

| <b>Document Number:</b><br><br><b>040-00067</b><br><br><div>Form Instructions</div> | Rev                                                                                                                                                                                                                                                                                                                                                                                                                                 | Description           | Date                 | ECO#              |           |              |     |                     |           |   |                    |     |   |                           |     |   |                                           |     |   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------|-------------------|-----------|--------------|-----|---------------------|-----------|---|--------------------|-----|---|---------------------------|-----|---|-------------------------------------------|-----|---|
|                                                                                     | 1                                                                                                                                                                                                                                                                                                                                                                                                                                   | SERVICE MANUAL        | 2/14/08              | 00239             |           |              |     |                     |           |   |                    |     |   |                           |     |   |                                           |     |   |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                      |                   |           |              |     |                     |           |   |                    |     |   |                           |     |   |                                           |     |   |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                      |                   |           |              |     |                     |           |   |                    |     |   |                           |     |   |                                           |     |   |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                      |                   |           |              |     |                     |           |   |                    |     |   |                           |     |   |                                           |     |   |
| <b>Title</b>                                                                        | <b>SERVICE MANUAL, HEADSET REPLACEMENT</b>                                                                                                                                                                                                                                                                                                                                                                                          |                       |                      |                   |           |              |     |                     |           |   |                    |     |   |                           |     |   |                                           |     |   |
| <b>Operation Description</b>                                                        | <b>Sub Assembly</b>                                                                                                                                                                                                                                                                                                                                                                                                                 |                       |                      |                   |           |              |     |                     |           |   |                    |     |   |                           |     |   |                                           |     |   |
| <b>Standards</b>                                                                    | <b>Man Occup.</b>                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Machine Occup.</b> | <b>Cycle Time</b>    | <b>Setup Time</b> |           |              |     |                     |           |   |                    |     |   |                           |     |   |                                           |     |   |
| <b>Equipment List</b>                                                               | <table border="1"> <thead> <tr> <th>Equipment</th> <th>Manufacturer</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>1- Headset assembly</td> <td>T3 Motion</td> <td>1</td> </tr> <tr> <td>2- 7/8 inch wrench</td> <td>Any</td> <td>1</td> </tr> <tr> <td>3- 5/32 inch Allen driver</td> <td>Any</td> <td>1</td> </tr> <tr> <td>4- 7/16 inch socket w/ratchet &amp; extension</td> <td>Any</td> <td>1</td> </tr> </tbody> </table> |                       |                      |                   | Equipment | Manufacturer | Qty | 1- Headset assembly | T3 Motion | 1 | 2- 7/8 inch wrench | Any | 1 | 3- 5/32 inch Allen driver | Any | 1 | 4- 7/16 inch socket w/ratchet & extension | Any | 1 |
| Equipment                                                                           | Manufacturer                                                                                                                                                                                                                                                                                                                                                                                                                        | Qty                   |                      |                   |           |              |     |                     |           |   |                    |     |   |                           |     |   |                                           |     |   |
| 1- Headset assembly                                                                 | T3 Motion                                                                                                                                                                                                                                                                                                                                                                                                                           | 1                     |                      |                   |           |              |     |                     |           |   |                    |     |   |                           |     |   |                                           |     |   |
| 2- 7/8 inch wrench                                                                  | Any                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                     |                      |                   |           |              |     |                     |           |   |                    |     |   |                           |     |   |                                           |     |   |
| 3- 5/32 inch Allen driver                                                           | Any                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                     |                      |                   |           |              |     |                     |           |   |                    |     |   |                           |     |   |                                           |     |   |
| 4- 7/16 inch socket w/ratchet & extension                                           | Any                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                     |                      |                   |           |              |     |                     |           |   |                    |     |   |                           |     |   |                                           |     |   |
| <b>Reference Docs</b>                                                               | Document #                                                                                                                                                                                                                                                                                                                                                                                                                          | Description           | Document #           | Description       |           |              |     |                     |           |   |                    |     |   |                           |     |   |                                           |     |   |
| <b>Related Files</b>                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                      |                   |           |              |     |                     |           |   |                    |     |   |                           |     |   |                                           |     |   |
| <b>RESP ENGR</b>                                                                    | Mark Jones                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |                      |                   |           |              |     |                     |           |   |                    |     |   |                           |     |   |                                           |     |   |
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**SERVICE MANUAL**

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| Item# | Part #    | Description      | Qty |
|-------|-----------|------------------|-----|
| 1     | 024-00026 | Headset 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

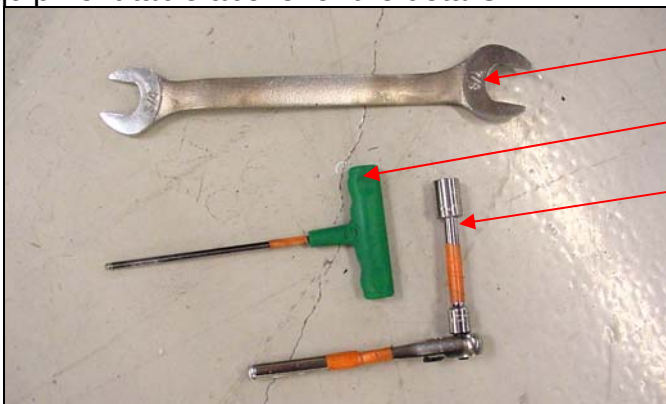
- **ALSO SET THE PARKING BRAKE PRIOR TO ANY WORK.**



Parking brake

## WORK INSTRUCTIONS:

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

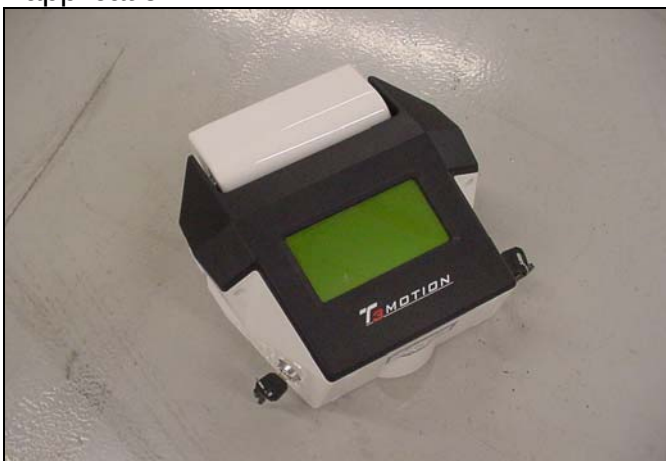


7/8 inch wrench

5/32 inch Allen driver

7/16 inch socket  
w/ratchet & extension

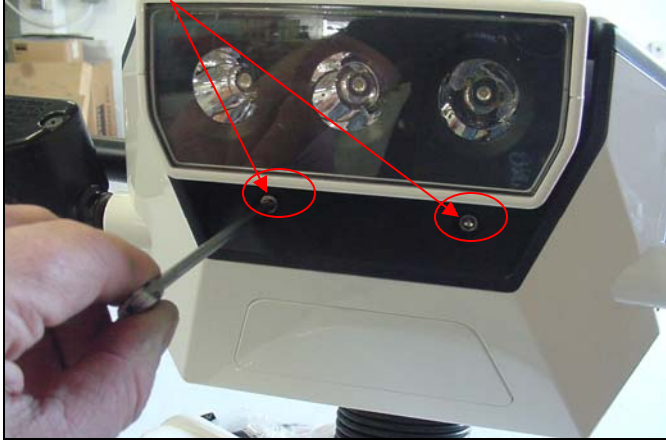
- 2.0 A new headset assembly. You may be replacing the entire assembly as shown, or just some of the parts. This instruction shows the entire replacement procedure for all the parts. But you can use it to replace only the parts required for your application.



- 3.0 Remove these two 5/32 Allen screws from the back of the headset.



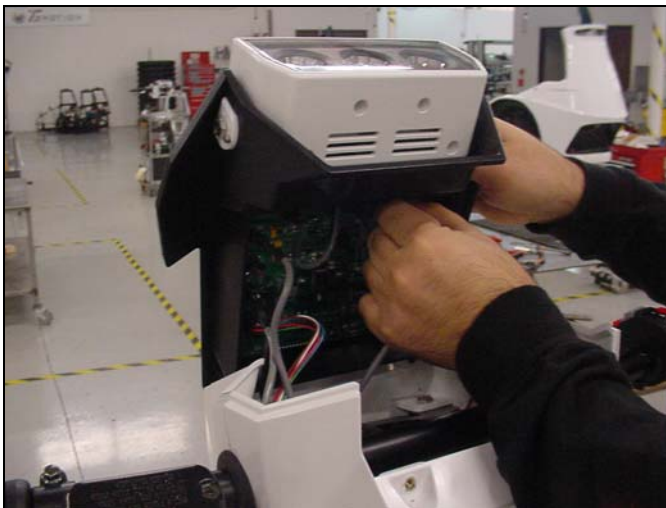
- 3.1 Remove these two 5/32 Allen screws from under the headlight on the front.



- 3.2 Lift the headset top off.

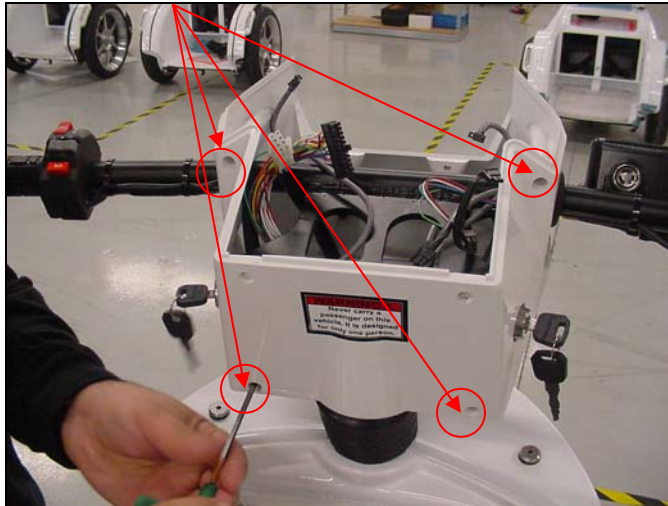


- 3.3 Disconnect the plugs from the circuit board. Take your time and do not pull by the wires, pull from the connectors. Also note the locking tabs that must be released on the connectors.

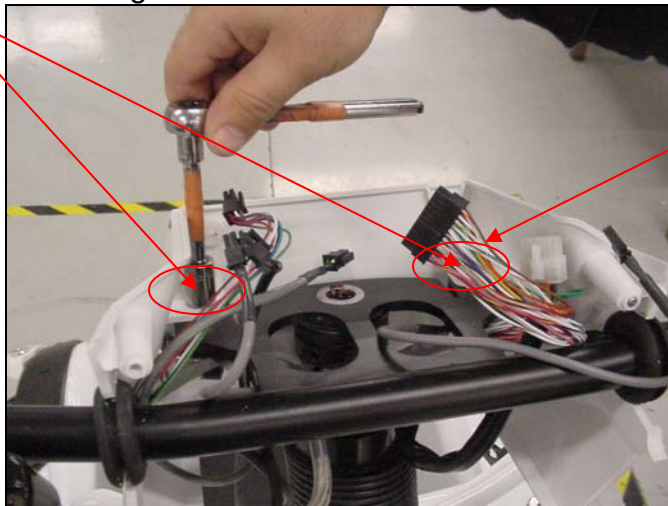




- 3.4 Remove these four 5/32 Allen screws from the back of the headset.



- 3.5 Slide the front of the headset off and using the 7/16 socket wrench, remove the two bolts holding the headset rear onto the handlebars.



Note: Bolt is behind wires.

- 3.6 Remove rear of headset.



- 4.0 Remove the two key switches mounted to the headset rear.



- 4.1 Loosen the nut with a 7/8 wrench.

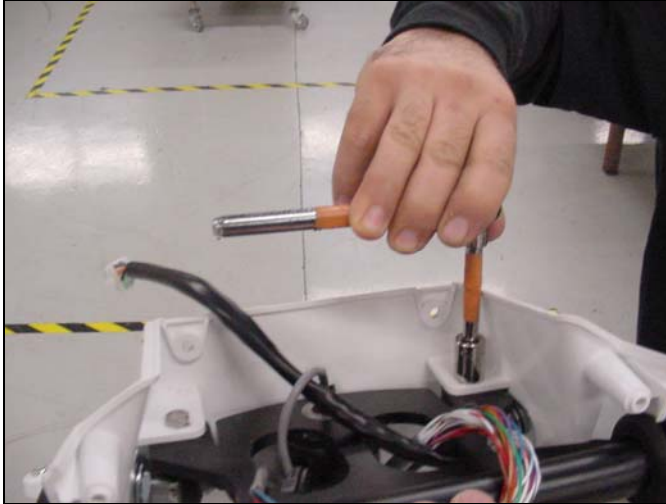


- 4.2 Slide the lock out and install it in the new part. Tighten the nut with the wrench, but just snug, do not over tighten. Repeat the procedure with the other key switch.

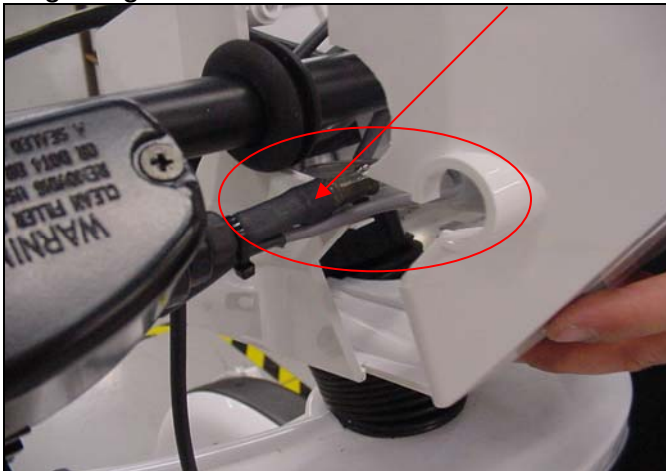


Note that the lock washer goes on the inside; the black gasket goes on the outside.

- 5.0 Install the rear of the new headset. Line the two large notches on the front on the part up with the large grommets on the handlebars. Install the two 7/16 bolts as shown here, but do not tighten them yet.

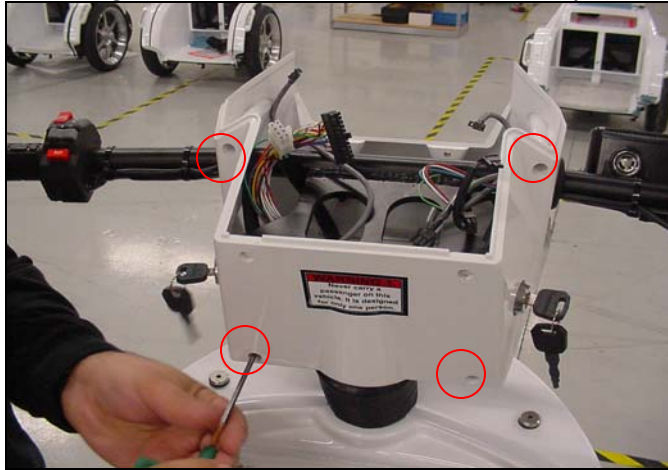


- 5.1 Use care getting the headset front over the brake line.

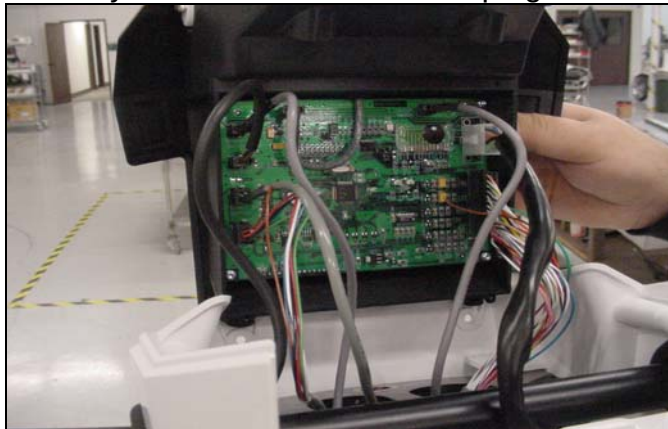




- 5.2 Install the four 5/32 Allen screws from the back of the headset. Start all four, but do not tighten until all are threaded. Do not over tighten them. Just make them tight enough to close the gaps between the front and rear. Once they are tight, go back and tighten the two 7/16 bolts from step 5.0.



- 6.0 Install the headset top assembly. Plug all the connectors into their respective receptacles. The circuit board is labeled at each connection. Trace the wires to their source if you are not sure where to plug them in.



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



- 6.2 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.



- 6.3 And these are the two on the front under the head light.



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



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