

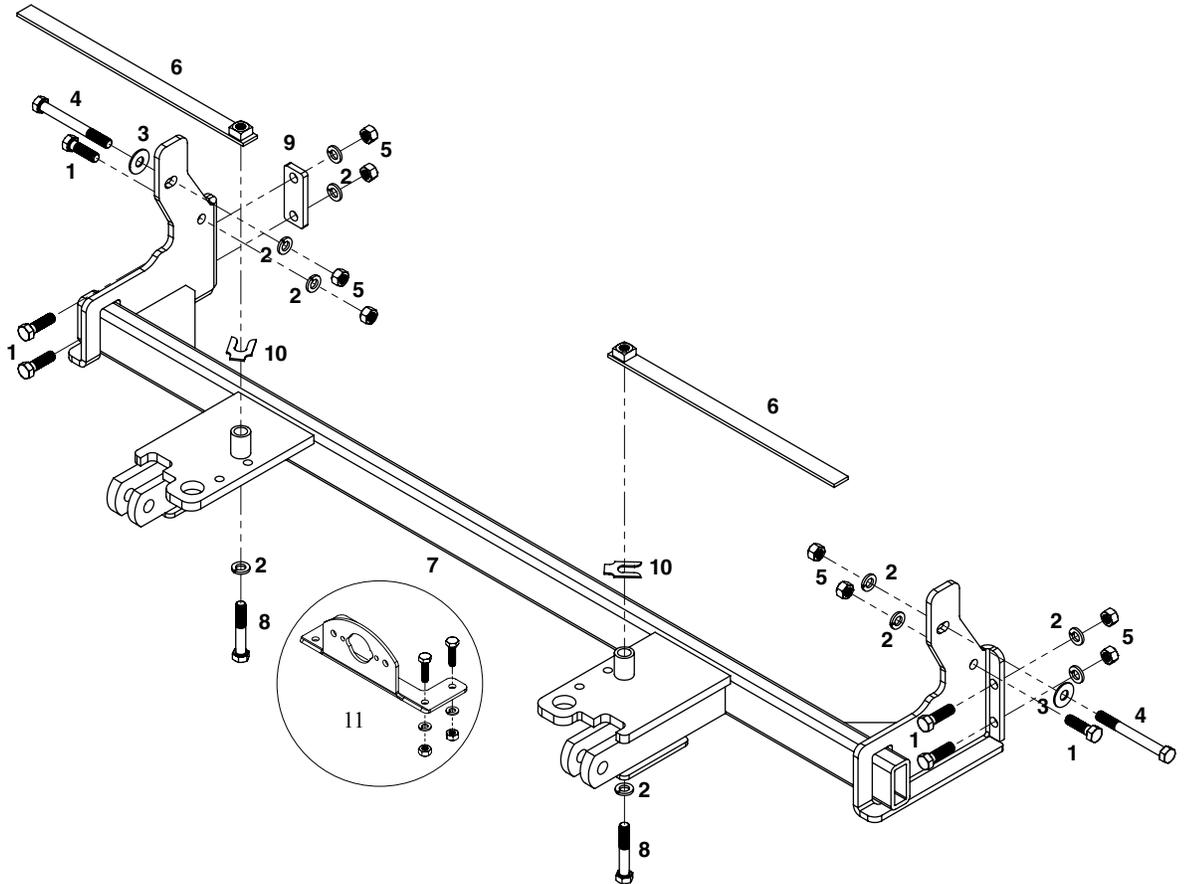


Toyota Matrix &
Pontiac Vibe



BASEPLATE

Pin Height - 15" Center - 24"



9518228 PARTS LIST

REF. NO.	PART NO.	QTY.	DESCRIPTION
1.	00523	6	3/8" x 1-1/4" Bolt Gr.5
2.	00060	10	3/8" Lock Washer
3.	00059	2	3/8" Flat Washer
4.	01903	2	3/8" x 3-1/2" Bolt Gr.5
5.	00061	8	3/8" Hex Nut
6.	13045-76	2	Nut Strip
7.	13044-76	1	Base Plate
8.	02494	2	3/8" x 2-1/4" Bolt Gr.5
9.	13046-76	1	Frame Spacer
10.	10280	2	Shim
11.	5937	1	Plug Mount Kit
12.	12329	1	Loctite(not shown)

Please order replacement parts by PART NO. and DESCRIPTION.

ASSEMBLY
OPERATION
REPLACEMENT PARTS

READ complete manual CAREFULLY
BEFORE attempting operation.

Doing Our Best to Provide You the Best

WARNING: FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN LOSS OF TOWING VEHICLE CONTROL, SEPARATION OF THE TOW BAR FROM THE TOWING VEHICLE, SEPARATION OF THE TOWED VEHICLE FROM THE TOW BAR, CAUSING SEVERE PERSONAL INJURY, DEATH, OR PROPERTY DAMAGE.

CAUTION

Safety is of utmost importance at all times. There are several items that must be checked each time before using and while using a tow bar.

Before allowing anyone to hook up or operate a tow bar, be sure they have read and understand the proper operating procedure.

DO NOT use worn or damaged cables and/or pins.

Be sure the **SAFETY CABLES** are hooked, chassis to chassis, to both the towing and towed vehicles using the crisscross method.

Check clearance between vehicles in a turning situation.

Check base plate mounting bolts for tightness and frame for metal fatigue.

Do not load the towed vehicle with anything as you may exceed the towing capacity of the tow bar.

Keep fingers away from pivot points to prevent personal injury.

Be sure the steering components of the towed vehicle are properly aligned.

Demco baseplates are designed for use on factory vehicle suspension setups. Demco baseplates are not recommended for use on modified suspensions lowered or raised. Towing vehicle must be larger and at least 500 lbs. heavier than the towed vehicle and tow bar combined.

NOTE: This unit can be backed up in moderate increments. Any severe backwards cornering could result in damage to the Tow Bar and/or towed vehicle chassis.

For automatic transmissions: Consult your vehicle owners manual for towing suitability with the drive shaft connected. Otherwise, the towed vehicle will have to be equipped with a transmission pump or drive shaft disconnect.

Check to make sure that all lights are in proper working order.

The information on towability of vehicles is reprinted with permission of MotorHome® Magazine, and is believed to be reliable. However, **Demco does not** warrant the information to be correct. Always consult your towed vehicle owner's manual and follow towing instructions. Each year, **MotorHome® Magazine,** compiles a list of vehicles that can be towed four-down behind a motorhome with no modifications required.



Caution: MotorHome® Magazine left out any vehicles that have towing speed limits slower than 55 m.p.h., or distance limits of less than 200 miles. At a minimum, these vehicles require significant modification, such as the use of an aftermarket product, to make them towable. The availability of a **Demco Tow Bar Base Plate does not** imply that these vehicles can be modified or that there is an aftermarket product available. Refer to your vehicle owner's manual or consult your dealer to determine whether your vehicle can be modified to make it towable. Failure to observe this precaution could result in property damage or personal injury.

IMPORTANT INSTALLATION ITEMS

DEMCO products and accessories are intended to be installed by professional installers with experience, proper equipment and the ability to do modification work. Installers with these qualifications can be found in RV and Automotive Service Centers.

If the car to be towed has been in an accident, the chassis may be damaged in an area where the Base Plate attaches. It may no longer be suitable for towing. Extreme caution and careful examination are required in such a situation. It is also likely, even from a minor accident, that the hole alignment will be more difficult due to hole alignment problems.

Many DEMCO Base Plates are designed to use existing holes and hardware to mount the Base Plate to the towed vehicle. Even though the bolt is there, however, do not assume it is adequate for mounting the Base Plate. Manufacturers make many changes in hardware both within and between model years. Be sure the bolt is long enough to protrude past the nut a distance no less than 1/2 the diameter of the bolt, after the Base Plate is mounted. The threads should be in good condition. **We require that “LOCTITE® Blue” be used on all bolts.** If a new bolt is required, be sure it is SAE Grade 5 or Metric 8.8.

NOTE: The dimensional variations between otherwise identical vehicles can be considerable. Some minor modifications may have to be made to ensure a proper fit.

BOLT TORQUE SPECIFICATIONS

STANDARD BOLTS:			METRIC BOLTS:		
Size	Grade	Torque	Size	Grade	Torque
5/16"	5	18 ft/lbs	8mm	8	23 ft/lbs
3/8"	5	30 ft/lbs	10mm	8	45 ft/lbs
7/16"	5	50 ft/lbs	12mm	8	78 ft/lbs
1/2"	5	75 ft/lbs	14mm	8	125 ft/lbs

INSTALLATION INSTRUCTIONS



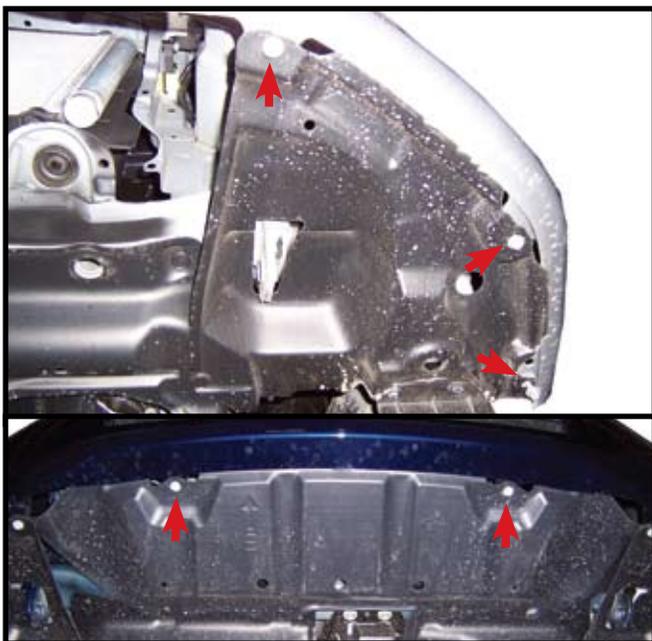
1. Open hood and remove two bolts (some models will have three), and three plastic push fasteners on top of facia.



3. Remove two plastic push fasteners from facia to bottom of bumper.



- 1A. **LATE MODEL MATRIX** Open hood and remove two bolts (screw in bumpers), and three plastic push fasteners on top of facia.



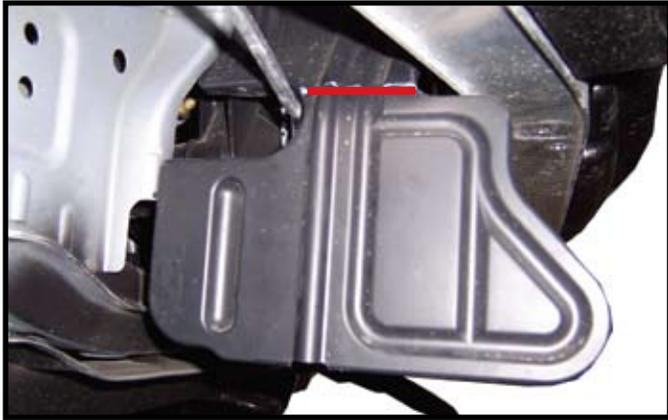
2. Remove six screws from bottom of facia to wheel well extension, three on each side. Models with center filler panel, remove two screws from front facia to panel.



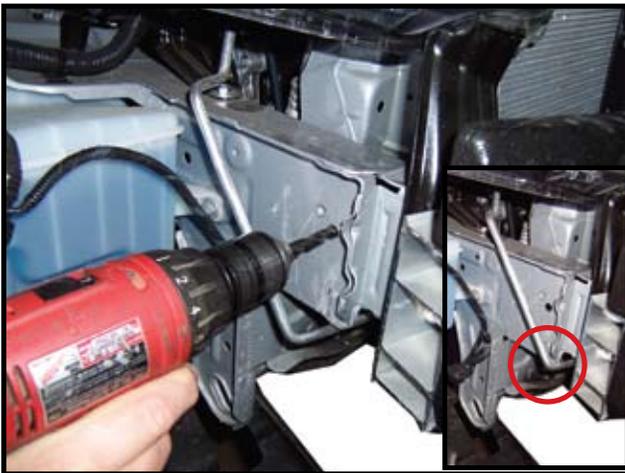
4. Remove one plastic push fastener and release bottom plastic fastener from each side, facia to fender.



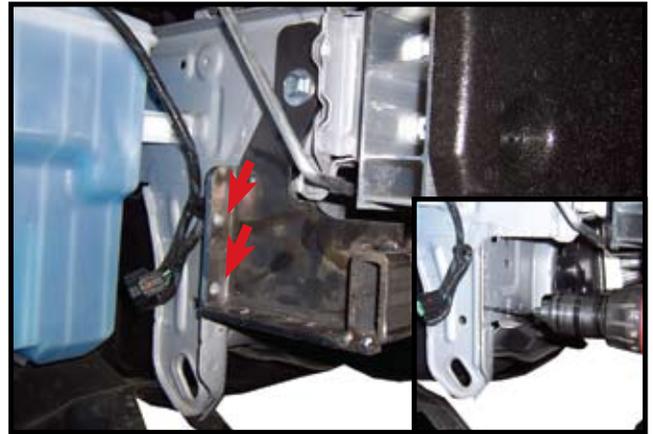
5. Unplug fog lights if equipped, and pull fascia out by fenders and carefully slide fascia forward to remove.



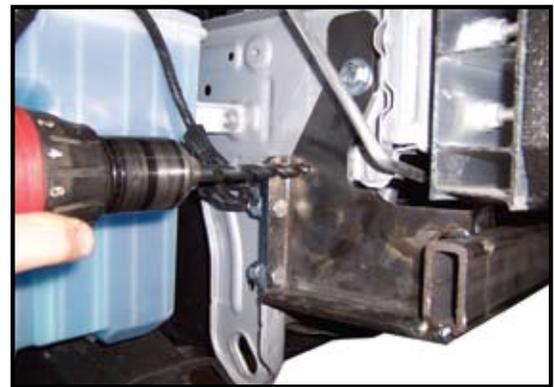
6. **IF EQUIPPED** Cut both side plastic radiator shrouds flush with bottom of bumper and remove cut portions.



7. Drill 13/32" hole on each side through existing hole in frame, as shown in picture. Bend cooler line toward bumper as shown in picture. **NOTE:** When drilling, be careful of the AC lines.



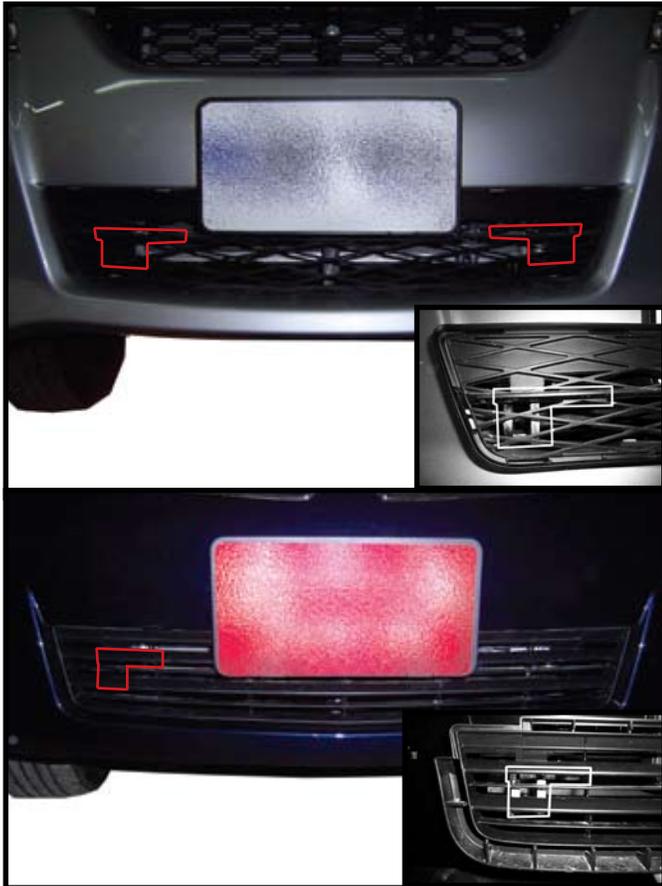
8. With an assistant, slide base plate up on outside of frame and line up holes and clamp in place. If hole on passenger side don't line up, spacer will need to be used between car frame and baseplate. Install 3/8" x 3-1/2" bolts, 3/8" flat washers, 3/8" lock washers and 3/8" hex nuts. Mark two rear holes of base plate on each side. Remove base plate and drill four 3/8" holes that were marked. **Note:** Move wiring out of the way, so not to drill through.



9. Reinstall base plate and fasten with previously installed fasteners and four 3/8" x 1-1/4" bolts, 3/8" lock washers and 3/8" hex nuts. **NOTE:** Use Blue **LOCTITE** on all bolts and torque bolts according to the chart on front page. Drill the remaining side holes using base plate as template. Fasten with 3/8" x 1-1/4" bolts, 3/8" lock washers and 3/8" hex nuts.



10. Drill 13/32" holes through bumper using base plate as template. Slide nut strips through sides of bumper and fasten using 3/8" x 2-1/4" bolts and 3/8" lock washers. (Use include shims between baseplate and bumper if there is a gap and tighten.)



11. Cut fascia grill bars as shown for pull ears to pass through. Use baseplate to measure from for cutting lower grill. Reinstall fascia and hardware. (Lower fascia grill was removed for demonstration of where pull ears will pass through.)
12. Plug mount (item #11) may be installed if desired in convenience holes on either chain anchor or as desired. **NOTE:** Excess material may be trimmed from bracket.