

Document Number: 040-00074 <input type="button" value="Form Instructions"/>	Rev	Description	Date	ECO#	
	1	SERVICE MANUAL	2/14/08	00239	
Title	SERVICE MANUAL, THUMBSWITCH ASSEMBLY REPLACEMENT				
Operation Description	Sub Assembly				
Standards	Man Occup.	Machine Occup.	Cycle Time	Setup Time	Batch Qty
Equipment List	Equipment	Manufacturer		Qty	
	1- Thumbswitch Assembly	T3 Motion		1	
	2- Phillips screw driver	Any		1	
	3- 5/32 inch Allen wrench	Any		1	
	4- 7/16 inch socket	Any		1	
	5- Ratchet	Any		1	
	6- Wire cutters	Any		1	
Reference Docs	Document #	Description	Document #	Description	
Related Files					
RESP ENGR	Mark Jones				
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SERVICE MANUAL

Item#	Part #	Description	Qty
1	023-00013	Thumbswitch Assembly	1



Serious electrical shock can occur if precautions are not followed.



- **ALWAYS TURN OFF POWER BREAKER IN GLOVE BOX AND REMOVE POWER MODULES BEFORE PERFORMING ANY ELECTRICAL WORK.**



Power breaker in glove box



Power modules

- **ALSO SET THE PARKING BRAKE PRIOR TO ANY WORK.**

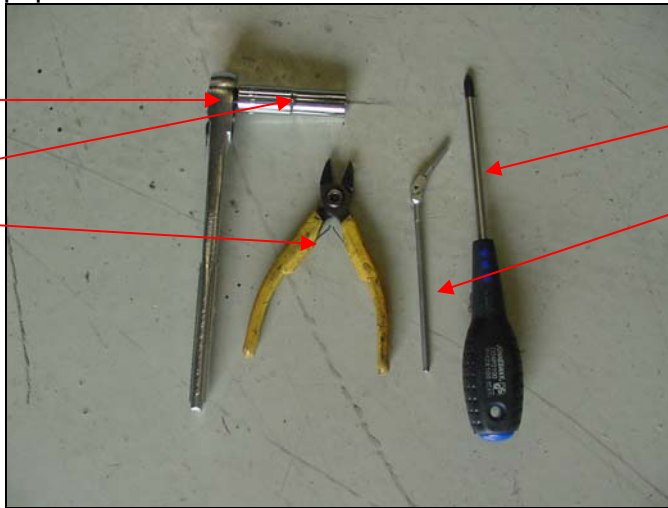


Parking brake

WORK INSTRUCTIONS:

- 1.0 Recommended tools for replacing the thumbswitch assembly.
See equipment table above for the details.

Ratchet (5) with
7/16 inch socket (4)
Wire cutters (6)

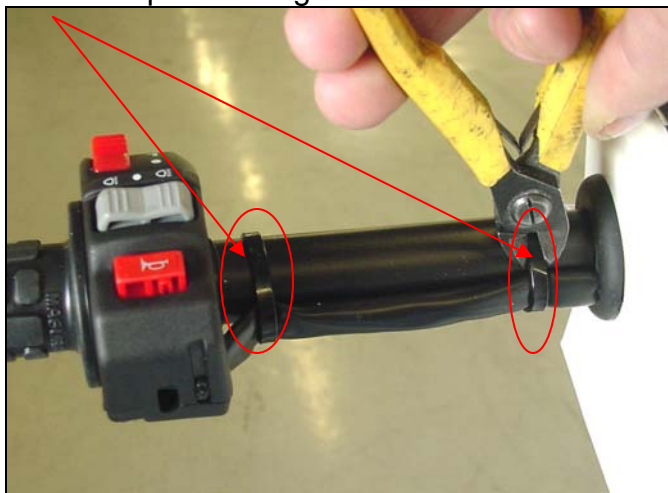


Phillips screwdriver (2)
5/32 Allen wrench (3)

- 1.2 Thumbswitch assembly.



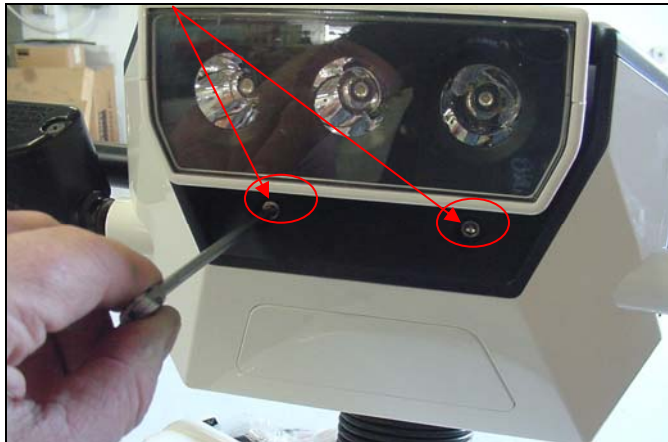
- 2.0 Cut nylon tie wraps securing wire to handlebar with wire cutters.



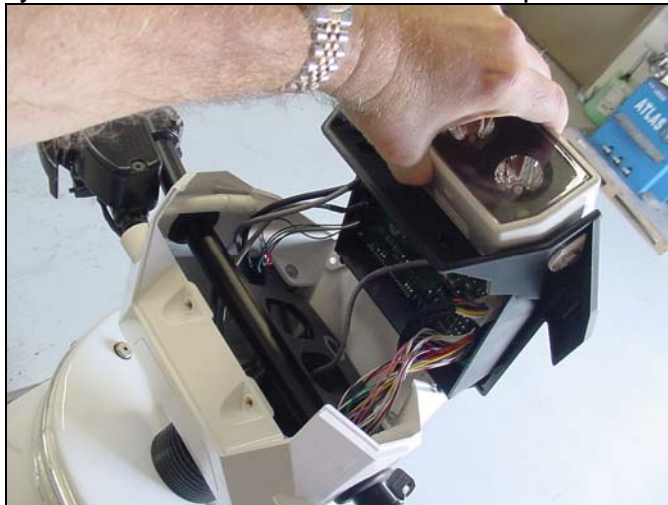
3.0 Remove these four screws with the 5/32 Allen wrench.



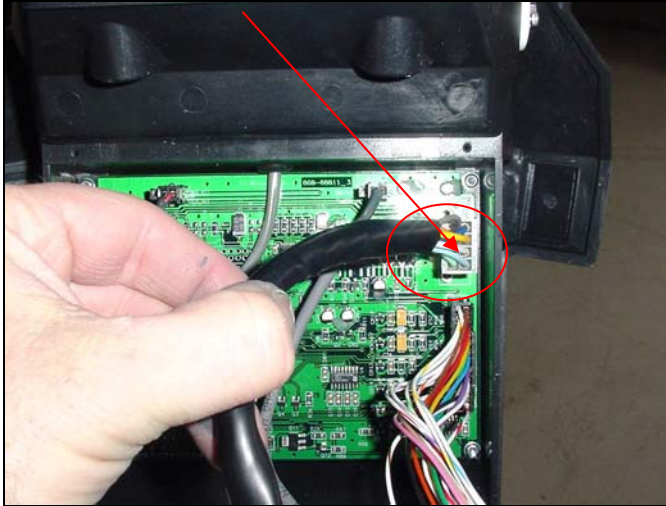
3.1 Remove these two screws with the 5/32 Allen wrench.



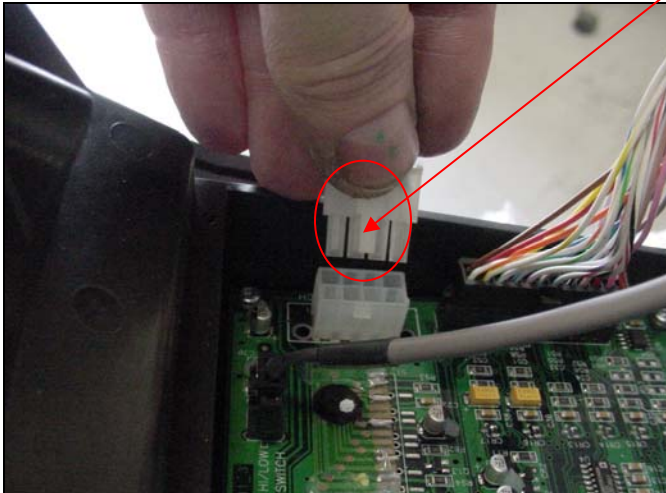
3.2 Carefully lift off the head set cover. Do not pull hard on the wires.



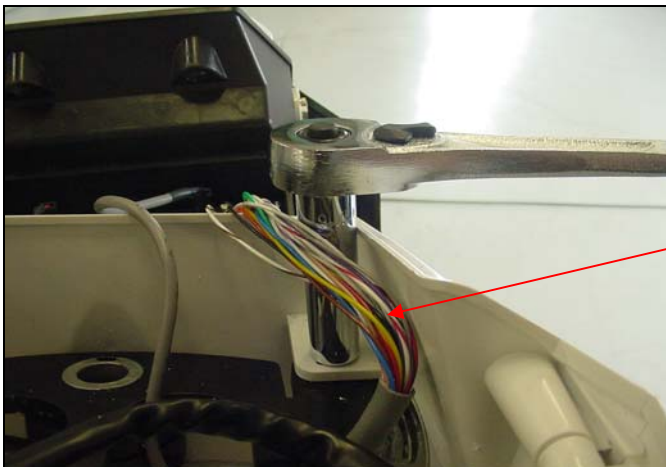
3.3 Locate the thumbswitch connector on the circuit board.



2.4 Disconnect the plug for the thumbswitch from the circuit board. Note the locking tab that must be released.



3.0 Remove the 7/16 inch bolt on the left hand side of the vehicle that secures the headset to the handlebars.



Note routing of wires to avoid pinching or damaging them.

- 3.1 Loosen, but do not remove, the 7/16 inch bolt on the right hand (vehicle) side.



Note routing of wires to avoid pinching or damaging them.

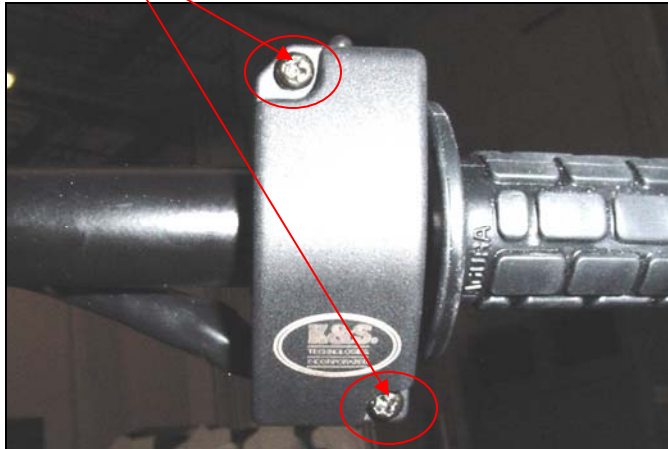
- 3.2 Carefully pull apart the headset front and rear to allow the large handlebar grommet to slide out. Do not force the plastic parts.



- 3.3 Slide the grommet out a bit so you can slide the connector under it. It takes two hands.



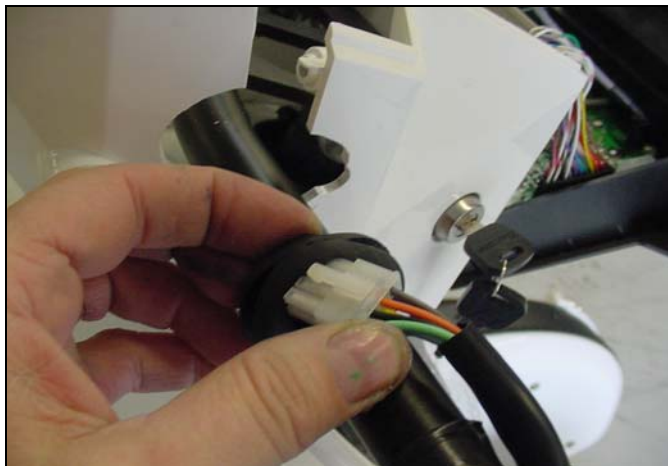
- 3.4 Remove the two Phillips head screws and take the thumbswitch assembly off the handlebar.



- 4.0 Install the new thumbswitch by screwing the two Phillips head screws alternately until tight. Do not over tighten.



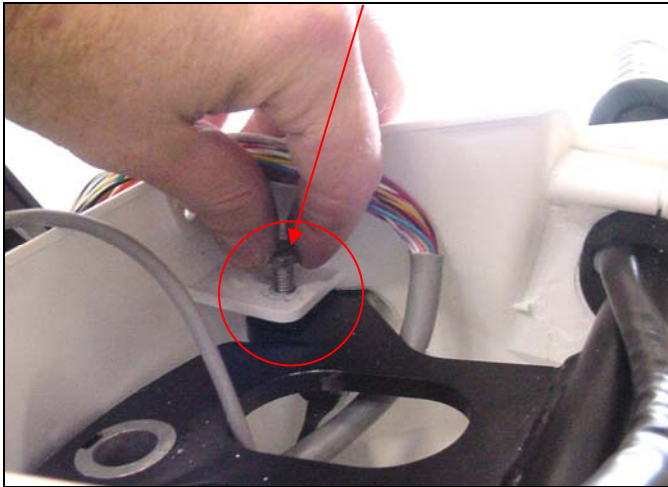
- 4.1 Feed the connector and wire through the grommet much the same way as you removed it earlier.



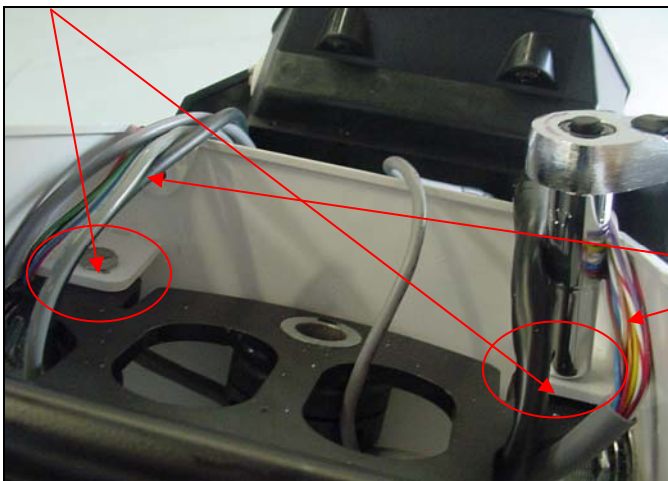
- 4.2 Slide the grommet back to its correct position so it lines up with the headset parts. Do not force the plastic parts.



- 4.3 Hand thread to start the 7/16 bolt that holds the headset to the handlebars.

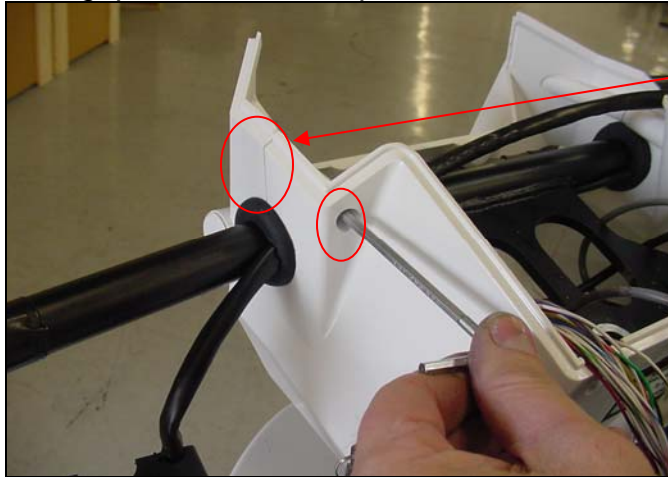


- 4.4 Tighten both 7/16 bolts with the socket wrench. Do not over tighten.



Note routing of wires to avoid pinching or damaging them.

- 4.4 Re-install the forward upper left Allen head screw to fasten the headset around the grommet. Do not over tighten or force. Tighten just enough to close the gap here. If the gap won't close, inspect the area to find what is interfering.

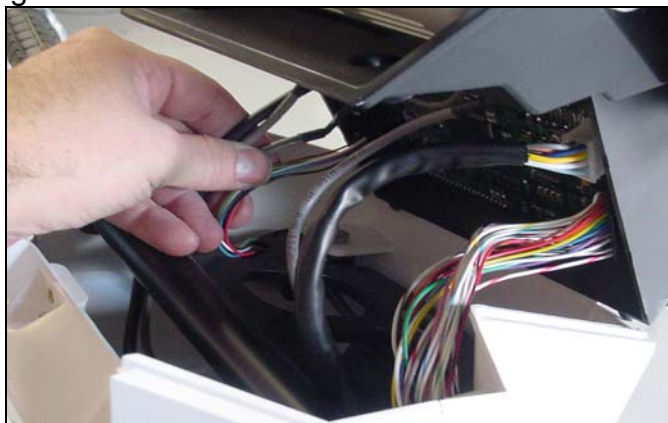


Also see step 6.1 for re-installing the headset screw on the back lower right at this time if you are having difficulty closing the gap.

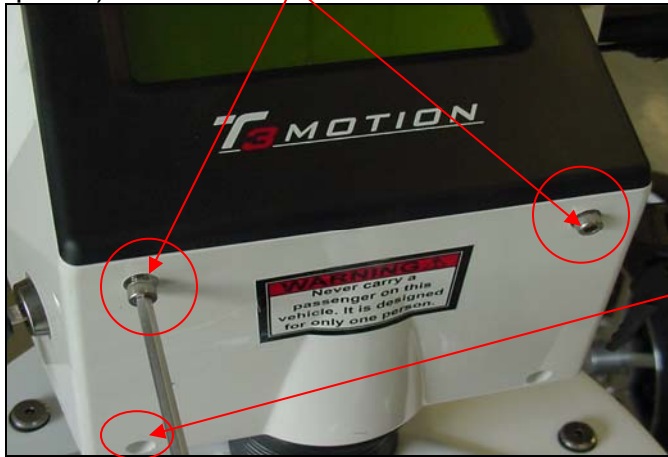
- 5.0 Plug the thumbswitch connector to the circuit board as shown. Note position of locking tab.



- 6.0 Re-install headset top. Be sure to arrange wires so there is no binding or pinching.



- 6.1 Re-install headset top mounting screws. Thread all four of them in part way before tightening any of them. Do not over tighten them. There are the two on the back, and the two on the front under the head light, (see bottom photo).



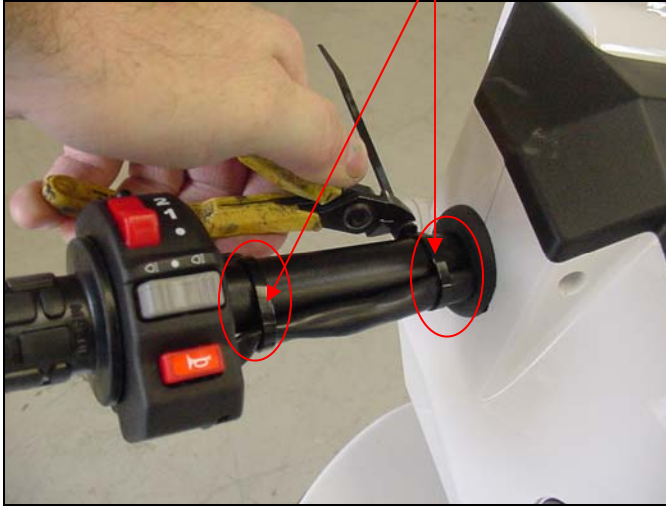
Also install and tighten the headset screw on the back lower left at this time if you have not already done so.



- 8.0 Turn power on and test to make sure everything works properly.



- 9.0 Secure wire to handlebar with nylon tie wraps and cut excess from ties with wire cutters.



For addition information, contact T3 Motion at: (714)-619-3600.