

Thank you for purchasing this item from **LOBO Off-Road!** Please read through this entire document before proceeding with installation. If you are not confident in your mechanical skills, please seek the help of a professional to perform the installation. Check your packages immediately upon arrival to ensure that everything listed is included, and to check for damage during shipping.



APPLICATIONS

These installation instructions apply to the following LOBO Off-Road Products:

F6-17-123B HNT HIDDEN WINCH SKID PLATE | BRONCO 2.3L

INCLUDED COMPONENTS

Please check your packages immediately upon arrival to ensure that everything listed is included, and to check for damage during shipping. If anything is missing or damaged, contact LOBO Off-Road.

- 1 HNT HIDDEN WINCH SKID PLATE
- 1 LOBO INTERCOOLER-SKID MOUNT - LEFT
- 1 LOBO INTERCOOLER-SKID MOUNT - RIGHT

HARDWARE KIT

- 6 M10-1.50 X 30MM BUTTON HEAD CAP SCREW
- 6 M10-1.50 EXTRUDED "U" NUT

TOOLS NEEDED

- 16MM & 18MM WRENCH, SOCKET & RATCHET
- 18MM CROW'S FOOT (OPTIONAL - SEE STEP 10)
- RECIPROCATING SAW WITH LING BI-METAL BLADE
- 4-INCH ANGLE GRINDER WITH GRINDING DISC AND/OR FLAP WHEEL
- BLACK TOUCH-UP PAINT
- BLUE THREAD LOCKING COMPOUND (LOCTITE® 242 OR EQUIVALENT)

INSTALLATION PROCEDURE

NOTE: Installation requires a winch with a control pack that may be remote mounted, synthetic winch rope, and

a standard sized aluminum hawse winch fairlead (all not included).

1. **Park the vehicle on** a flat, level surface and set the parking brake. It may be helpful to lift the rear of the vehicle and place it on jack stands for stability while working. Wear safety glasses from this point forward.
2. **Use a 16mm wrench** to remove the four (4) factory skid plate bolts. Set the factory skid plate aside.



Photo 01

3. **Use an 18mm wrench** to remove the two (2) bolts fastening the front diff mount to the crossmember.



Photo 02

4. **Use a reciprocating saw** to saw off the two chassis horns that protrude forward from the front crossmember.

ber, as shown in the photo. Note that the oil cooler shown in the photo will not be present on 2.3L models.



Photo 02

Being careful not to cut any nearby lines, hoses or wires, place the blade of the reciprocating saw as close to the chassis crossmember as possible and cut through each frame horn off as closely to the chassis crossmember as possible. Use a grinder or flap-wheel to grind the cut edges smooth. Use touch-up paint to coat the resulting bare metal and allow it to dry before proceeding.

5. **Working on one side** of the turbo intercooler at a time, use a 15mm wrench to remove the two (2) bolts attaching the intercooler mount to the vehicle frame.



Photo 03

Remove the intercooler mount from one side only, leaving the rubber grommet attached to the mounting foot of the intercooler.

6. **Apply a drop of** blue threadlocker compound (Loctite® 242 or equivalent) to the OE intercooler mount bolts and re-insert them into the threaded holes

on the vehicle's frame rail. Leave about 1/2" to 5/8" of threads showing under the bolt heads as shown.



Photo 04

7. **Install a m10-1.50 Extruded "U" Nut** into place on each of the three hole locations on the sides of the Intercooler-skid mounts. Orient them so that the surface of the clip nut is flat against the outer surface of the bracket, with the threaded barrel of the clip nut on the inner surface, as shown in the image in the next step. It will be a tight fit due to the thickness of the bracket and may require a light tap with a dead blow hammer to tap the clip nut into place.
8. **Identify the correct Lobo** Intercooler Mount for whichever side of the vehicle you are working on and install it in place of the OE intercooler mount. It will be necessary to apply slight upward pressure to the intercooler as the mount is slid into place under the bolt heads.



Photo 05

It will be necessary install the mount at an angle, slotting it onto the the bolts one at a time then working the mount into place.



Photo 06

- 9. Push the mount upward** onto the rubber grommet on the intercooler's mounting foot and ensure that the intercooler is properly seated into the mount as the bolts are tightened.



Photo 07

- 10. Use an 18mm wrench** to tighten the two intercooler mount bolts. It may be useful to use a crow's foot and

ratchet extension if installing the skid without removing the bumper.



Photo 08

- 11. Repeat the procedure to** remove the opposite side OE intercooler mount and replace it with the LOBO Intercooler Mount.

- 12. OPTIONAL: One of the** two rearward OE skid plate bolts (15mm head) is not reused in it's original position. However, it may be reused in an optional location at the discretion of the installer. To do so, pre-install the LOBO Skid Plate using one of the OE skid plate bolts (15mm head) and both OE diff mount bolts (18mm head). Use a center punch or felt marker to mark a hole location in the factory steel diff skid, through the provided extra hole in the LOBO Skid Plate as shown below. Mock up skid bolting with 1 15mm and both 18mm. trace hole. Remove skid and engine skid and drill

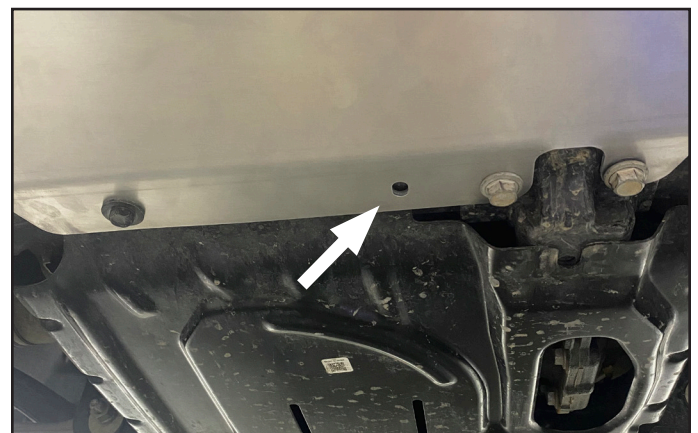


Photo 09

Remove the LOBO Skid Plate and steel factory steel diff skid, and use a drill motor with 5/16" drill bit to

drill a hole in the steel diff skid in the marked location. Reinstall the steel diff skid.

- 13. Note that the HNT Hidden Winch Skid Plate** requires the use of a winch with a remote-mounted control pack. If your winch came with the control pack attached to the winch, detach it according to the winch manufacturer's instructions. Locate a suitable location to mount the control pack, where it will be within reach of the winch via the cables that were included with the winch. Also make sure the control pack is in a location that is accessible for operation. Lobo Off-Road does not provide a mounting bracket or suggest a location for mounting the control pack. This is left to the installer's discretion.

NOTE: Some installers have reported success installing with the control pack still attached to the winch, on 2.3L equipped Broncos, by physically pushing various lines and wires out of the way. The installer may choose to do so at his/her own discretion and risk. Lobo Off-Road neither recommends nor warrants this mounting strategy to be possible or trouble-free.

- 14. Bolt the winch to** the HNT Hidden Winch Skid Plate using the hardware and instructions provided by the winch manufacturer.

- 15. Install your winch fairlead** to the HNT Hidden Winch Skid Plate using the hardware and instructions provided by the fairlead manufacturer. Lobo Off-Road recommends our HNT Winch Fairlead for high clearance, however any standard winch fairlead will match the provided mounting holes.

- 16. Pass the winch rope** through the fairlead and attach your hook or thimble to keep the rope from falling back through the fairlead during installation of the skid plate.

- 17. Place the winch and** skid assembly on a floor jack or blocks, underneath the front of the vehicle close to where it's final installed location but low enough to complete the electrical cable connections between the winch and the control pack. Ensure that cables are secured from vibration and moving engine/drivetrain components.

- 18. Lift the winch and** skid assembly into place and re-use each of the OE skid plate bolts as well as the six (6) supplied M10-1.50 X 30MM button head cap screws to attach the Skid to the Intercooler Mounts. It

may be necessary to use the floor jack to assist with lifting the skid into place and applying upward pressure to the skid plate to align the fastener holes correctly.

- 19. Firmly tighten all fasteners.**

- 20. Follow the winch manufacturer's** instructions for proper and safe operation of the winch.

Congratulations! You have completed the installation! Keep reading for important information from LOBO Off-Road, and keep these instructions for future reference.