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SIX WAY POWER SEAT

(Non Memory and Memory)

• OPERATION

• MAINTENANCE

• ENGLISH

• EFFECTIVE SEPT. 2013

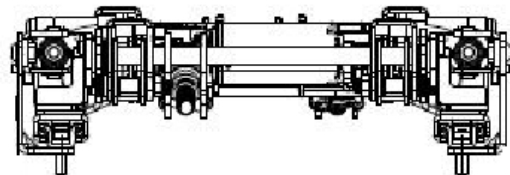
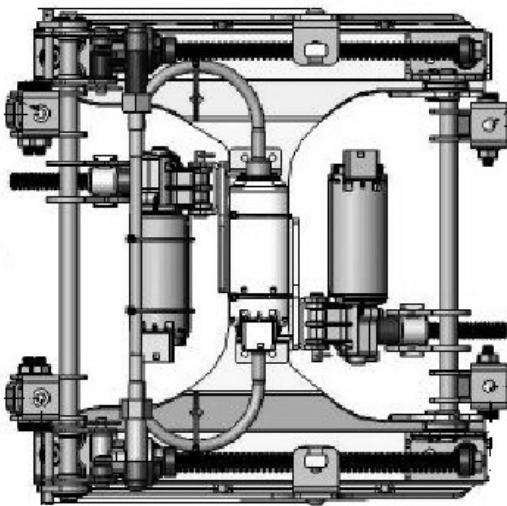
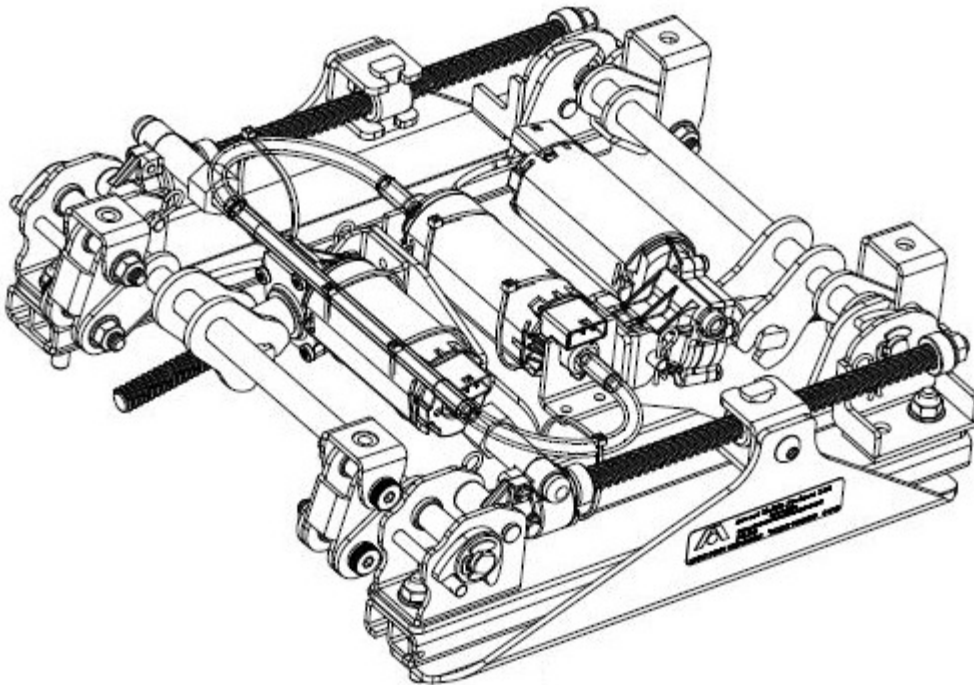


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INTRODUCTION:

Thank you for purchasing the Six Way Power Seat Adjuster. This product was designed to provide many years of worry-free service. Every attempt has been made to accurately describe the operation and maintenance of this product. Should you experience difficulty during the operation or maintenance of the product, please call our Service Department **Do not attempt to alter or modify the design of the Six Way Power Seat Adjuster.**

This manual provides step by step instructions to properly operate your Way Power Adjuster. It is important to read and follow all directions carefully. Items requiring special attention are labeled throughout as detailed below. Potential safety hazards are marked throughout this manual as shown below:

SAFETY ALERT SIGNALS

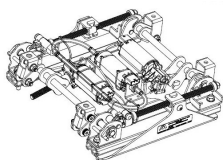
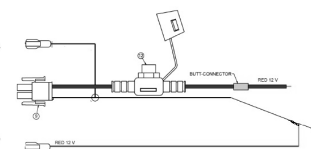
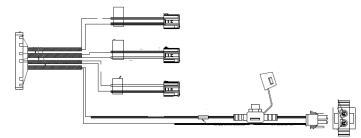
	WARNING!
• This warning alerts the customer to avoid possible serious injury or death as a result of improper installation or use.	

	CAUTION
• This safety warning alerts the customer to avoid possible injury and/or property damage as a result of improper installation or use.	

Installer: Provide these instructions to the customer

Consumer: Read and keep documents available for future reference.

KIT COMPONENTS:

	PART NUMBER	DESCRIPTION
	488235	Six Way Power Seat Adjuster
	487094	Six Way Power Control Module (used with memory unit)
	488428	Wire Harness for Switch (used with memory unit)
	488429	Wire Harness for Motor (used with memory unit.)
	488289	Wire Harness for Non Memory Unit

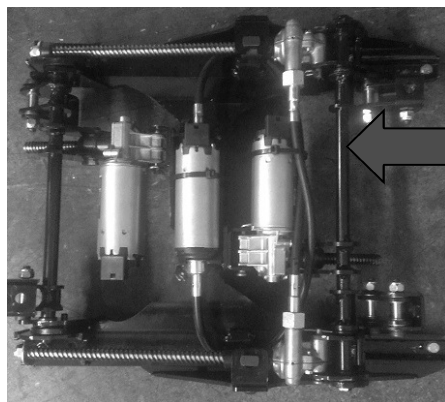
Installation:

The Six Way Power Seat Adjuster is designed for easy plug-in installation. Tools needed to complete this installation is as follows:

Screwdriver (Philips Head)

1/2" Wrench

1. To ensure the Six Way Power Seat Adjuster is installed in the right direction, ensure the gear boxes are located at the front of the seat. (See Fig. 1)



Front of the power seat adjuster.

Fig. 1

2. Align the six way pedestal holes to the seat pedestal. The seat should sit in all four pre drilled holes square. No cutting or forcing into the holes is required. Install and tighten bolts snug with a 1/2" wrench. (See Fig. 2A and 2B)

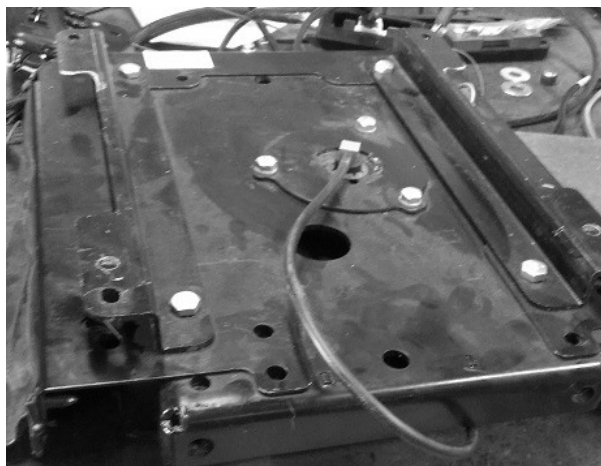


Fig. 2A

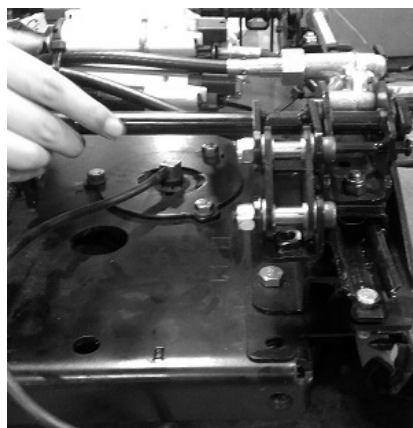


Fig. 2B

3. Each wire harness is individually labeled for its specific motor. Connect the wire harness labeled "Rear Lift Motor" to the motor at the rear of the seat base. Connect the wire harness labeled "Front Lift Motor" to the motor at the front of the seat base. Finally, Connect the wire harness labeled "Linear Motor" to the motor in the center. (See Fig. 3) The unit is now ready to be connected to the controller. If you are installing a non-memory unit, skip to page 7 (**CONNECTING A NON-MEMORY UNIT TO CONTROL PANEL**).



Fig. 3

4. Plug in the 3 wire harness into the Six Way Power Module to the connection labeled “Motors.” There is only one way this plug in connector can securely connect to the Module Switch. (See Fig. 4)



Fig. 4

5. Connect the switch wire harness to the the control panel connection labeled “Switches.” (See Fig. 5)



Fig. 5

6. Connect the power (red wire) and ground (black wire) to the memory switch. The plug in connector location is labeled on the top of the Memory Seat Module as shown in the photo below. (See Fig. 6)

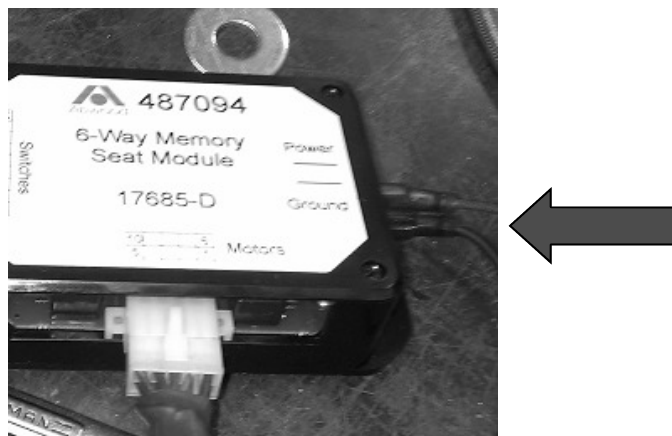


Fig. 6

CONNECTING THE TRANSMISSION WIRE

1. A transmission safety feature is designed into the controller to prevent memory recall from being activated while the vehicle is moving. This needs to be connected for proper operation of the six way memory system. The vehicle has a transmission enabled signal line that needs to be connected to the white or pink pigtail wires located at the switch connector of the controller.

If your vehicle provides a +12 V signal when the transmission is NOT engaged, connect the transmission enabled signal wire to the pink pigtail. If the vehicle provides a GROUND signal when the transmission is NOT engaged, connect the transmission enabled signal wire to the white pigtail. (See Fig. 7)

2. Once this feature is connected, all six way memory functions should operate correctly when the vehicle is parked. If the vehicle is in gear, memory positions can not be recalled. However; all other features will operate, including the memory seat.



Fig. 7

CONNECTING A NON MEMORY UNIT TO THE CONTROL PANEL

1. To connect the six way power unit to the manual control switch panel, connect the gray connecting board to the back of the control panel. (See Fig. 8) The connecting board will only plug in one way and will snap tight when connected.

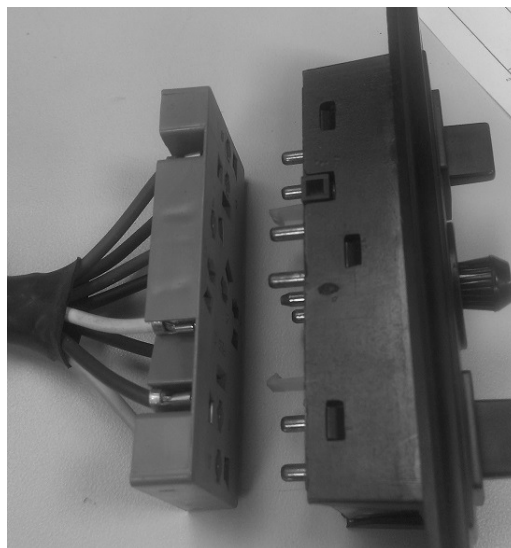


Fig. 8

INSTALLING THE CONTROL PANEL (Memory)

1. Install the control units to the side or the front of the seat base. The control panel should be installed with the Memory switches and buttons facing out as show in the figure below. Attach to the seat base with appropriate mounting screws (not included.) (See Fig. 9)



Fig. 9

INSTALLING THE CONTROL PANEL (Non-Memory)

1. To ensure correct installation of the non-memory control panel, a green arrow is located on the back on the control panel to indicate which side is down. Be sure the arrow is facing down when installing this control panel. Attach to the seat base with appropriate mounting screws (not included.) (See Fig. 10)

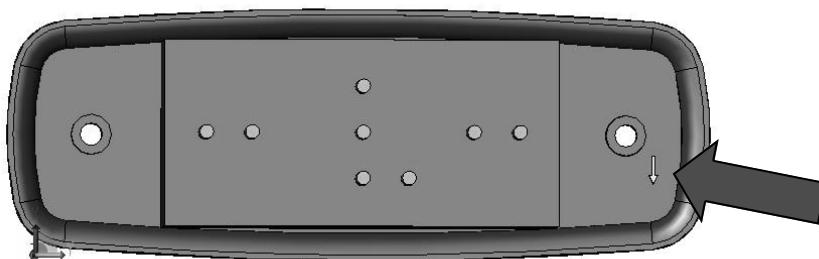
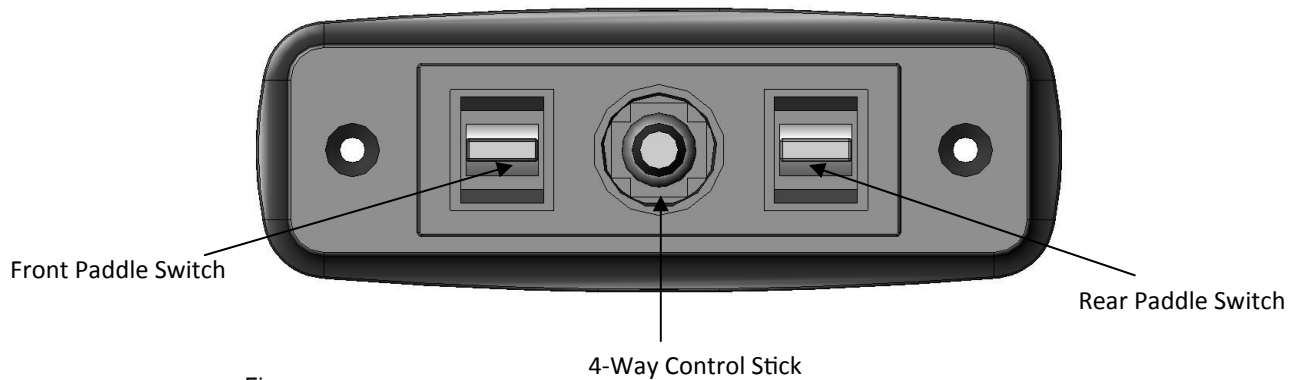


Fig. 10

OPERATION

OPERATING THE SIX WAY ADJUSTER SEAT

The Atwood Six Way Power Seat Adjuster is designed for ease of operation through a simple user interface (See Fig 11). The power seat adjuster consists of two paddle style switches and a 4-way control stick to allow the seat to move in multiple positions.



MOVING THE SEAT

1. Move the seat into the desired seating position using the front paddle switch, the 4-way control stick and the rear paddle switch. Paddle switches work by pressing the switches up and down. The 4-way controller is able to be moved in the up, down, left, and right positions. The seat adjustment controls are as follows:

<u>Front Paddle Switch:</u>	<u>Control Stick:</u>	<u>Rear Paddle Switch:</u>
Controls the front motor. • Up: Raises the front of the seat. • Down: Lowers the front of the seat.	Controls up, down, forward, and rearward operation. • Up: Raises entire seat • Down: Lowers entire seat. • Forward: Moves seat forward • Rear: Moves seat rearward.	Controls the rear motor. • Up: Raises rear of the seat. • Down: Lowers rear of the seat.



CAUTION

- **Do not put hands or feet under or around the moving parts of the seat while using the controller. Seats in motion create pinch points that could injure the operator.**

MEMORY SEAT ADJUSTER OPERATION (if equipped)

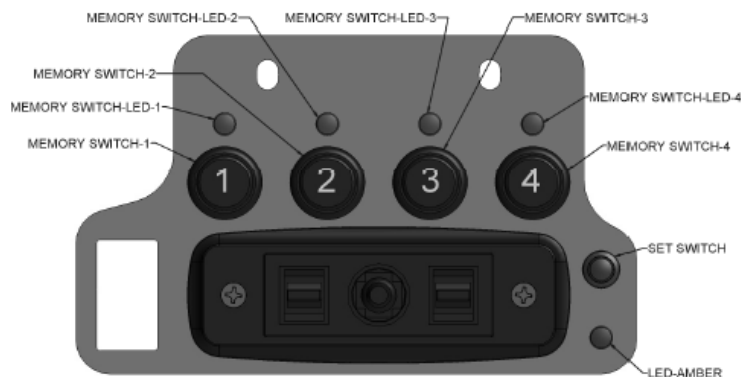


Fig 12.

The Atwood Six Way Adjuster may also be equipped with a memory feature (See Fig 12.) The memory feature allows the user to program the seat to automatically adjust to their the specific needs with the press of a button.

PROGRAMMING THE SEAT

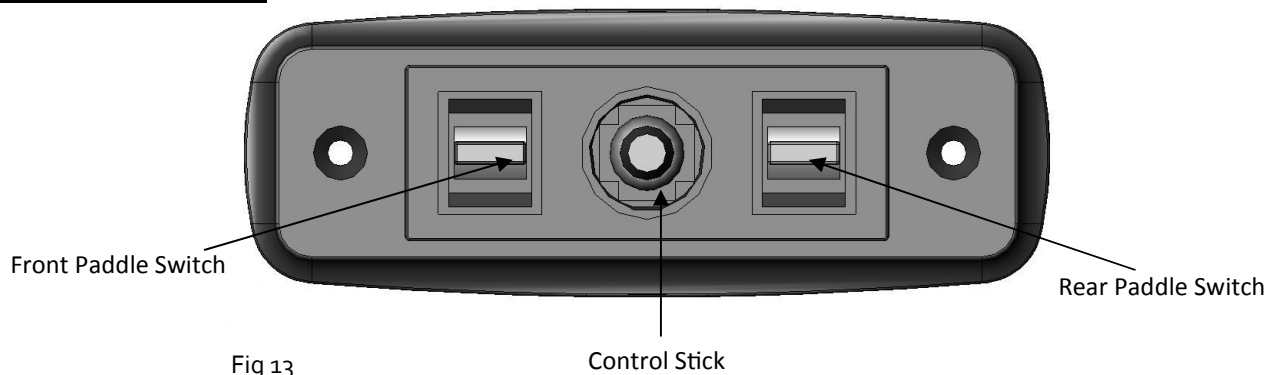


Fig 13

In order for the seat to “remember” any position, the Atwood Six Way Power Adjuster must be programmed and stored into the power seat adjuster’s memory.

1. Using the forward paddle switch, the controller and the rear paddle switch (See Fig 13.), move the seat into the desired seating position. The seat adjust controls are as follows:

<u>Front Paddle Switch:</u> Controls the front motor. • Up: Raises the front of the seat. • Down: Lowers the front of the seat.	<u>Control Stick:</u> Controls up, down, forward, and rearward operation. • Up: Raises entire seat • Down: Lowers entire seat. • Forward: Moves seat forward • Rear: Moves seat rearward.	<u>Rear Paddle Switch:</u> Controls the rear motor. • Up: Raises rear of the seat. • Down: Lowers rear of the seat.
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PROGRAMMING THE SEAT (cont.)

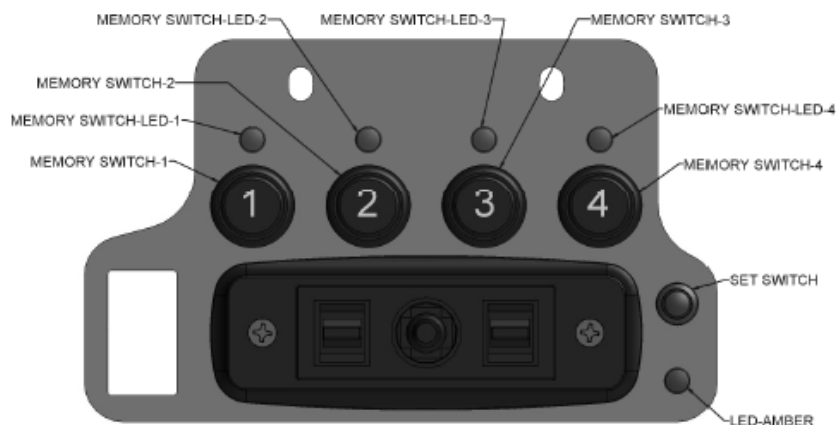


Fig 14.

2. When seat is positioned to its desired location, press and hold the Set Switch button for 3 seconds. (See Fig 14.) All of the green seat memory position LEDs will flash. The Set Switch button can be released. This indicates the system is ready to set a seat position to memory.
3. While all green lights are flashing, press the Memory Switch you wish to program. For instance, to program memory "one", press Memory Switch Button 1. The green LED above the Memory Switch will illuminate and the seat is now programmed to the location.
4. Repeat steps 1-3 to program other seat locations. The Atwood Six Way Memory Adjuster can hold up to four (4) programmed locations.

USING THE PROGRAMMED SEAT

To move the seat to a programmed location, press the Memory Switch buttons 1 through 4 that has been preset to the desired location. When the button is pressed, the seat will automatically adjust to its programmed position.

Note: The seat will not move to a programmed location with the vehicle is in gear. If the seat is travelling to a selected memory location when the vehicle is placed in gear, it will complete the operation.

CHANGING A PROGRAMMED LOCATION

To change a previously programmed seat location, follow the steps in the section PROGRAMMING THE SEAT.

NOTE: Moving a seat to a new location and programming a new seat location will override any pre-existing programming for the selected memory switch.

LED TROUBLESHOOTING:

The amber (power) and green (memory) LED indicators acts as a troubleshooting guide for the end user. Please refer to this list should any problems occur with the memory control Unit.

Key:

○ Off

● On

* Flashing

Amber LED (flashes)	Green LED (flashes)	Duration	Problem	Solution
●	●	All LEDs Steady On	System is on. Seat is not in recognized programmed memory location.	
○	○	—	Sleep Mode	Start vehicle and put into gear or press any seat control button to deactivate “Sleep Mode”
○	○	—	No Power to Seat Control	1) Check 30A fuse to see if blown. Plastic will be blackened. Replace with appropriate fuse. 2) Power cable disconnected. Check wiring for cable disconnects. 3) Vehicle battery dead.
*	* (any/all)		On Power Up: Memories with flashing LEDs indicate that those memory locations are not set.	Set memory location
*	* (one)		If when memory button pressed: Memory at that location is not set.	Set memory location
*	* (one)		If after travel to a location: Stalled before achieving programmed location	1) Move the chair with manual controls then press the desired memory. 2) Manually move seat to desired location and resent the memory location.

SEAT TROUBLESHOOTING:

Problem	Cause	Solution
No chair movement	No Power	Check cabling for possible disconnects and fix as needed
	Vehicle battery dead	Check battery and charge or replace as appropriate
	Fuse blown	Check 30A fuse near the power connector Plastic will be blackened if blown. Replace with appropriate fuse.
Back/forth motion but only one or no lift/lower motion.	Auto-Resetting thermal fuse in lift motor is open. Usually caused by excessive stall when the motor is all the way to extreme end of its travel or if a foreign object is preventing movement of the seat	Remove object if there is one hindering travel. Wait 2 minutes for resettable thermal fuse to reset.

NOTE: To check the fuse, open the inline fuse cap and inspect the fuse. If the fuse is discolored or the fuse has blown, replace with another 30Amp automotive fuse. (See Fig. 15)

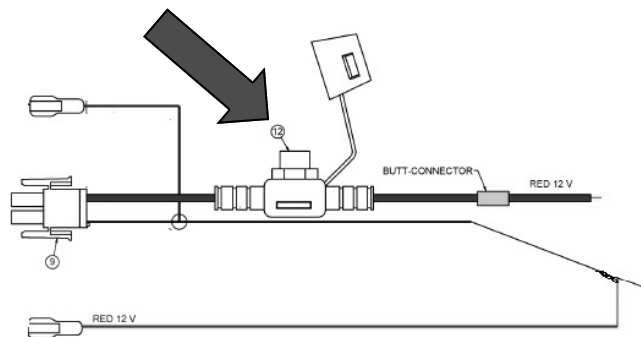


Fig. 15

MAINTENANCE:

The Six Way Power Adjuster was designed to be maintenance free throughout the life of the unit. No additional maintenance is necessary.

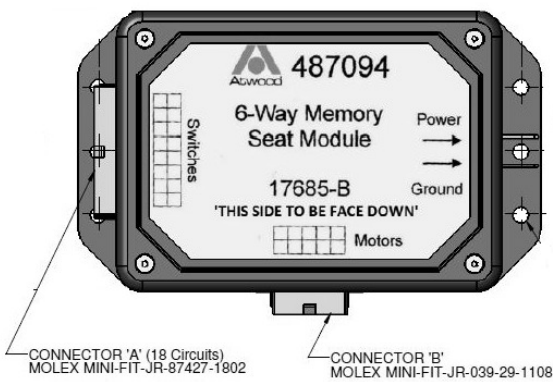
CLEANING:

The power seat adjuster control panel can be cleaned with a mild interior automotive or household cleaner and a damp cloth. Do not remove the seat adjuster or the control unit while cleaning.

When cleaning the seat adjuster and memory control unit (if equipped), be sure water or excessive cleaning products do not get inside the seat adjuster or control unit. Additional water or cleaning products in the unit can cause premature corrosion and failure to the electrical components.

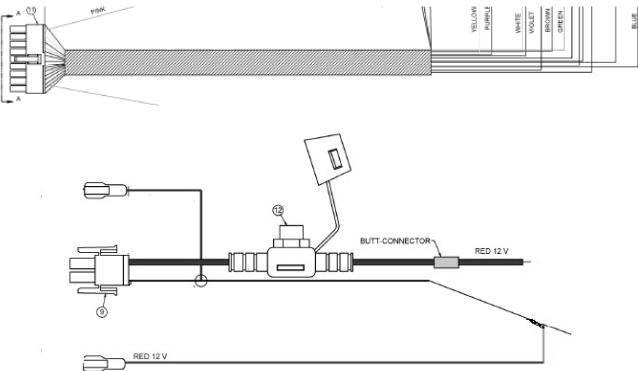
SCHEMATICS AND PIN DETAILS FOR MEMORY UNIT:

The illustration below details the connector pin-out and the wire schematics for the memory seat module wire harness.



CONNECTOR 'A' (SWITCHES & LED'S)	
PIN #1	MEM. 4 SWITCH
PIN #2	MEM. 2 SWITCH
PIN #3	LIFT 2 MOTOR SWITCH 2
PIN #4	LIFT 1 MOTOR SWITCH 2
PIN #5	LINEAR MOTOR SWITCH 2
PIN #6	LED 1-CATHODE
PIN #7	LED 2-CATHODE
PIN #8	LED 3-CATHODE
PIN #9	TRANSMISSION MINUS (-ve)
PIN #10	MEM. 3 SWITCH
PIN #11	SET SWITCH
PIN #12	MEM. 1 SWITCH
PIN #13	LIFT 2 MOTOR SWITCH 1
PIN #14	LIFT 1 MOTOR SWITCH 1
PIN #15	LINEAR MOTOR SWITCH 1
PIN #16	LED 4-CATHODE
PIN #17	LED 5-CATHODE
PIN #18	TRANSMISSION PLUS (+ve)

CONNECTOR 'B' (MOTORS)	
PIN #1	LINEAR MOTOR DRIVE +ve
PIN #2	LIFT 1 MOTOR H.S.
PIN #3	LIFT 2 MOTOR H.S.
PIN #4	LINEAR MOTOR H.S.
PIN #5	LIFT 1 MOTOR DRIVE -ve
PIN #6	LINEAR MOTOR DRIVE -ve
PIN #7	GROUND (COMMON)
PIN #8	LIFT 2 MOTOR DRIVE +ve
PIN #9	LIFT 2 MOTOR DRIVE -ve
PIN #10	LIFT 1 MOTOR DRIVE +ve

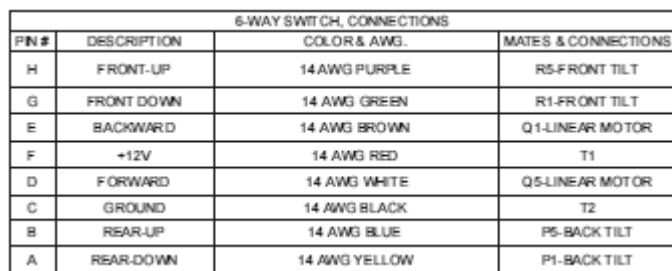


CONTROLLER CABLE CONNECTIONS			
RECEPTACLE, 18-CIRCUIT MINI-FIT, PIN #	DESCRIPTION	COLOR & AWG	SWITCH, GM MANUAL, PIN #
PIN #13	REAR-UP	16 AWG PURPLE	B
PIN #3	REAR-DOWN	16 AWG YELLOW	A
PIN #14	FRONT-UP	16 AWG GREEN	H
PIN #4	FRONT-DOWN	16 AWG BROWN	G
PIN #15	FORWARD	16 AWG VIOLET	D
PIN #5	BACKWARD	16 AWG WHITE	E

RECEPTACLE, 18-CIRCUIT MINI-FIT, PIN #	COLOR & AWG	MATES/CONNECTIONS
PIN #12	16 AWG LT. BLUE	MEMORY SWITCH 1
PIN #2	16 AWG LT. BLUE	MEMORY SWITCH 2
PIN #10	16 AWG LT. BLUE	MEMORY SWITCH 3
PIN #1	16 AWG LT. BLUE	MEMORY SWITCH 4
PIN #11	16 AWG LT. BLUE	SET SWITCH
PIN #6	20 AWG BLUE	MEMORY SWITCH LED-1
PIN #7	20 AWG BLUE	MEMORY SWITCH LED-2
PIN #8	20 AWG BLUE	MEMORY SWITCH LED-3
PIN #16	20 AWG BLUE	MEMORY SWITCH LED-4
PIN #17	20 AWG BLUE	LED-AMBER
PIN #9	16 AWG WHITE	TRANSMISSION(-VE)
PIN #18	16 AWG PINK	TRANSMISSION(+VE)

RECEPTACLE HOUSING, PIN, 2-WAY MALE, PIN #	DESCRIPTION	COLOR & AWG	SWITCH, GM MANUAL, PIN #
PIN # B1	+12V	14 AWG RED	F
PIN # B2	GROUND	14 AWG BLACK	C

The illustration below details the connector pin-out and the wire schematics for the non-memory wire harness



ATWOOD SEATING COMPONENTS LIMITED WARRANTY

The Atwood seating components consisting of: seat reclining mechanisms, seat adjusters, chair and sofa frames, seat pedestals and associated mounting brackets are covered by the limited warranty as set forth below:

Atwood warrants to the original purchaser, who purchases for purposes other than resale, that Atwood Mobile Products, LLC. To be free from defects in factory workmanship and materials under normal use and service for a period of twenty-four (24) months from the date of sales to the original purchaser of the vehicle or date of installation if installed in a vehicle currently in service. This warranty is transferable to subsequent owners of the vehicle throughout the warranty period.

Atwood agrees to repair or replace any part which, **after inspection by Atwood** is proven to be defective within the warranty period. Warranty will include reasonable labor for replacement at factory established rates only. Atwood's obligation under this warranty is limited only to the replacement of parts which fail due to defective workmanship or material used by Atwood. This Warranty does not cover improper application of the product or products, or the workmanship of the installer or consequential damages arising from such poor workmanship or improper application. There are not provisions for travel time, down time, or other expenses for any reason as a result of a failure of an Atwood product to operate properly. All repairs are to be made by an authorized service center or designated, prior approved facility.

THIS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO ATWOOD MOBILE PRODUCTS, LLC AND IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES. THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS ARE HEREBY LIMITED IN DURATION TO THE WARRANTY PERIOD SET FORTH ABOVE. ATWOOD'S OBLIGATIONS DOES NOT INCLUDE ANY LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, HOWEVER ARISING.

Some states do not allow limitations on how long as implied warranty lasts or the exclusion or limitation of incidental or consequential damages. Therefore, the above limitations may not apply to you. This warranty gives you specific legal rights, and you may have other legal rights which may vary from state to state.

