INSTALLATION GUIDE

AMP POWEr Step

APPLICATION

MODEL YR

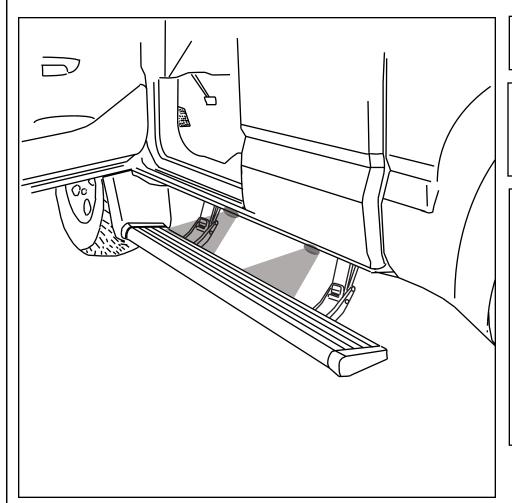
Toyota Tacoma Double Cab

2005 - up

Toyota Tacoma Access Cab* 2005 - up PART#

75142-01A

75142-01A



INSTALLATION TIME 3-5 Hours









3= Experienced

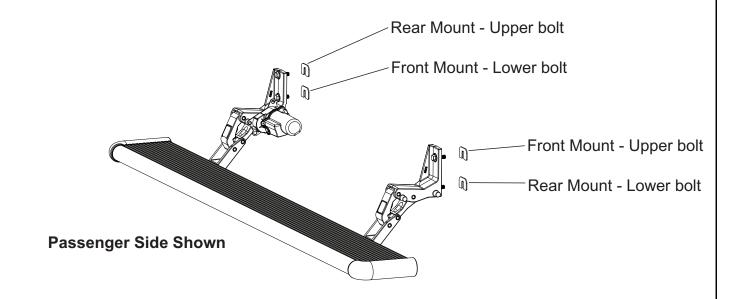
TOOLS REQUIRED

- Safety goggles
- Measuring tape
- ☐ 19 mm socket
- ☐ 10 mm socket
- ☐ 12 mm socket
- ☐ Ratchet wrench and extension
- ☐ Pliers
- Wire crimpers
- ☐ Wire stripper / cutter
- □ 3/16" hex key wrench (allen wrench)
- ☐ 4mm hex key wrench (allen wrench)
- □ Electrical tape
- ☐ Weather proof caulking (silicone sealer)
- □ 9/32 drill bit
- ☐ Drill

Purpose: Due to vehicle-build variations the Power Step may not correctly align with vehicle cladding. Using supplied shims, please follow the instructions below to correct the alignment.

Misalignment:	Shim Correction:
The gap between board and vehicle cladding is too large toward rear of running board.	Shim rear mount at lower bolt. (diagram below)
The gap between board and vehicle cladding is too small toward rear of running board.	Shim rear mount at upper bolt. (diagram below)
The gap between board and vehicle cladding is too large toward front end of running board.	Shim front mount at lower bolt. (diagram below)
The gap between board and vehicle cladding is too small toward front end of running board.	Shim front mount at upper bolt. (diagram below)

Shim Placement: Place shim(s) **ONLY WHERE NEEDED** as indicated above in "Misalignment/ Shim Correction" chart.



AMP RESEARCH POWERSTEP™ - TACOMA Note: Some Applications require modification. **Application Cut Length** Double Cab 70" (No Modification Required) Access Cab 60" (Trim 10") COMPONENT/PARTS **IDENTIFICATION** Step Assembly Includes: 19-03199-11 End Cap left (x1) 19-03199-12 End Cap right (x1) 19-02663-90 T-Nut Insert (x2) 20-03318-70 19-03236-90 Socket Cap Screw (x2) **Running Board Assembly** 19-03237-90 Nut Plate (x2) 19-03692-90L 10-03685-10 10-03686-10 19-03297-A06 Motor Linkage Assembly Wire Harness Idler Linkage Assembly Controller 19-02727-90 19-03352-90 19-02802-90

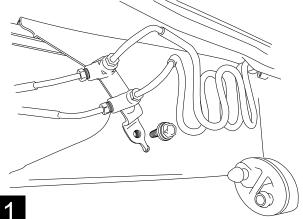
Flat Head Cap Screw

Socket Cap Screw

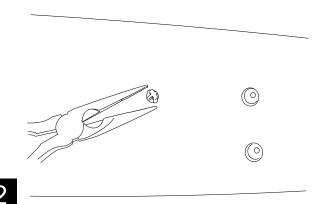
Single Diode

AMP RESEARCH POWERSTEP™ - TACOMA PARTS LIST AND **HARDWARE IDENTIFICATION** SHIM KIT (14) Includes x4 19-03706-90 19-02721-90 19-03702-90 19-03142-90 19-03354-90 Cinch Fastener Posi-Tap™ (Red/Grey) Shim Kit 19-03290-90 Base Plate 19-03339-90 19-02805-90 Cable Tie 7" Cable Tie 11" 20-03289-91 Motor 16-02634-90 16-03014-90 19-03705-90 19-03704-90 **Button Head Bolt** M8 Washer Spring Washer M12 Bolt 19-03238-90 19-03302-90 19-02989-90 19-02640-90 **Motor Cover** Grommet LED Lamp **Butt Connector**

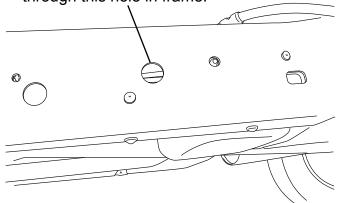
Remove brake line retainer bolt from driver side front inside frame rail to provide access inside frame.



Disconnect brake lines from frame by squeezing outside of plastic fastener. CAUTION: Do not break plastic fastener. Disconnect first and third fastener from front.

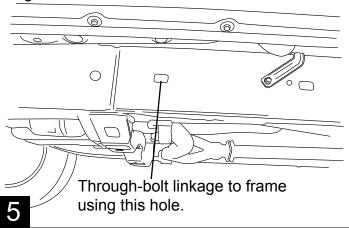


Install driver side rear motor linkage through this hole in frame.

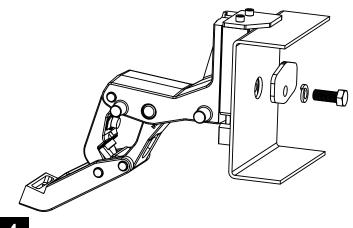


Through-bolt linkage to frame as shown in next step.

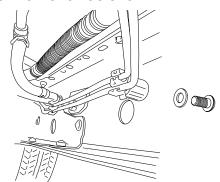
Install Driver Side Front Idler Linkage. Insert top plate between frame and body and slide into forward position. See step 6 for passenger side installation.



Secure Linkage Assembly to frame. FINGER TIGHTEN ONLY.



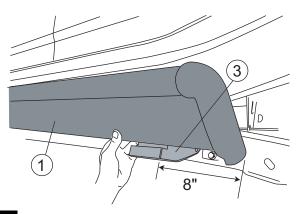
Install brake line stand-off inside driver rear frame rail as shown.



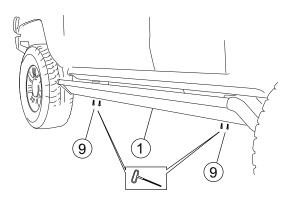
Replace all brake line fasteners.

Install linkages on passenger side MOTOR LINKAGE IN FRONT.

Center running board to doors and mount onto linkages by sliding T-nuts into positioin.



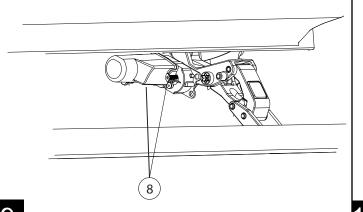
Torque 3/16" Allen bolts to 10ft-lbs. (13.5Nm)



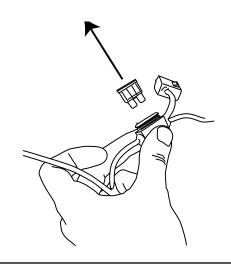
Torque linkage to frame through bolts from step 4 to 40 ft-lbs(54Nm)

7

Attach motor onto Motor Linkage Assembly using two M6x16 flat head screws on both drive and passenger sides

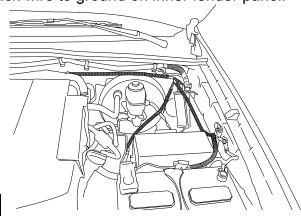


Remove fuse.

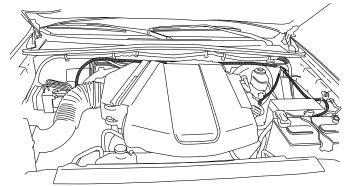


Secure controller to factory wire loom using supplied 11" wire ties. Connect Red fused wire

to stud on battery positive terminal. Connect Black wire to ground on inner fender panel.



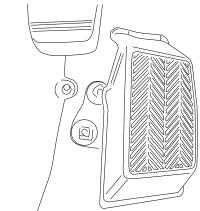
Run wire harness as shown outside the frame rails on both sides. <u>Avoid hot, sharp or moving parts!</u> Secure with 7" wire ties.



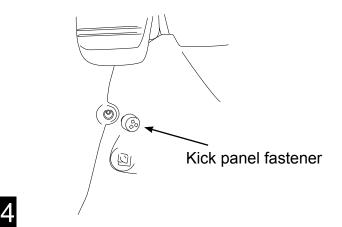
Note: Run loom with Green/Yellow and Pink/ Black Trigger wires down drivers side of vehicle.

11

Pry left foot rest loose at driver side kick panel.

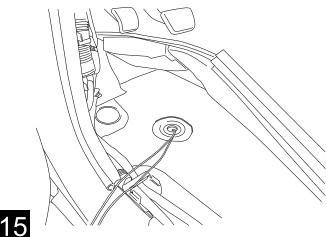


Pry up front door sill plates and remove kick panel fasteners and panels on driver and passenger side.

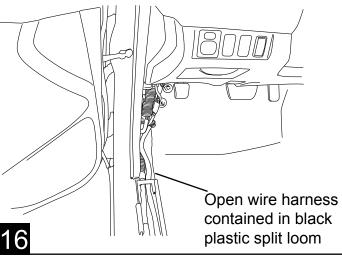


Pull up carpet and locate rubb

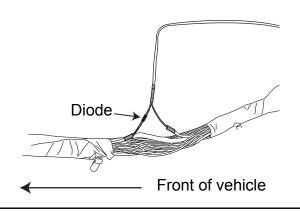
Pull up carpet and locate rubber grommet. Slice the grommet and pass trigger wires from under the vehicle and into the cab.



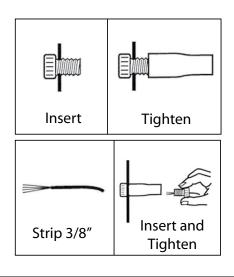
Locate door ajar signal wires on driver side. Front Green/Yellow, rear Pink/Black.



Install Single Diode Harness as shown on Pink/ Black wire (12 volt negative with door open) and connect to Power Step Pink/Black trigger wire. Make sure to install the diode toward the front of the vehicle.



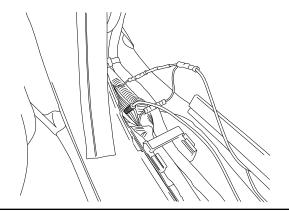
Posi-Tap Instructions



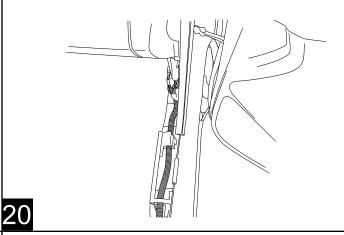
17

18

Connect Green/Yellow Power Step trigger wire to Green/Yellow factory Door Ajar signal wire (12 volt negative with door open) using supplied Posi-Tap.

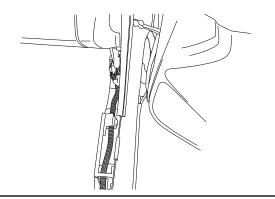


In passenger-side front door sill, locate Door Ajar signal wires inside Black plastic split loom. Front Red/Black rear Pink/Black

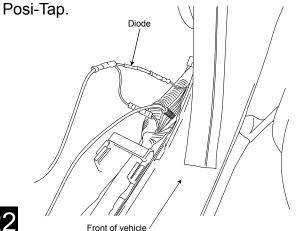


19

Install Single Diode harness as shown in step 16 on Pink/Black wire (12 volt negative with door open) and connect to Power Step Pink/Black trigger wire. Make sure to install the diode toward the front of the vehicle.

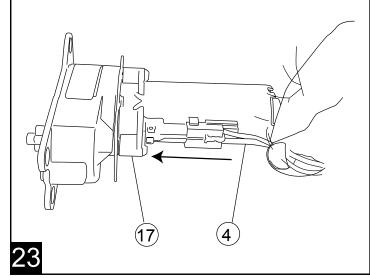


Connect Red/Black Power Step trigger wire to Red/Black factory Door Ajar signal wire (12 volt negative with door open) using supplied

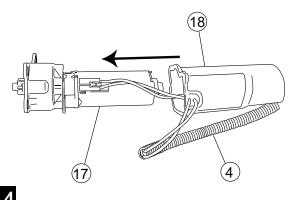


21

Connect Wire Harness to Motor.

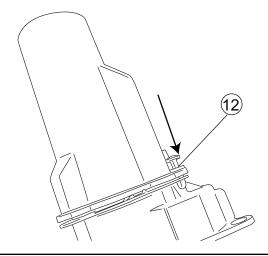


Slide rubber grommet on Wire Harness into slot of Motor Cover. Slide Motor Cover over Motor.

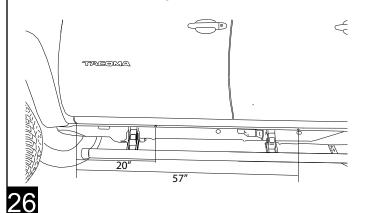


24

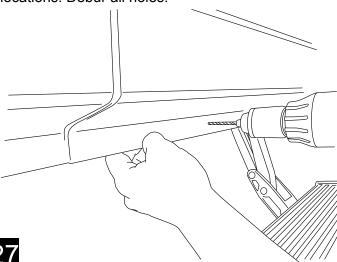
Insert plastic push pin rivets in mounting holes of Motor Cover.



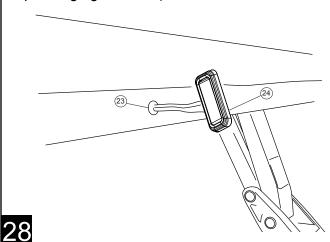
On each side of the vehicle measure from the front edge of door line on the pinch weld to the specified lengths below. Measure at 20" for front LED Light and 57" for rear LED Light.



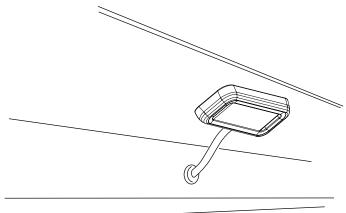
Drill a 9/32" hole through the pinch weld at marked locations. Debur all holes.



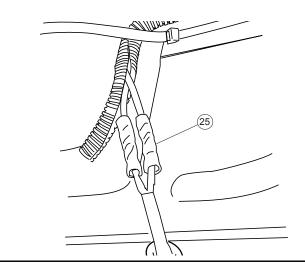
Insert grommet into drilled holes. Insert lamp wires through the grommets. (Silicon lube will help wires slip through grommets.)



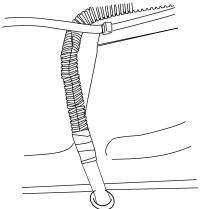
Affix lamp to rocker panel surface. Make sure lamp is affixed to a flat, clean surface.



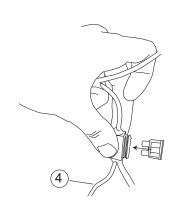
Using supplied butt connectors, connect the lamp wires. Red to Red, Black to Black



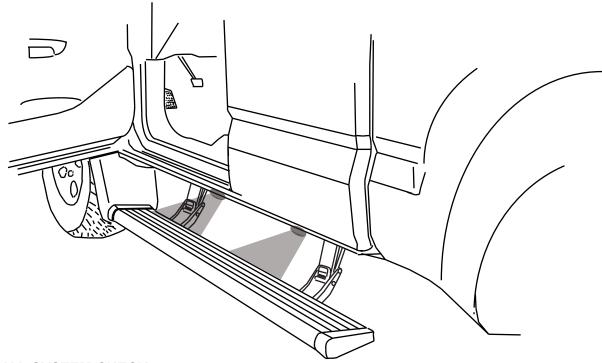
Close and wrap with conduit and electrical tape. Secure all loose wires with cable ties, with lamp wires pulled upward to avoid any wire snagging.



Reinstall the fuse.



Check that all doors activate the Power Step and the LED Lights work when doors open and close. Reinstall any remaining trim panels.



FINAL SYSTEM CHECK

31

Check that all doors activate the PowerStep and the LED lights work when doors open and close.

NORMAL OPERATION: When the doors open, PowerStep automatically deploys from under the vehicle. When the doors are closed, PowerStep will automatically return to the stowed/retracted position. *Note that* there is a 2-second delay before the PowerStep returns to the stowed/retracted position.

CORRECT OPERATION OF LIGHTS: All four lamps will illuminate upon opening any door of vehicle. Lamps will stay on until restowing of both Power Steps or until 5 minutes has expired with the doors open. When the lights timeout after 5 minutes, they can be reillumintated by closing and opening any door of vehicle.

AMP RESEARCH RUNNIG BOARDS SIDE STEPS