	7110	3
719	7022	7065	7111	
721	7023	7066	7112	
724	7025	7067	7113	2
734	7031	7068	7116	
735	7032	7069	7117	2
736	7033	7073	7118	2
745	7034	7075	7119	2
754	7035	7076	7120	2
764	7036	7077	7121	
765	7037	7079	7123	
770	7039	7080	7126	2
777	7040	7086	7127	
780	7042	7087	7128	2
783-2	7043	7088	7129	2
784	7044	7090	7132	
785	7045	7091	7140	
790	7046	7092		
791	7047	7093		
792	7048	7094	2	
793-2	7050	7096		
794	7051	7099		
795-2	7052	7100		
796	7057	7101		
797	7058	7102		
798	7059	7103		
7001	7060	7104		
7009	7061	7105	2	
7010	7062	7107	2	
7014	7063	7109	2	

Packing List - Imported Car Disc Brakes - Steel Shoe

D2	D44	D81	D108	D127	D144	D166	D188	D210	D234
4	45	82	109	128	145	167	189	211	235
9	48	88	110	130	146	169	193	212	
21	49	90	111	131	147	172	194	213	
27	54	94	112	132	148	173	195	218	
30	56	96	113	133	156	174	196	223	
31	57	97	114	134	157	175	197	226	
32	58	98	115	135	158	176	198	227	
37	59	99	117	136	160	177	201	228	
40	61	100	118	137	161	178	206	229	2
41	71	101	124	141	163	180	207	230	2
42	76	103	125	142	164	185	208	231	2
43	77	104	126	143	165	187	209	232	
								233	

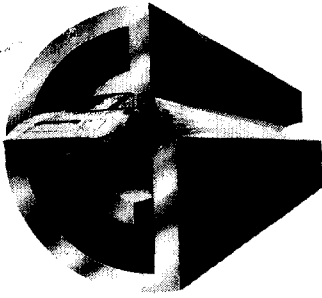
Packing List - Imported Car Disc Brakes - Linings

(Note: There may be more than one print for each lining - Inner and Outer linings on some numbers)

716	7021	7064	7110
719	7022	7065	7111
721	7023	7066	7112
724	7025	7067	7113
734	7031	7068	7116
735	7032	7069	7117
736	7033	7073	7118
745	7034	7075	7119
754	7035	7076	7120
764	7036	7077	7121
765	7037	7079	7123
770	7039	7080	7126
777	7040	7086	7127
780	7042	7087	7128
783	7043	7088	7129
784	7044	7090	7132
785	7045	7091	7140
790	7046	7092	
791	7047	7093	
792	7048	7094	
793	7050	7096	
794	7051	7099	
795	7052	7100	
796	7057	7101	
797	7058	7102	
798	7059	7103	
7001	7060	7104	
7009	7061	7105	
7010	7062	7107	
7014	7063	7109	

Packing List - Imported Car Disc Brakes - Steel Shoe

D2	D44	D81	D108	D127	D144	D166	D188	D210	D234
4	45	82	109	128	145	167	189	211	235
9	48	88	110	130	146	169	193	212	
21	49	93	111	131	147	172	194	213	
27	54	94	112	132	148	173	195	218	
30	56	96	113	133	156	174	196	223	
31	57	97	114	134	157	175	197	226	
32	58	98	115	135	158	176	198	227	
37	59	99	117	136	160	177	201	228	
40	61	100	118	137	161	178	206	229	
41	71	101	124	141	163	180	207	230	
42	76	103	125	142	164	185	208	231	
43	77	104	126	143	165	187	209	232	
								233	



GUARDIAN

THE GUARDIAN CORPORATIONS

"THE HOUSE THAT BRAKES BUILT" 145 N BEACON STREET BRIGHTON, MA 02135 TEL: 617-787-9000

June 23, 1982

Mr. E.W. Drislane
Executive Director
Friction Materials Standards Institute, Inc.
\$-210 Route 4
Paramus, NJ 07652

Dear Ed:

On behalf of Norman and myself, many thanks for a fine setting and agenda at the recent Sawgrass FMSI conference.

Perhaps you can assist me with something:

I have in hand what I assume to be OSHA requirements published by Occupational Safety and Health Reporter, Bureau of National Affairs, Inc., Washington. Under Section 1910.1001, labelled Asbestos, reference is made to Establishment of a respirator program....ANSI Z88.2-1969.

Do you have in your possession this ANSI Z88.2-1969? If so, can you send me a copy. If there is a charge, please send along the bill for same.

I am assembling materials for an employee information document, Ed, and would appreciate anything you feel may be relevant.

With thanks for the assistance you might offer, and with best regards,
I am

Sincerely yours,
THE GUARDIAN CORPORATIONS


by Lois Morse
Communication Specialist

enclosures

FMSI 15409

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER
E. 210 ROUTE 4
PARAMUS, N. J. 07652

June 28, 1982

Mrs. Lois Morse
Guardian Corporation
145 N. Beacon St.
Brighton, MA 02135

Dear Lois:

With reference to your letter of June 23 on ANSI Standard Z88.2-1969, we do not have a copy of that standard here at the Office.

We have ordered ANSI Standards before for other purposes. I've enclosed copies of the ANSI booklet on available standards. Their description is:

"Practices for Respiratory Protection," ANSI Z88.2-1969,
\$5.50.

I've also enclosed a Sales Policy sheet (it was on dark paper and did not copy well) which gives mailing address and instructions on ordering. I do not believe a handling charge applies to orders for which you remit payment. I suggest you send your letter requesting the above along with your remittance of \$5.50. Or you might call them and verify how to order this standard.

I'm sorry we could not provide you with this standard. If we had a copy we might have been able to Xerox it and send it along.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

GUARDIAN Corp

10/3/80

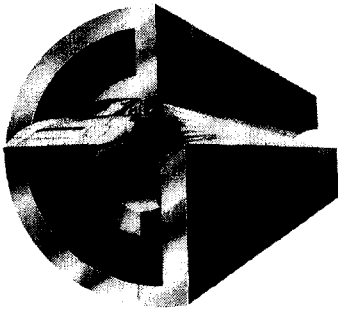
LOU CICCKETTI

3/6/81

MARK DE BINDER

3/20

RICHARD SNEE



THE GUARDIAN CORPORATIONS

"THE HOUSE THAT BRAKES BUILT" 145 N BEACON STREET BRIGHTON, MA 02135 TEL: 617-787-9000

24 September 1981

Ms. Emily Collins
Friction Materials Standard Institute
Route 4
Paramus, NJ 07652

Dear Ms. Collins:

This letter will serve to confirm our conversation of today's date.
Please add to FMSI's New Release Mailing List the following people:

Gary Gray
Guardian West Corporation
2909 Tanager Avenue
Commerce, CA 90040

Raymond Reuter
Guardian Central Corporation
5125 Rondo Drive
Fort Worth, TX 76101

*OK
EAC
9/30/81*

Thank you for your assistance in this matter.

Sincerely,

Gyan Baird
Administrative Assistant

/GB

GUARDIAN

July 8, 1981

Mr. Bob Foss
Guardian Corporation
145 North Beacon Street
Brighton, MA 02135

Dear Bob:

Per our recent phone conversation, I mentioned that I would send you some papers I had on pelletizing asbestos waste for movement to landfills.

Enclosed are some papers on this process. I know that both the Bendix Friction Materials Division in Troy, NY and the Molded Materials Division operation in Ridgway, PA use pelletizing for solid waste disposal.

I'm sure there are other ways of moving the waste into solid form, but this is the only operation with which I am familiar. For your information.

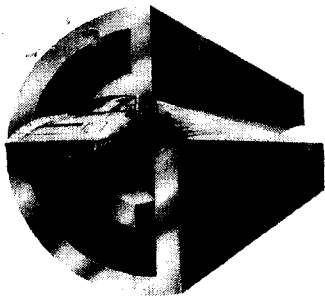
Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE

EWD/erc
Enc:

E. W. Drislane
Executive Director

FMSI 15413



THE GUARDIAN CORPORATIONS

"THE HOUSE THAT BRAKES BUILT" 145 N BEACON STREET BRIGHTON, MA 02135 TEL: 617-787-9000

W

June 25, 1981

FRICTION MATERIALS STANDARDS INSTITUTE INC.
E-210 Route 4
Paramus, NJ 07652

Ladies & Gentlemen:

I am in receipt of "Reports for June 1981 Meeting,"
passed along to me by Guardian President, Norman Morse, who
recently attended the FMSI conferences.

Under title "Health and Environmental Affairs Committee,"
a sub-heading of What Outside Help is Available, three sources
are cited. I am enclosing a starred list of those sources
and respectfully request that at your earliest convenience
you mail me these items. I would greatly appreciate this
assistance.

Thanking you in advance, I am,

Sincerely yours,

Lois Morse

Lois Morse
Corporate Clerk and Attorney at Law
GUARDIAN CORPORATION

FMSI 15414

HEALTH AND ENVIRONMENTAL AFFAIRS COMMITTEE

Membership Assistance

At the last annual membership meeting, the Board asked what the Institute or the Health and Environmental Affairs Committee could do to assist members who were having problems with safety, health or environmental regulations.

Specifically, the Board asked the Committee:

1. What the manufacturer can do himself to insure compliance with regulations?
2. What outside help is available in order to assure compliance?
3. A summary listing of citations alleged against members by regulatory agencies and the steps that industry took to object or move into compliance.

The Committee has met and addressed these issues.

It is felt the Committee and the Institute's role was that of a consultant.

It would:

1. Notify members when new regulations are proposed or adopted.
2. Advise on experts in the field who could help members.
3. Work with regulatory agencies in an effort to represent the interest of the members.
4. Provide advice when requested related to specific member interests.

It was concluded that each manufacturer must establish a person or persons who must develop familiarity with the regulations and take action for compliance within their own organization.

What outside help is available

In order to assist the FMSI members in finding experts and information a listing of publications and services in the occupational safety, health and environmental areas was developed and distributed to the membership on February 19, 1981. *

In addition, a listing of firms and individuals to consult in industrial hygiene, asbestos sampling and laboratory analysis was compiled and distributed. *

On April 30, 1981 a summary of the background and expertise of the Committee members was distributed to the membership along with a summary of the various projects completed. This information was developed in order to inform the membership of the consulting capability within the group and what have been done on behalf of the members.

July 2, 1981

Ms. Lois Morse
Guardian Corporation
145 N. Beacon Street
Brighton, MA 02135

Dear Ms. Morse:

This is to reply to your letter of June 25, 1981 on certain bulletins by the Institute. I am enclosing copies of the documents you noted:

- (1) Bulletin to Membership of February 19, 1981 entitled "Publications and Services in the Occupational Safety Health and Environmental Areas"
- (2) Bulletin No. 697 of October 10, 1980 entitled "Industrial Hygiene Consultants"
- (3) Bulletin No. 715 of April 30, 1981, entitled "Questionnaire on Suggestions for the Health and Environmental Affairs Committee." This bulletin included background on expertise of committee members as well as a summary of various projects which the Committee had completed over the past several years.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

EWD/erc
Enc:

E. W. Drislane
Executive Director

GUARDIAN

TELEPHONE (201) 845-0440

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

March 20, 1981

Mr. Mark DeBinder
Guardian Corporation
145 North Beacon Street
Brighton, MA 02135

Dear Mark:

I believe you, or someone else from Guardian, called and asked about semi-metallic discs on some Audi/Volkswagen models taking FMSI 7031-D96 and 7032-D96. However, I lost my notes on this and am not sure.

In any event, it appears that Audi/Volkswagen did offer semi-metallic discs on the following FMSI assignments:

7031-D96
7032-D96
7044-D110
7045-D111

Volkswagen is offering semi-metallics for these applications in service. Whether they were semi-metallics for original equipment at original installation, I am not sure. Also, I'm not sure of model numbers and years, but I assume they are offered for all models taking these FMSI Numbers since that time. I actually believe that Volkswagen (and Audi) had a life problem with their original equipment linings in the years from around 1975 on, and they may be offering semi-mets for service, even though not original equipment in those years. I hope this helps answer the question.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

FMSI 15417

 GUARDIAN "THE HOUSE THAT BRAKES BUILT" THE GUARDIAN CORPORATION 145 North Beacon Street Brighton, Mass. 02135 Tel. (617) 787-9000 GUARDIAN WEST CORPORATION 1366 Hundley Street Anaheim, Ca. 92806 Tel. (714) 630-7640	Form
	3/3/81
	Effective

To: Mr. E. W. Drislane - FMSI

From: Percy M. Civit *pue*

Subject: 1981 AUTOMOTIVE DATA BOOK *ew*

Attached please find the following:

- ☐ Price sheets
- ☐ Catalog
- ☐ Invoice #
- ☐ Check #
- ☐ Statement
- ☐ Promotional material

Reck 6-2282

☒ Other Purchase Order

Comments: with FMSI cover.

GUARDIAN

TELEPHONE (201) 845-0440

FRICITION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

August 14, 1980

Mr. Peter Morse
Guardian Corporation
145 North Beacon Street
Brighton, MA 02135

Dear Peter:

This is a follow-up to my letter of July 17, 1980 concerning the Mazda RX7 and the 626. My information is:

	<u>Front</u>	<u>Rear</u>
1980-79, Mazda RX7	7009-D-76	8118-429
1980-79 Mazda 626	7102-D-175	8131-444

This information will be in our next shoe bulletin.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

FMSI 15419

GUARDIAN

July 17, 1980

Mr. Peter Morse
Guardian Corporation
145 North Beacon Street
Brighton, MA 02135

Dear Peter:

This concerns our recent conversation on the Mazda RX7 and the Mazda 626. While I am trying to get more information on these models, the best information I have now is as follows:

	<u>Front</u>	<u>Rear</u>
1979, Mazda RX7	7009-D-76	8118-429
1980-79, Mazda 626	7102-D-175	

The RX7 information is tentative, I don't have 1980. I don't have any rear information on the 626. When I have this information tied down, I will let you know.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

EWD/erc

E. W. Drislane
Executive Director

FMSI 15420



December 10, 1979

Mr. Ed Drislane
FMSI
E-210 Route #4
Paramus, N.J. 07652

A handwritten mark, possibly initials or a signature, located to the right of the recipient's address.

Dear Ed:

For some reason we are not receiving Data Book Bulletins from your office. Please make sure we are on the active mailing list for all technical information of any description.

Cordially yours,

A handwritten signature, likely of Norman Morse, written in cursive.

Norman Morse
President

NM/i

GUARDIAN^{T.M.}

The Guardian Corporation
145 North Beacon Street, Brighton, MA 02135

75 Brainerd Road, Allston, Mass. 02134 (617) 277-1320 • 1366 Hundley St., Anaheim, Calif. 92806 (714) 630-7640



FMSI 15421

December 17, 1979

Mr. Norman Morse
The Guardian Corporation
145 North Beacon Street
Brighton, Massachusetts 02135

Dear Norman:

This is to reply to your letter of December 10, 1979 where you indicated that you have not been receiving all the Data Book Bulletins issued from this Office.

I'm enclosing copies of each of the Data Book Bulletins that have been issued since July 1, 1979. Those are Data Book Bulletins #288, #289, #290, #291, #292 and #293. Bulletin #293 was issued last week. I'm also enclosing copies of Shoe Bulletins #91, #92 and #93.

With these bulletins I'm enclosing copies of the envelopes the way they are addressed to you and Mr. Foscaldo at Guardian. When we ship the pink bulletins, you should be receiving prints of any new lining releases that are made with that bulletin.

I have checked with Miss Collins who handles mailing of these bulletins and she does not understand why you have not been receiving them. Please let us know if you do not receive them in the future. There will not be too many more in early 1980 after #293.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

EWD/lmc
Encs.

E. W. Drislane
Executive Director

FMSI 15422

Retreaders Association (NTDRA) Convention set for September 8-11 in Kansas City, Missouri.

"Tire dealers and retreaders will be treated to a convention program which zeroes in on helping them increase profits and cut costs in their operations," said convention co-chairman, Harold Becker.

NIASE November 1979 test dates set

NIASE automobile mechanic certification tests will be held November 13, 15, 17, and 20, 1979. Tests on Tuesdays, November 13 and 20, and Thursday 15, will start at 7 p.m. On Saturday, the 17th, the tests will start at 8:45 a.m.

Heavy duty truck tests are scheduled on these dates also, except for Saturday. Both the body repair and painting and refinishing tests will be held Saturday morning.

Tests will be conducted in every state.

North Carolina Automobile repair control proposed

Under a bill introduced in the North Carolina legislature automobile repair shops would be required to give customers a 30 day warranty on all parts and labor and refrain from doing unauthorized repairs.

State Attorney General Rufus L. Edmisten stated, "This is a substantial step toward protecting the public from unethical and dishonest individuals who overcharge, make unnecessary repairs, do inadequate work, or all three."

GM recalls cars, trucks . . . Western Auto, jacks

General Motors announced three recalls affecting 62,500 vehicles produced by its Buick, Chevrolet, Oldsmobile, Pontiac and GMC Truck & Coach divisions.

The first affects 15,300 full-size, mid-

size and small passenger cars and light-duty trucks with cruise control produced in January 1979. The brake stoplight and cruise control switches, both activated by the brake pedal, may have been assembled with the wrong lubricant, causing adverse wear on some of the switch contacts, resulting in the rear brake lights becoming inoperative and the cruise control resuming to the original set speed if the car has not been brought to a complete stop.

The second recall involves 4,200, 1979 Chevrolet Monzas, Pontiac Sunbirds, Oldsmobile Starfires and Buick Skyhawks with 231-cubic-inch, V-6 engines, assembled in February 1979. The engines' oil pressure switch may have a random short that could result in the engine starting by itself when the key is in the "on" position.

GM is also recalling 43,000 subcompact cars for inspection and possible replacement of a carburetor fuel feed hose

VETTES ONLY

Stainless Steel Sleeved Calipers

The Permanent fix for leaky disc brakes.



Stainless Steel Sleeved Calipers prevent disk brake leakage caused by rust and corrosion. Our sleeved calipers can't rust. Moisture and chemicals can't affect it.

**The Result: NO MORE LEAKAGE
NO MORE PULLING
NO MORE FAILURES**

Stainless Steel Sleeved Calipers are guaranteed for as long as your customer own's his car.

For More Information Write or Call

STAINLESS STEEL BRAKES CORP.
5120 Brookhaven Drive
Clarence, New York 14031 • 716-759-6634

Circle 11 on Service Card for more information

AUGUST 1979

21

GUARDIAN

that may be too close to the exhaust recirculation valve. The defect could cause fuel leaks and underhood fires. There have been no accidents reported due to any of the recalls.

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The Friction Materials Standards Institute, Inc. has elected the Guardian Corp. as an active member. Norman Morse, president of Guardian said, "We feel that this is an affirmation of the high standards we maintain in our brakes and brake products, and will foster a mutu-

ally helpful exchange of ideas between Guardian and other leaders in the industry."

NATTS Scottsdale conference largest in history

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Consumers offered system for rating tire quality

A system that gives consumers a uniform scale they can use to judge the value and quality of passenger car tires

people

Federal-Mogul — **William Webster** has been named vice president of special projects. **André A. Laus** has been appointed vice president group executive and **Dennis J. Gormely** named group manager of the general products group . . . Monroe — **Keith Pullen** promoted to vice president corporate brand sales . . . AC-Delco — **Martin Menger, Jr., Robert L. Korth** and **George H. Finlay** named assistant general sales managers, with Menger responsible for the eastern, Korth the central and Finlay the Western United States . . .

Wagner — **Thomas D. Bell** appointed president and chief executive officer . . . McQuay-Norris — **William F. Gilman** appointed western regional sales manager of the aftermarket division . . . Clover Mfg. — **William F. Anderson** named manager of customer service . . . Ford — **Robert S. Terrell** appointed general sales and marketing manager of the glass division. Terrell replaces **Henry G. Bleeker** who has retired.

Woodhill Permatex — **Gary J. Cannella** promoted to director of marketing and **Nick DiBartolomeo** has joined the company as product manager

↓
GUARDIANTM

"THE HOUSE THAT BRAKES BUILT"

The Guardian Corporation: 75 E **NEW ADDRESS** husetts 02134 Tel: (617) 277-1320
145 NORTH BEACON STREET
BRIGHTON, MASS. 02135

September 7, 1979

FRICTION MATERIAL STANDARDS INSTITUTE
E 210 Route 4
Paramus, New Jersey 07652

cut

Gentlemen:

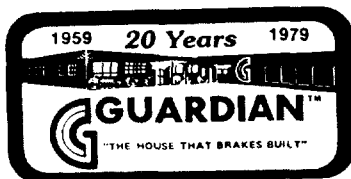
Having been elected to membership in FMSI, we would like to include that fact in our next letterhead printing, in the same fashion as we now incorporate the five organizational memberships shown below.

Would you forward a logo sheet to facilitate same?

Thank you.

Sincerely yours,
THE GUARDIAN CORPORATION

Lois Morse
by Lois Morse
Sales Promotion



Guardian West Corporation: 1366 Hundley Street, Anaheim, California 92806 Tel: (714) 630-7640



FMSI 15425

Guardian

September 17, 1979

The Guardian Corporation
145 North Beacon Street
Brighton, Massachusetts 02135

Attention: Ms. Lois Morse

Dear Ms. Morse:

This is to reply to your letter of September 7, 1979 concerning the Institute's logo, similar to that of MEMA, ASIA and others.

We regret that we do not have an Institute logo, and are unable to provide you with a sheet for the same.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE, INC.

EWD/lmc

E. W. Drislane
Executive Director

FMSI 15426

GUARDIAN

TELEPHONE (201) 845-0440

FRICITION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

August 24, 1979

COPY

Guardian Corporation
145 North Beacon Street
Brighton, MA 02135

Attn: Mr. Norman Morse

Gentlemen:

Since the effective date of your membership was July 1, 1979 we may have neglected to offer you copies of the "Friction Materials Work Practices Guide." These booklets had been offered to our Membership early in 1979 and over 40,000 copies were sold to the Membership. The booklets attempt to put the asbestos problem in the brake repair shop in proper perspective. I've enclosed a sample copy of the "Friction Materials Work Practices Guide." If you wish just a few copies (say up to twenty) these would be provided on a no-charge basis. Orders for quantities in excess of twenty would be at \$.09 per copy. If you wish copies please advise the Institute with shipping directions.

We also may have failed to let you know that there were additional copies of some Institute catalogs available. We have over 5,000 copies of the "1979 Automotive Data Book" in inventory and if you needed copies we'd be pleased to provide them. The copies are all punched and the price is \$462.60 per thousand. We regret we have no more copies of the "1978 Brake Shoe Identification Catalog" nor the "1979 Supplement to the 1978 Brake Shoe Identification Catalog." These were all sold out reasonably soon after they were printed. If you wish copies of the "1979 Automotive Data Book" please let me know quantities and delivery instructions.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE

EWD/erc
Enc:

E. W. Drislane
Executive Director

FMSI 15427

that may be too close to the exhaust recirculation valve. The defect could cause fuel leaks and underhood fires. There have been no accidents reported due to any of the recalls.

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GUARDIAN

before buying them has been instituted by the federal government.

The system grades tires on the basis of tread wear, traction and temperature. Results are listed on labels attached to each tire. The tread wear grade is a comparative rating indicating the tire's wear rate when tested under controlled conditions at a government testing ground in Texas.

A median was established at 100, which at the track equals 30,000 miles. A rating of 110 meant the tire would get 10% more mileage than a tire rated at 100; a rating of 90 meant the tire got 10% less mileage.

National Highway Traffic Safety Administration (NHTSA) officials pointed out the actual mileage a tire gets depends on road conditions, driving habits and other variables.

At present, only bias tires produced after April 1 are covered by the standard. Belted-bias tires are to come

under the measure by Oct. 1 and radials by April 1, 1980.

Advocates hailed the quality rating system as a major step in ending buyer's confusion over how one tire performs as compared to another. Opponents of the system claimed the measure would simply add to consumer's confusion by promising unrealistic standards.

Montoya introduces bill to reverse CARB regulations

Senator Joseph Montoya has introduced legislation to reverse the California Air Resources Board's regulations extending pollution control warranties.

Montoya said the CARB regulations "were not in the interests of California in general." He added that the regulations could result in loss of jobs to the independently owned service shops and their employees.

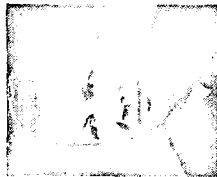
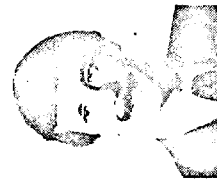
... American Machine & Hydraulics — Ed L. Derby named sales manager ... Dana Corp. — Steve Wood appointed regional sales manager. Samuel G. Easterday and Timothy J. Williams named district managers ... FMC — R. Conrad Reese, David R. Phillips, Nicholas J. D'Auria, Charles F. Fletcher and William P. Burke appointed sales and service representative.

Cannella

DiBartolomeo

Derby

Wood





July 19, 1979

Friction Materials
Standards Institute, Inc.
Bergen Mall Office Center
E. 210 Route 4
Paramus, N.J. 07652

Attn: Mr. E.W. Drislane
Executive Director

Dear Sir:

Re: Prints

Would you kindly send us prints of disc lining pucks for any and all domestic numbers.

Thank you for your anticipated cooperation.

Sincerely,

Ilene Rubin
Adm. Asst.

IR

*Shippin # 3088
79 prints*

145 North Beacon St., Brighton, Mass. 02135 (617) 787-9000 • 1366 Hundley St., Anaheim, Calif. 92806 (714) 630-7640



FMSI 15429

→ Guardian

June 25, 1979

Mr. Norman Morse
Guardian Corporation
145 North Beacon Street
Brighton, MA 02135

Dear Mr. Morse:

The Board of Directors and Membership held their Annual Meeting on the week of June 11 at Ocean Reef Club in Key Largo, Florida. I'm writing at this time to advise that at that meeting the Board voted to increase the dues level by about 10% for the 1979-80 fiscal year. For the Guardian Corporation, this would mean an increase from what I had projected as \$1,700 per year to \$1,850 per year. As I believe I indicated in correspondence with you, the fee schedule was that for the 1978-79 fiscal year and there was the possibility of an increase.

As we had held the annual dues level at \$1,700 for the last eight years, I thought it might be continued for another year. However, the pressure on our costs caused the Board to vote this first increase since 1971. This is to advise you on this increase, and I'm enclosing a copy of a bulletin which describes the change in the fee schedule for Active Members. There was, of course, a proportionate increase in the dues for all grades of membership. This change in fee schedule is being sent as a matter of information.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

EWD/lmc
Enc.

E. W. Drislane
Executive Director

FMSI 15430

May 30, 1979

Mr. Norman Morse'
Guardian Corporation
145 North Beacon Street
Brighton, MA 02135

Dear Mr. Morse:

This is to advise that the Membership has voted the Guardian Corporation in as an Active Member of the Institute.

As explained earlier, the Institute operates on a July 1-June 30 fiscal year. We will not charge for the current last quarter of our fiscal year and will make your membership effective on July 1, 1979. We will not be billing for the first half of the annual fee payment until after July 1.

In the meanwhile, since your application has been accepted we are prepared to send you any information which we ordinarily would send an Active Member. For example, when we issue our next Technical Bulletins we will distribute copies to Guardian. Each Active Member is entitled to receive 25 of the (pink) Data Book Bulletins and the (blue) Shoe Bulletins free of charge. Some members order more for distribution to their customers. Some order only one or two copies for technical information purposes. I will automatically put your name and Mr. Foscaldo's name on our mailing lists for Technical Bulletins and Bulletins of general nature. Mr. Foscaldo was indicated as your Alternate on the application form.

Also, you may order prints at \$0.75 per copy. Small orders of two or three prints are sent free of charge. In addition, you may wish to order copies of our catalogs. We currently have an inventory of copies of our "1979 Supplement to the 1978 Brake Shoe Identification Catalog" on hand. If you wish copies of these catalogs they are billed at \$132.80 per thousand. A copy is enclosed. We are waiting for the printing of the "1979 Automotive Data Book," and could provide you with copies of this when it is ready. That is the 104 page red-covered catalog listing brake linings and clutch facings. There is also a "Friction Materials Work Practices Guide" enclosed which is available to members at \$0.09/copy.

If you are interested in prints or catalogs please let me know. In the meanwhile your names are being added to our mailing lists for regular Institute bulletins.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE

EWD/erc
Enc:

E. W. Drislane
Executive Director

FMSI 15431

B U L L E T I N

N O. 6 5 4

May 30, 1979

GUARDIAN CORPORATION ACCEPTED AS ACTIVE MEMBER

This is to advise the Membership that based on votes of the Delegates, the Guardian Corporation of Brighton, Massachusetts, has been admitted as an Active Member of the Institute. We originally advised the Membership concerning application of Guardian Corporation in a Bulletin of April 19, 1979.

As most of you are aware, Guardian Corporation has been a supplier of assembled parts for the brake replacement market and has now commenced manufacture of brake linings. It has been indicated that Guardian now manufactures most of their own disc brake pads for the aftermarket. Guardian Corporation will be an Active Member effective July 1, 1979.

Mr. Norman Morse will be the Delegate and Mr. Robert Foscaldo will be the Alternate.

The foregoing is sent as a matter of information.

EWD/erc
Distribution-Active Members
(List A)

E. W. Drislane
Executive Director



April 24, 1979

Mr. E.W. Drislane
Executive Director
Friction Materials Standards
Institute, Inc.
Bergen Mall Office Center
E. 210 Route 4
Paramus, N.J. 07652

Dear Mr. Drislane:

Please refund the \$1,700 and bill us for the annual membership fee in the regular semi-annual billings at July 1st and January 1st.

We look forward to an active membership in FMSI.

Very cordially yours,


Norman Morse
President

NM/i

145 North Beacon St., Brighton, Mass. 02135 (617) 787-9000 • 1366 Hundley St., Anaheim, Calif. 92806 (714) 630-7640



FMSI 15433

May 1, 1979

Mr. Norman Morse
The Guardian Corporation
145 North Beacon Street
Brighton, Massachusetts 02235

Dear Mr. Morse:

Per your letter of April 24, 1979 we are refunding the \$1,700 that was paid for the Annual Membership Fee. As indicated when your application has been approved, we will bill the annual fee in semi-annual installments at July 1 and January 1.

Your application has been recommended for approval by our Membership Committee and by the Board of Directors. I would hope to have the ballots back from the Membership within about two weeks.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

EWD/erc
Enc:

E. W. Drislane
Executive Director

April 17, 1979

Mr. Norman Morse
The Guardian Corporation
145 North Beacon Street
Brighton, Massachusetts 02135

Dear Mr. Morse:

This is to acknowledge receipt of your application for Membership in the Institute along with your check for \$2,700 to cover both the initiation fee and the first year's annual fee.

On application, we require only the \$1,000 initiation fee. Ordinarily, we bill the annual membership fee in semi-annual billings at July 1 and January 1 of the fiscal year. We will hold these funds on deposit but if you wish we could refund you the \$1,700. If you wish this refunded please let me know.

It normally takes about 6-8 weeks to process an application for Membership. I first circulate the application and information to our Membership Committee who then ballot and make recommendations to the Board of Directors. I then have to run a mail ballot through the Board of Directors and then finally to the full Membership. As these usually take about a 2 week turn-around time, if everything goes well, the application is normally processed in about 6 weeks. I would think that based on the background of the Guardian Corporation, and knowing that several members are familiar with your operation, that the application should go through without delay. Assuming the Membership approves the application, I would imagine that yours will be effective as of July 1, 1979. We will, of course, start servicing your Membership as soon as we have a vote in from our Active Members.

Thank you for your application.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

EWD/lmc

E. W. Drislane
Executive Director

FMSI 15435

(6)

April 2, 1979

Mr. Norman Morse
The Guardian Corporation
145 North Beacon Street
Brighton, Massachusetts 02135

Dear Mr. Morse:

Per our recent phone conversation I'm sending along more information concerning the Institute and its activities. In my letter of March 19th, I indicated the contact work we do with the various State and Federal regulatory authorities and associations. We also gave information on our publications which are used widely in the friction materials business. I believe you are familiar with these. We also passed on some information concerning the methods of application for membership as well as the fee schedules.

In our conversation you asked about other services. I will try to cover some of these in this letter.

Prints for linings and shoes

The Institute contacts original equipment lining, brake and vehicle manufacturers for information concerning the brake linings and clutch facings used on both domestic and imported vehicles. We establish new FMSI numbers as new releases are made. Recently we made a release of a new number for the Ford Mustang/Capri which was introduced in 1979. Right now we are gathering data on the new General Motors X body cars which will be released in April of 1979. Generally we provide drilled brake lining prints for both drum and disc brakes for all domestic passenger cars and light, medium and heavy trucks. We maintain files of these lining prints at the Institute and provide our members with copies. When a new release is made we provide copies of the print to each member depending upon the categories in which he is involved. In your case, with disc brake linings, we would send along copies of new disc brake lining prints as they are released. Similarly, if you were in the drum brake lining business we would send along copies of new prints in that area. To indicate two recent FMSI assignments we are enclosing copies of prints for our FMSI 7070A which is used on General Motors intermediate cars starting in 1978, and copies of FMSI 7072A which is used on Ford Fairmount/Zephyrs starting in 1978.

FMSI 15436

April 2, 1979

When we are involved with imported cars, most of the disc brake linings are integrally molded and we provide copies of prints that we gather. Many of our prints were originally prepared by the Certified Division of Lear Siegler based on measurements of materials selected in the field. Most of these prints, of course, are not original equipment prints.

Further, we provide illustrations of brake shoes (both drum and disc) as used on most hydraulic brake systems. We also have information on some disc brakes on heavy vehicles. In some cases, the steel brake shoe prints for disc brakes do not cover all details of the shoe necessary for a manufacturer. In some cases, critical dimensions have been blocked out by the brake manufacturer or other party who provided the print. We provide these prints to the members on order and they are usually 8-1/2 x 11 sizes.

Where a member needs additional prints over those that are sent as new releases, these are provided to a member at the price of \$.75 per print. These prints are just about all 8-1/2 x 11 size. Where there are questions concerning prints, print dimensions or perhaps ambiguous dimensions on the prints, the Institute attempts to answer the question. An Active Member of the Institute has access to all this information on brake linings, clutch facings and shoe prints.

Catalogs

As you are aware, the Institute publishes an Automotive Data Book and a Brake Shoe Identification Catalog. The Automotive Data Book is published in the odd year so we will be putting out a 1979 book. The Brake Shoe Identification catalog is published in the even year so our last one was our "1978 Brake Shoe Identification catalog." In the off years, we publish supplements so that we are publishing a supplement to the Brake Shoe Identification Catalog in 1979. In other years we have published additional catalogs such as a recent "1979 Brake Block Identification Catalog" and a recently published "Friction Materials Work Practices Guide" which has suggestions for coping with asbestos regulations in the brake shop. All catalogs are available to our members at a price slightly over cost. Slightly "over cost" includes an allowance for illustrations, author alterations, and excess copies printed by printer when we have to absorb an overrun. All members are, of course, entitled to order these catalogs at the time of printing. If there are copies left in stock after the original printing we can provide members with additional copies on a first come, first serve basis. Many members use this catalog in merchandising their products and some members order the catalogs without our cover for insertion in their own catalog. When it is time to order catalogs, we solicit orders from the individual members and these orders are placed on the printer who then bills the member directly for the copies.

Copyrights and Trademarks

The Institute permits members to use the copyrighted catalogs and the contents thereof including the numbering systems in marketing their products. They are also entitled to use the FMS® and FMSI® trademarks

Mr. Norman Morse
The Guardian Corporation

-3-

April 2, 1979

and the numbering systems are most helpful in marketing ones products.

Sales Statistics Program

We also have, as I believe I mentioned to you on the phone, a historical sales reporting program where members report in unit sales of their drum brake linings, disc brake linings, brake blocks and clutch facings to independent certified public accountants. The accountants gather this information and report quarterly to the Membership on total sales in these four categories. This information is apparently helpful to marketing people in projecting market penetration and sales statistics of that nature. Active members of the Institute are eligible to participate in this program. Participation is voluntary but only those who report figures receive copies of the accumulated data by our accountants.

As I mentioned to you we publish what are termed technical bulletins as new brake linings, brake shoes, clutch facings and the like are released. When we release a new brake lining they are covered in our pink data book bulletins. I'm enclosing a copy of our Data Book Bulletin #282 of last November in which several new disc brake linings were released. The application information is included in the technical bulletins and when these bulletins are distributed copies of the new prints are similarly distributed to one party at each of the members. I've enclosed also a copy of a shoe bulletin because many people in the disc brake field market their shoes using the FMSI lining-shoe number such as 7027-D-91. Some people use the FMSI lining-shoe assembly number for marketing products; others use just the steel shoe number; still others use the lining number only. Of course, others use their own numbers, but the FMSI numbers are widely used throughout your industry.

I mentioned that we have annual meeting, usually in a resort area, which this year would be the Ocean Reef Club at Key Largo, Florida. At the Annual Meeting (ordinarily held in June) both the Board of Directors and the Membership meet to go over problems of the industry and make recommendations as to Institute activities for the ensuing year. It is at this Annual Meeting that members are able to give input to the Institute as far as the type of services that they need. Still further, depending upon interest in the Institute, members are asked to serve on some committees. In addition, to our Technical Committees, we have other committees which help organize and operate the Institute. If a member feels that he has important input in a certain area he is usually asked to serve on a committee in that area. I hope the foregoing is of help in reviewing the activities of the Institute.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

EWD/lmc

E. W. Drislane
Executive Director

FMSI 15438

6

March 19, 1979

Mr. Norman Morse
The Guardian Corporation
145 North Beacon Street
Brighton, Massachusetts 02135

Subject: Membership in the Friction Materials Standards Institute

Dear Mr. Morse:

In a recent issue of Brake & Front End Service Magazine it was indicated that the Guardian Corporation is now manufacturing some of its own friction material requirements.

Assuming that Guardian is now manufacturing friction materials in commercial quantities your company would be eligible for membership in the Friction Materials Standards Institute. Most of the United States manufacturers of friction materials are Active Members of the Institute. I've enclosed a small booklet concerning membership and activities of the Institute. This booklet was printed in 1974 and is not necessarily up-to-date but it gives some idea of the types of membership and the activities of the Institute.

The Friction Materials Standards Institute has worked with most of the governmental agencies as regards regulations on brake linings. We have worked with the Vehicle Equipment Safety Commission (VESC) and the American Association of the Motor Vehicle Administrators (AAMVA) as regards state requirements for friction materials. We also, of course, have been in contact with regulatory authorities in Washington such as the National Highway Traffic Safety Administration (NHTSA) who are responsible for what may be some new requirements for replacement brake linings in the automotive aftermarket. We also, of course, have been in contact with Occupational Safety and Health Administration (OSHA) and the Environmental Protection Agency (EPA) as regards regulations on asbestos. We have given input to these regulatory authorities and have passed on to our Membership some of the requirements of these agencies. We have also worked with an industry association (the Asbestos Information Association) as regards asbestos regulations or activities relative to the friction materials industry. We have given input to the AIA and have passed on information that they have gathered to our members as well.

FMSI 15439

Mr. Norman Morse
The Guardian Corporation

-2-

March 19, 1979

In addition you may be familiar with our catalogs which are published for members. We publish an "Automotive Data Book" which includes information on brake linings and clutch facings as well as a "Brake Shoe Identification Catalog." Of course we have FMSI number assignments for brake linings, brake shoes and clutch facings which are widely used throughout the industry. The catalogs and the excerpts from the catalogs are copyrighted by the Institute and FMS and FMSI are registered trademarks of the Friction Materials Standards Institute. Many manufacturers find the FMSI catalogs, systems and numbers most helpful in merchandising their products. Upon request of a member, the Institute has given permission to their customers for use of FMS and FMSI numbers, as well as the catalogs and information published by the Institute.

I believe that the Guardian Corporation is eligible for membership based on production of disc brake linings. If that were the main item manufactured by the Guardian Corporation the current annual fee level for membership would be \$1,700. I must indicate that the annual fee is based on a formula with a \$1,050 base figure plus \$650 for each of the categories in which a manufacturer participates. For example, if you were participating in the brake lining section only (which would include disc brake and drum brake linings) the membership would be \$1,050 plus \$650 for a total of \$1,700. The other categories are brake blocks, clutch facings and new unlined brake shoes.

If you were interested in applying for membership in the Institute you should complete the application form and send it on to the Institute. For a new Active Member there is a one time initiation fee of \$1,000 which check should accompany the application. This is a one time initiation fee and does not apply to the regular annual fees. The Institute works on a July 1 to June 30 fiscal year and, of course, we are now coming toward the end of the 1978-79 fiscal year. While I expect that the dues will be maintained at the same level for the 1979-80 year that is something that is resolved by the Board of Directors.

I have enclosed two copies of the application form as well as a copy of our Constitution and By-Laws. In addition I have sent along a booklet that I referred to that describes some of the activities of the Institute, a "History" of FMSI, as well as a list of the Membership as of 1978. As the Guardian Corporation is well known by several of the members I would believe that there would be no difficulty in Guardian being voted into membership. If however, the application were withdrawn or not accepted, the \$1,000 initiation fee would be returned.

If you have any questions concerning membership in the Institute I'd be most pleased to try to answer them.

Sincerely,

FRICITION MATERIALS STANDARDS INSTITUTE, INC.

EWD/lmc
Encs.

E. W. Drislane
Executive Director

FMSI 15440

cles. If you find any, discard and replace the bearing.

Using a soft bristle brush as needed, wash the bearing in clean kerosene, mineral spirits or similar solvent. Do not use gasoline.

Dry the bearing by placing in the folds of a clean shop cloth and then blowing on the cloth with compressed air. Make certain the bearing doesn't spin during this step. When dry, examine all areas of the bearing for scoring, pitting or other imperfections.

Also clean and examine the cup area in the hub.

Replace parts as required then pack with approved lubricant in the normal manner.

Bearings should be repacked and the seals replaced any time a brake drum or rotor is serviced or at intervals recommended by the OE manufacturer. Note that some bearings, such as those on the Omni/Horizon from Chrysler Corp., are lubricated for life and are not adjustable. ■

industry briefs

California-1; Aftermarket-0

The California Air Resources Board has okayed new rules requiring vehicle manufacturers or dealers to repair or replace free any of 100 emissions system parts that break or wear out before 50,000 miles or five years, whichever comes first. The new parts list and regulations apply retroactively to 1973 and later vehicles.

The rule includes such components as carburetors, fuel injection, distributor and ignition systems and catalytic converters.

Before the vote supporting the new rules, Mort Schwartz, California Task Force chairman, and Tim Runner of the Specialty Equipment Manufacturers Assn. testified that the expanded regulations would "tend to create a monopoly for the car manufacturer," and that independent garages would suffer an estimated 30% business loss.

According to the California Automotive Wholesalers' Assn., the public

hearing on the matter, which was led by Board Chairman Tom Quinn, demonstrated "utter disregard for the views of the automotive aftermarket... (Quinn) was not even present to hear the bulk of the testimony," but did return in time to vote in favor of the regulations.

Show 'em the book, judge tells Md. shops

A county circuit court judge in Maryland has handed down a decision that could have widespread implications for all the state's auto repair shops, and perhaps shops nationwide as well.

The judge ordered that Thrifty Diversified Inc., also known as Bill and Earl's Automotive Centers, must tell its customers how labor charges were computed.

The order also said that if any flat-rate manuals are used to compute labor costs, the manuals must be made available to its customers. The order not only effects the auto centers involved, but all repair shops in the state.

Bad PR to blame for "500" hassle?

Former Nebraska Congressman John Y. McCollister has resigned as director of congressional relations for Firestone Tire & Rubber Co.

Although McCollister cited a desire to return to his home state as the reason for departing his Washington post, press reports said that Firestone's handling of its "500" steel-belted tire recall was also a consideration.

McCollister told the *Washington Post*: "I believe they should have handled it differently. It wasn't so much a tire failure as it was a public relations failure."

Firestone decisions regarding the recall reportedly were made with little or no consultation with the Washington office, and representatives in the nation's capital were said to be virtually in the dark about the negotiations that went on between Firestone and the Department of Transportation.

New lining manufacturer is old industry name

Guardian Corp., which claims it is the nation's largest independent manufacturer of disc brake pads and new shoes for aftermarket sale is now manufacturing about half of its own friction material requirements, according to

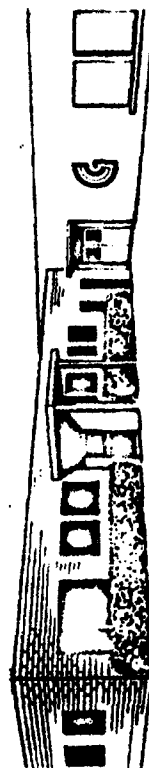
MPG rules will kill big sedans, wagons by 1985: Ford

If the government persists in forcing auto makers to manufacture cars that average 27.5 miles per gallon by 1985, there may be no six-passenger cars or full sized station wagons being manufactured by the middle of the next decade, Ford Motor Co. has claimed.

In a statement to the National Highway Traffic Safety Administration, Ford urged NHTSA to reconsider the rules and said that, while it once believed the 27.5 mpg goal was feasible, it now thinks the standard will prove too costly.

"Going from 26.5 mpg to 27.5 mpg will cost billions, yet it will save the average motorist less than 20 gallons of gasoline per year," Ford said. "In both social and economic terms, the cost of

New Guardian headquarters, 145 N. Beacon St., Brighton, MA 02135



A P P L I C A T I O N F O R M E M B E R S H I P

TO THE BOARD OF DIRECTORS OF
FRICTION MATERIALS STANDARDS INSTITUTE, INC.

Gentlemen:

The undersigned hereby applies for membership in the FRICTION MATERIALS STANDARDS INSTITUTE, INC., as an Active Member, and certifies to the following:

1. Name of Applicant: THE GUARDIAN CORPORATION
2. State of Incorporation: MASSACHUSETTS
3. Principal Office: 145 NORTH BEACON STREET, BRIGHTON, MASS. 02135
4. Date of Incorporation: DECEMBER 18, 1968
5. Length of time dealing with friction materials: 1959
6. Do you manufacture friction materials from the basic materials or do you buy partially finished products from other companies: BOTH
7. Type of friction materials manufactured, and approximate annual capacity of plant: DISC BRAKE PADS. OVER ONE MILLION PIECES
8. State approximate amount of said materials manufactured in commercial quantities: OVER ONE MILLION PIECES
9. Is the distribution of your product national, international or local or in how many states: NATIONAL
10. Do you list the materials you manufacture in catalogs or in some other form; if so, will you furnish us with a copy of same: CATALOG (ENCLOSED)
11. Reference as to financial strength in relation to operations: NEW ENGLAND MERCHANTS NATIONAL BANK. LIST OF SUPPLIERS SENT UPON REQUEST.
12. Is plant owned by applicant or leased: OWNED

APPLICATION FOR MEMBERSHIP

Page two

The undersigned hereby acknowledges receipt of a copy of the Constitution and By-Laws of the Institute and agrees that, if elected to membership, it will accept and be bound by the said Constitution and By-Laws, together with any amendments that may from time to time be made thereto.

The undersigned hereby designates NORMAN MORSE
as its delegate and ROBERT FOSCALDO as its alternate
delegate, to represent it at any meeting of the membership.

April 10, 1979

BY

Norman Morse
Norman Morse

McGRAW-EDISON
GUARDIAN™

August 15, 1984

**Guardian
McGraw-Edison Company
145 North Beacon Street
Brighton, Massachusetts 02135
617 787 9000**

Mr. E.W. Drislane
Executive Director
Friction Materials Standards Institute
Bergen Mall Office Center
E. 210 Route 4
Paramus, NJ 07652

Dear Ed:

Our legal name is Guardian Properties, Inc., but we are doing business as Guardian McGraw-Edison. Would you please change the membership books using our D.B.A.? The acquisition was by net asset purchase and as of now the delegates should remain the same.

Sincerely,

GUARDIAN McGRAW-EDISON



Norman Morse

NM:kr

FMSI 15444

August 21, 1984

To: Officers and Board of Directors

Subject: Guardian McGraw-Edison Company

The Guardian Corporation has participated as an Active Member of the Institute since its admission in 1979. Earlier in 1984, the assets of Guardian Corporation were acquired by McGraw-Edison Company.

We have now been requested to change the name on our Membership records to:

Guardian McGraw-Edison Company
145 North Beacon Street
Brighton, MA 02135

Would the Directors please cast ballots to effect this change of Membership on the Institute records.

A ballot and return envelope are enclosed with the Directors' copies only.

E. W. Drislane
Executive Director

Enclose:

Ballot (Directors)
Letter from N. Morse (All)

DIRECTORS'

BALLOT

Friction Materials Standards Institute
East 210 Route 4
Paramus, NJ 07652

Subject: Change Institute Membership from Guardian Corporation
to Guardian McGraw-Edison Company

Gentlemen:

My ballot on the Membership change from Guardian Corporation to
Guardian McGraw-Edison Company, is:

☒
Approve

☐
Do Not
Approve

By: Larry Mintman

Company: ISI Certified Brakes

Date: Aug 23, 1984

D I R E C T O R S '

B A L L O T

Friction Materials Standards Institute
East 210 Route 4
Paramus, NJ 07652

Subject: Change Institute Membership from Guardian Corporation
to Guardian McGraw-Edison Company

Gentlemen:

My ballot on the Membership change from Guardian Corporation to
Guardian McGraw-Edison Company, is:

☒
Approve

☐
Do Not
Approve

By: W. R. South

Company: VIRGINIA FRICTION

Date: 8-23-84

DIRECTORS'

BALLOT

Friction Materials Standards Institute
East 210 Route 4
Paramus, NJ 07652

Subject: Change Institute Membership from Guardian Corporation
to Guardian McGraw-Edison Company

Gentlemen:

My ballot on the Membership change from Guardian Corporation to
Guardian McGraw-Edison Company, is:

☒
Approve

☐
Do Not
Approve

By: Wm. M. M. M.

Company: Guardian McGraw-Edison

Date: 8/2/74

DIRECTORS'

BALLOT

Friction Materials Standards Institute
East 210 Route 4
Paramus, NJ 07652

Subject: Change Institute Membership from Guardian Corporation
to Guardian McGraw-Edison Company

Gentlemen:

My ballot on the Membership change from Guardian Corporation to
Guardian McGraw-Edison Company, is:

☒
Approve

☐
Do Not
Approve

By: J. H. Messer

Company: GenCorp.

Date: August 24, 1984

DIRECTORS'

BALLOT

Friction Materials Standards Institute
East 210 Route 4
Paramus, NJ 07652

Subject: Change Institute Membership from Guardian Corporation
to Guardian McGraw-Edison Company

Gentlemen:

My ballot on the Membership change from Guardian Corporation to
Guardian McGraw-Edison Company, is:

☒
Approve

☐
Do Not
Approve

By: R. E. Nelson

Company: Alex Corp.

Date: Sept. 7, 1984

↑
To FMSI

DIRECTORS'

BALLOT

Friction Materials Standards Institute
East 210 Route 4
Paramus, NJ 07652

Subject: Change Institute Membership from Guardian Corporation
to Guardian McGraw-Edison Company

Gentlemen:

My ballot on the Membership change from Guardian Corporation to
Guardian McGraw-Edison Company, is:

☒
Approve

☐
Do Not
Approve

By: Bob Nelson

Company: 9/29/04

Date: Nature

Wagner

TELEPHONE (201) 845-0440

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

March 23, 1987

Ms. Marguerite Scotto
Wagner Division
100 Misty Lane
Parsippany, NJ 07054

Dear Ms. Scotto:

Per our phone conversation, we are enclosing copies of our BULLETIN NO. 639 and 881, along with the attachments that were enclosed with the original bulletins. Also enclosed is a copy of our FRICTION MATERIALS WORK PRACTICES GUIDE which was published in 1978. You will note that we have attached a warning notice to this booklet stating that "OSHA HAS PROMULGATED NEW STANDARDS FOR OCCUPATIONAL EXPOSURE TO ASBESOS, EFFECTIVE JULY 21, 1986." Beneath that we note that certain recommendations in that booklet are no longer in harmony with the new regulations.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

FMSI 15452



WAGNER

Wagner

October 28, 1986

Mr. E. W. Drislane,
Executive Director
Friction Materials Standards Institute
Bergen Mall Office Center
E. 210, Route #4
Paramus, NJ 07652

REF: JWK-86-374

Dear Ed:

Enclosed is my personal check for \$12.50 for a copy of the 1946 Brake Lining Manufacturers Association Catalog.

I hope this has not inconvenienced you too much. I really appreciate you offering to make this information available to us at Wagner.

Sincerely yours,

J. W. Kourik

J. W. Kourik, Director
Brake Engineering/Aftermarket Services

sn

Enclosure: Check #1402



WAGNER

Ref: VL-6

July 28, 1986

Mr. E. W. Drislane
Executive Director
Friction Materials Standards Institute
E-210 Route 4
Paramus, New Jersey 07652

Dear Mr. Drislane:

Attached is our check in the amount of \$600.00 covering our annual Licensee membership fee from July 1986 through June 1987 (your Invoice No. 005011 dated 7/1/86.

Thanks for your assistance and cooperation during the year, and the problem solving between you and our Associate Member, John Mayer, is appreciated.

Also, the bulk mailing of 20 copies of the FMSI Bulletins for distribution from here is still working out well.

Sincerely,

Vi Lomando
Brake Engineering

attach. Ck. #155288

cc: R. C. Bueler



WAGNER

Ref: JMM-86-91



Cue

May 14, 1986

Mr. E.W. Drislane
Executive Director
Friction Materials Standards Institute
Bergen Mall Office Center
E. 210, Route #4
Paramus, New Jersey 07652

Dear Ed:

Thank you for the copy of the 1986 Automotive Data Book. Will you please make a notation so that the next revision to the Automotive Data Book will correct Wagner's name in the listing of Licensees to Wagner Division, Cooper Industries, Inc. in place of Wagner Division, McGraw-Edison Company. The listing of St. Louis, Missouri as the address should stay the same.

Bob Foscaldo, by copy of this letter, is requested to advise the FMSI of corresponding action to be taken on listing Guardian's name on the active Member's list in the back of the FMSI Data Book.

Many thanks for your attention to this matter.

Very truly yours,

John M. Mayer

John M. Mayer
Brake Engineering

cc: R. C. Bueler
R. G. Foscaldo
J. W. Kourik
A. R. Wadum

v1

Wagner Division
Cooper Industries, Inc.
1848 Craig Road
St. Louis, Missouri 63146

FMSI 15455



✓
WAGNER

April 22, 1986

and

Mr. E. W. Drislane
Executive Director
Friction Materials Standards Institute
Bergen Mall Office Center
E. 210, Route #4
Paramus, NJ 07652

REF: JWK-86-139

Dear Ed:

Enclosed is a sample Wagner carton for Disc Brake Pads which shows the "Caution" notice supplemented with an "Important" notice concerning work with brake systems. These same notes appear on our lined shoe cartons. You will also note that the cover includes a Caution notice concerning improper application and/or installation.

Very truly yours,


J. W. Kourik, Director
Brake Engineering/Aftermarket Services

sn

Enclosure

Wagner Division
Cooper Industries, Inc.
1848 Craig Road
St. Louis, Missouri 63146

314/851-5320

FMSI 15456



WAGNER

April 17, 1986

Mr. E. W. Drislane
Executive Director
Friction Materials Standards Institute
E. 210, Route #4
Paramus, NJ 07652

REF: JWK-86-135

Dear Ed:

I appreciated having you devote the two hours of your time yesterday towards discussion on the EPA proposed ban on asbestos. It was reassuring to know that those of us who have been involved in in-depth vehicle testing of brake friction materials have similar concerns and approaches to total evaluation of brake friction products.

I am returning your personal copy of the Draft of your EPA response.

While I was in your office I noticed that you have some Wagner catalogs and I decided it was best to send you a copy of Page 1 from a Wagner HU-800/SEPT 1985 Catalog to confirm the content of the Caution note we use to supplement the OSHA asbestos warning. As soon as I get a fresh container from one of our Bonding Shops, I will send that to you since the printing on a container is a much better representation of the catalog text.

We also talked about warnings and you will see that this page has two additional warnings that help us provide adequate instructions to the users of our products.

Just in case you do not have one of our Wagner Service Manuals, I am enclosing a copy of AU-1600/FEB 1984.

Very truly yours,


J. W. Kourik, Director
Brake Engineering/Aftermarket Services

sn

Enclosures: FMSI Draft Letter to EPA
Page 1 from Wagner HU-800/SEPT 1985 Catalog
Wagner Catalog AU-1600/FEB 1984

cc R. C. Bueler
T. R. Rokos
D. J. Stansell

Wagner Division
Cooper Industries, Inc.
1848 Craig Road
St. Louis, Missouri 63146

314/851-5320

FMSI 15457

Wagner

Wagner Division
Cooper Industries, Inc.
1848 Craig Road
St. Louis, Missouri 63146

July 10, 1985

Mr. E. W. Drislane
Executive Director
Friction Materials Standards Institute
E-210 Route 4
Paramus, New Jersey 07652

Coop

Dear Mr. Drislane:

Attached is our check in the amount of \$600.00 to cover Wagner Division, Cooper Industries, Inc.'s (formerly McGraw-Edison Company) annual Licensee membership fee from July 1985 through June 1986 (your Invoice No. 004767 dated 7-1-85).

Your forwarding the 20 copies each of the FMSI Bulletins to my attention for distribution among Parsippany and St. Louis personnel has worked out very well, and I am sure it saves you a lot of precious time.

Thanks for your continual cooperation.

Sincerely,

WAGNER DIVISION
COOPER INDUSTRIES, INC.

Vi Lomando
Vi Lomando
Brake Engineering

Attach. Ck. No. 119356

INVOICE

FRICITION MATERIALS STANDARDS INSTITUTE

E-210 ROUTE 4 • PARAMUS, NEW JERSEY 07652 • PHONE (201) 845-0440

Please change your records as follows:

~~SOLD TO~~

~~SHIPPED TO~~

~~Wagner Electric Corporation
1848 Craig Road
St. Louis, MO 63141
Attn: Mrs. Vi Lomando
Automotive Engineering Div.~~

Wagner Division
Cooper Industries, Inc.
1848 Craig Road
St. Louis, MO 63146
Attn: Mrs. Vi Lomando
Brake Engineering

DATE	DATE SHIPPED	SHIPPED VIA	YOUR ORDER NO.	F.O.B.	TERMS	INVOICE NO.	
7-1-85					Net	004767	
QUANTITY	DESCRIPTION					PRICE	AMOUNT
	Annual Membership Fee for 1985-86 Fiscal Year						
	(July 1, 1985 - June 30, 1986)						US\$600.00
	Payable In U. S. Dollars						

Item # NV-R75 ©Wheeler Group Inc.

THANK YOU

FMSI 15459

McGraw-Edison

WAGNER

W

Wagner Division
McGraw-Edison Company
1848 Craig Road
St. Louis, Missouri 63141

314/851-5345

July 13, 1984

Friction Materials Standards Institute
E-210 Route 4
Paramus, New Jersey 07652

Attention: E.W.Driscane
Executive Director

Gentlemen:

Attached is our check in the amount of \$600.00 to cover Wagner Division, McGraw-Edison Company's annual Licensee membership fee from July 1984 through June 1985 (your invoice No. 004511 dated 7/1/84).

Copies of FMSI Bulletins are to be forwarded to Messrs. Wm. O. Johnson, M. T. Haase, P. M. Murray and F. L. Wujick, 100 Misty Lane, Parsippany, New Jersey 07054, and to Messrs. J. W. Kourik, R. O. Tuegel, A. R. Wadum, J. M. Mayer and the writer at 1848 Craig Road, St. Louis, Missouri 63146.

Very truly yours,

WAGNER DIVISION
McGraw-Edison Company

Vi Lomando

Vi Lomando
Brake Engineering

/vl

attach.

FMSI 15460

McGRAW-EDISON
WAGNER

Wagner Division
McGraw-Edison Company
1848 Craig Road
St. Louis, Missouri 63146
63146

314/851-8345

July 12, 1983

Friction Materials Standards Institute
E-210 Route 4
Paramus, New Jersey 07652

Attention: E. W. Drislane
Executive Director

Gentlemen:

Attached is our check in the amount of \$600.00 to cover Wagner Division, McGraw-Edison Company's annual Licensee membership fee from July 1983 through June 1984 (your Invoice #004250).

Copies of FMSI Bulletins are to be forwarded to Messrs. W. O. Johnson, M. T. Haase, J. W. Kourik, P. M. Murray and F. L. Wujick, 100 Misty Lane, Parsippany, New Jersey 07054, and to Messrs. R. O. Tuegel, A. R. Wadum, J. M. Mayer and the writer at 1848 Craig Road, St. Louis, Missouri 63146.

Very truly yours,

WAGNER DIVISION
McGRAW-EDISON COMPANY

Vi Lomando

Vi Lomando
Brake Product Engineering

/v1

attach. Ck. #17118

FMSI 15461

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

June 3, 1983

Mr. Paul Wehl
Wagner Division
McGraw Edison Company
100 Misty Lane
Parsippany, NJ 07054

Dear Paul:

As noted on the phone, I'm sending along a copy of our notice to Active Members and Regional Members on publication of a 1983 Brake Block Identification Catalog.

Should you wish copies, please let me know, and we will make arrangements with one of the Active Members for Wanger's needs. If you want just a few copies, I will take care of it directly.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/e

McGRAW-EDISON
WAGNER

**Wagner Division
McGraw-Edison Company
11444 Lackland Road
St. Louis, Missouri 63141**

314/569-5300

August 3, 1982

Friction Materials Standards Institute
E-210 Route 4
Paramus, New Jersey 07652

Attention: E. W. Drislane
Executive Secretary

Gentlemen:

Attached is our check in the amount of \$600.00 to cover Wagner Division, McGraw-Edison Company's annual Licensee membership fee from July 1982 through June 1983 (your Invoice #003979).

Copies of FMSI Bulletins are to be forwarded to Messrs. L. T. Doxsee, M. T. Haase, J. W. Kourik, P. M. Murray and F. L. Wujick, 100 Misty Lane, Parsippany, New Jersey 07054, and to Messrs. R. O. Tuegel, A. R. Wadum, J. M. Mayer and the writer at 11444 Lackland Road, St. Louis, Mo. 63141.

Very truly yours,

WAGNER DIVISION
McGRAW-EDISON COMPANY

Vi Lomando

Vi Lomando
Brake Product Engineering

/v1

Attach. Ck. #529650

FMSI 15463

Wagner

December 3, 1981

Mr. Jack Mourik
Wagner Division
McGraw-Edison Company
11444 Lackland Road
St. Louis, MO 63141

Dear Jack:

The reference on Page 21 of our "History" was to the insert which we distributed and which first appeared in our "1977 Automotive Data Book." As in the text in our "History," the title of that insert was: "Recommended Procedures for Reducing Asbestos Dust During Brake Servicing." A copy of that insert as written in 1977 is enclosed.

This was subsequently revised. The revisions gave a little more precision. I'm enclosing a copy of our recommendations as they appear in more recent catalogs. I'm not sure of exactly when they were revised, but it was probably 1979 to bring the write-up into harmony with that small booklet to which you referred. That "Work Practices" booklet was published in the fall of 1979.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

E. W. Drislane
Executive Director

EWD/dld

Enclosures

McGRAW-EDISON
WAGNER

Wagner Division
McGraw-Edison Company
11444 Lackland Road
St. Louis, Missouri 63141

314/569-5300

July 28, 1981

Friction Materials Standards Institute
E-210 Route 4
Paramus, New Jersey 07652

Attention: E. W. Drislane
Executive Secretary

Gentlemen:

Attached is our check in the amount of \$550.00 to cover
Wagner Electric Division's annual membership fee from July 1981
through June 1982 (your Inv. #003716).

Copies of bulletins are to be forwarded to Mr. L. T. Doxsee
at our Parsippany, New Jersey location, and to Messrs. J. W. Kourik,
R. O. Tuegel, A. R. Wadum and the writer at 11444 Lackland Road,
St. Louis, Missouri 63141 (same mailing list as in 1981).

Very truly yours,

WAGNER DIVISION,
McGRAW-EDISON COMPANY

Vi Lomando
(Mrs.) Vi Lomando
Brake Product Engineering

/vl

attach. Ck. #521435

cc: Messrs. L. T. Doxsee
J. W. Kourik
R. O. Tuegel
A. R. Wadum

OK.
ENC
8/4/81

FMSI 15465

WAGNER

July 11, 1980

Friction Materials Standards Institute
E-210 Route 4
Paramus, New Jersey 07652

Attention: E. W. Drislane
Executive Secretary

Gentlemen:

Attached is our check in the amount of \$550.00 to cover
Wagner Electric Corporation's annual membership fee from July 1980
through June 1981 (your Inv. #003401).

Mr. R. E. Murphy is no longer with the Company, but it is
requested that copies of bulletins be sent instead to

Mr. L. T. Doxsee
Wagner Electric Corporation
100 Misty Lane
Parsippany, New Jersey 07054

in addition to copies for Messrs. J. W. Kourik, R. O. Tuegel,
A. R. Wadum and the writer at 11444 Lackland Road, St. Louis,
Mo. 63141.

Very truly yours,

WAGNER ELECTRIC CORPORATION

Vi Lomando
(Mrs.) Vi Lomando
Brake Product Engineering

/v1

attach. Ck. #707187

cc: Messrs. L. T. Doxsee
J. W. Kourik
R. O. Tuegel
A. R. Wadum

*R. E. Murphy had
been removed
from mailing
list before.
OK
EPC
7/15/80*

FMSI 15466

Wagner

December 18, 1979

Mr. R. O. Tuegel
Wagner Electric Corporation
11444 Lackland Road
St. Louis, Missouri 63141

Dear Bob:

Thank you for your letter of December 13, 1979 where you enclosed a copy of your submission to the ANPRM issued by the EPA. I have made copies of your submission for distribution to our Board of Directors and our Health and Environmental Affairs Committee.

As regards our submission to the Docket we had drafted one reply concerning the population, routes and duration of exposure. However, this submission has not as yet been approved for submission to the Docket by our Legal Counsel.

A copy of this intended submission is enclosed. I expect it to be submitted to the Docket in much the fashion that it is. Our comments addressed their selection of friction materials as an area of major exposure. We have tried to put the population exposed and the routes and durations of exposure into perspective. However, as I indicated this has not as yet been approved for our submission by Counsel.

In addition, I am enclosing copies of bulletins that were issued to the Membership on December 18, 1979. These are our Bulletin #668 along with Bulletin #668A. We included several enclosures to our Members to advise what is going on in Washington, and our industry's reaction thereto. You might pay particular attention to the draft eleven questions from EPA which they entitled "Informational Needs for Friction Products Containing Asbestos." These are eleven questions being asked by EPA. We intend to meet with a group from EPA's Toxic Substances Control Office in Washington on January 3, 1980 to seek clarification on this request for information. If you have any questions, please give me a call.

Sincerely,

FRICION MATERIALS STANDARDS INSTITUTE, INC.

EWD/lmc
Enc.

E. W. Drislane
Executive Director

FMSI 15467

WAGNER

December 7, 1979

Mr. E. W. Drislane
Executive Director
Friction Materials Standards Institute, Inc.
Bergen Mall Office Center
E210 Route 4
Paramus, N.J. 07652

Dear Mr. Drislane:

In answer to your letter of December 5, 1979, please discontinue bulletins and correspondence to Mr. R. E. Murphy at the Plymouth Avenue address.

Mr. Doxsee has replaced Mr. Murphy as Director of Aftermarket Marketing and this department has been transferred to Parsippany, New Jersey.

Sincerely,

WAGNER ELECTRIC CORPORATION

Virginia Roth

Virginia Roth
Aftermarket Marketing

*OK
erc
12/10/79*

↓
WAGNER ELECTRIC CORPORATION

6400 PLYMOUTH AVENUE, SAINT LOUIS, MISSOURI 63133

314 721-5000

WAGNER

November 28, 1979

One

Friction Materials Standards Institute, Inc.
Bergen Mall Office Center
E. 210 Route 4
Paramus, N. J. 07652

Gentlemen:

Would you please send any bulletins or correspondence that is now
being sent to R. E. Murphy, Wagner Electric Corp., 6400 Plymouth Ave.
St. Louis, Mo. 63133 to the following address:

Mr. L. T. Doxsee
Wagner Electric Corporation
100 Misty Lane
Parsippany, N. J. 07054

OK ERC 12/5/79

Thank you for your help in this matter.

Yours very truly,

WAGNER ELECTRIC CORPORATION

Virginia Roth

Virginia Roth
Aftermarket Marketing

vr

cc: Mr. L. T. Doxsee
Mr. J. C. Schroer

FMSI 15469

December 5, 1979

Ms. Virginia Roth
Wagner Electric Corporation
6400 Plymouth Avenue
St. Louis, Missouri 63133

Dear Ms. Roth:

I have your letter of November 28, 1979 asking that bulletins and correspondence be sent to Mr. L. T. Doxsee in Parsippany. We will see that the bulletins and correspondence are routed to Mr. Doxsee.

In the meanwhile, am I to discontinue sending the correspondence to Mr. Murphy at the Plymouth Avenue address? Please let me know if I am to discontinue Mr. Murphy's mailings.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

EWD/erc

E. W. Drislane
Executive Director

Wagner

September 17, 1979

Mr. Terry Keller
Wagner Electric Corporation
11444 Lackland Road
St. Louis, Missouri 63141

Dear Terry:

Per our phone conversation I am enclosing one copy each of Data Book Bulletins #286, 287 and 288. In addition, we have added your name to the mailing list for routine distribution of the blue shoe bulletins.

I'm sure that Chuck Newell can help out on the routine distribution of the Data Book Bulletins.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

EWD/lmc

E. W. Drislane
Executive Director

FMSI 15471

WAGNER

July 12, 1979

Friction Materials Standards Institute
E-210 Route 4
Paramus, New Jersey 07652

Attention: E. W. Drislane
Executive Secretary

Gentlemen:

Attached is our check in the amount of \$550.00 to cover
Wagner Electric Corporation's annual membership fee from July 1979
through June 1980 (your invoice #003077).

It is requested that copies of bulletins be sent to
Mr. R. E. Murphy at our 6400 Plymouth, St. Louis, Missouri 63133
address in addition to copies for Messrs. J. W. Kourik, R. O. Tuegel,
A. R. Wadum and the writer at 11444 Lackland Road, St. Louis, Mo. 63141.

Very truly yours,

WAGNER ELECTRIC CORPORATION


(Mrs.) Vi Lomando
Brake Product Engineering

/v1

attach. Ck. #265390

cc: Messrs. R. E. Murphy *OK-7/19/79*
J. W. Kourik ✓
R. O. Tuegel *OK 7/19/79*
A. R. Wadum ✓

WAGNER

December 15, 1978

Sent 12/79 ✓

Friction Materials Standards Institute
East 210, Route 4
Paramus, New Jersey 07652

Gentlemen:

Please find enclosed our check for \$9.00 for 100 copies of the booklet entitled "FRICTION MATERIALS WORK PRACTICES GUIDE". Would you please send these to the above address, my attention.

Thank you.

Very truly yours,

WAGNER ELECTRIC CORPORATION

John W. Kourik / wn
John W. Kourik
Chief Engineer
Brake Products

JWK:wn
Enclosure (Check #234641)

WAGNER

August 2, 1978

Friction Materials Standards Institute
E-210 Route 4
Paramus, New Jersey 07652

Attention: E. W. Drislane
Executive Secretary

Gentlemen:

Attached is our check in the amount of \$500.00 to cover Wagner Electric Corporation's annual membership fee from July 1978 thru June 1979 (your Invoice #002751).

✓ It is requested that copies of bulletins be sent to Messrs. Allan Meier and Walter C. May at our 6400 Plymouth, St. Louis, Mo. 63133 address in addition to those sent to Mr. J. W. Kourik and the ✓ writer at 11444 Lackland Road, St. Louis, Mo. 63141.

In the past Mr. A. A. Mueller has also received copies of the bulletins. Mr. Mueller has now been transferred to our Vehicle Test Center facility in Oklahoma, and bulletins previously sent to him should now be addressed to Mr. A. R. Wadum at the Lackland address. If any problem, please advise.

} OK
SPC
8/11/78

Very truly yours,

WAGNER ELECTRIC CORPORATION

Vi Lomando
(Mrs) Vi Lomando
Brake Product Engineering

attach. Ck. #260163

cc: Messrs. A. Meier
W. C. May
A. R. Wadum

FMSI 15474

Wagner

6/78

Mr. A. A. Mueller
Wagner Electric Corporation
11444 Lackland Road
St. Louis, Mo 63141

Dear Al:

Thank you for your recent phone call concerning your new position with Wagner.

I enjoyed very much our contacts on aftermarket shoe and lining assignments. You have always been most helpful and have gone out of your way to help when I had a question. I hope I have in turn helped answer some of your questions.

I will miss dealing with you and wish you the best in your new assignment. I'd appreciate it if you could let your successor be known, so that I can contact him and make arrangements for mailing bulletins and other literature. Again, success in your new assignment in the Southwest.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

EWD/lmc

E. W. Drislane
Executive Director

WAGNER ELECTRIC CORPORATION

6400 PLYMOUTH AVENUE, SAINT LOUIS, MISSOURI 63133

314 721-5000

WAGNER

March 31, 1978

**FRICTION MATERIALS STANDARDS INSTITUTE, INC.
Bergen Mall Office Center
E210 Route 4
Paramus, N. J. 07652**

Attn: Edward W. Drislane, Executive Director

Dear Ed:

I have your letter of March 23rd plus the shoe bulletins that I hadn't received due to the mix up of removing my name from the mailing list.

We have new people here at Wagner who don't realize that Harry has been around here for thirty years and still would like to remain on the mailing list for F.M.S.I. Therefore, I wish to thank you for putting me back on.

Yours very truly,

WAGNER ELECTRIC CORPORATION

**Harry B. Wisniewski
Manager, Home Office
Aftermarket Sales**

HHW/dbr

FMSI 15476

WAGNER ELECTRIC CORPORATION 11444 LACKLAND ROAD, ST. LOUIS, MISSOURI 63141

~~11444-5000~~

314 721-5000

WAGNER

August 1, 1977

Friction Materials Standards Institute
E-210 Route 4
Paramus, New Jersey 07652

Attention: Mr. E. W. Drislane
Executive Secretary

Gentlemen:

Attached is our check in the amount of \$500.00 to cover the Wagner Electric Corporation membership fee from July 1, 1977 through June 30, 1978 (your Invoice No. 002453).

Copies of the bulletins are also to be sent to Messrs. Allan Meier and Walter C. May at 6400 Plymouth Avenue, St. Louis, Mo. 63133, in addition to those sent to the writer at 11444 Lackland Road, St. Louis, Mo. 63141.

Very truly yours,

WAGNER ELECTRIC CORPORATION



V. Lomando
Brake Product Engineering

/v1

attach. Ck. #207128

cc: Mr. Allan Meier
Mr. W. C. May

FMSI 15477

MAILING LIST CHANGE

Member Wagner

Date 8/3/77

This change effects the following lists:

General Bulletins - Active	☐	Foreign Shoe Bulletins	☐
General Bulletins - Regional	☐	Delegates & Alternates	☐
General Bulletins - Licensees	☒	Annual Fee Billing	☐
Data Book Bulletins	☐	Regular Billing	☐
Shoe Bulletins	☒		

Change List As Follows:

Mailed to: Vi Lovander, J. Kowalski, R.C. Mueller
1144 Locustland Rd
St Louis MO 63141

Allen Meier, W.C. May
6400 Plymout Ave
St Louis MO 63137

(Ryszard Januszko, Wisniewski)

Source of Change: Vi Lovander Wagner 8/1/77

	<u>Name</u>	<u>Date</u>
Requested by:	<u>EW</u>	<u>8/3/77</u>
Polodex Files (Both) Changed:	<u>E.R.</u>	<u>8/4/77</u>
Addressograph Plate Changed:	<u>E.R.</u>	<u>8/4/77</u>
Address/Telephone Directory Changed:	<u>—</u>	<u>—</u>

WAGNER

March 7, 1977



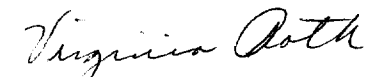
Friction Materials Standards Institute, Inc.
Bergen Mall Office Center
E. 210 Route 4
Paramus, N. J. 07652

Gentlemen:

Please change the name on our subscription to Friction Materials Standards Institute, Inc. to have all correspondence sent to Mr. Walter C. May instead of D. F. Salzmänn. Mr. Salzmänn is no longer an employee of Wagner Electric.

Thank you.

Yours very truly,


Virginia Roth
Secretary
Aftermarket Marketing

(11/19/76)

BOB TUGGEL

NORM EDWARDS

PAUL MARZING (TRUCK - HYD AND CAMS)

OLLIE (POWER ENGL - HYDRAULIC)

GARY ELSTON (FORD PASS CAR)

October 13, 1976

Mr. A. Mueller
Wagner Electric Corporation
11444 Lackland Road
St. Louis, Mo 63141

Dear Al:

This is to confirm the verbal arrangements I made to visit
Wagner in St. Louis.

I plan to be at Wagner on Wednesday morning, October 27, 1976.
I expect to arrive in St. Louis on Tuesday nite.

In particular, I'll be interested in any lining and shoe
information as regards your F brake, FR brake, and the new S
cam brakes. I've enclosed a list of the various F, FR and S
cam brakes with applicable FMSI lining and shoes for these
brakes. I'm interested in any changes, modifications, additions
or deletions to the lining and application information.

I hope to get over to the Lackland Road plant sometime about
nine on Wednesday morning. I will look forward to seeing you
then.

Sincerely,

FRICION MATERIALS STANDARDS INSTITUTE

EWD/lmc

E. W. Drislane
Executive Director

FMSI 15480

WAGNER ELECTRIC CORPORATION
WAGNER DIVISION

6400 PLYMOUTH AVENUE-ST. LOUIS, MISSOURI 63133 U.S.A.

ADDRESS REPLY TO:

11444 LACKLAND ROAD
ST. LOUIS, MISSOURI 63141

July 13, 1976

Friction Materials Standards Institute
E-210 Route 4
Paramus, New Jersey 07652

Attention: Mr. E. W. Drislane
Executive Secretary

Gentlemen:

Attached is our check in the amount of \$500.00 to cover the
Wagner Corporation membership fee from July 1, 1976 through
June 30, 1977 (your Invoice No. 002164).

Copies of the bulletins are also to be sent to Messrs. H. H.
Wisniewski and D. F. Salzmänn at 6400 Plymouth Avenue, St. Louis,
Missouri 63133, in addition to those sent to the writer.

In the future, any general correspondence concerning FMSI
activity, as well as notices for payment of fees (previously sent
to Mr. E. A. Keil), are to be directed to

OK spe

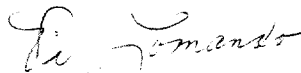
Wagner Corporation
11444 Lackland Road
St. Louis, Missouri 63141

Attention: Mrs. Vi Lomando
Automotive Engineering Div.

OK spe

Very truly yours,

WAGNER CORPORATION



V. Lomando
Automotive Engineering Div.

/vl

Attach.
cc: Mr. H. H. Wisniewski
Mr. D. F. Salzmänn

Wagner

TELEPHONE (201) 645-0440

FRICION MATERIALS STANDARDS INSTITUTE, INC.

BERGEN MALL OFFICE CENTER

E. 210 ROUTE 4

PARAMUS, N. J. 07652

February 18, 1976

Mr. D. F. Salzmnn
Wagner Electric Corporation
6400 Plymouth Avenue
St. Louis, Missouri 63133

Dear Don:

As a follow up to earlier correspondence I am enclosing a copy of the Institute's comments to OSHA on the asbestos regulations.

The Asbestos Information Association (AIA) put on a most professional meeting in Washington on February 4, 1976. As you are probably aware, OSHA has extended the period for comments to April 9, 1976.

At this AIA meeting, it was decided if a time extension was officially granted, that Roy F. Weston, Consultants to AIA, would extend their study from "primary" manufacturers (those introducing asbestos into the product) to "secondary" and "Consumer" sections. Wagner Electric would be a large "secondary" manufacturer. If Wagner Electric is contacted by the Roy Weston organization, I urge that you give them your full and candid cooperation. It is my understanding that the Roy Weston organization will protect any proprietary information.

Sincerely,

FRICION MATERIALS STANDARDS INSTITUTE

EWD/erc
Enclosure:

E. W. Drislane
Executive Director

FMSI 15482

December 12, 1975

Mr. D. F. Salzmann
Wagber Electric Corporation
6400 Plymouth Avenue
St. Louis, Missouri 63133

Dear Don:

We talked several weeks ago about the recent OSHA proposals on asbestos. The comment closing date has been postponed for 60 days to February 6, 1976.

I am enclosing a copy of a report on a recent seminar on asbestos sponsored by the Institute. Mr. Byung Kwon of OSHA addressed our group and I thought you might be interested in his comments. A copy is enclosed.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

EWD/erc
Enclosure:

E. W. Drislane
Executive Director

↓
WAGNER ELECTRIC CORPORATION
WAGNER DIVISION

6400 PLYMOUTH AVENUE-ST. LOUIS, MISSOURI 63133 U.S.A.

August 8, 1975

ADDRESS REPLY TO:

11444 LACKLAND ROAD
ST. LOUIS, MISSOURI 63141



Friction Materials Standards Institute
E-210 Route 4
Paramus, New Jersey 07652

Attention: Mr. E. W. Drislane
Executive Secretary

Gentlemen:

We are sending you herewith our check in the amount of \$500.00 to cover the Wagner Electric Corporation membership fee from July 1, 1975 through June 30, 1976 (your invoice No. 1917).

Will you please mark your records to indicate copies of the bulletins are to be sent to Mr. H. H. Wisniewski and Mr. D. F. Salzmann at 6400 Plymouth Avenue, St. Louis, Missouri, 63133, in addition to those sent to the writer.

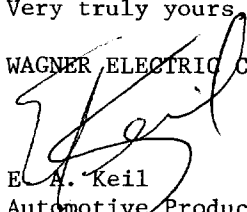
Any general correspondence concerning FMSI activity, as well as notices for payment of fees, are to be sent to:

Wagner Electric Corporation
11444 Lackland Road
St. Louis, Missouri 63141

Attention: Mr. E. A. Keil
Automotive Engineering Div.

Very truly yours,

WAGNER ELECTRIC CORPORATION



E. A. Keil

Automotive Product Engineering

EAK:val

Attachment: Check No. 72478

cc: Mr. H. H. Wisniewski
Mr. D. F. Salzmann

FMSI 15484

Vogner Electric

Lackland Road

Skil

Mueller

Kawuk

Plymouth Avenue.

Hamilton

Salzmann

now - Wisniewski

Wagner Electric Sales Corporation

5675 INTERNATIONAL WAY
P.O. BOX 22211
MILWAUKIE, OREGON 97222
TELEPHONE: 503-653-0555

June 23, 1975



Friction Materials Standards Institute Inc
E 210 Route 4
Paramus, New Jersey 07652

Gentlemen:

Please send us (50) fifty copies of your latest edition on the
Brake Block Identification Catalog.

Yours very truly,



Jack Fettig
Sales & Service Manager

JF:ms

June 26, 1975

Mr. Jack Fettig
Wagner Electric Sales Corporation
P. O. Box 22211
Milwaukie, Oregon 97222

Dear Mr. Fettig:

In reply to your letter of June 23, 1975, we have no more
BRAKE BLOCK IDENTIFICATION CATALOGS on hand.

We expect to publish a new edition late in 1975.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE

EWD/erc

E. W. Drieland
Executive Director

Wagner

April 17, 1975

Mr. J. W. Kourik
Wagner Electric Corporation
11444 Lackland Road
St. Louis, Missouri 63141

Dear Jack:

Thank you for the copy of your submission to the VESC on their proposed
"Brake Component Wear Warning Regulation".

I've enclosed a copy of my brief report of the April 10, 1975 hearing
for your information.

Sincerely,

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

EWD/erc
Enclosure:

E. W. Drislane
Executive Director

APPLICATION FOR MEMBERSHIP

TO THE BOARD OF DIRECTORS OF
FRICTION MATERIALS STANDARDS INSTITUTE, INC.

*Accepted as Licensee
January 2, 1964.*

Gentlemen:

The undersigned, a manufacturer of brake shoes, hereby applies for membership in the FRICTION MATERIALS STANDARDS INSTITUTE, INC. as a Licensee and certifies to the following:

1. Name of applicant: Wagner Electric Corporation
2. Date and place of incorporation: Company started in 1891 as a Missouri corporation,
then seceded by Delaware Corporation in July, 1922
3. Principal office: 6400 Plymouth, St. Louis 33, Missouri
4. Length of time manufacturing brake shoes: 35 years
5. Do you manufacture brake shoes from the basic materials: Yes
6. Approximate annual brake shoe manufacturing capacity of plant: 20,000,000
7. State approximate number of square feet devoted to brake shoe manufacturing: 44,000
8. State approximate number of unlined shoes manufactured and sold as unlined brake shoes: OEM & Replacement not recorded separately
9. How many different brake shoe set numbers do you manufacture other than shoes which you recondition or remanufacture: Manufacture approximately 50 different part numbers
10. Is the distribution of your product national, international or local or in how many states: Distribution is local, national and international
11. Do you list the brake shoes you manufacture in catalogs or in some other form. If so, please attach a copy of same. Yes
12. Please furnish three credit references: First National Bank of St. Louis, Missouri
U. S. Steel Company, New York, New York
American Brakeblok Division, Troy, Michigan
13. Is plant owned by applicant or leased: Owned

The undersigned hereby acknowledges receipt of a copy of the Constitution and By-Laws of the Institute and agrees that, if elected to membership, it will accept and be bound by the said Constitution and By-Laws, together with any amendments that may, from time to time, be made thereto.

Wagner Electric Corporation

BY

A handwritten signature in cursive script, appearing to read "F. G. Wilson", is written over a horizontal line.

F. G. Wilson, General Manager
Parts & Accessories Division