

Document Number: 040-00066 <input type="button" value="Form Instructions"/>	Rev	Description	Date	ECO#	
	1	SERVICE MANUAL	2/13/2008	00239	
Title	SERVICE MANUAL, HEADSET TOP AND HEAD LIGHT REPLACEMENT THIS INSTRUCTION IS FOR EITHER OR BOTH ASSEMBLIES				
Operation Description	Sub Assembly Removal and Replacement				
Standards	Man Occup.	Machine Occup.	Cycle Time	Setup Time	Batch Qty
Equipment List	Equipment	Manufacturer		Qty	
	1- Headset Top Assembly	T3 Motion		1	
	2- Head Light Assembly	T3 Motion		1	
	3 - 5/32 inch Allen (Hex) key or driver	Any		1	
	4 - 7/16 inch open end or box wrench	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	023-00021	Headset top assembly	1
2	023-00022	Head light 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

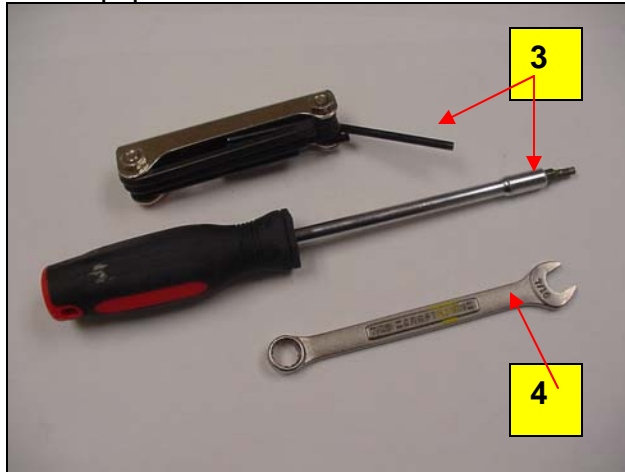
- **ALSO SET THE PARKING BRAKE PRIOR TO ANY WORK.**



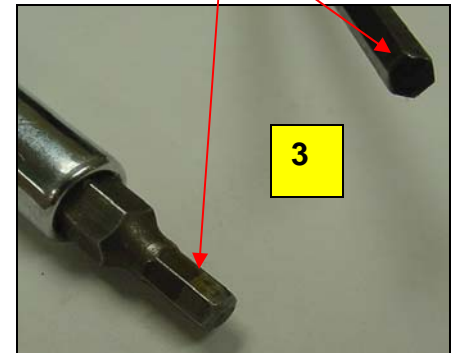
Parking brake

WORK INSTRUCTIONS:

- 1.0 Recommended tools for replacing the headset top and head light assemblies. See equipment table above for the details.



Close up of Allen or hex style driver tips.



- 2.0 Headset top assembly.



- 2.1 Head light assembly.



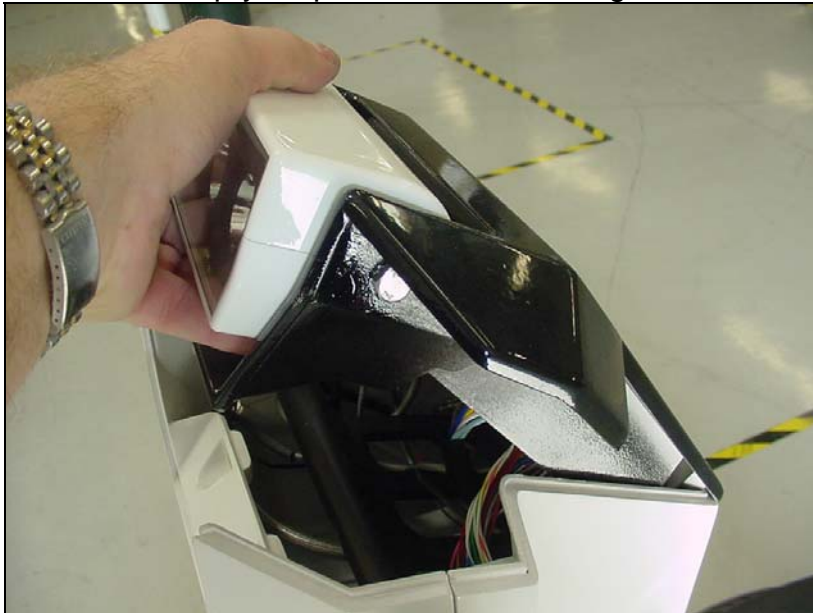
- 3.0 Remove the two Allen head screws on the front of the headset under the headlight.



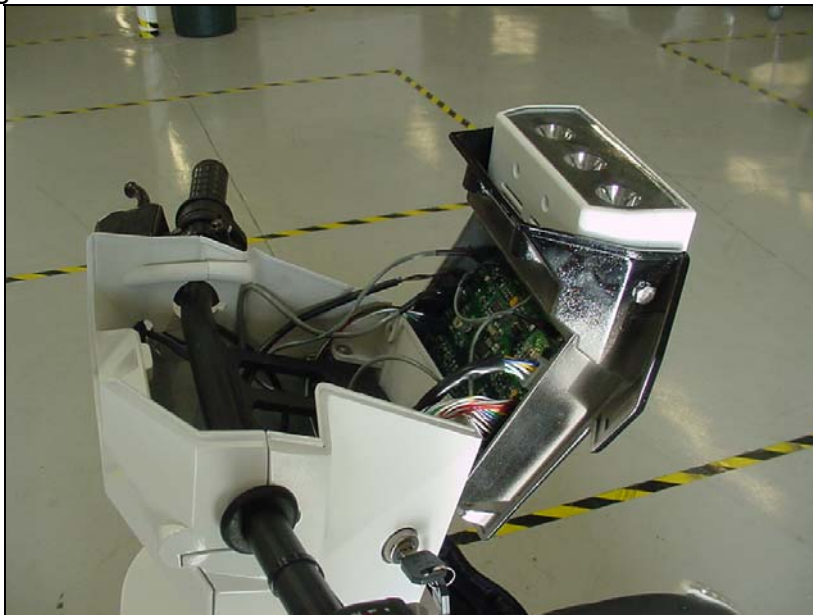
- 3.1 Remove the two Allen head screws on the rear of the headset.



- 4.0 Gently lift the headset top up from the front. You can use the headlight as a handle. Do not force, pry, or pull hard on the wiring.



- 4.1 There is enough slack in the wiring to gently rest the headset top on the headset housing as shown below.

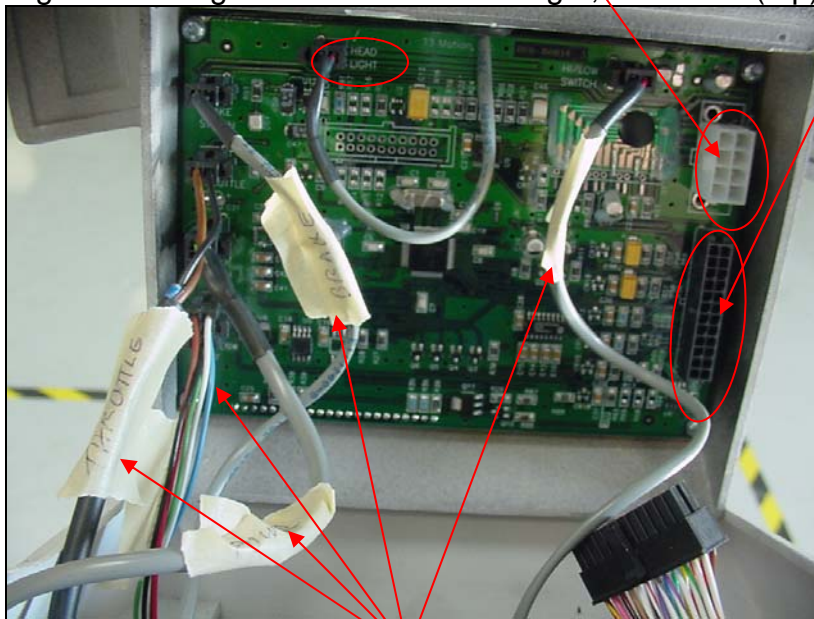


- 5.0 This is the circuit board as viewed from the front of the vehicle. Notice that the smaller connectors are labeled on the circuit board as to their functions.



Note that all of the connector plugs have locking tabs that must be pressed to release the plugs. (See photo in Step 7.0 for a close up.)

- 5.1 Unplug the two larger connectors on the right, one white (top) one black (bottom).



- 5.2 Using tape, label five of the remaining wires with the corresponding names printed on the circuit board before unplugging them. They are the HI/LOW SWITCH, BRAKE SWITCH, THROTTLE, POWER SWITCH and BATTERY TRAY.

There is no need to unplug or label the HEAD LIGHT wire at this time.

- 5.3 Once the five labeled wires are unplugged, the headset top can be removed from the vehicle.

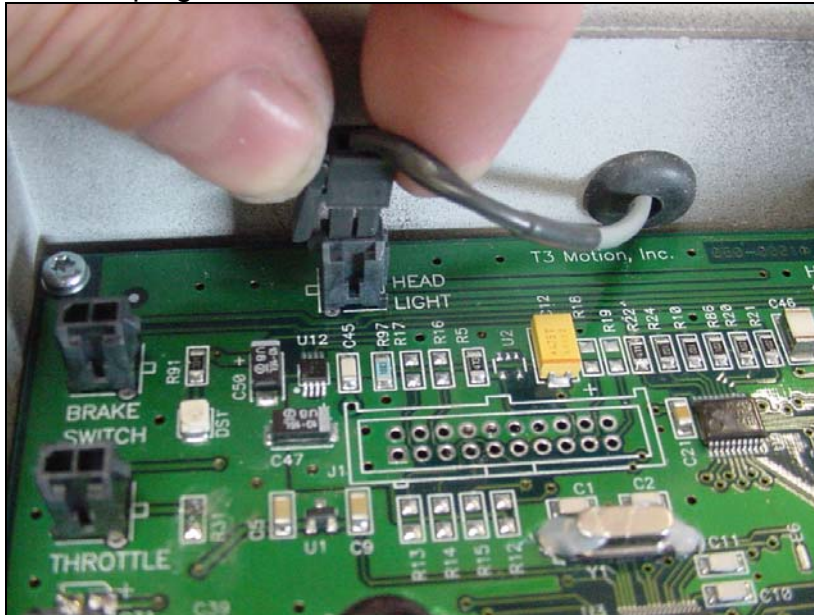
6.0 Remove the two 7/16 bolts holding the head light assembly to the headset top.



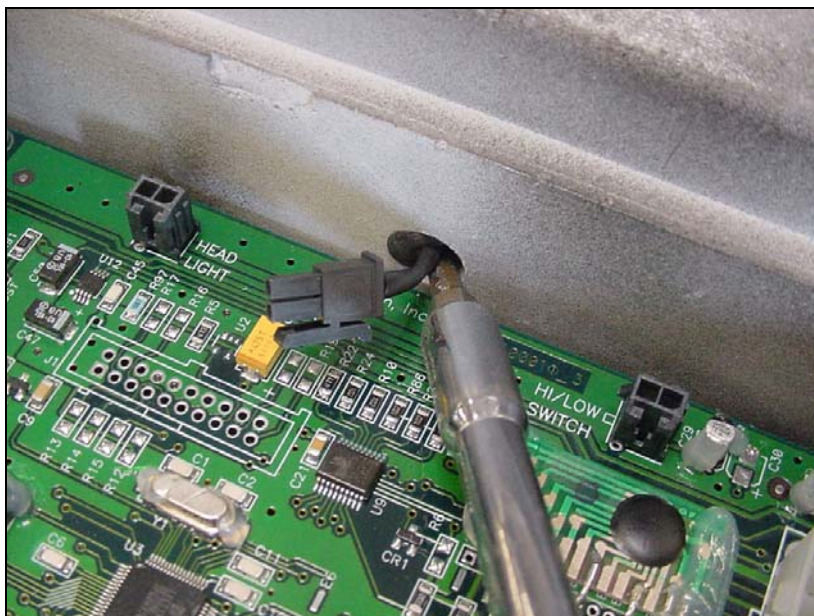
6.1 Gently spread one side of the headset top from the head light to allow the head light to slip out. Only a little pressure is required to free the head light.



- 7.0 Release and unplug the HEAD LIGHT connector from the circuit board.



- 7.1 Push the grommet through the hole to allow clearance for the connector. The Allen wrench or a small screwdriver can be used to help push the grommet through the hole.



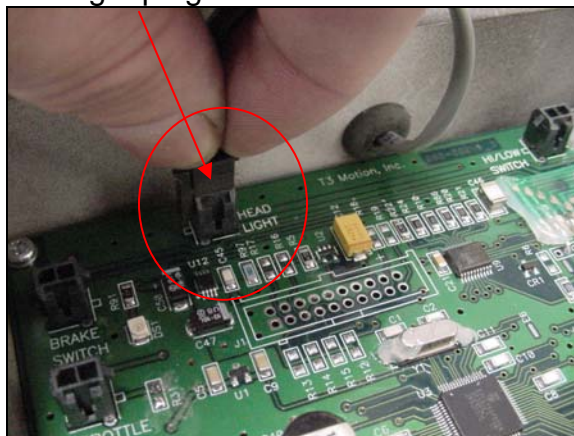
- 8.0 Depending on your service requirements, you will either install a new head light in the headset top, or re-install the head light you just removed into a new headset top.
Start by feeding the head light connector into the hole from the front, and then seat the grommet in the hole.



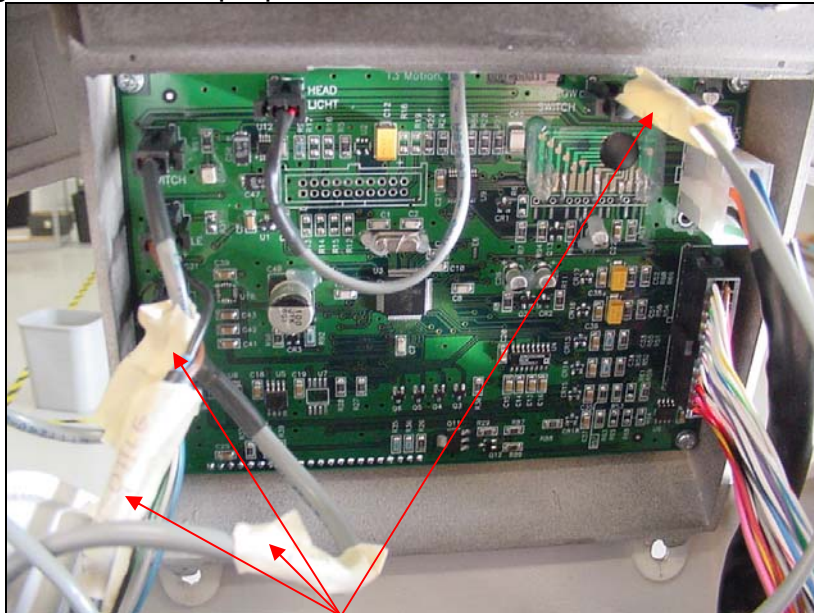
- 9.0 Slide the head light back in place and thread the 7/16 bolts back in. Snug them down, but do not over tighten them.



- 9.1 Reconnect the head light plug to the circuit board.



- 10.0 Reconnect the wires to the terminals that match the labels. Make note of the locking tabs to insure proper connections.



Remove the tape labels after making the proper connections.

- 11.0 Test the installation:
Set parking brake.



Check lights.



Turn breaker and power switches On.



Check headset and control functions.



- 12.0 Final assembly. Turn power Off. Attach headset top and headlight assembly to headset housing using the four Allen head screws. Start all four screws about halfway, then tighten them up until snug, do not over tighten.



If all functions do not work properly, check the connections and the battery levels.
If problems persist, contact T3 Motion at: (714)-619-3600