1. Remove bumper 4-12mm bolts and rear flap by drilling 4 rivet heads off.

**Note:** For easy drilling, pull out mandrel head with vise grip from underside or carefully center punch mandrel head down inside pop-rivets. Drill with 7/32 bit. Carefully remove pop-rivet head.

2. To remove tail light from tunnel, remove 2 body plugs and two 10mm bolts. The tail light will hang out of the way.

3. Remove tunnel end cap by drilling out 13 rivets.

**INSTALLATION OF NEW TAPERED TUNNEL EXTENSION, BUMPER AND BUMPER SUPPORTS**

**Note:** To help keep alignment during drilling, insert rivets in each hole. (Don’t crimp!) After drilling always remove burs to insure flush fit.

1. Slide new tunnel extension outside of factory tunnel trim end of running board down to fit then clamp in place. Rivet holes on the top of tight fit on the side of tunnel, push up the sides of the new tunnel extension and re-clamp into place. This is necessary to achieve a tight fit. There should be no excessive gaps between the tunnel and the new tunnel extension.

2. Using lower factory holes from inside of tunnel, drill out using 3/16” bit. Installed rivets from the outside.

3. Install flap using the new tunnel extension are predrilled. Make sure rivet holes and cut outs line up. Rivet only the top of the tunnel into place.

4. To ensure 4 large headed rivets.

5. Install bumper and Bumper support plates using bumper holes in new tunnel extension. Bumper support plates are installed on the inside of the tunnel and tunnel extension. Mark and drill new holes thru the bumper support plates into the new tunnel extension and factory tunnel. This will mount the support plates securely to the factory tunnel and new tunnel extension. Installed rivets and bumper bolts, do not cross thread bumper bolts. **Note:** Use LOCTITE®


7. Give the snowmobile a good once over. CHECK YOUR WORK. Even the best wrenches can miss something. That’s why we double check everything. **Now you can use the bumper to support sled.**

**Note:** Anti-ratchet drivers are a must with big tracks to eliminate ratcheting!

Hartman Inc offers a full line of Yamaha Long Track Kits and a complete line of individual components, tunnel extension, rail extension, bumpers, hose covers, mounting kits for slide frame, and high performance gas shocks. We also stock a full line of Yamaha performance products.

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