

# WINCH/WINCH PLATE INSTALLATION INSTRUCTIONS

## Max II

WarnWinch maxII.doc  
10/22/01  
P/N 63168 REV A0

### Requirements:

Max II

### Tools Required:

Drill Motor	9/16" Wrench	1/2" Socket
1/4" Drill Bit	Ratchet	7/16" Socket
13/32" Drill Bit	Ruler	7/16" Wrench
11/32" Drill Bit	Scribe	3/8" Wrench
3/16" Drill Bit	Wire Cutters	5/16" Wrench
9/16" Socket	Felt Tip Pen	Pliers
Center punch	Black Paint	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. There

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 3/4" 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 1/4 - 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.

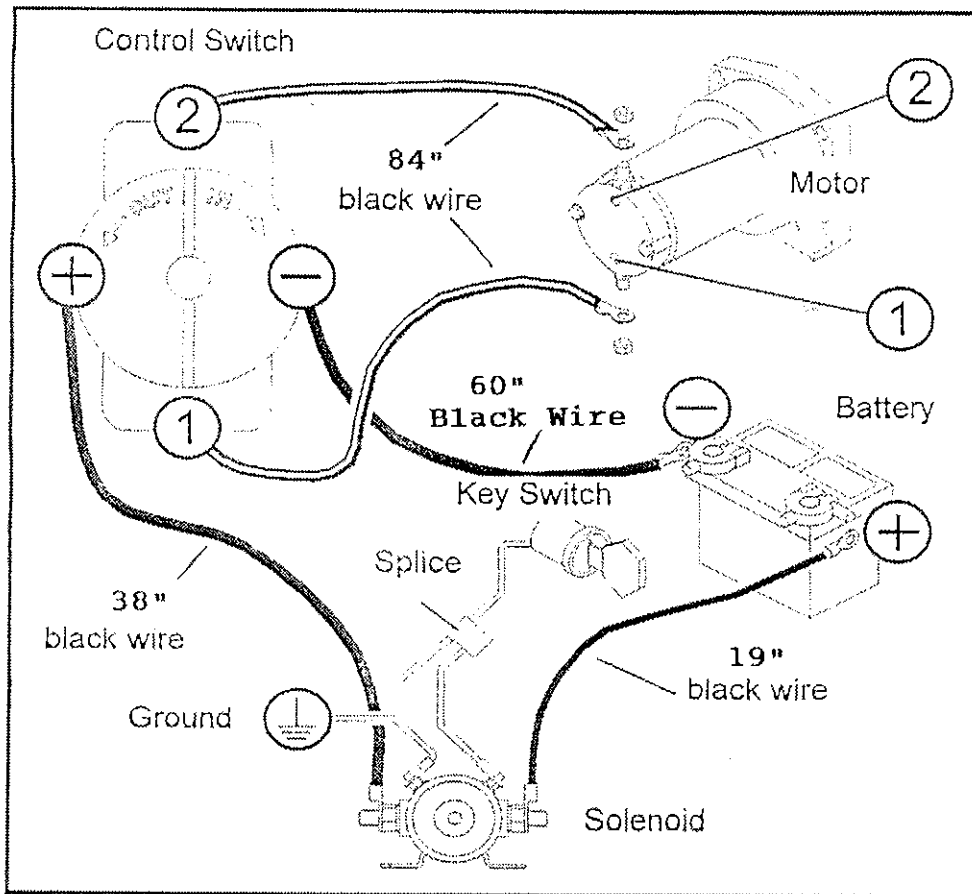


Figure I

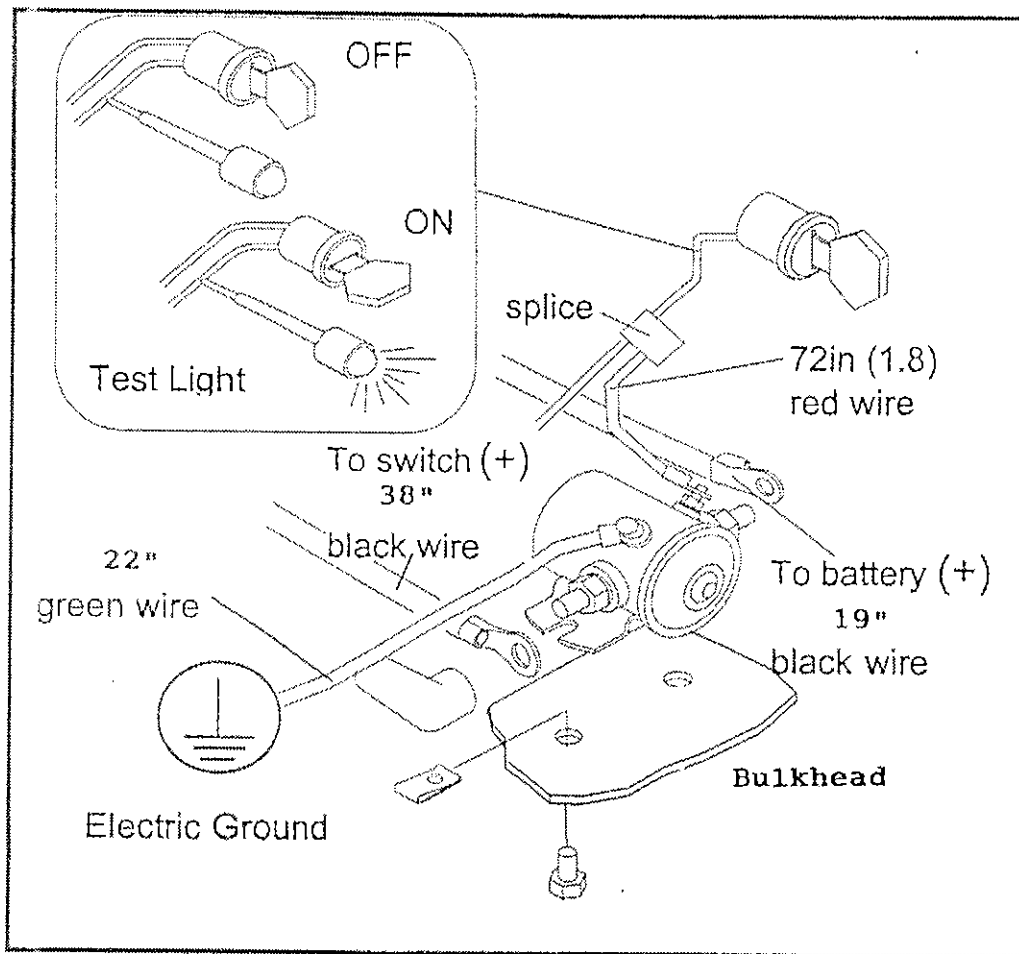
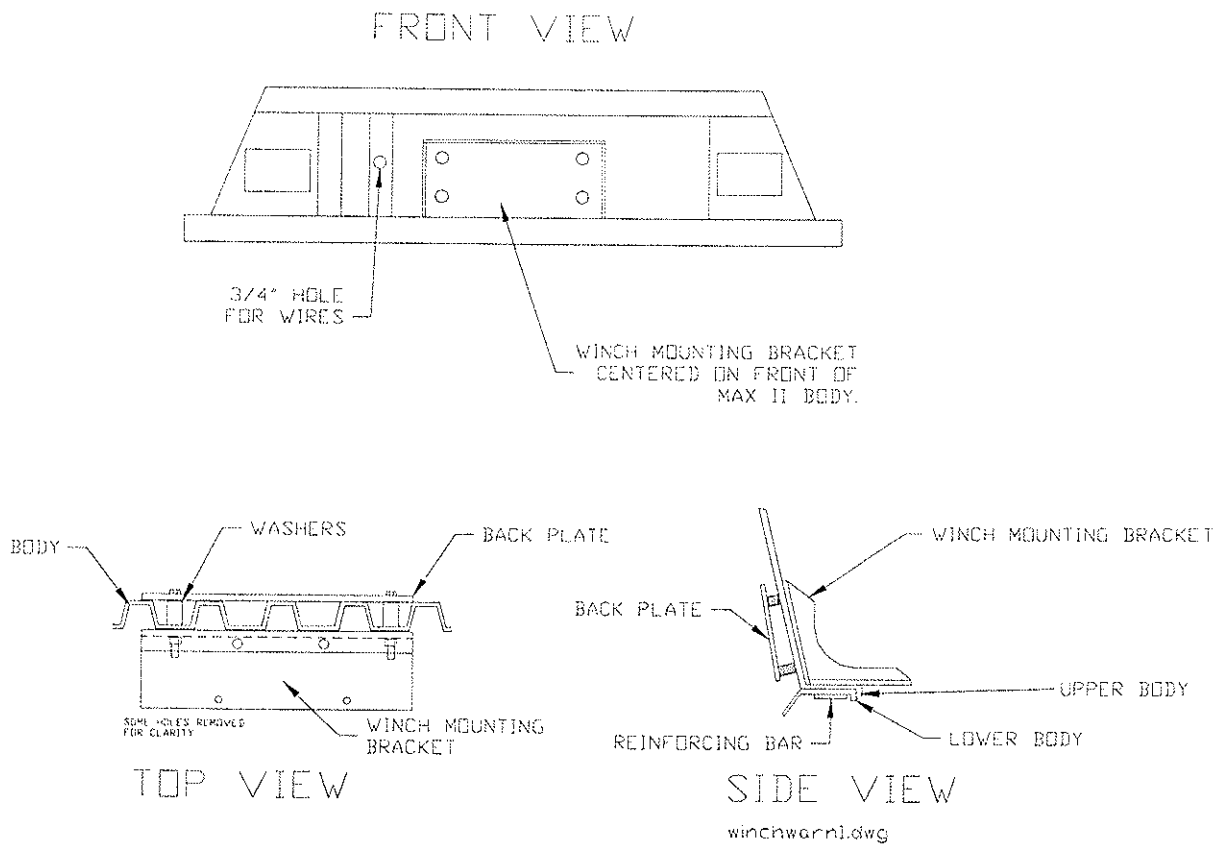
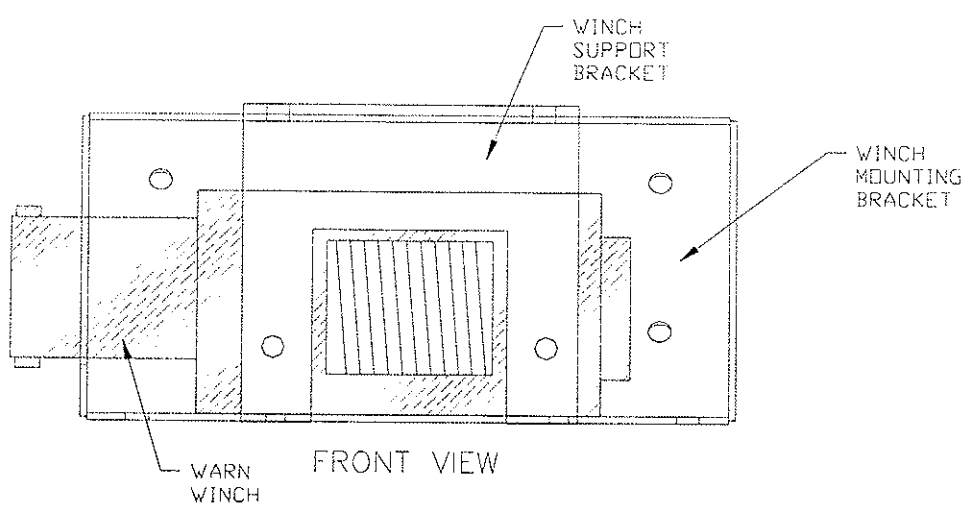


Figure II

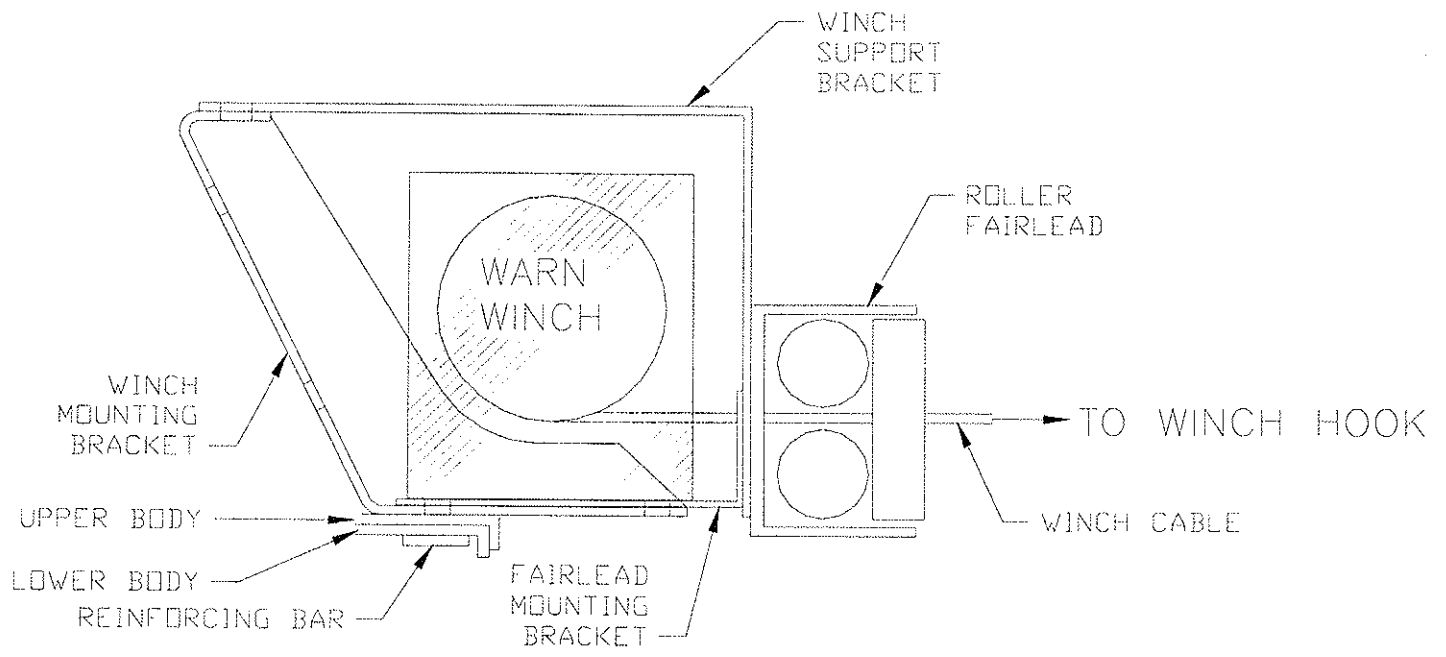




**Figure III**

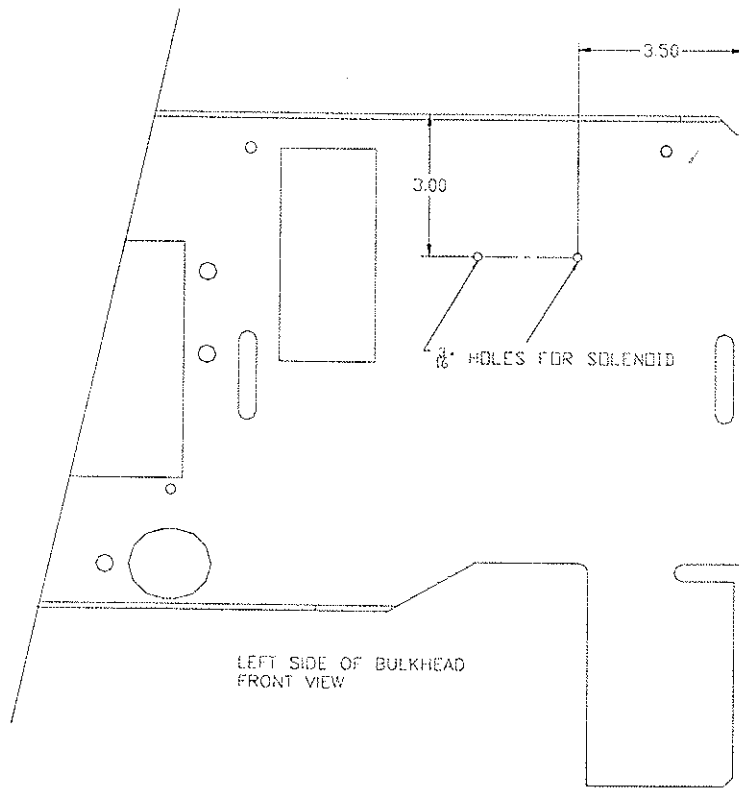


**Figure IV**



SIDE VIEW

Figure V



**Figure VI**