



Global Electric Motorcars, LLC

A DaimlerChrysler Company

INSTRUCTIONS

Product: GEM Electric Motorcars

Models: All

Subject: Instructions, Service Kit - Controller Split Heat Sink Harness Retrofit

Effected V.I.N. Range: 003500 Thru. 021446
(72V Vehicles Only)

Service Bulletin No. SB 27A3008

Estimated Completion Time: .25 Hour

Parts: See Page # 4

REQUIRED TOOLS & SUPPLIES:

- (1) Medium Tip Screw-driver
- (1) Wire Crimper

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 installing the controller split heat sink harness retrofit to all models of GEM cars. To install the harness and jumper wire, 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).

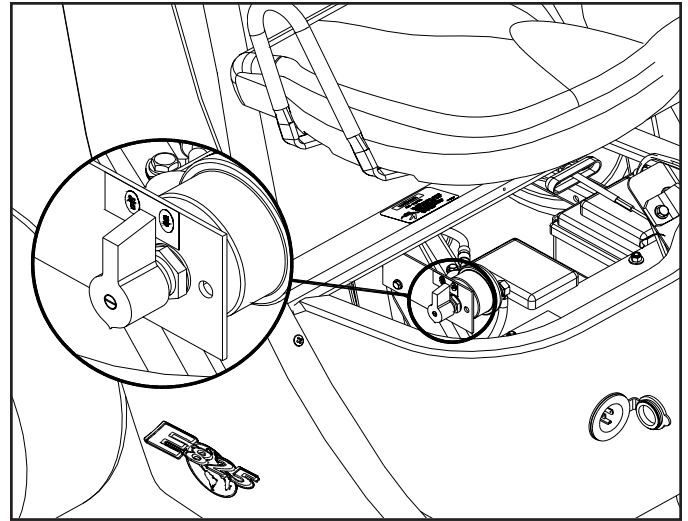


Fig. # 1 Switch master disconnect off

2. After installing a new controller, install the split heatsink jumper wire harness assy. (See Fig. # 2)

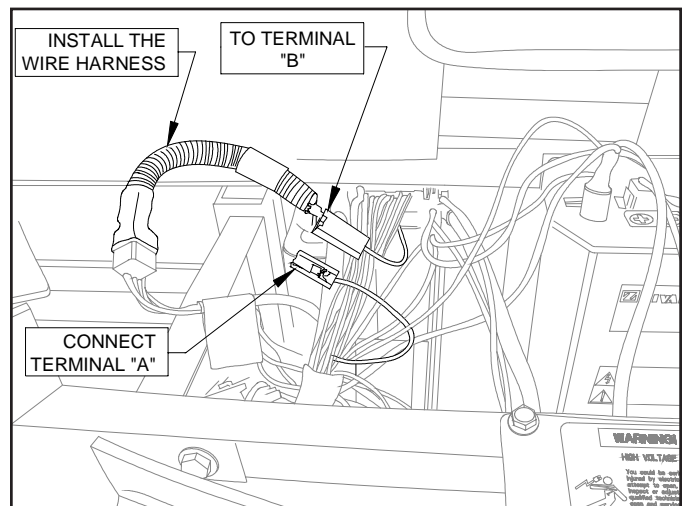


Fig. # 2 Connect wire harness and terminals

3. Connect the 8-pin end to the existing wire harness of the car, then connect the opposite 12-pin end to the controller. (See Fig. # 2)
4. Inspect for terminal "A" and "B" shown in (Fig. # 2).
5. If the connections are not connected as shown in (Fig. # 2), remove electrical tape on terminal ends and connect.

6. Installation complete. (See Fig. # 3) If the vehicle does not have the terminals "A" and "B", proceed to the next step.

Note: If terminals "A" and "B" are not connected, you may experience a -90 readout on the BDI.

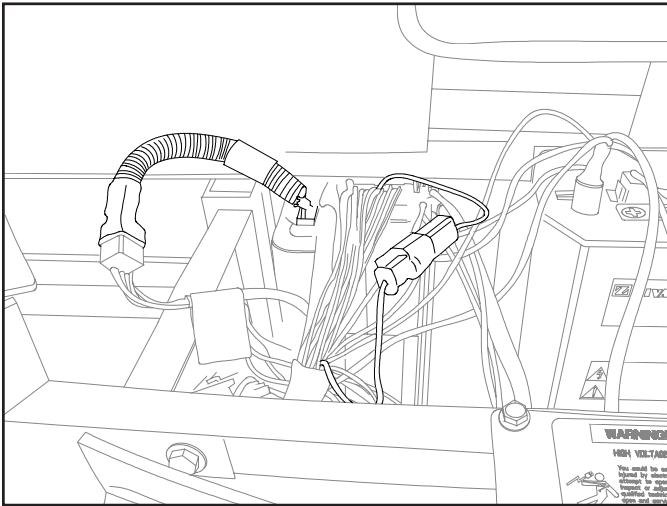


Fig. # 3 Installation complete

7. Use a medium flat tipped screwdriver to release the clip on the 23-pin connector that is connected to the controller. (See Fig. # 4)

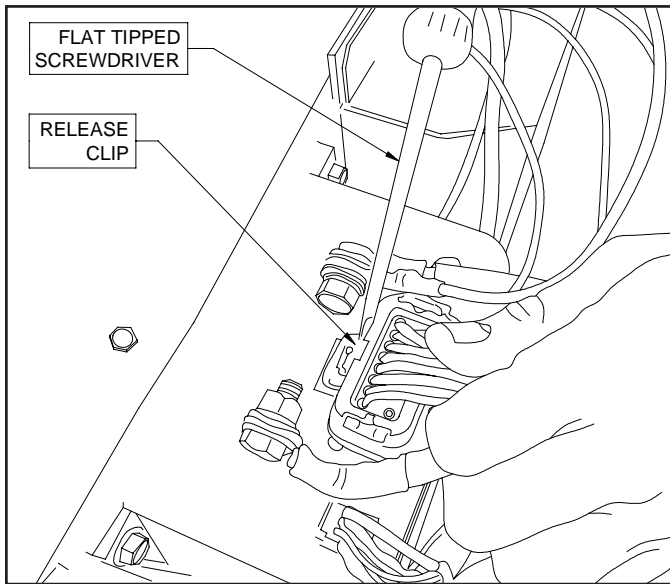


Fig. # 4 Release 23-pin connector from controller

8. Once the clip is released, remove the 23-pin connector from the controller by pulling upward.

9. Release the clips on both sides of the 23-pin connector, which will free the locking wedge. (See Fig. # 5)

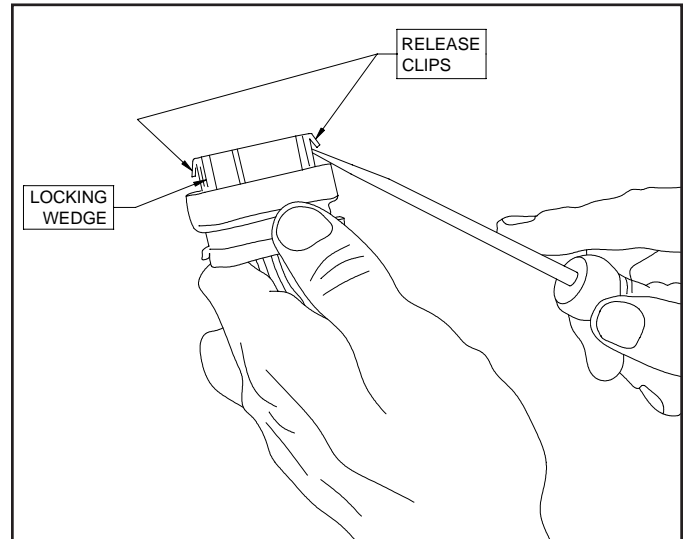


Fig. # 5 Release clips, freeing the locking wedge

10. Remove the locking wedge. (See Fig. # 6)

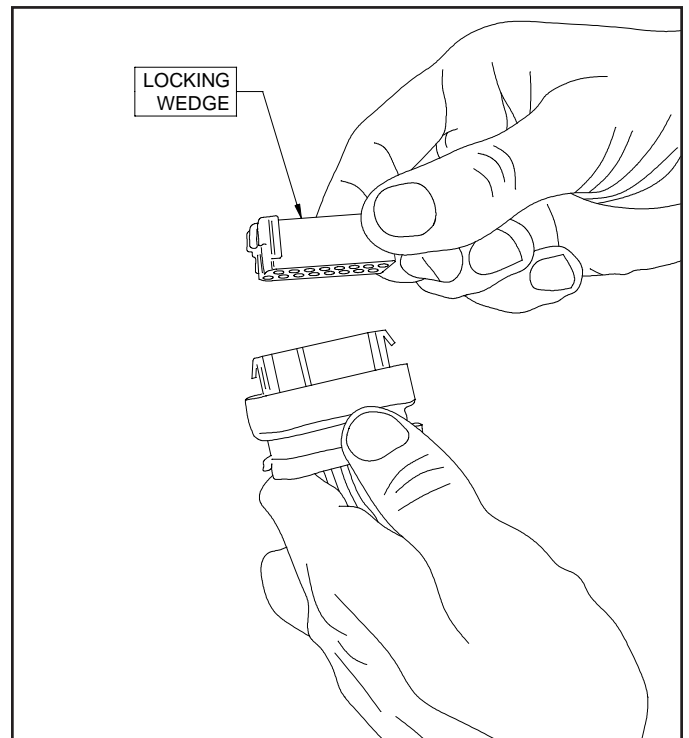


Fig. # 6 Remove the locking wedge

11. Install the female terminal end of the jumper wire to pin location # 21. (See Fig. # 7)

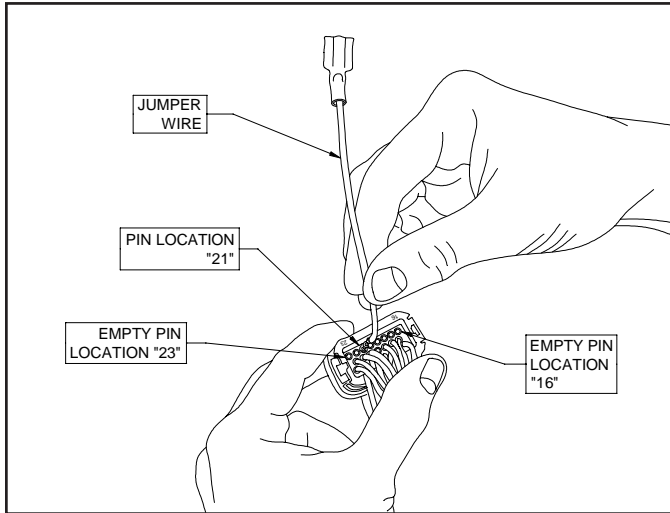


Fig. # 7 Install jumper wire

12. Connect the T-Tap to wire # 2 (Grey with white stripe) (See Fig. # 8).

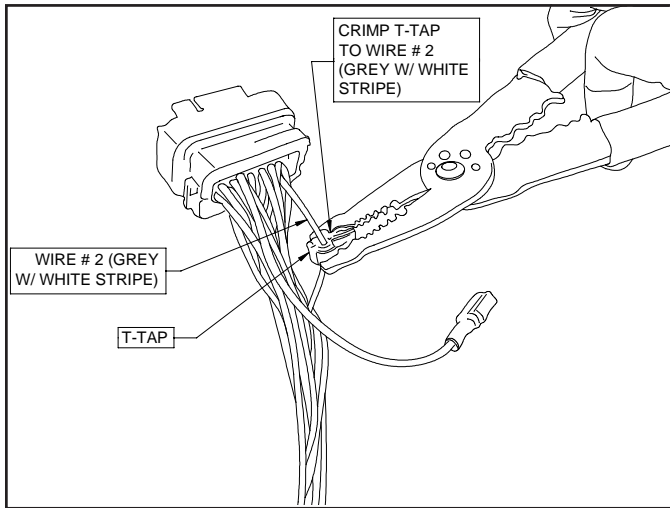


Fig. # 8 Install T-Tap

13. Connect male end of jumper wire to T-Tap. (See Fig. # 9)

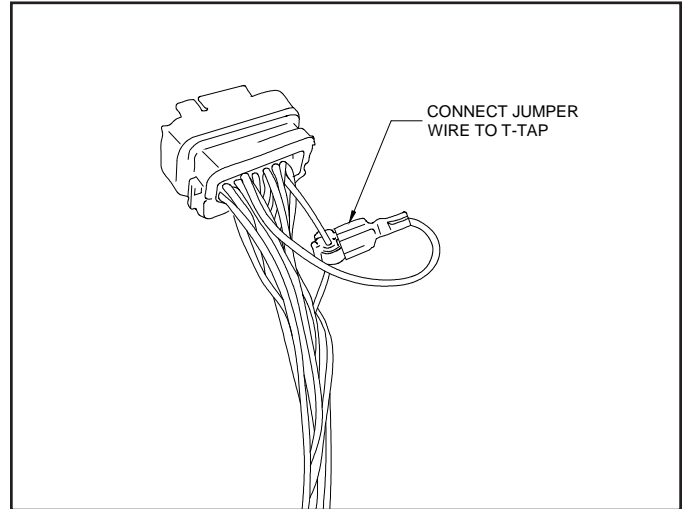
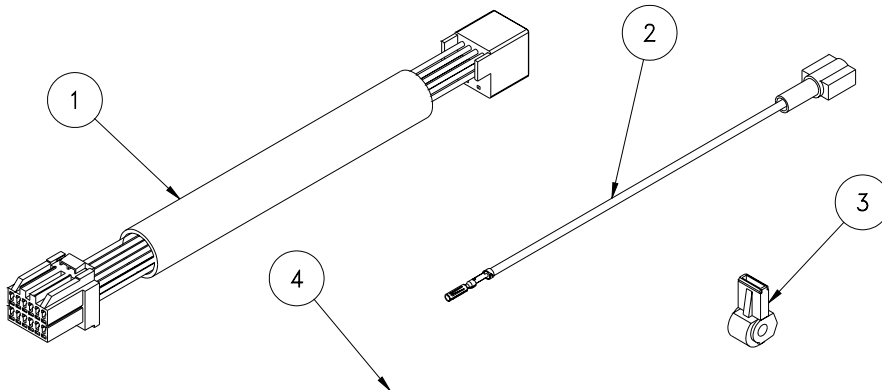



Fig. # 9 Connect jumper wire to T-tap

Note: If the jumper wire is incorrectly terminated, you may experience a -90 readout on the BDI.

14. Re-install the locking wedge making sure the terminals are inserted correctly.
15. Re-connect the 23-pin connector to the controller. Installation is complete.

PARTS

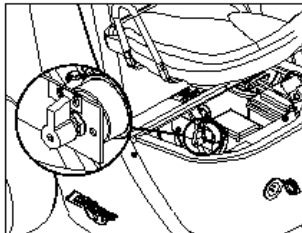




Global Electric Motors, LLC
A Fairchild Company

INSTRUCTIONS

Product: GEM Electric Motors
Models: All
Subject: Instructions, Service Kit- Controller Split Heat Sink Harness Retrofit
Estimated Completion Time: .25 Hour
Parts: See Page # X




REQUIRED TOOLS & SUPPLIES:

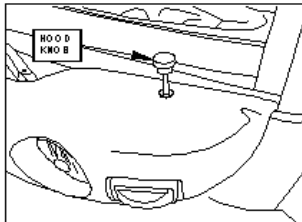
WARNING!

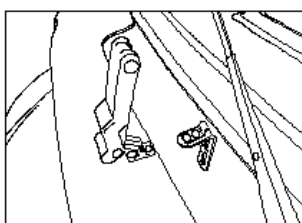
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0106-00826 ASSY, SERVICE KIT - CONTROLLER SPLIT HEAT SINK HARNESS RETROFIT

<u>ITEM</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
1	0106-00678	ASSY, WIRE HARNESS - SPLIT HEATSINK JUMPER	1
2	0106-00827	ASSY, WIRE - SPLIT HEAT SINK JUMPER	1
3	0606-00176	CONNECTOR, T - WIRE	1
4	1010-00070	INSTRUCTIONS, SERVICE KIT- CONTROLLER SPLIT HEAT SINK HARNESS RETROFIT	1

COMPLETION REPORTING AND REIMBURSEMENT

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

<u>LABOR DESCRIPTION</u>	<u>LABOR OPERATION NUMBER</u>	<u>TIME ALLOWANCE</u>
Controller split heat sink harness retrofit.	CTR-01-050	.25 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. # 10 & 11) to locate the V.I.N. plate. Also the V.I.N. will be used when claiming warranty on *GEMConnect*.

V.I.N. _____

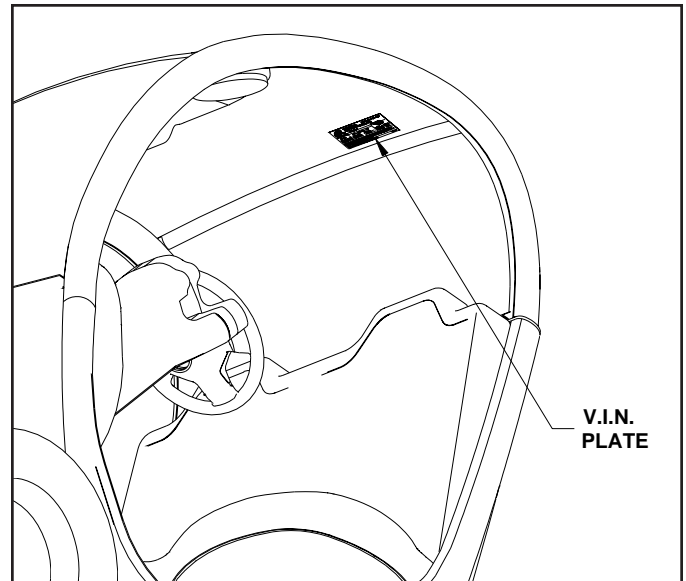



Fig. 10 V.I.N. plate location

		MANUFACTURED BY: U.S. Patent No. Des. 419,107 Global Electric Motorcars, LLC.	
Web: www.gemcar.com		DATE OF MFG: 1/15/01	
GVWR: 953KG (2,100 LBS.)		COLD INFLATION PRESSURE	
GAWR	TIRE - DIMENSION - RIM		KPA/PSI
Front 468KG (1,023 LBS)	165/70R-12	T12x4J	207KPA (30PSI)
Rear 468KG (1,077 LBS)	165/70R-12	T12x4J	207KPA (30PSI)
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		SGL/DUAL SINGLE	
V.I.N. XXXXXXXXXXXXXXX XXXX		U.S. VIN	
TYPE OF VEHICLE: _____		_____	

LAST SIX NUMBERS OF V.I.N.

Fig. # 11 V.I.N. use last six numbers



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