

## METALTECH4x4 200 SERIES GHOST RIDER BUMPER V.1

Check over parts list and parts received.

### REMOVE ORIGINAL BUMPER

1.0 open hood and remove top cowl between grille and radiator. These are push fasteners. Push down to release and then pull out gently.



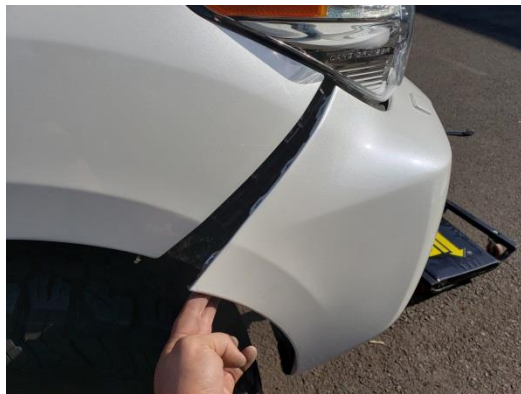
2.0 Remove 10mm bolts from top of grill to loosen.

3.0 Remove inner wheel lining using a T-30 Torx bit.

4.0 Undo Bumper's bottom 10mm and 12mm bolts

5.0 Pull bumper away from vehicle but do not remove fully.

5.1 Look for wire harness connections and release all connectors.



6.0 Clamp Headlight washer lines and then separate the hoses from the squirt nozzles.

7.0 From the top of the truck looking down over the grill remove bottom fasteners.

8.0 Remove bumper Cover.

9.0 Remove Bumper Absorber (17mm bolts)

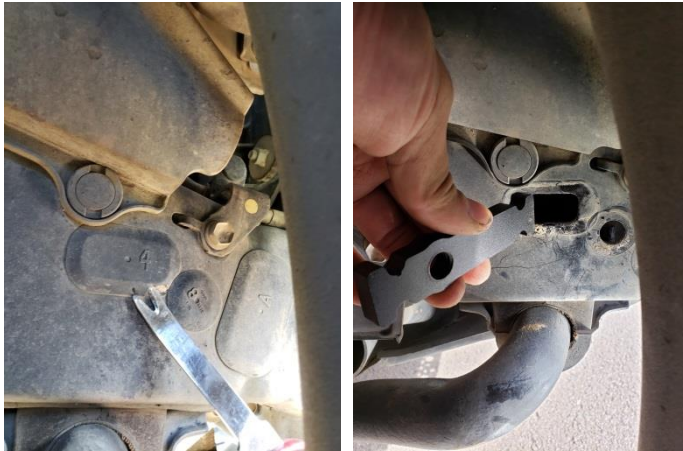
9.1 Remove Mount Brackets (14mm)

9.2 Remove Tow loop (17mm)



## INSTALL WINCH MOUNT

10.0 Install wedge connector for long bolt by removing rubber plug on side of frame.



11.0 Set Winch Mount on front of vehicle and attach with original 14mm nuts on the vertical surface and 17mm on the bottom. Do not fully tighten yet as you may need to move the winch mount side to side for alignment purposes later.



12.0 Insert the 19mm support rod into hole and grab the wedge connector you placed in the side earlier (step 10.0)





## CUTTING AND TRIMMING ORIGINAL BUMPER

- 13.0 Using Painters Tape tape off across the front of your bumper and then trim with as straight a cut as possible.



- 14.0 Install grille back onto your truck and cover the front with painter's tape or similar to prevent scratches when installing the bumper shell.



- 15.0 You can install your winch at this time onto the winch mount. Some winches may require clocking or trimming the clutch handle to clear the winch mount.
- 16.0 With Bumper shell off the vehicle install your Flange mounted LED lights.
- 17.0 Place Bumper Shell onto Winch Mount and install four ½ inch bolts in the front position holes. These holes will line up with the slots on the wings of the winch mount. Leave the rear hole open for now. Position the bumper with enough gap to allow for flex in the chassis and frame/bumper as

they flex independently. Move the winch mount side to side if needed (step 11.0). Check all areas of the bumper and do additional trimming of bumper as needed. When you are satisfied secure all four bolts. With the bolts secure if you are sure of the position mark the rear hole onto the wings of the winch mount. Remove the shell and drill a half inch hole into the wing support. This is your Position Lock Bolt. This will allow you to install the bumper shell quickly and easily whenever you take it off and prevent the bumper shell from moving when driving or coming into contact with obstacles.



18.0 Work backwards from Step 3 to reinstall wheel well lining (trim accordingly as needed), Grill Fasteners, and any electrical connections.

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