



INSTRUCTIONS

Product: GEM Electric Motorcars

Models: All

Subject: Instructions for installing Brake Pedal Bracket Spacer

Effected V.I.N. Range: 017000 Thru. 017490

Estimated Completion Time: .50 Hour

Associated Documents: 1010-00056

Parts: See Page # 5

REQUIRED TOOLS & SUPPLIES:

- | | |
|--------------------------------|---------------------------------|
| (1) Ratchet | (1) 1/2" Open End Wrench |
| (1) 3/8" Socket | (1) Flashlight or Trouble Light |
| (1) 1/2" Socket | (1) Hydraulic Jack |
| (1) 7/16" Socket | (2) Jack-Stands |
| (1) Med. Phillips Screw-driver | |
| (1) Torque Wrench | |

WARNING!

To prevent personal injury or property damage: Switch the 72-volt Master Disconnect to "OFF", be sure the ignition switch is always in the "OFF" position and that the "KEY" is removed. Set the parking brake before servicing, adjusting, or repairing.

WARNING!

HIGH VOLTAGE



You could be seriously or fatally injured by electric shock if you attempt to open, repair, test, inspect or adjust. Only qualified technicians should open and service. Consult service manual.

The following instructions are for determining the possible need for the brake pedal bracket spacers, and installing to all models of GEM cars.

To determine and or install the spacers, proceed as follows.

1. Remove bench seat cushion (rear bench seat cushion for 4 passenger vehicles) to access the Master Disconnect switch. Switch master disconnect off. (See Fig. # 1.

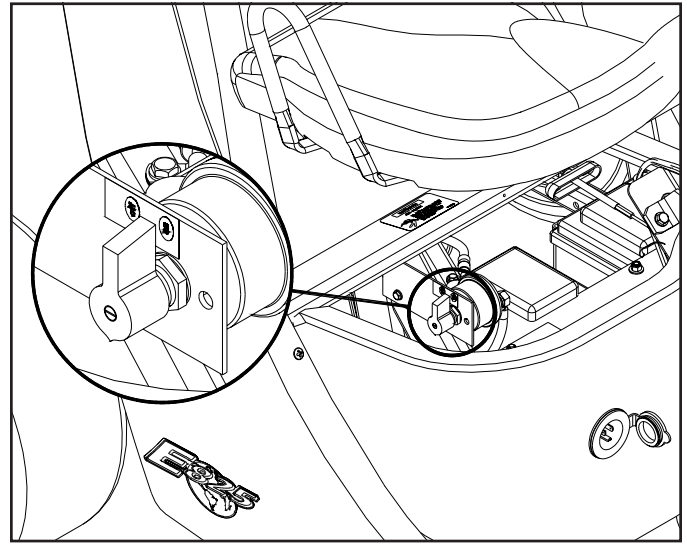


Fig. # 1 Switch master disconnect off

IMPORTANT

Before completing any service work: Decide if the vehicle falls within the V.I.N. Range. If the vehicle "does not" fall within the V.I.N. range (See **INSPECTION**:, Step "A"). If the vehicle "does" fall within the V.I.N. range, inspect the following:

INSPECTION:

- A. Raise vehicle by jacking at points shown in (Fig. # 2). Check front and rear wheel rotation for drag. Spin front and rear wheel(s), pump brake pedal 3 to 4 times, spin front and rear wheel(s) (Should rotate freely). Drag is anything less than 2 revolutions. If wheels are dragging, proceed with spacer installation. If only rear wheels are dragging, complete instructions P/N 1010-00056. If no wheels are dragging, there is no need to continue, and service work is complete.

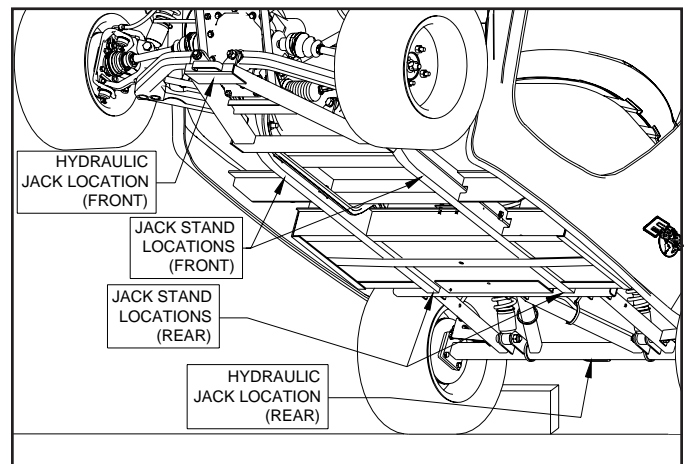


Fig. # 2 Jack points

INSPECTION CONTD:

- B.** Inspect the movement of the brake pedal, (See Fig. # 3). If the brake pedal has only 1/8" to 1/4" movement, then this means the arm of the brake pedal is hitting the brake pedal bracket which prevents the retraction of the master cylinder push rod. (See Fig. # 4)

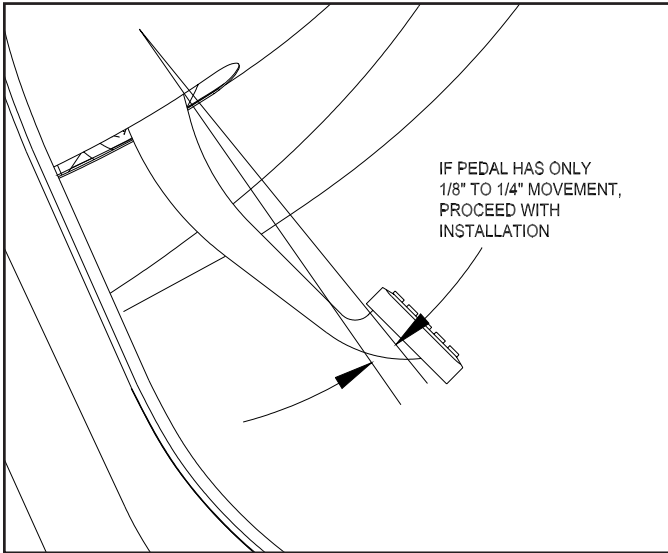


Fig. # 3 Check brake pedal for play

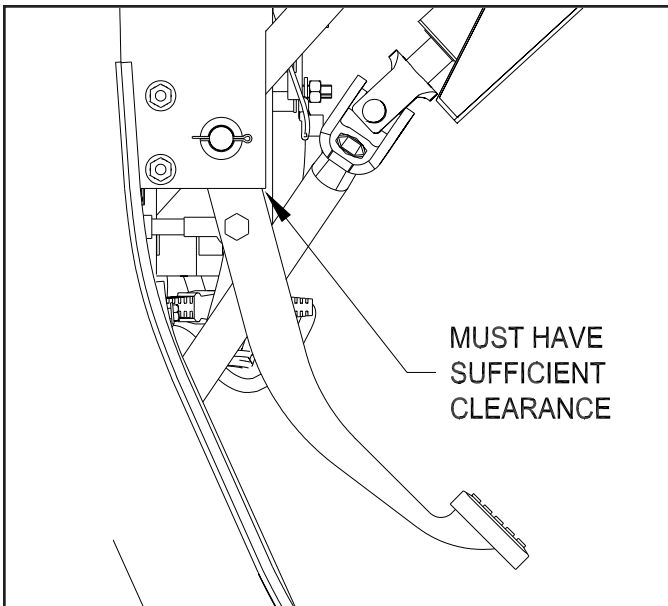


Fig. # 4 Brake pedal clearance

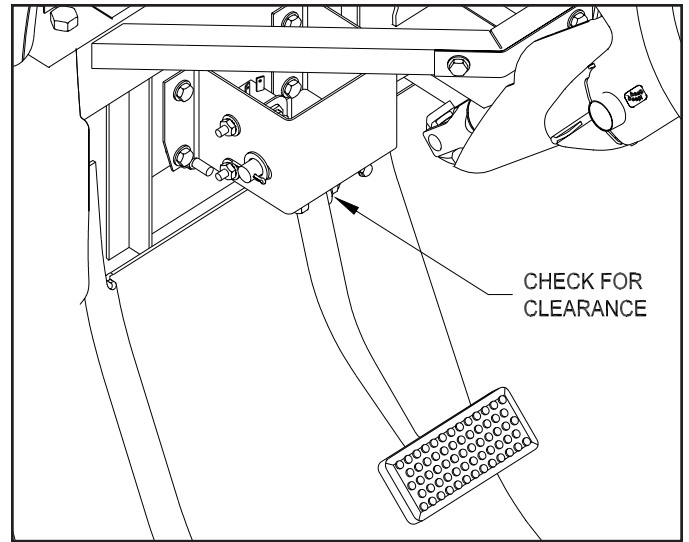


Fig. # 5 Brake pedal clearance

- C.** Further inspection can be done by lifting the upper dash and checking visually. If the brake pedal arm is hitting the brake pedal bracket, then proceed with installation. (See Fig. # 5)

SERVICE PROCEDURE:

OPENING THE HOOD

1. Remove the Qty. two (2) 1" Dia. Hood Knobs securing the hood. (See Fig # 6).

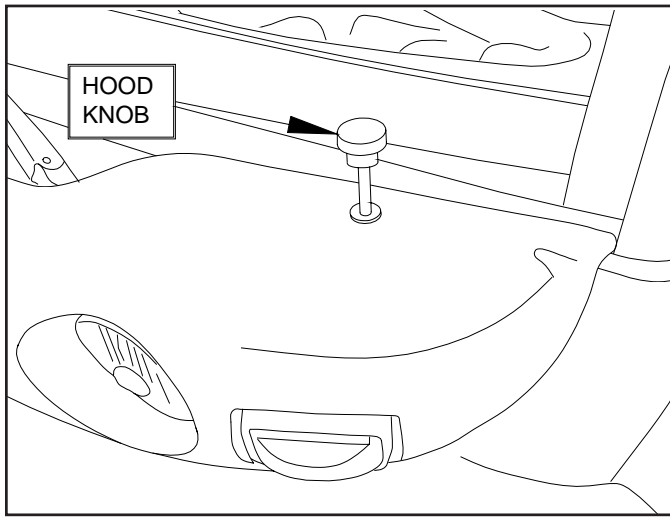


Fig. # 6 Loosen and remove hood knobs

2. Newer models only require for the latch to be unclasp. (See Fig # 7).

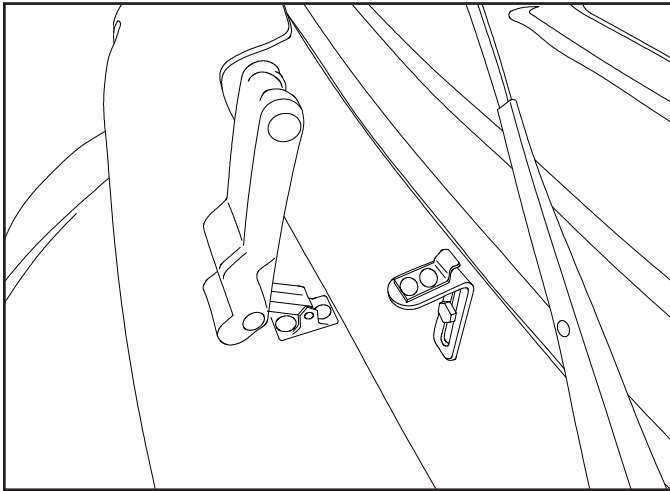


Fig. # 7 unclasp latch

3. Open the hood.

REMOVING THE DASH

1. Loosen the Qty. two (2) dash mount bolts securing the upper dash located on the front of the lower windshield support. (See Fig. # 8)

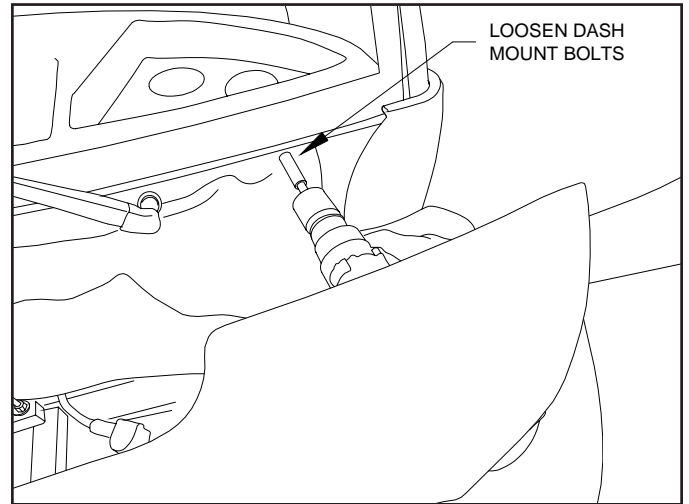


Fig. # 8 Loosen dash mount bolts

2. Remove upper dash.
3. Remove Qty. three (3) lower dash mounting bolts. (See Fig. # 9)

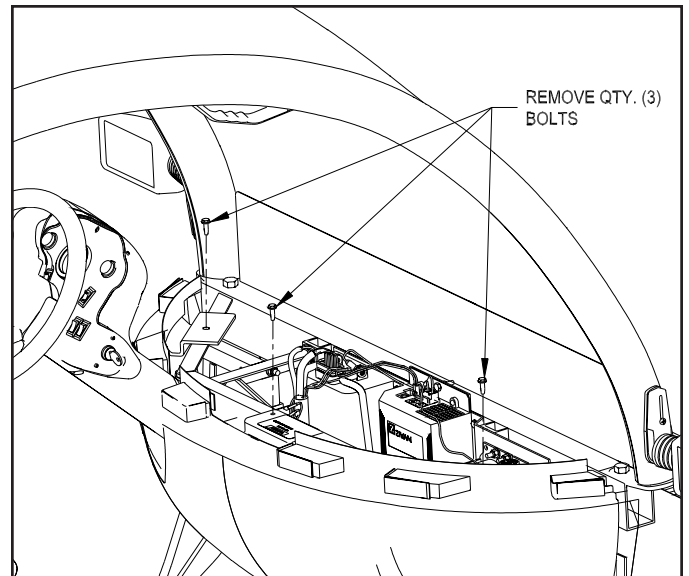


Fig. # 9 Remove lower dash mount bolts

4. Remove lower dash.

INSTALLING SPACERS

1. Loosen the Qty. four (4) brake pedal bracket bolts enough to allow installation of the spacers. (See Fig. # 10)

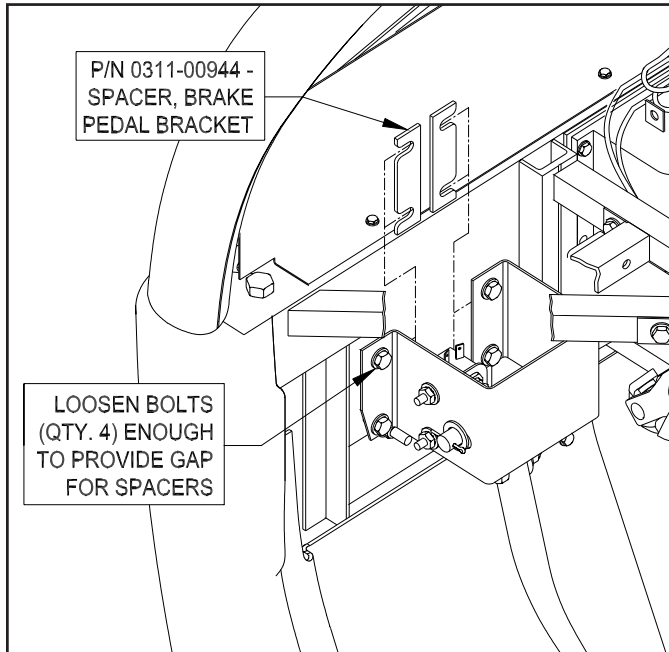


Fig. # 10 Install spacers

2. Slip spacers behind the brake pedal bracket as shown in (Fig. # 10).
3. Torque bolts to 225 inch-pounds.
4. Repeat **INSPECTION** step "A" on page # 1 of these instructions.

ADJUSTING BRAKE LIGHT SWITCH

1. Loosen the (Qty. 2) two bolts on the side brake pedal bracket with a 7/16" socket. (See Fig. # 11)

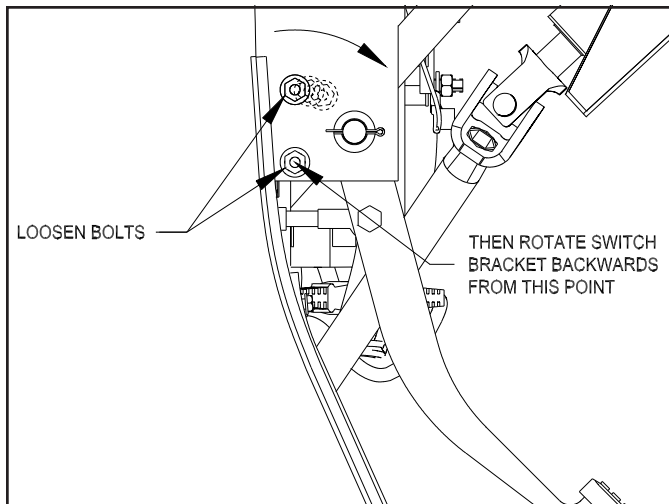


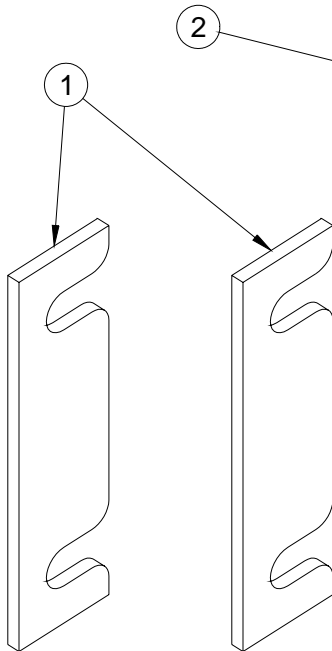
Fig. # 11 Adjusting brake switch


2. Slightly rotate top 7/16" bolt backwards until brake light stays off when brake pedal is retracted.
3. Tighten 5/16" bolts to specified torque.

RE-ASSEMBLY

1. Install lower and upper dash in the reverse dis-assembly procedure.
2. Close hood.
3. Turn master disconnect switch to the "ON" position.
4. Service work complete.

PARTS





Global Electric Motorcars, LLC
A DaimlerChrysler Company

1. Remove bench seat cushion (rear bench seat cushion for 4 passenger vehicles) to access the Master Disconnect switch. Switch master disconnect off. (See Fig. # 1.)

INSTRUCTIONS

Product: GEM Electric Motorcars
Models: All
Subject: Instructions for installing Brake Pedal Bracket Spacer
Effectuated V.I.N. Range: 017490 & Lower
Effectuated Mfg. Date Range: 12/17/01 & Earlier
Estimated Completion Time: .50 Hour
Associated Documents: 1010-00056
Parts: See Page # 5

REQUIRED TOOLS & SUPPLIES:

(1) Ratchet	(1) 1/2" Open End Wrench
(1) 3/8" Socket	(1) Flashlight or Trouble Light
(1) 1/2" Socket	(1) Hydraulic Jack
(1) 7/16" Socket	(2) Jack-Stands
(1) Med. Phillips Screw-driver	
(1) Torque Wrench	

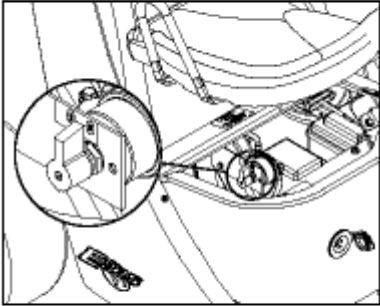


Fig. # 1 Switch master disconnect off

IMPORTANT

Before completing any service work: Decide if the vehicle falls within the V.I.N. Range. If the vehicle "does not" fall within the V.I.N. range (See **INSPECTION**, Step "A"). If the vehicle "does" fall within the V.I.N. range, inspect the

0111-00715 - ASSY, SERVICE KIT - HYDRAULIC BRAKE SPACERS

ITEM	PART NO.	DESCRIPTION	QTY.
1	0311-00944	SPACER, BRAKE PEDAL BRACKET	2
2	1010-00058	INSTRUCTION, BRAKE PEDAL BRACKET SPACER INSTALLATION	1

COMPLETION REPORTING AND REIMBURSEMENT

Claims for vehicles which have been serviced must be filed in the warranty claims section of GEM Connect for reimbursement.

<u>LABOR DESCRIPTION</u>	<u>LABOR OPERATION NUMBER</u>	<u>TIME ALLOWANCE</u>
Inspection for possible need for, and Installation of the Brake Pedal Spacers	BRK-01-050	.50 Hours

ADDITIONAL INFORMATION

If you have any questions or need assistance in completing this action, please contact GEM Technical Support at 866.764.0616

Remember to record the last six digits of your Vehicle Identification Number (V.I.N.) in the space provided below before calling. Use (Fig. # 12 & 13) to locate the V.I.N. plate. Also the V.I.N. will be used when claiming warranty on GEM Connect.

V.I.N. _____

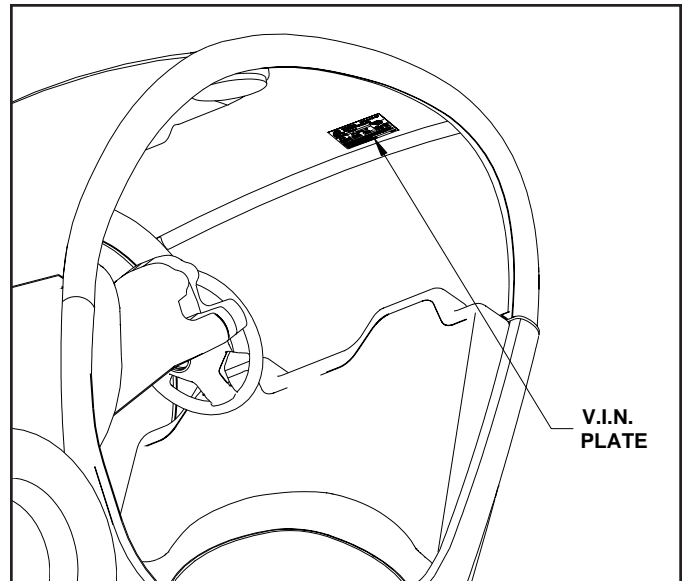


Fig. # 12 V.I.N. plate location


		MANUFACTURED BY: U.S. Patent No. Des. 419,107 Global Electric Motorcars, LLC.	
<small>Web: www.gemcar.com</small>		<small>DATE OF MFG: 1/15/01</small>	
<small>GWR: 953KG (2,100 LBS.)</small>		COLD INFLATION PRESSURE	
GAWR <small>Front 468KG (1,023 LBS)</small> <small>Rear 468KG (1,077 LBS)</small>	TIRE - DIMENSION - RIM <small>165/70R-12 T12x4J</small> <small>165/70R-12 T12x4J</small>	<small>KPA/PSI</small> <small>207KPA (30PSI)</small> <small>207KPA (30PSI)</small>	<small>SGL/DUAL</small> <small>SINGLE</small> <small>SINGLE</small>
<small>THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR SAFETY, BUMPER, AND THEFT PREVENTION STANDARDS (FMVSS) IN EFFECT ON THE DATE OF MANUFACTURE SHOWN A</small>			
<small>V.I.N. XXXXXXXXXXXXXXX XXXX</small>		<small>U.S. VIN</small>	
<small>TYPE OF VEHICLE:</small> _____		<small>LAST SIX NUMBERS OF V.I.N.</small>	

Fig. # 13 V.I.N. use last six numbers



Global Electric Motorcars, LLC

A DaimlerChrysler Company

Toll Free: 866.764.0616
 Fax: 701.232.9528
 e-mail: service@gemcar.com
 Web Site: www.gemcar.com