

Fisher Engineering

P.O. Box 529 Rockland, Maine 04841

7158

7166

September 1, 2005
Lit. No. 27638, Rev. 01



MOUNT KIT

Toyota Tacoma (7158)

1995 1/2 - 00

Toyota Tacoma (7166)

1998 - 04

Installation Instructions

⚠ CAUTION

Read this document before installing the snowplow.

⚠ CAUTION

See your FISHER® outlet for application recommendations. The Kit Selection Guide has specific vehicle and snowplow requirements.

SAFETY DEFINITIONS

WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious personal injury.

CAUTION

Indicates a potentially hazardous situation that, if not avoided, could result in damage to product or property.

NOTE: Identifies tips, helpful hints, and maintenance information the owner/operator should know.

SAFETY PRECAUTIONS

Improper installation and operation could cause personal injury, and/or equipment and property damage. Read and understand labels and the Owner's Manual before installing, operating, or making adjustments.

WARNING

Lower blade when vehicle is parked. Temperature changes could change hydraulic pressure, causing the blade to drop unexpectedly or damaging hydraulic components. Failure to do this can result in serious personal injury.

WARNING

Remove blade assembly before placing vehicle on hoist.

WARNING

The driver shall keep bystanders clear of the blade when it is being raised, lowered or angled. Do not stand between the vehicle and the blade or within 8 feet of a moving blade. A moving or falling blade could cause personal injury.

WARNING

Keep hands and feet clear of the blade and A-frame when mounting or removing the snowplow. Moving or falling assemblies could cause personal injury.

WARNING

Do not exceed GVWR or GAWR including blade and ballast. The rating label is found on driver-side vehicle door cornerpost.

CAUTION

Refer to the Kit Selection Guide for minimum vehicle recommendations and ballast requirements.

CAUTION

To prevent accidental movement of the blade, always turn the ON/OFF switch to OFF whenever the snowplow is not in use. The control indicator light will turn off.

PERSONAL SAFETY

- Wear only snug-fitting clothing while working on your vehicle or snowplow.
- Do not wear jewelry or a necktie, and secure long hair.
- Wear safety goggles to protect your eyes from battery acid, gasoline, dirt and dust.
- Avoid touching hot surfaces such as the engine, radiator, hoses and exhaust pipes.
- Always have a fire extinguisher rated BC handy, for flammable liquids and electrical fires.

FIRE AND EXPLOSION

WARNING

Gasoline is highly flammable and gasoline vapor is explosive. Never smoke while working on a vehicle. Keep all open flames away from gasoline tanks and lines. Wipe up any spilled gasoline immediately.

Be careful when using gasoline. Do not use gasoline to clean parts. Store only in approved containers away from sources of heat or flame.

VENTILATION




WARNING

Vehicle exhaust contains deadly carbon monoxide (CO) gas. Breathing this gas, even in low concentrations, could cause death. Never operate a vehicle in an enclosed area without venting exhaust to the outside.

TORQUE CHART

CAUTION

Read instructions before assembling. Fasteners should be finger tight until instructed to tighten according to the torque chart. Use standard methods and practices when attaching snowplow including proper personal protective safety equipment.

Recommended Fastener Torque Chart (Ft.-Lb.)			
Size	 SAE Grade 2	 SAE Grade 5	 SAE Grade 8
1/4-20	6	9	13
5/16-18	11	18	28
3/8-16	19	31	46
3/8-24	24	46	68
7/16-14	30	50	75
1/2-13	45	75	115
9/16-12	66	110	165
5/8-11	93	150	225
3/4-10	150	250	370
7/8-9	150	378	591
1-8	220	583	893
Metric Grade 8.8 (Ft.-Lb.)			
Size	Torque	Size	Torque
M 6	7	M 12	60
M 8	17	M 14	95
M 10	35	M 16	155
These torque values apply to fasteners except those noted in the instruction.			

INSTALLATION INSTRUCTIONS

1. Remove and discard the tow hook and both tie-down brackets.
2. Align the holes in top-front portion of driver-side pushplate with holes in frame from the removed tie-down bracket. Fasten the pushplate to the frame with two M12 x 1.25 x 40 cap screws and lock washers.
3. Some vehicles have wiring clips that must be removed. Bend the clips out to allow enough clearance for the bolting bar.

Place the bolting bar over top of frame, above the holes on the rear of the pushplate. Attach the bolting bar to the pushplate with two 1/2" x 5-1/2" cap screws, and locknuts.

4. Attach angle brace to front holes in pushplate with two 3/8" x 1" cap screws, flat washers and locknuts.
5. Repeat Step 2 for passenger-side pushplate.
6. Attach angle bracket to rear pads on pushplates with four 3/8" x 1" cap screws and locknuts.

- Measure the distance between the connecting pin arms on pushplates. This distance should be 25-5/8" center-to-center. Take a second measurement farther back on the arms to ensure they are parallel. Adjust if necessary and tighten front and rear angle fasteners. Check 25-5/8" measurement again, then tighten remaining fasteners.

⚠ CAUTION

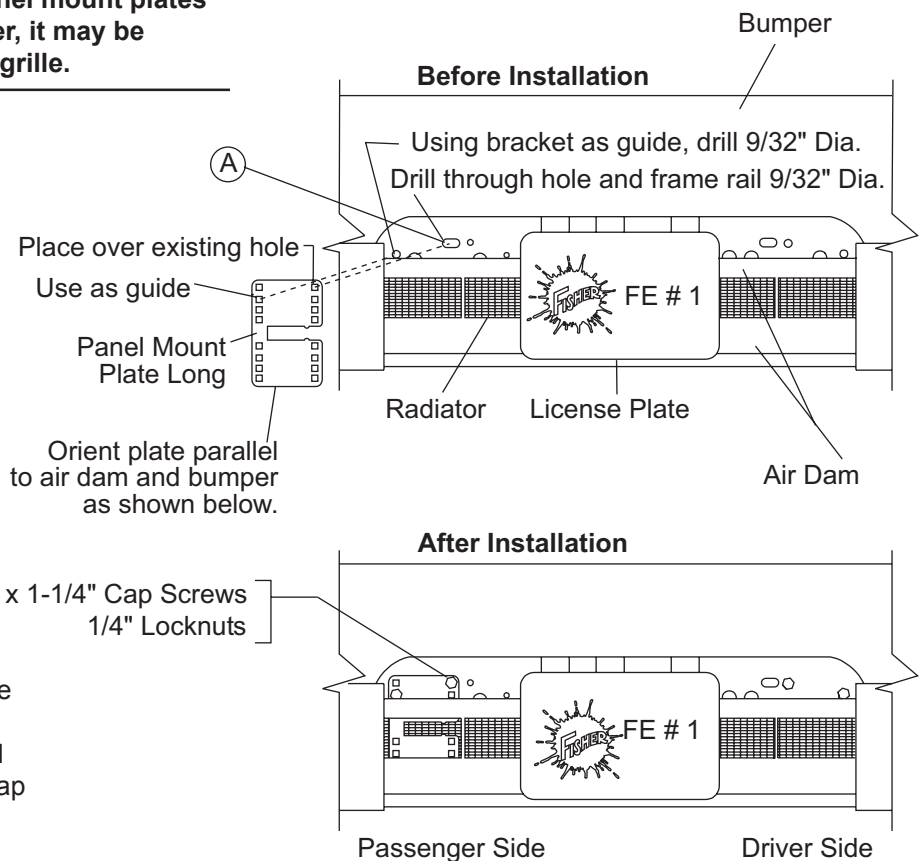
On 1997–2000 vehicles: Make sure the bolting bar is pushed away from and not rubbing against any hoses when tightening the 1/2" fasteners on the rear of the pushplate. Reposition hose and use anti-chafing material if interference still exists. Tighten and refasten the wiring clips.

NOTE: After five to ten hours of snowplow usage, retorque all pushplate assembly fasteners.

PANEL MOUNTING PLATE INSTALLATION

NOTE: To make installing the panel mount plates and vehicle cable assembly easier, it may be necessary to remove the vehicle grille.

- Locate hole A in the illustration below. Using this hole as a guide, drill a 9/32" diameter hole through the back frame rail.
- Temporarily install the long panel mount plate using a 1/4" x 1-1/4" cap screw and 1/4" locknut. Using this plate as a guide, mark your second mounting hole. Remove the plate and drill the hole.
- Install plug cover (not shown) according to the Headlamp Kit instructions. Install vehicle cable assembly plug (not shown) in panel mount plate. Mount panel mount plate with 1/4" x 1-1/4" cap screws and 1/4" locknuts.



Fisher Engineering reserves the right under its product improvement policy to change construction or design details and furnish equipment when so altered without reference to illustrations or specifications used. Fisher Engineering and the vehicle manufacturer may require and/or recommend optional equipment for snow removal. Do not exceed vehicle ratings with a snowplow. Fisher Engineering offers a limited warranty on the snowplows and accessories. See separately printed page for this important information. The following are registered (®) trademarks of Douglas Dynamics, L.L.C.: FISHER®, Minute Mount® 2.