



Deuce Installation Instructions

HARDWARE KIT:

Upper Mounting Plate:

- 2 - 7/16" (11mm) X 2.25" bolts
- 2 - 7/16" lock nuts
- 2 - 7/16" flat washers
- 2 - 2" spacers
- 2 - 7/16" trim cap mounting washers
- 2 - plastic trim caps

Foot Plate Mounting:

- 2 - upper front back-up plates
- 2 - lower front back-up plates
- 2 - rear brace back-up plates
- 14 - 3/8" x 1.25" bolts
- 14 - 3/8" lock nuts
- 28 - 3/8" flat washers

TOOLS NEEDED:

- safety glasses
- wrenches
 - 16mm or 5/8"
 - '94 & later - 17mm or 11/16"
 - 2 - 9/16"
 - 10mm
- ratchet w/ 3" extension and 11/16" socket
- hack saw or aviation snips for cutting package shelf and interior panels
- #2 phillips head screwdriver
- drill w/ 3/8" & 7/16" drill bits
- jack and jack stands
- belt sander or half round file for fitting plastic interior panels

Hardtop and ABS only:

- t-40 torx drive for removable hard top latches
- 3/4" hole saw for abs harness relocation

1) This step is my favorite part: PUT THE TOP DOWN! Also unhook the battery cable.

2) REMOVE THE TRIM PANELS COVERING THE SEAT BELT TOWERS. (THESE PIECES ARE CALLED QUARTER TRIM BY MAZDA.)

First remove the metal cap at the top of the panel just behind the door. This is held in place by a threaded fastener that is used to attach the top boot (10mm) and a Phillips head screw on the pre '99 cars. The '99 version is similar but an extra rubber molding has been added that is held in place by a plastic insert inside the top of the door jamb and another under the lip of the body just behind the door.

Remove the weather-stripping that runs along the front edge of the trim panel at the rear of the door opening. (you might find it necessary to loosen the 4 Phillips head screws in the scuff plate that runs along the bottom of the door sill on some early models)

Remove the plastic cover from the shoulder harness guide (it just snaps off), loosen the bolts and remove the bolt and spacers from the guide.

On the '94-'97 models Remove the cockpit brace end covers (they also snap), loosen the bolts and remove the cockpit brace.

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There is a small plastic clip at the rear of the trim panel, just behind the hole the shoulder harness guide bolt goes through. Remove the clip by pulling it toward the rear of the car.

Remove the rectangular seat belt trim ring at the front of the panel and the 2 fasteners in each trim panel located on the inside just above the package tray, one is a kind of plastic rivet that is loosened by lifting the center portion and pulling it free, the other is another one of those fancy boot cover snaps with the 10mm head. If you have an M2 with the wind blocker remove the screws and lift the wind blocker out. The trim panel can now be removed by pulling it toward the center of the car, there's a couple of snap type fasteners down low just behind the door that you will need to pop loose as the panel is pulled free.

3) PUT THE TOP UP - Remove the carpet from the fuel tank cover (the silver cover that makes up the front part of the package shelf) and fold it back. A claw hammer is a good tool for removing the plastic carpet fasteners. Lower the top. (Pre '99 leave the window zipped in, be careful not to crease the window) Some sort of cover for the window is not a bad idea. Remove the large silver metal fuel tank cover that makes up the front part of the package shelf by removing the several bolts w/ 10mm heads that hold it in place and releasing any wire loom fasteners. Lift the cover up and out of the car.

4) REMOVE THE LOWER SEAT BELT REEL BOLTS (16mm-pre'94; 17mm-'94 and later) AND SPACERS. Also remove seat belt reel alignment screw at the top of the mounting bracket (small screw w/ 10mm head). Pull the complete assembly forward and out of the way. Cut the package tray mounting flange back 12" from the front, (**see FIG #1**) and remove the 3 bolts w/ 10 mm heads at the lower edge of the seat belt tower just below the flange you're cutting.

If you are installing the bar into a '90 - '93 model, using a file or 7/16" drill enlarge the hole that is just to the inside of the threaded hole for the shoulder harness guide. **DO NOT DRILL THE THREADED HOLE FOR THE SHOULDER HARNESS GUIDE!**

Remove the small ground wire on the left side and ALL wiring harness clips and cable guides from both sides of the seat belt towers and just in front of the fuel tank cover behind the vertical sheet metal flange. On the M2, unplug the large wire connector on the left hand side by pulling the lock in the center of the connector up and separating the two halves.

5) GO GET SOME HELP! Y'ALL SET THE BAR IN THE CAR - BE CAREFUL, the right (passenger side) rear leg on the CENTER braced bar goes over and behind the battery cable. The SIDE braced goes inside and behind the battery cable. Route the wiring harnesses, trunk and fuel door cables under the base of the bar between the flat strips welded to the bottom. Run them through the gaps. **DO NOT PINCH THE WIRING OR CABLES.** You may need to loosen some of the harness clips to get extra slack. Run the large harness that unplugs on the M2 over the base of the bar.

The horizontal mounting plates half way up the bar should fit over the top of the seat belt tower and align with the hole just to the inside of the threaded hole for the shoulder harness

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guide that you reamed out in the previous step for the '90 - '93 model. If you have a '94 - '97 the hole is threaded for the factory cockpit brace, disregard the 7/16" nuts and flat washers as your car already has captive nuts welded in place. The M2's have the larger hole but no threads. You'll need the nuts and washers for the late model stuff.

Make sure the bar is sitting down all the way, the outer mounting plates should line up with the lower seat belt reel mounting holes. The vertical sheet metal flange that sticks up may need to be trimmed if the bar will not go down flush.

Using bolts and spacers from the hardware kit, install the upper mounting bolts through the upper mounting plate with the spacer under the plate. Be sure the trim cap mounting washers are under the bolt heads, we want this thing to look nice when you get done! On all but the '94 - '97 models sneak the washer on the bolt and start the nut.

Locate the 2 holes on either side in the vertical plates that go against the seat belt towers and drill 3/8" holes. Install the backup plates through the seat belt reel opening and start the bolts.

6) JACK UP THE REAR OF THE CAR AND SUPPORT WITH STURDY JACK STANDS - Remove the wheels and plastic splash panels from the front of the inner fenders. (pre 99 - 4 bolts w/ 10mm heads / M2 - 4 plastic fasteners w/ Phillips heads)

On the M2 part of the evaporative emission system is located in the wheel well on the passenger side, a snap fastener holds a small filter just behind the battery cable grommet relocate the small filter by tucking it behind the wiring harness after the back-up plate bolts are tightened.

7) GET THE DRILL AND SAFETY GLASSES - Locate the position for the rear back-up plates by drilling the first hole down from the top. It's tight in this area - an angle drill is helpful but not absolutely necessary to do these holes. Once you get the first hole drilled, bolt the back-up plate in place, the others can be done from under the car using the back-up plate as a template. You can do the same with the front plates or drill from the top. Bolt the back-up plates in place using washers under all nuts and bolts. The notched plate goes on the passenger side to clear the battery cable grommet.

Make sure no wires or cables are pinched, snug all bolts and then tighten to 40-50 ft-lbs.

Spraying the back-up plates with undercoating after the fasteners are tight is a good idea. Install the splash panels and rear tires.

8) TRIM THE FUEL TANK COVER – (**See FIG #2**). Cut either side to clear and two notches in the middle.

9) Discard the spacers on the lower mounting bolts and install the seat belt reels.

10) CUT QUARTER TRIM PANELS - This will only hurt a little. Cut off the plastic alignment dowel that goes into the side of the seat belt tower and trim the lower flange to clear the

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outer side of the hoops.

11) REINSTALL THE REMAINING PARTS - If you are working on '94 - '97 the cockpit brace it cannot be reinstalled nor can the M2 wind blocker.

Trim the carpet, I like to make a cut with pie shaped wedges and tuck the wedges around the bar rather than having a cut edge.

HAPPY MOTORING

FIGURE 1:



FIGURE 2:



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