

## TorqueMaster idrive Gear Case Replacement Procedures

- 1.) Unplug Power cord from receptacle.
- 2.) Unwind Counterbalance springs and remove right hand bearing bracket.
- 3.) Open "S" hook on disengage cable and separate from cable end closed loop.
- 4.) Remove lag screws from mounting bracket and slide operator off tube to the right.
- 5.) Place operator on a flat work place.
- 6.) Compress motor cable latch between thumb and forefinger and pull straight out.
- 7.) Remove three cover screws as shown.
- 8.) Remove left and right side covers by gently prying top side of covers off chassis as shown.
- 9.) Unsnap pot gear screw using a 1/4" flat blade screw driver as shown, pull slightly to the left and lift out.
- 10.) Using a 1/8" - 3/16" flat blade screw driver, using a prying motion, carefully disconnect black and white wire from terminals.
- 11.) Disconnect two green ground wires from connectors located on the back side of the circuit board by placing a flat blade screw driver against the circuit board terminal and on the end of the connector, then knocking downward to disconnect the wire from the board terminal.
- 12.) While exerting a slight pulling force on the circuit board, compress the right side nylon stand-off downward ensuring the circuit board has cleared the "catch", then compress the left side nylon stand-off to the right and pull circuit board off stand-off. Pull left side off stand-off and carefully lift board out of chassis.
- 13.) Using a flat blade screwdriver to prevent the disengage cable retainer sleeve from spinning, loosen the disengage cable set screw using a 7/64" hex-key.
- 14.) Using a 3mm hex-key loosen and remove two motor retaining screws. Pull motor out from gear case.
- 15.) Compress four tabs retaining white sleeve (if present) and slide to the right from chassis and discard.
- 16.) Using a 1/4" flat blade screw driver, come down the inside of the white threaded sleeve on the left end of the operator. With the tip of the screw driver catch the edge of the black sleeve near one of the four alignment tabs. Holding the screw driver steady with a medium duty hammer strike the butt of the screw driver which will drive the black sleeve to the right releasing the two tabs that hold it in place.
- 17.) Remove e-clip retaining the disengage slider and the lower end of disengage spring hook from eyelet. Lift disengage slider out of guide slots.
- 18.) Lift the gear case out of the chassis.
- 19.) Install new motor/gear case in reverse order.

