WINCH/WINCH PLATE
INSTALLATION INSTRUCTIONS

Max II

Requirements:
Max II

Tools Required:
- Drill Motor
- 1/4" Drill Bit
- 13/32" Drill Bit
- 11/32" Drill Bit
- 3/16" Drill Bit
- 9/16" Socket
- Center punch
- 9/16" Wrench
- Ratchet
- Scribe
- Wire Cutters
- Felt Tip Pen
- Black Paint
- 1/2" Socket
- 7/16" Socket
- 7/16" Wrench
- 3/8" Wrench
- 5/16" Wrench
- Pliers
- 3/4" Spade Bit

Procedure:
1. Read through all instructions and identify all necessary parts.
2. Raise the Max II body. Also, remove the center bolt and wing nut from the front of the vehicle. This bolt and wing nut will be discarded.
3. Disconnect negative (ground) cable from the battery.
4. Place the winch mounting bracket in the center of the front of the body, resting on the front lip. See Figure III Front View.
5. Mark the four holes on front grill area of the body with a felt tip pen.
6. Remove winch plate and again check to be sure plate will be centered on body when holes are drilled.
7. Drill holes with the 1/4" drill bit and the re-drill them with the 13/32" drill bit.
8. Place the back plate on the inside of the body. Place washers in the indentation in the body between the back plate and the front area on the indent. See diagram.
will be 7 washer for the bottom two holes and 5 washers for
the top two. See Figure III Top View.

Note: Wrap the washers with some tape to secure them
together as one large spacer. This will ease installation.

9. Place a 3/8" flat washer on each bolt and slide the four
bolts through the back plate, washers (installed in step 8),
front of body, and winch mounting bracket. See Figure III
Side View.

10. Place a 3/8" lock washer on each bolt followed by a nut.
Tighten the nuts down with a socket and a wrench.

11. Using the four holes in the base of the winch plate as
guides, drill two 13/32" and two 11/32" holes through the
upper and lower body. Take the reinforcing bar and place
it under the lip on the front of the vehicle so the holes
drilled line up with the holes in this bar. Using the 3/8"
bolts, washers, and nuts supplied, fasten the winch plate to
the reinforcing bar. Tighten the nuts down. See Figure III.

12. Remove the winch, roller fairlead assembly, and the
fairlead mounting plate from the winch box. Also, locate
and open the hardware kit in the winch box.

13. Mount the winch and fairlead mounting bracket to the
winch mounting bracket using two 5/16-18 x 1" bolts and
two 5/16-18 x 1 1/2" bolts and lock washers. The two
5/16-18 x 1 1/2" bolts and lock washers go up through the
reinforcing bar, the body lip, the winch mounting plate, the
fairlead mounting plate, and into the base of the winch.
The two 5/16-18 x 1" bolts and lock washers go up through
the front holes on the winch mounting bracket, the fairlead
mounting bracket and into the front holes in the base of the
winch. See Figure V.

Note: The winch is to be oriented such that the motor is on
the right side (passenger side) of the vehicle.

14. Place the winch support bracket over the winch so the holes
line up with the winch mounting bracket and the fairlead
mounting bracket. Install two 3/8" – 16 x 1" bolts, lock
washers, and nuts into the holes at the top of the winch
mounting bracket. Leave these nuts hand tight. See
Figures IV and V.
15. Place the roller fairlead (with the warning label facing up) on the front of the winch support bracket. Line up the holes with the fairlead, the fairlead mounting bracket, and the winch support bracket. Using two 3/8-16 x 1” bolts, lock washers, and Jam nuts, secure the roller fairlead to the fairlead mounting bracket and the winch support bracket. Tighten these down as well as the two 3/8” bolts installed at the top of the winch support bracket in step 14. See Figure V.

16. Feed the winch cable through the roller fairlead and install the hook to the end of the cable.

17. Locate the solenoid in the winch kit. The solenoid is to be mounted on the front, left side of the bulkhead. See Figure IV for the mounting hole locations. Mark the location on the bulkhead and drill two 3/16” holes. Touch up these holes with black paint to avoid corrosion. Mount the solenoid to the bulkhead using the supplied hardware.

18. Make a mark with the felt tip pen at the center of the second raised rib on the grill area of the right side (passenger side) of the vehicle. See Figure I. Drill a ¾” hole using the Spade drill bit. Insert the plastic grommet supplied with the winch mounting kit into this hole. This hole will be used for the winch wires.

19. Refer to steps 3, 4, and 5 in the Warn Manual for proper wiring instructions. Also, refer to Figures I and II.

Note: The winch switch is to be mounted on the lower body above the center of the left front tire. The ¼ - 20 x 1 1/2” bolts must go up through the lower body and into the switch mounting holes with the lock nut on the inside of the body to avoid any possible rubbing against the tire.

20. Using the supplied cable ties, secure the wires so they are clear of any moving parts and sharp edges. Use the supplied wire loom against any sharp edges if necessary.

21. Double check all wire connections and re-connect the negative battery cable.

22. Refer to step 6 and the Operating Instructions in the Warn Manual.
Figure 1
Figure III

Figure IV
Figure V