FORM 135
05/16/02

TEST VEHICLE INFORMATION/TEST SPECIFICATIONS
FMVSS 135

NHTSA TEST VEHICLE: _____
MY: _____

Manufacturer recommended brake adjustment performed after 200 stop burnish:

( ) Making Stops, Define: _____

_____

BRAKE SYSTEM INDICATOR LAMP LABELING, OPERATION, & IGNITION KEY CHECK:

( ) Single Lamp ( ) Multiple Lamps

Condition(s) indicated: ( ) Pressure differential OR ( ) drop in fluid level

Lamp On At: Pressure _____ psi, Pedal Force _____ lbs.

OR Low Fluid: Reservoir Full _____ cc, Lamp On At _____ cc

Manuf. recommended safe level of reservoir____ cc

Electrical Failure: ( ) Antilock, ( ) Variable Proportioning

Parking Brake On: ( ) Ignition Key Check -- all Lamps ( ) Yes ( ) No

Electrically actuated service brakes: Failure of power source ( ) Yes ( ) No

Electric Transmission of service brake control signal: ( ) Yes ( ) No

EV with RBS, failure of RBS: ( )Yes ( ) No

POWER BRAKES:	( ) Not Available ( ) Power Assist	( ) Vacuum ( ) Brake Power	( ) Hydraulic; ( ) Accumulator

	Unit ( ) Electrically actuated	Unit ( ) Electrical Backup
MASTER CYLINDER DIAMETER:		Primary _____ in., _____ mm Secondary _____ in., _____ mm
SERVICE BRAKE PEDAL RATIO:		_____ to 1
PARKING BRAKE:	( ) Front Wheels, ( ) Rear Wheels,	( ) Drive Shaft Brake ( ) Service Brake Linings, ( ) Non-service Brake Linings

NOTE: For non-service brake linings, submit a copy of the burnish instructions provided to vehicle owners

( ) Hand Control, ( ) Foot Control, Ratio _____ to 1

Parking Mechanism ( ) Yes, ( ) No, Describe _____

PRESSURE VALVE:	( ) Metering, ____ psi, ____ bar, Reblend ____ psi, ____ bar ( ) Proportioning, ____ psi, ____ bar, Ratio _____ to 1 ( ) Variable Proportioning - ( ) Mechanical, ( ) Electrical

NOTE: For either, submit procedure to render inoperative:_____

_____

HYDRAULIC SPLIT:	( ) Diagonal ( ) Front/Rear ( ) Other
ANTISKID SYSTEM:	( ) Not Available, ( ) 4-wheels, ( ) Rears Only, ( ) Other Manufacturer _____

NOTE: Submit procedure for rendering inoperative_____

_____

MASTER CYLINDER RESERVOIR:

Reservoir Capacity_____

Fluid displaced new to worn linings_____

Subsystem 1 capacity _____

Subsystem 2 capacity_____

Primary system fluid output for single stroke of master cylinder_____

Secondary system fluid output for single stroke of master cylinder_____

FRONT BRAKES

TYPE:	( ) Drum, ( ) Cast ( ) Composite ( ) Finned	Brake Type ( ) Duo Servo ( ) Leading/Trailing ( ) Leading/Leading	( ) Disc, ( ) Cast ( ) Multipiece ( ) Vented	Brake Type ( ) Fixed Caliper ( ) Float Caliper ( ) Pin, ( ) Slider

SIZE: Drum Diameter _____ in., _____ mm; Disc Diameter _____ in., _____ mm
Thickness _____ in., _____ mm

Non-service Parking Brake Type & Size
_____

LINING SIZE:

Drum - Length _____ in., _____ mm; Disc - Length _____ in., _____ mm

Primary - Width _____ in., _____ mm; Inboard - Width _____ in., _____ mm

Thickness _____ in., _____ mm; Thickness _____ in., _____ mm

Fully Worn Thickness _____ in., _____ mm; Fully Worn Thickness _____ in., _____ mm

Drum - Length _____ in., _____ mm; Disc - Length _____ in., _____ mm

Secondary - Width _____ in., _____ mm; Outboard - Width _____ in., _____ mm

Thickness _____ in., _____ mm; Thickness _____ in., _____ mm

Fully Worn Thickness in., mm; Fully Worn Thickness in., mm

LINING INSTALLED DIMENSIONS (Nominal Production Values):

Drum-Shoe Cage Diameter _____ in., _____ mm;
Diametral Clearance = Drum Diameter - Shoe Cage _____ in., _____ mm;
Non-service Parking Brake _____

Disc-Clearance To Lining
Inboard _____ in., _____ mm
Outboard _____ in., _____ mm

LINING CODES:

Drum-Primary _____ ; Secondary _____ ;

Disc-Inboard _____ or leading
Outboard _____ or trailing

LINING ATTACHMENT

	BONDED	**RIVETED**		**BONDED**	**RIVETED**
Drum-Primary or Leading	( )	( )	Disc-Inboard	( )	( )
Secondary or Trailing	( )	( )	Outboard	( )	( )

WHEEL CYLINDER DIAMETER: _____ in., _____ mm

CALIPER BORE DIAMETER: _____ in., _____ mm

NUMBER PER BRAKE _____ Number Per Caliper _____

Calipers Per Wheel _____

REAR BRAKES

TYPE:	( ) Drum, ( ) Cast ( ) Composite ( ) Finned	Brake Type ( ) Duo Servo ( ) Leading/Trailing ( ) Leading/Leading	( ) Disc, ( ) Cast ( ) Multipiece ( ) Vented	Brake Type ( ) Fixed Caliper ( ) Float Caliper ( ) Pin, ( ) Slider

SIZE: Drum Diameter _____ in., _____ mm; Disc Diameter _____ in., _____ mm
Thickness _____ in., _____ mm

Non-service Parking Brake Type & Size
_____

LINING SIZE:

Drum - Length _____ in., _____ mm; Disc - Length _____ in., _____ mm

Primary - Width _____ in., _____ mm; Inboard - Width _____ in., _____ mm

Thickness _____ in., _____ mm; Thickness _____ in., _____ mm

Fully Worn Thickness _____ in., _____ mm; Fully Worn Thickness _____ in., _____ mm

Drum - Length _____ in., _____ mm; Disc - Length _____ in., _____ mm

Secondary - Width _____ in., _____ mm; Outboard - Width _____ in., _____ mm

Thickness _____ in., _____ mm; Thickness _____ in., _____ mm

Fully Worn Thickness _____ in., _____ mm; Fully Worn Thickness _____ in., _____ mm

LINING INSTALLED DIMENSIONS (Nominal Production Values):

Drum-Shoe Cage Diameter _____ in., _____ mm;
Diametral Clearance = Drum Diameter - Shoe Cage
_____ in., _____ mm;
Non-service Parking Brake
_____

Disc-Clearance To Lining
Inboard _____ in.,
_____ mm
Outboard _____ in.,
_____ mm

LINING CODES:

Drum-Primary _____ ;
Secondary _____ ;

Disc-Inboard _____ or
leading
Outboard _____ or trailing

LINING ATTACHMENT

	BONDED	**RIVETED**		**BONDED**	**RIVETED**
Drum-Primary or Leading	( )	( )	Disc-Inboard	( )	( )
Secondary or Trailing	( )	( )	Outboard	( )	( )

WHEEL CYLINDER DIAMETER: _____ in., _____ mm

CALIPER BORE DIAMETER: _____ in., _____ mm

NUMBER PER BRAKE _____ Number Per Caliper _____

Calipers Per Wheel _____

FMVSS 135 DATA SUMMARY
PASSENGER CAR EQUIPPED WITH ABS
(SELECTED MANUFACTURER TEST RESULTS)
Use table below or similar to provide results

MY __ ; Make _____ ; Model _____
GVWR/LLVW _____ lbs.

TEST	Loading Condition	Specification and Limit				TEST RESULTS (In compliance if one stop meets requirement)		
		Speed (km/h)	Min. Pedal Force (N)	Max. Pedal Force (N)	Stopping Distance Requirement (m)	Shortest Stop Minimum Pedal Force (N)	Shortest Stop Maximum Pedal Force (N)	Shortest Stop Stopping Distance (m)
Vehicle Maximum Speed	LLVW					-		
Cold Effectiveness	GVWR	100	65	500	70 m			
High Speed Effectiveness	GVWR		65	500	speed dependant			
Stops with Engine Off	GVWR	100	65	500	70 m			
Cold Effectiveness	LLVW	100	65	500	70			
High Speed Effectiveness	LLVW		65	500	speed dependant			
Failed Antilock	LLVW	100	65	500	85			
Failed Proportioning Valve	LLVW	100	65	500	110			
Failed Hydraulic Circuit #1	LLVW	100	65	500	168			
Failed Hydraulic Circuit #2	LLVW	100	65	500	168			
Failed	GVWR	100	65	500	168			

Hydraulic Circuit #1								
Failed Hydraulic Circuit #2	GVWR	100	65	500	168			
Failed Antilock	GVWR	100	65	500	85			
Failed Proportioning Valve	GVWR	100	65	500	110			
Signal Transmitted Electrically, RBS, Electrically Actuated Brakes								
Power Brake Unit Failure	GVWR	100	65	500	168			
Depleted EV batteries								
Parking Brake - Uphill	GVWR	B	B	B	B			
Parking Brake - Downhill	GVWR	B	B	B	B			
Hot Performance Stop #1	GVWR	100	65					
Hot Performance Stop #2	GVWR	100	65	500	89			
Recovery Performance Stop	GVWR	100	65					