

Document Number: 040-00073 <input type="button" value="Form Instructions"/>	Rev	Description	Date	ECO#	
	1	SERVICE MANUAL	2/14/2008	00239	
Title	SERVICE MANUAL, THROTTLE ASSEMBLY REPLACEMENT				
Operation Description	Sub Assembly				
Standards	Man Occup.	Machine Occup.	Cycle Time	Setup Time	Batch Qty
Equipment List	Equipment	Manufacturer		Qty	
	1- Throttle 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	023-00014	Throttle 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.**

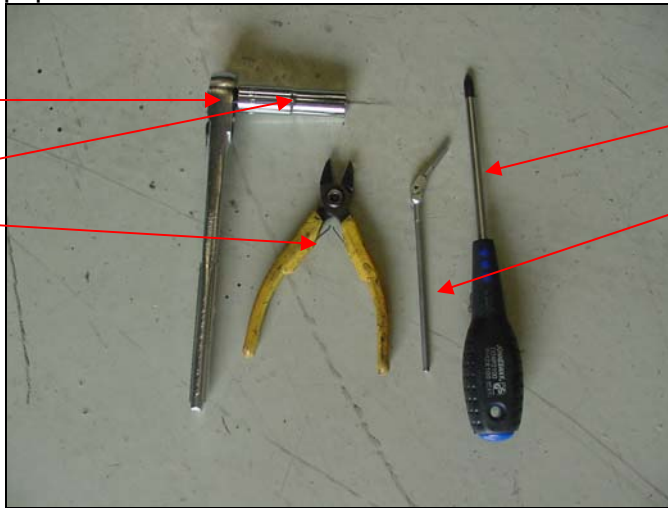


Parking brake

WORK INSTRUCTIONS:

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

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

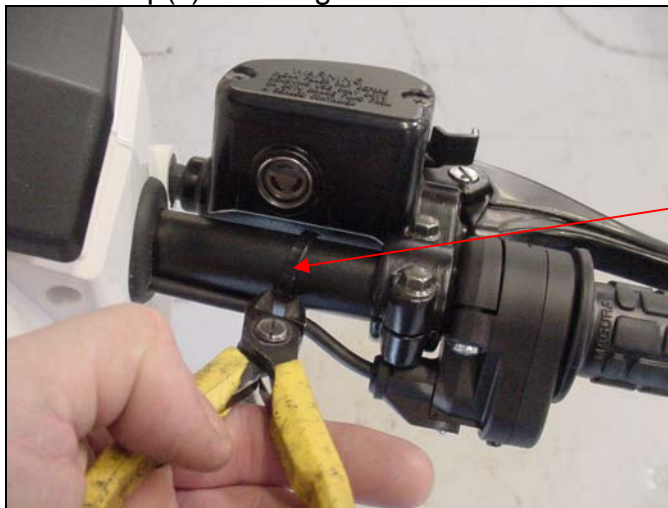


Phillips screwdriver (2)
5/32 Allen wrench (3)

- 1.1 New throttle assembly.

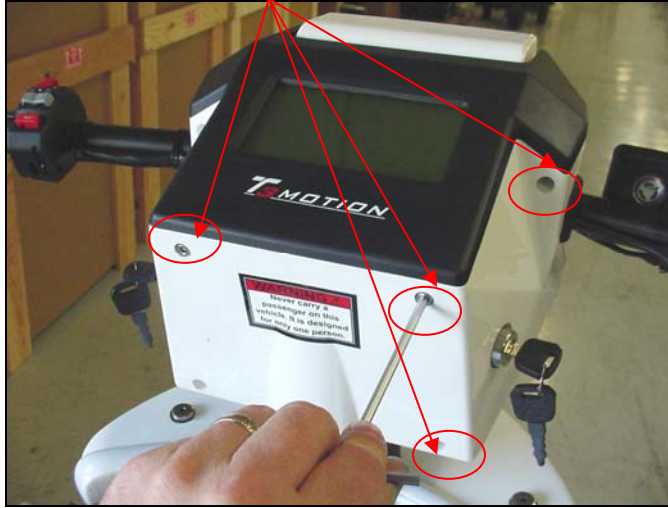


- 2.0 Cut nylon tie wrap(s) securing wire to handlebar with wire cutters.

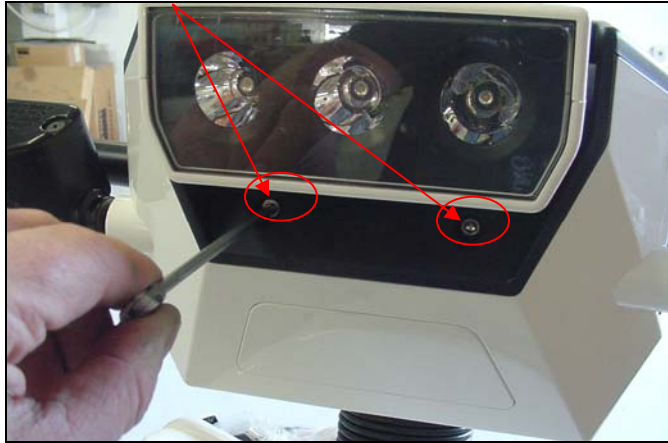


Note: Some T3 units have one; and some have two nylon wire ties securing the wire to the handlebar.

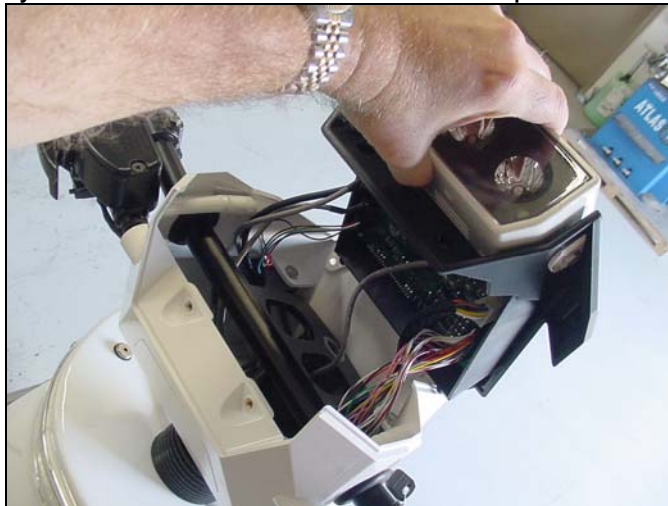
3.0 Remove these four screws with the 5/32 Allen wrench.



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



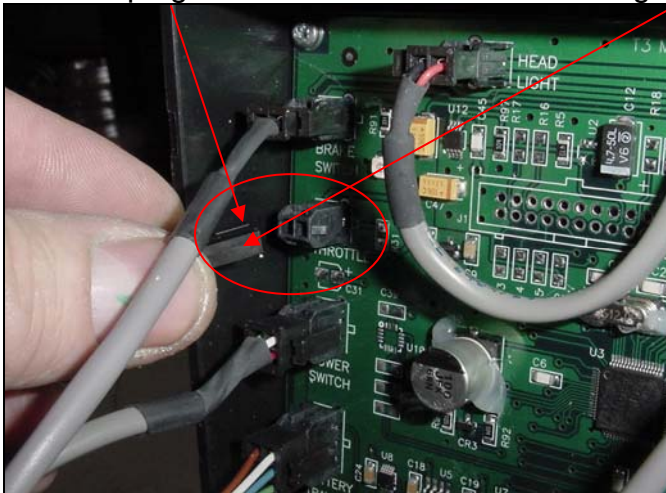
3.2 Carefully lift off the headset cover. Do not pull hard on the wires.



3.3 Locate the throttle connector on the circuit board.



3.4 Disconnect the plug for the throttle. Note the locking tab that must be released.

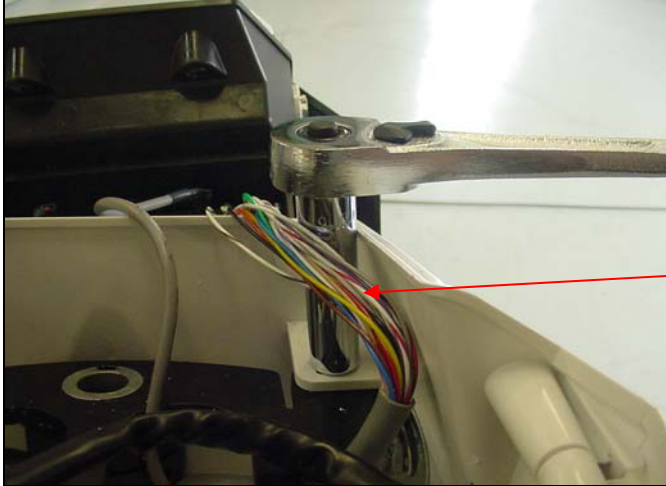


4.0 Remove the 7/16 inch bolt on the right hand side of the vehicle that secures the headset to the handlebars.



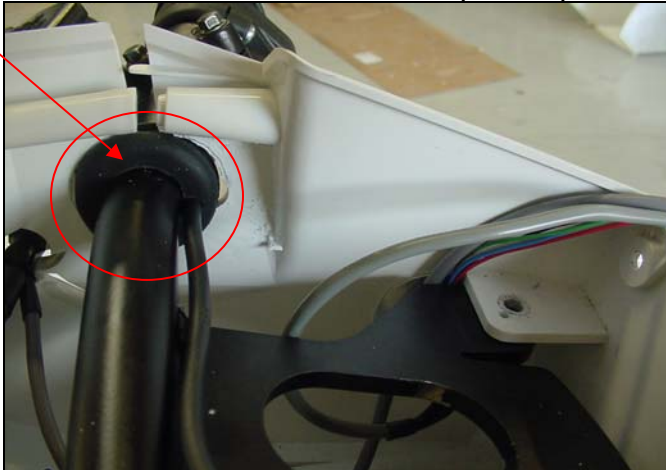
Note routing of wires to avoid pinching or damaging them.

- 4.1 Loosen, but do not remove, the 7/16 inch bolt on the left hand side.



Note routing of wires to avoid pinching or damaging them.

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



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



- 4.4 Loosen the top Phillips head screw to allow the throttle assembly to slide off the handlebar.

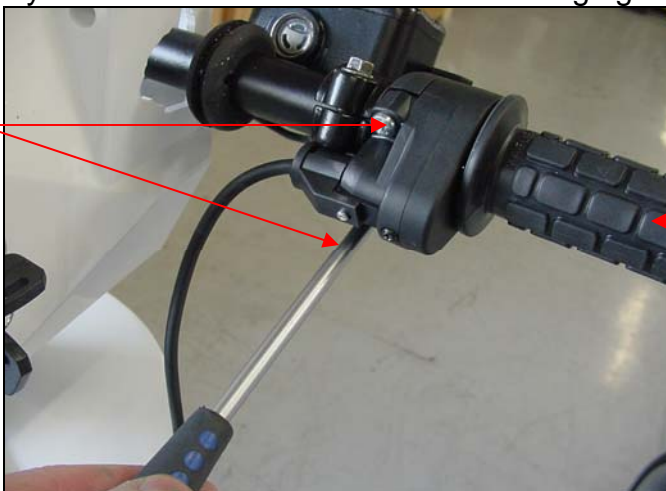


- 5.0 Slide the new throttle assembly all the way onto the handlebar.



- 5.1 Tighten both the top and bottom Phillips head screws to secure the throttle assembly to the handlebar. Bottom screw being tightened in photo below.

Do not over tighten the two screws that secure the throttle to the handlebar or binding of the throttle may occur.



Check to make sure the throttle returns smoothly and rapidly when released.
If binding occurs, back off the screws a small amount until it works properly. Also make sure the screws are sufficiently tight to hold the throttle on securely.

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



- 5.3 Slide the grommet back to its correct position so it lines up with the headset parts.



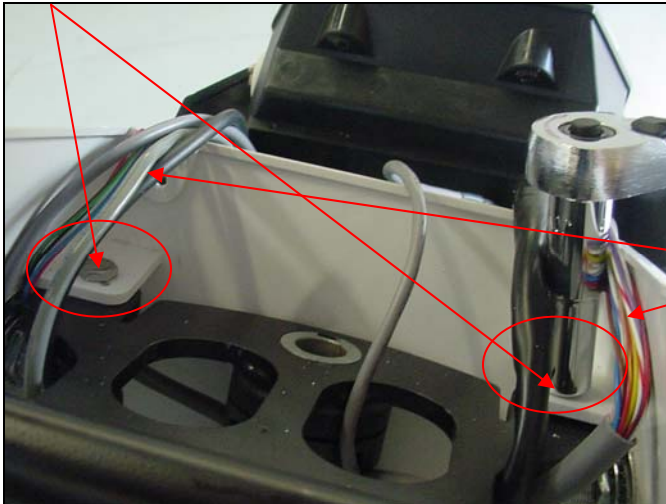
- 5.4 Gently work the grommet and the headset parts back into alignment.



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

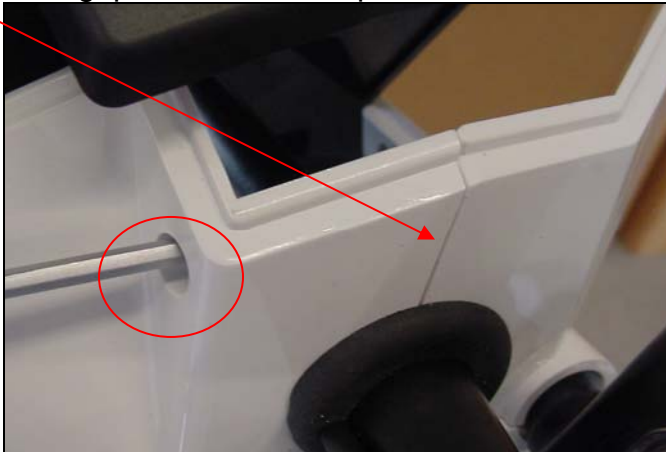


5.6 Tighten both 7/16 bolts with the socket wrench. Do not over tighten.



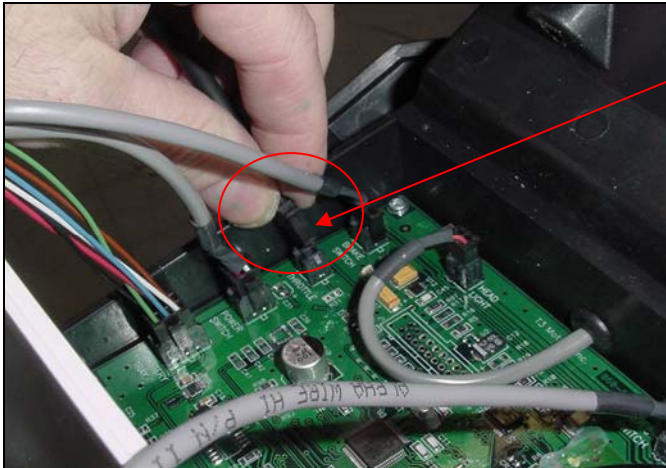
Note routing of wires to avoid pinching or damaging them.

5.7 Re-install the forward upper right 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 7.1 for re-installing the headset screw on the back lower right at this time if you are having difficulty closing the gap.

- 6.0 Plug the throttle connector to the circuit board as shown. Note position of locking tab.



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



- 7.1 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, shown here.



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

7.2 And these are the two on the front under the head light.



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



9.0 Secure wire to handlebar with a nylon tie wrap and cut excess from tie with wire cutters.



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