

FRICITION MATERIALS STANDARDS INSTITUTE

588 MONROE TURNPIKE, MONROE, CT 06468

AUTOMOTIVE DATA BOOK BULLETIN #2-991

November 5, 1999

		FRONT	SYSTEM	REAR
		FMSI NO.	F/R	FMSI NO.
<u>BUICK (See Comments)</u>				
2000, Park Avenue		7693-D699**	D/	
		(Note #10)		
1999-97, Park Avenue	OR	7693-D699**	D/	
2000, Riviera		7693-D699**	D/	
1999-97, Riviera	OR	7693-D699**	D/	
2000, Regal		7693-D699**	D/	
1999-97, Regal	OR	7693-D699**	D/	
<u>CADILLAC (See Comments)</u>				
2000, Eldorado		7693-D699**	D/	
1999-97, Eldorado	OR	7693-D699**	D/	
2000, DeVille		7693-D699**	D/	
1999-97, DeVille	OR	7693-D699**	D/	
1997, Seville	OR	7693-D699**	D/	
<u>CHEVROLET (See Comments & Corrections)</u>				
1996-89, Corvette			/D	7689-D413**
				(Note #6)
2000, Impala			/D	7387-D814**
				(Note #16)
2000, Monte Carlo			/D	7387-D814**
2000, Venture		7693-D699**	D/	
1999-97, Venture	OR	7693-D699**	D/	
<u>CHEVROLET TRUCK (See Corrections)</u>				
1999, Tracker			/N	1506-S738*
<u>FERRARI</u>				
1992-88, F40		7684-D810**	D/D	7684-D810**
		(Notes #1 & #12)		
1995-93, F50		7684-D810**	D/	
<u>FORD</u>				
2000, Focus		7690-D816**	D/	
		(Notes #7 & #18)		
<u>HONDA</u>				
1999, Odyssey			/N	1512-S744*
				(Notes #11 & #20)
<u>HYUNDAI (See Comments)</u>				
1999, Sonata		7329-D747**	D/N	1400-S746*
				(Note #22)
	OR		/D	7688-D813**
				(Notes #5 & #15)
1998, Sonata	OR		/N	1400-S746*
	OR		/D	7688-D813**

SEE DISCLAIMER AT END OF BULLETIN. FMSI® and FMS® are registered trademarks of the Friction Materials Standards Institute, Inc. Copyright© by Friction Materials Standards Institute, Inc.

		FRONT	SYSTEM	REAR
		FMSI NO.	F/R	FMSI NO.

NISSAN (See Comments)

2000, Maxima		7318-D815**	D/	
		(Note #17)		

OLDSMOBILE

2000, Aurora		7693-D699**	D/	
1999-97, Aurora	OR	7693-D699**	D/	
2000, Intrigue		7693-D699**	D/	
1999-98, Intrigue	OR	7693-D699**	D/	
2000, Silhouette		7693-D699**	D/	
1999-97, Silhouette	OR	7693-D699**	D/	

PONTIAC

2000, Grand Prix		7693-D699**	D/	
1999-97, Grand Prix	OR	7693-D699**	D/	
2000, Montana		7693-D699**	D/	
1999, Montana	OR	7693-D699**	D/	
1998-97, Transport	OR	7693-D699**	D/	

PORSCHE (See Comments)

1991-89, 911 Carrera	OR		/D	7692-D483** (Note #9)
----------------------	----	--	----	--------------------------

SAAB

1999-98, 9-5		7605-D800**	D/D	7686-D811** (Notes #3 & #13)
--------------	--	-------------	-----	---------------------------------

TOYOTA

2000, Celica		7691-D817**	D/	
		(Notes #8 & #19)		
1999, Tundra		7687-D812**	D/	
		(Notes #4 & #14)		

VOLKSWAGEN (See Comments)

1999-98, Eurovan			/D	7685-D808** (Note #2)
------------------	--	--	----	--------------------------

EMERGENCY & PARKING BRAKE

<u>FORD</u>	<u>DD</u>	<u>SIZE</u>	<u>PCS</u>	<u>SIZE</u>	<u>LOCATION</u>
1999-96, Crown Victoria (DIH)	184 (7.24)	30.0 x 2.8 x 206.0 (1.18 x .110 x 8.11)	4	1484 (S745) (Note #21)	Internal
<u>LINCOLN</u>					
1999-97, Town Car (DIH)	184 (7.24)	30.0 x 2.8 x 206.0 (1.18 x .110 x 8.11)	4	1484 (S745)	Internal
<u>MERCURY</u>					
1999-96, Grand Marquis (DIH)	184 (7.24)	30.0 x 2.8 x 206.0 (1.18 x .110 x 8.11)	4	1484 (S745)	Internal

COMMENTSExisting lining with new shoe:

<u>Lining</u>	<u>Assembly</u>	<u>Application</u>
1400	1400-S746	1999-98 Hyundai Sonata Rear
1484	1484-S745	1999 Ford Crown Victoria DIH Parking Brake
		1999 Mercury Grand Marquis DIH Parking Brake

COMMENTS (cont'd)**Existing lining with new shoe:**

<u>Lining</u>	<u>Assembly</u>	<u>Application</u>
7318	7318-D815	2000 Nissan Maxima Front
7387	7387-D814	2000 Chevrolet Impala, Monte Carlo Rear

Existing shoe with new lining:

<u>Shoe</u>	<u>Assembly</u>	<u>Application</u>
D413	7689-D413	1996-89 Chevrolet Corvette Rear
D483	7692-D483	1991-89 Porsche 911 Carrera Rear
D699	7693-D699	1999 GM - various vehicles Front
D808	7685-D808	1999-98 Volkswagen Eurovan Rear

CORRECTIONS

Bulletin 1-991 listed 1999 Chev Tracker Rear as 1511-S743. These assignments have been canceled. The correct listing is 1506-S738. 1996-88 Chevrolet Corvette Rear brake was listed as FMSI 7301-D413. The correct listing is FMSI 7689-D413.

DISC BRAKE LINING ASSIGNMENTS

Note #1 7684 (D810) Ferrari	<u>FMSI 7684</u>	7684-D810		
	51.7 17.3	129.0	4	Integrally
	(2.04 .681	5.08)		Molded
Note #2 7685 (D808) Volkswagen	<u>FMSI 7685</u>	7685-D808		
	41.1 15.3	90.2	4	Integrally
	(1.62 .602	3.55)		Molded
Note #3 7686 (D811) Saab	<u>FMSI 7686</u>	7686-D811		
	40.4 14.2	59.4	4	Integrally
	(1.59 .559	2.34)		Molded
Note #4 7687 (D812) Toyota	<u>FMSI 7687</u>	7687-D812		
	57.8 16.9	117.9	4	Integrally
	(2.28 .665	4.64)		Molded
Note #5 7688 (D813) Hyundai	<u>FMSI 7688</u>	7688-D813		
	34.8 14.9	81.3	4	Integrally
	(1.37 .587	3.20)		Molded

DISC BRAKE LINING ASSIGNMENTS (cont'd)

Note #6	<u>FMSI 7689</u>		7689-D413			
7689	35.0	11.9	94.5	2	Integrally	
	34.0	12.2	108.0	2	Molded	
	(1.38	.469	3.72)			
	(1.34	.480	4.25)			
(D413)						
Chevrolet						
Note #7	<u>FMSI 7690</u>		7690-D816			
7690	46.0	18.1	107.7	4	Integrally	
	(1.81	.713	4.24)		Molded	
(D816)						
Ford						
Note #8	<u>FMSI 7691</u>		7691-D817			
7691	52.6	17.4	83.1	4	Integrally	
	(2.07	.685	3.27)		Molded	
(D817)						
Toyota						
Note #9	<u>FMSI 7692</u>		7692-D483			
7692	47.2	13.8	61.0	4	Integrally	
	(1.86	.516	2.40)		Molded	
(D483)						
Porsche						
Note #10	<u>FMSI 7693</u>		7693-D699			
7693	47.0	17.0	97.3	4	Integrally	
	(1.85	.670	3.83)		Molded	
(D699)						
Buick	Cadillac	Chevrolet				
Oldsmobile	Pontiac					

DRUM BRAKE LINING ASSIGNMENTS

Note #11		<u>FMSI 1512</u>		1512-S744		
1512	254	44.7	4.4	243.3	4	Bonded
	(10.0	1.76	.173	9.58)		
(S744)						
Honda						

DISC BRAKE SHOE ASSIGNMENTS

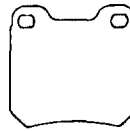
Note #12 SHOE D810 7684	<u>FMS D810</u>	
	131.6	Plate 5.2
	(5.18)	(.205)
	Composite shim 0.7 (.028) thick on all	



Ferrari

Note #13 FMS D811

59.6 Plate 4.1
 SHOE D811 (2.35) (.161)
 7686

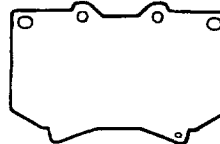


Saab

Metal composite insulator 0.9 (.035) thick, wraps around
 ends of shoe to give effective length of 61.5 (2.42)

Note #14 FMS D812

119.6 Plate 5.6
 SHOE D812 (4.71) (.220)
 7687



Toyota

Lugs are on friction side

All shoes have lug with sensor staked-on, two as shown, two mirror image

Note #15 FMS D813

98.8 Plate 5.1
 SHOE D813-I (3.89) (.201)
 7688



- Inner

Hyundai

Sensors staked-on (LH,RH)

Metal shim 0.4 (.016) thick

Metal composite shim 0.7 (.028) thick

FMS D813

98.8 Plate 5.1
 SHOE D813-O (3.89) (.201)
 7688



- Outer

Hyundai

Metal composite shim 0.7 (.028) thick

Note #16 FMS D814

107.8 Plate 5.0
 SHOE D814 (4.24) (.197)
 7387



Chevrolet

Sensors staked-on two shoes (LH,RH)

Insulators on all, metal composite 0.9 (.035) thick

Note #17 FMS D815

137.2 Plate 6.1
 SHOE D815 (5.40) (.240)
 7318



Nissan

Lugs on all shoes

Sensors on all shoes (2LH, 2RH)

DISC BRAKE SHOE ASSIGNMENTS (cont'd)**Note #18** FMS D816178.1 Plate 6.1
SHOE D816-I (7.01) (.240)

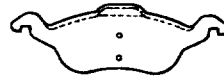
- Inner

7690

Metal composite shim 0.8 (.031) thick

Ford

Piston clip staked-on, 49.5 (1.95) free diameter

FMS D816178.1 Plate 6.1
SHOE D816-O (7.01) (.240)

- Outer

7690

Metal composite shim 0.8 (.031) thick

Ford

Anti-rattle clip staked-on

Note #19 FMS D817117.6 Plate 6.1
SHOE D817 (4.63) (.240)

Toyota

DRUM BRAKE SHOE ASSIGNMENTS**Note #20** FMS S744254 x 45 Web 4.0
SHOE S744 (10 x 1.77) (.157)

Honda

1512

Two shoes have pin in small hole

Note #21 FMS S745184.0 x 30.0
SHOE S745 (7.24 x 1.18)

Ford, Mercury

1484

DIH Parking Brake

Note #22 FMS S746228.6 x 43.0 Web 3.9
SHOE S746 (9.00 x 1.69) (.154)

Hyundai

1400

Forward shoes have split sleeve as shown

Reverse shoes have lever (LH,RH) riveted in hole at toe

The data shown this bulletin has been supplied by sources considered to be reliable. While we believe that such information is correct, the Institute cannot and does not accept any responsibility or liability for errors or omissions, or harm resulting therefrom. The data shown in this bulletin indicates dimensions only and in no way refers to quality of any materials that may be embodied in the product or particular application involved, and moreover, SINCE FIELD CONDITIONS AND OTHER FACTS MAY NECESSARILY VARY FROM ONE APPLICATION TO ANOTHER, FRICTION MATERIALS SUPPLIERS AND INSTALLERS SHOULD RELY ULTIMATELY AND SOLELY UPON THEIR OWN EXPERTISE AND JUDGMENT AS TO QUALITY AND DIMENSIONAL SIZE. Under no circumstances should replacement items be used when they do not appear to fit, nor be "forced" to fit, nor be modified in the field instead of obtaining a proper sized item from a supplier. If such items are modified in the field to fit, the Institute specifically disclaims all liability and responsibility for any harm resulting therefrom. If any error or omission is noted in this bulletin, it should be reported immediately to the Friction Materials Standards Institute Inc, 588 Monroe Turnpike, Monroe, CT 06468.