

INSTALLATION GUIDE

AMP RESEARCH **Power Step** MADE IN USA

APPLICATION	LENGTH	MODEL YR	PART #
Ford F150 SuperCab *	72"	2004-2008	75105-01A
Ford F150 SuperCrew	79"	2004-2008	75105-01A

INSTALLATION TIME

3-5 Hours

Professional installation recommended

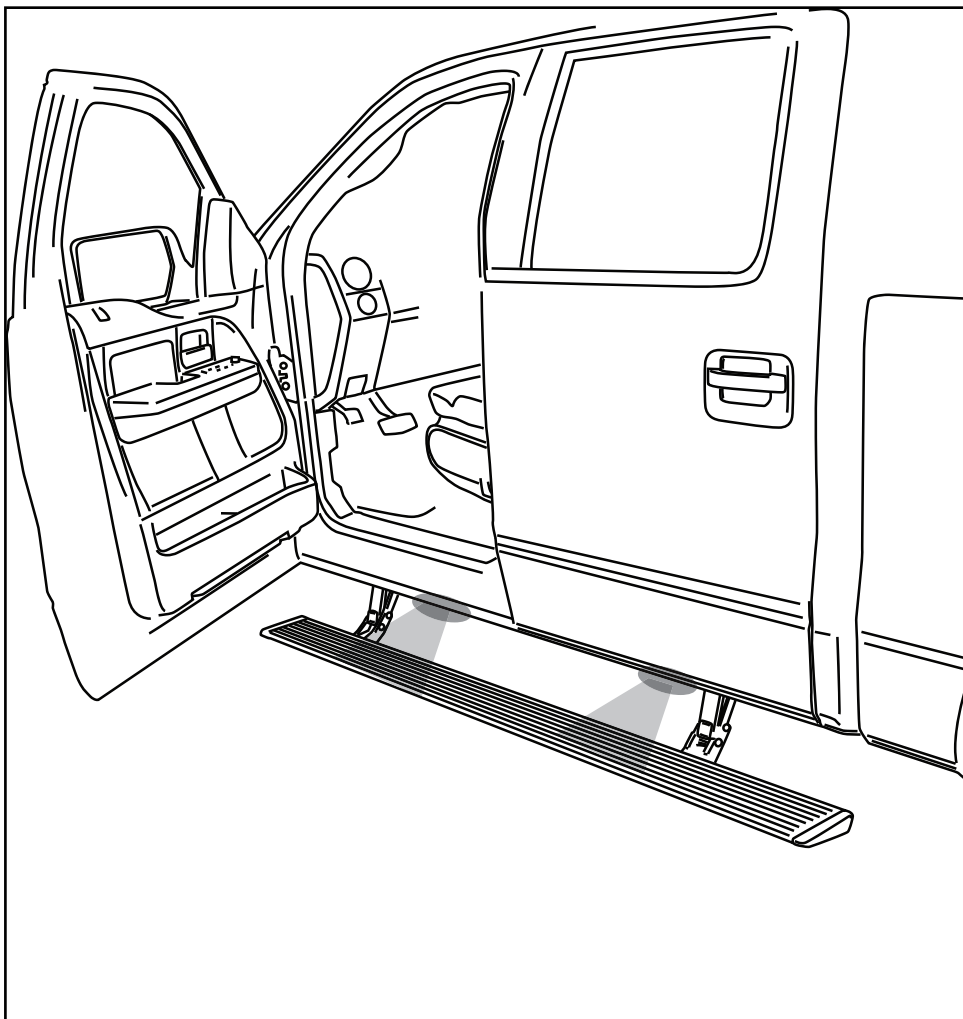
SKILL LEVEL



4= Experienced

TOOLS REQUIRED

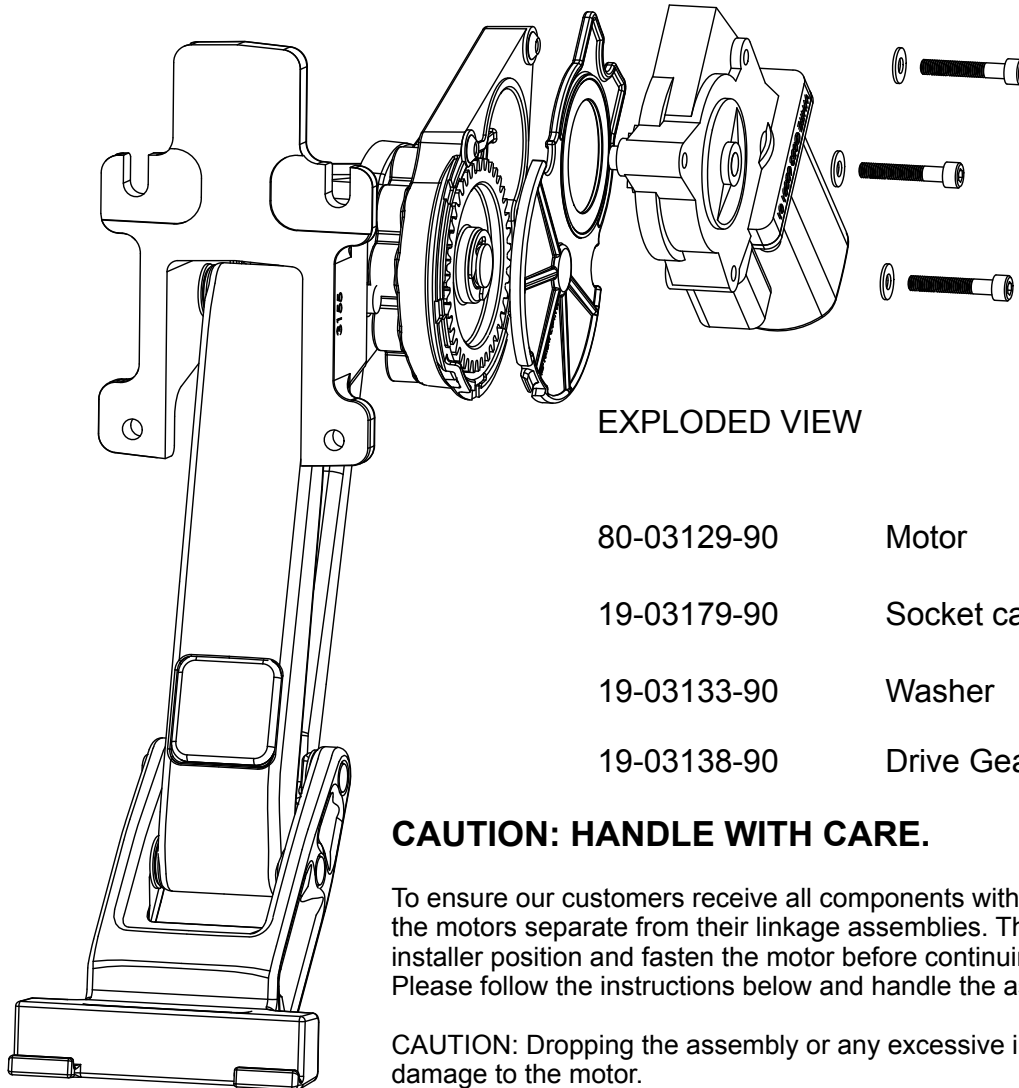
- Safety goggles
- Measuring tape
- Flat blade screwdriver
- Phillips head screwdriver
- 8 mm socket
- 10 mm socket
- 13 mm socket
- 13 mm end wrench
- Ratchet wrench and extension
- Wire crimpers
- Wire stripper
- Corrosion inhibitor
- 3/16" hex key wrench (allen wrench)
- 4mm hex key wrench (allen wrench)
- Electrical tape
- Weather proof caulking (silicone sealer)



INSTALLATION GUIDE

Attaching motor to linkage assembly

The motors must be attached to the linkage assemblies before continuing the installation process.



EXPLODED VIEW

80-03129-90	Motor
19-03179-90	Socket cap screw
19-03133-90	Washer
19-03138-90	Drive Gear Housing Cover

CAUTION: HANDLE WITH CARE.

To ensure our customers receive all components with full integrity, we pack the motors separate from their linkage assemblies. This requires that the installer position and fasten the motor before continuing with the install. Please follow the instructions below and handle the assembly carefully.

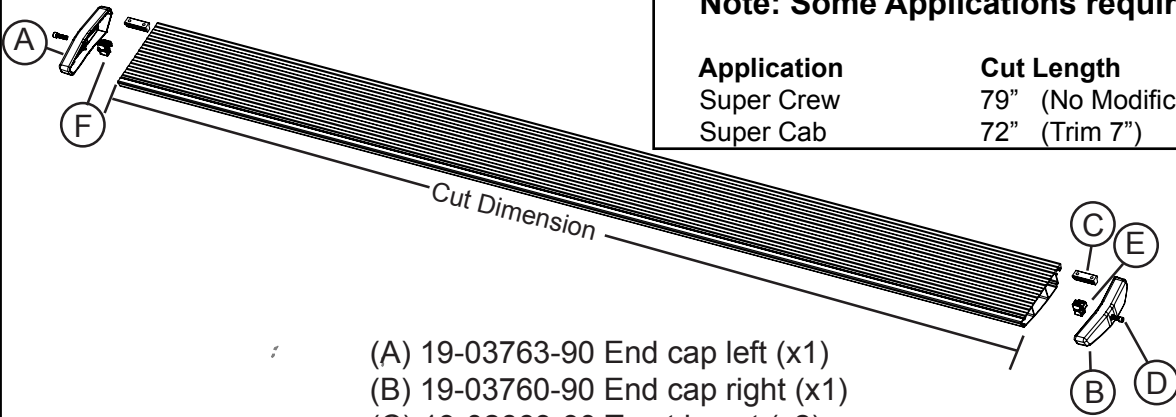
CAUTION: Dropping the assembly or any excessive impact MAY cause damage to the motor.

Instructions:

1. Position the gear cover in place as shown if not already in place.
2. Seat motor into position on the three mounting bosses. This may require an adjustment of the gear by moving the swing arms.
3. After seating into place, fasten the motor with the three motor mount screws with 4mm Hex Head. Tighten screws to 36 in-lbs (4N-m). **Do not over torque.**

Note: Some Applications require modification.

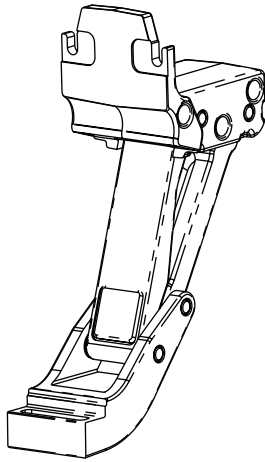
Application	Cut Length
Super Crew	79" (No Modification Required)
Super Cab	72" (Trim 7")



- (A) 19-03763-90 End cap left (x1)
- (B) 19-03760-90 End cap right (x1)
- (C) 19-02663-90 T-nut insert (x2)
- (D) 19-02802-90 Socket cap screw (x2)
- (E) 19-03761-90 End cap wedge right (x1)
- (F) 19-03764-90 End cap wedge left (x1)

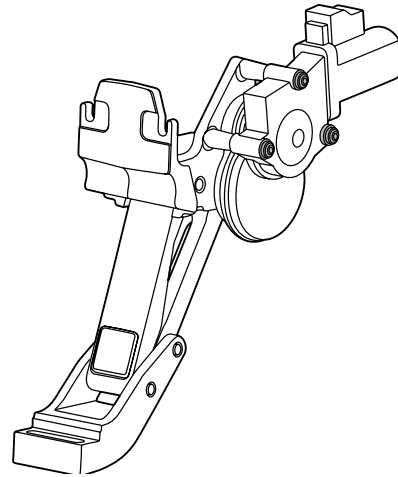
1 x2

Running board assembly



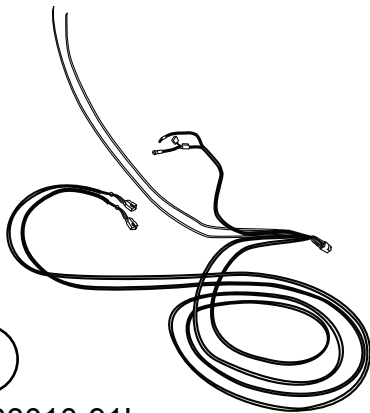
2 x2

10-03007-11
Idler linkage assembly



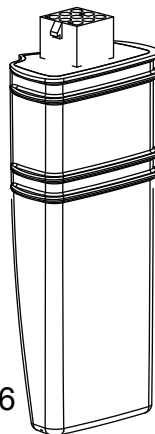
3 x2

10-03006-11
Motor linkage assembly



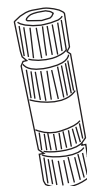
4

19-03010-91L
Wire harness



5

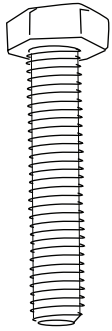
19-03297-A06
Controller



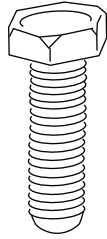
6 x4

19-03354-90
Posi-Tap™ (Red/Grey)

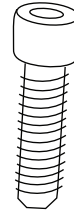
PARTS LIST AND
HARDWARE
IDENTIFICATION



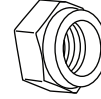
7 x8
19-02487-90
Hex bolt



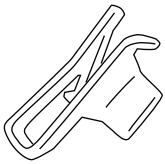
8 x9
19-02849-90
Hex Bolt



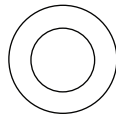
9 x8
19-02802-90
Socket cap screw



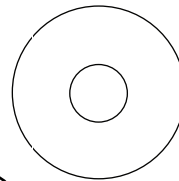
10
10-00115-60
Nylock Nut



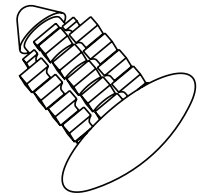
11 x8
19-02488-90
U-nut



12 x8
16-03014-90
Washer Black



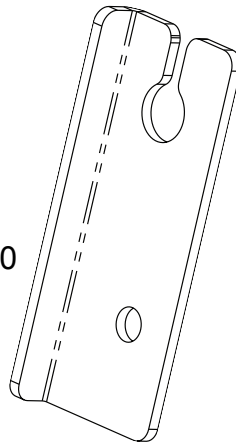
13
19-02389-90
Washer



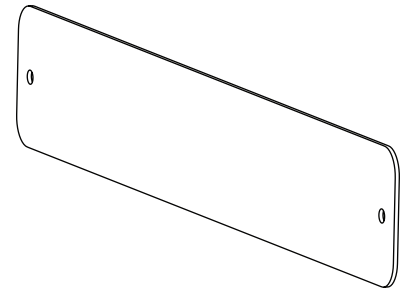
14 x2
19-03063-90
Rivet



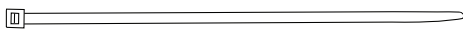
15 x20
19-02805-90
Cable Ties 7"



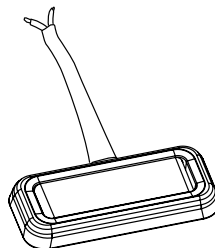
16
16-03048-90
Bracket



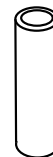
17
19-03049-90
Plug Shield



18 x2
19-03339-90
Cable Ties 11"

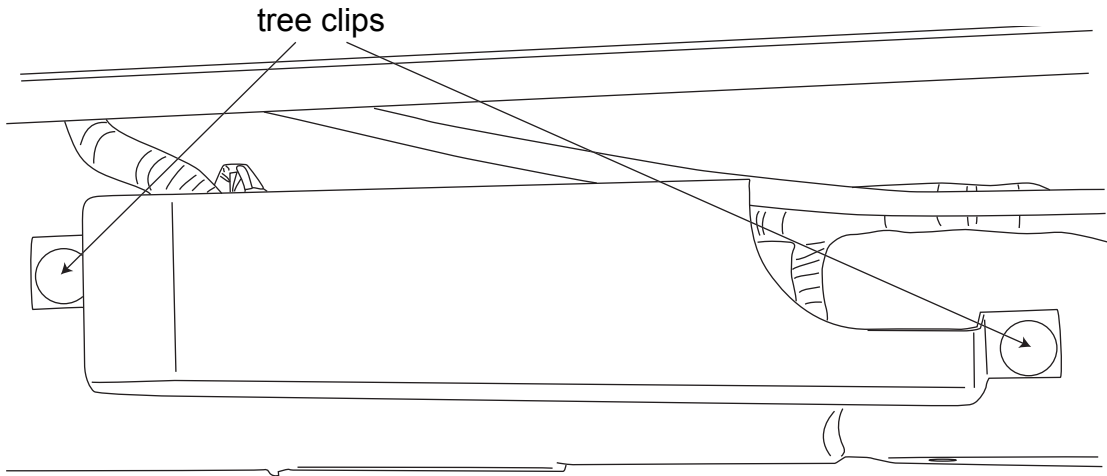


19 x4
19-03302-90
LED Lamp



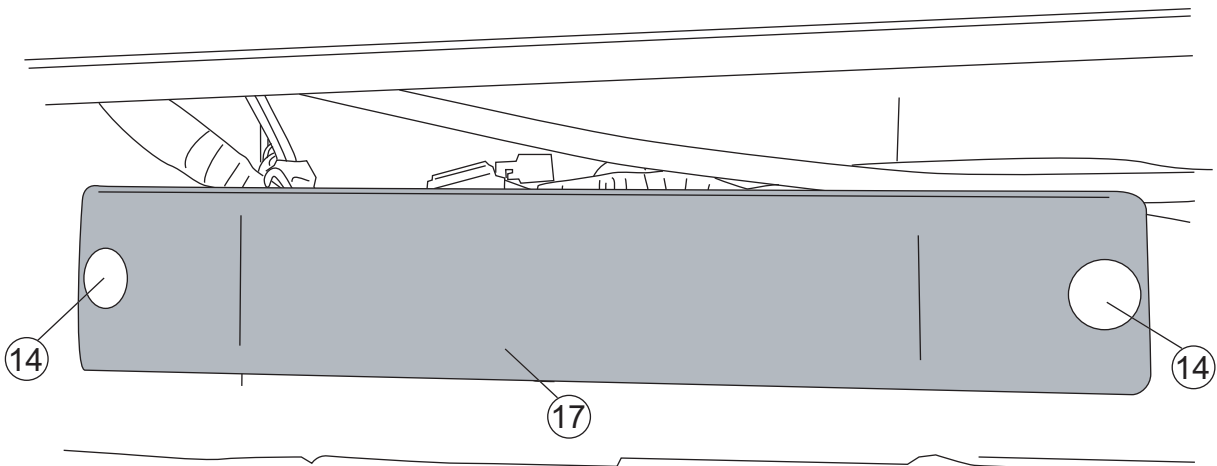
20 x8
19-02989-90
Butt Connector

Find wire harness cover on the frame under the driver's door. Remove both tree clips and remove wire cover.



1

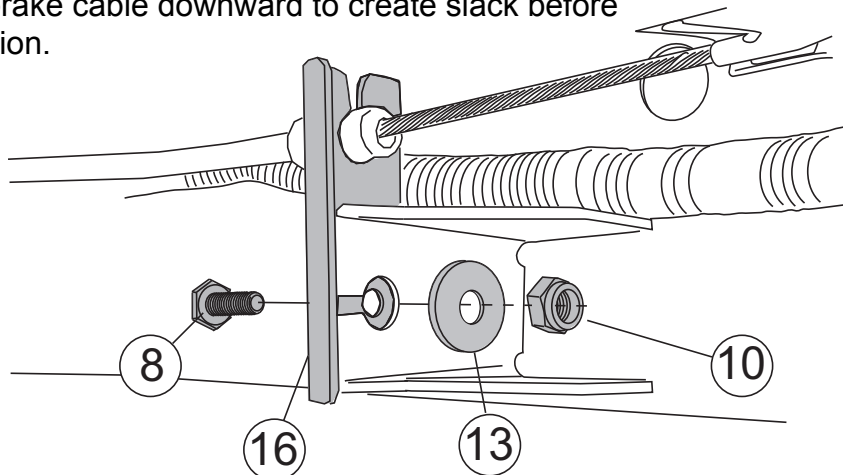
Bend new cover into position and attach with the large tree clips supplied with hardware.



2

Mount brake cable bracket extension and then raise brake cable into position.

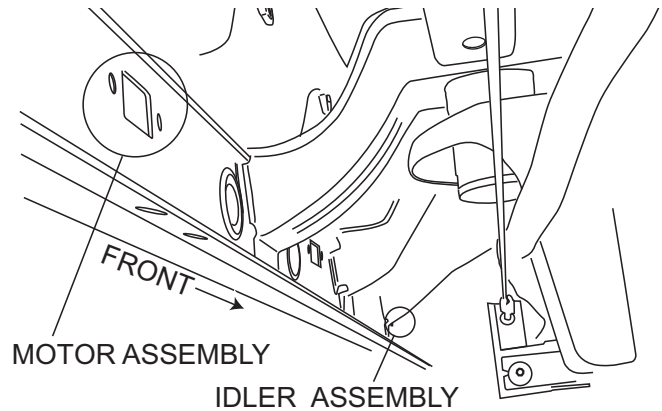
Note: First pull brake cable downward to create slack before raising into position.



3

Locate mounting points; first and last set of holes on the inner sill.

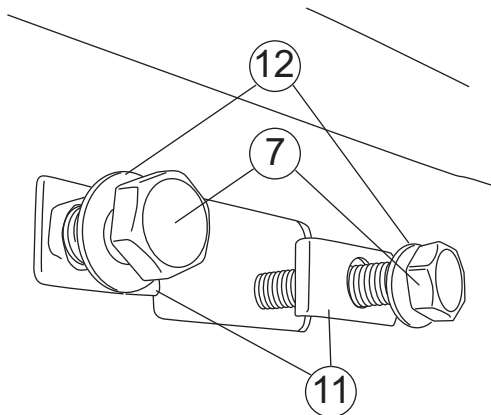
Motor Linkage mounts toward the rear of the truck, with the exception of the passenger side of SuperCab. With the SuperCab, mount the motor linkage in front on the passenger side. Extra wire on passenger side can be tied up with supplied wire ties. **Light wires will need to be pulled out of the harness to allow lights to be installed in proper position.**



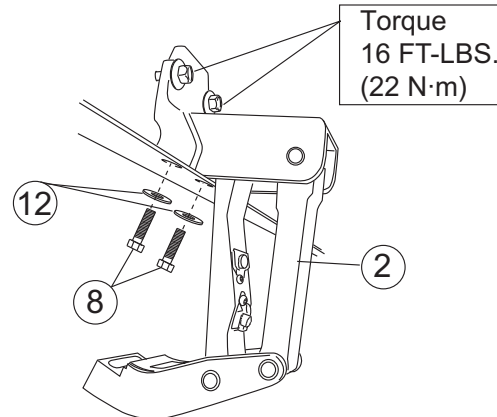
4

Drivers side pictured here.

Install J-clips and start bolts with washers installed.



Mount idler assembly and motor assembly.



Note: Filing of sheet metal edge may be required if the sheet metal holes are misaligned.

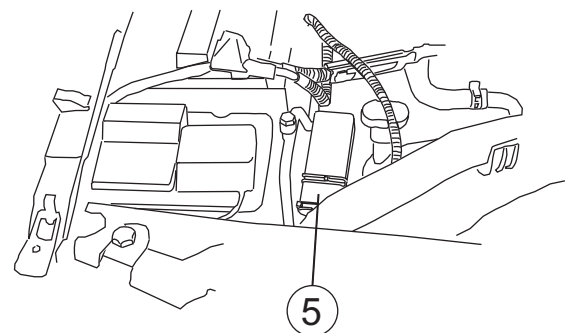
5

6

Remove fan shroud to allow for wire routing. Shroud will be reinstalled in a later step.



Mount controller with the two 11" tie wraps to factory conduit. Route wire harness under core support and down toward controller. Attach harness to controller (make sure connector locking tabs fully engage).

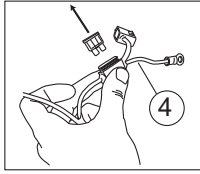


7

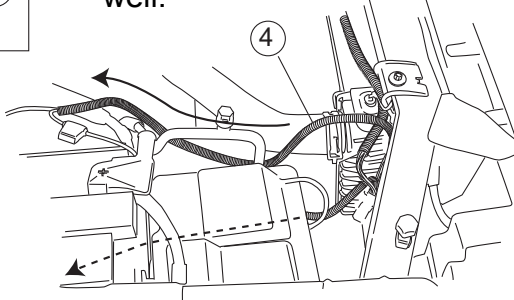
8

Secure harness with tie wraps.

Remove fuse.

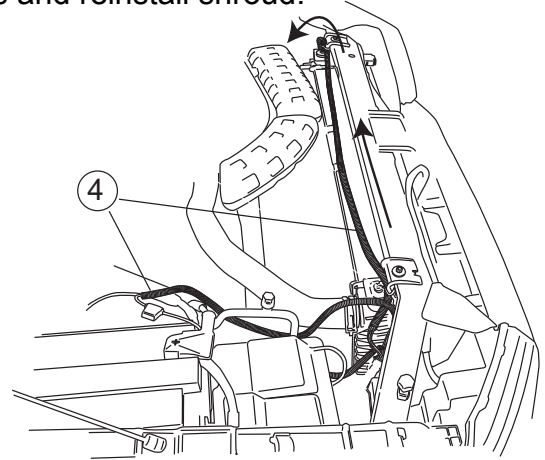


Connect red and black power leads to battery. Red lead goes to positive. Route shorter leg of harness down passenger-side wheel well.



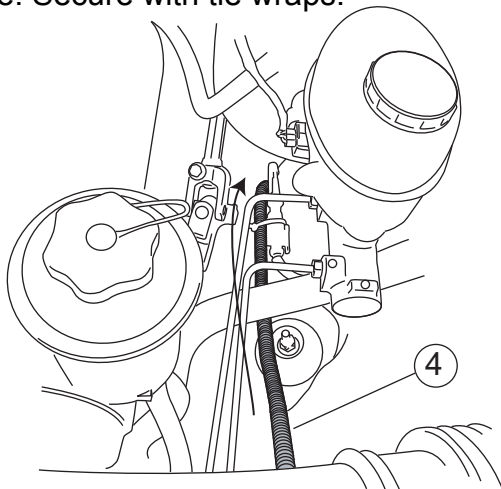
9

Route longer leg of harness across front and down under driver side. Secure harness with tie wraps and reinstall shroud.



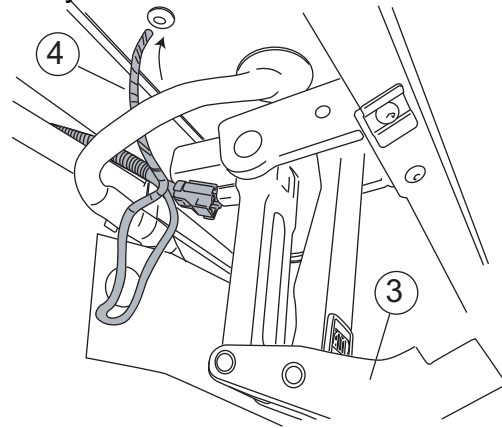
10

Route longer leg of harness down along driver-side wheel well and along frame of vehicle. Secure with tie wraps.



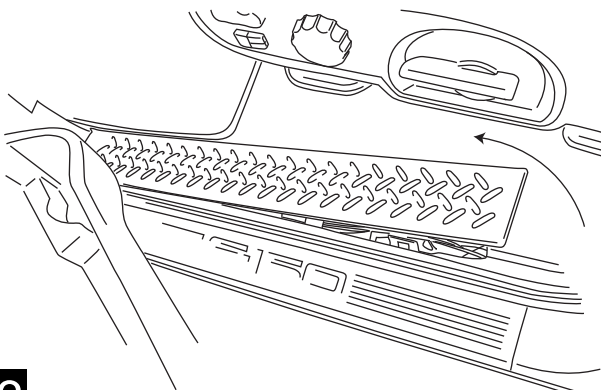
11

Puncture grommet and thread all four trigger wires up into the cabin of vehicle. The grommet is located on driver-side behind forward linkage assembly.



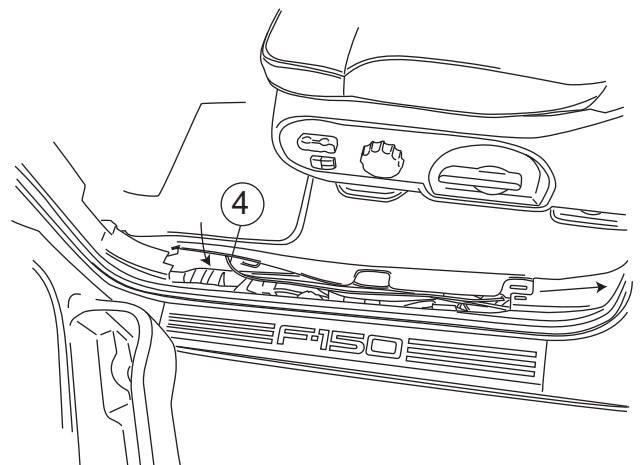
12

Remove drivers-door sill plate and pull back carpet to reveal trigger wires threaded through grommet.



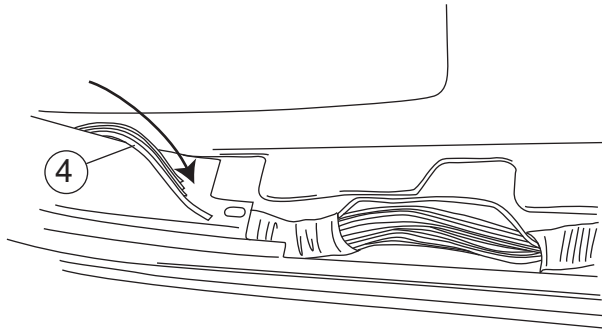
13

Pull wires from grommet and route back along factory wire harness to back door sill plate.



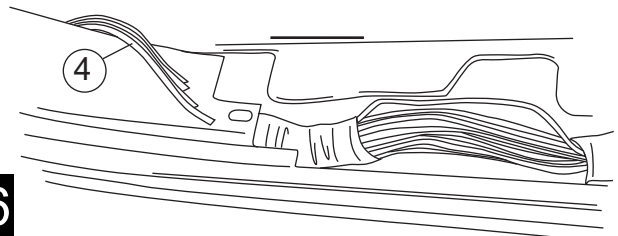
14

Remove rear door step plate and open wire bundle. Route trigger wires to rear door sill plate.



Locate the appropriate signal wires as noted below. Note: There may be up to five Black with Blue Stripe wires; use the one that looks unique (ie. different blue stripe... weight and shade).

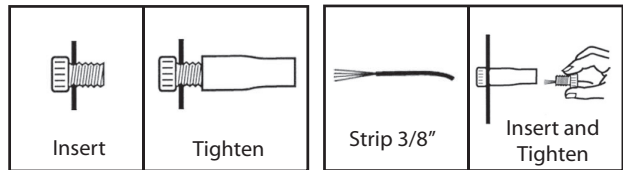
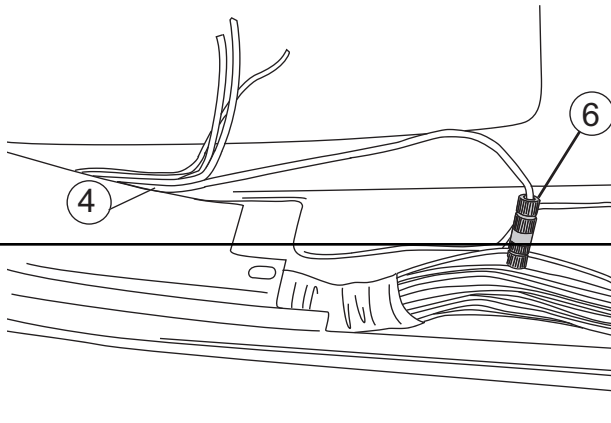
	SuperCrew	SuperCab	Regular Cab
Driver Front	Black / Yellow	Black / Yellow	Black / Yellow
Pass. Front	Black / Pink	Black / Pink	Black / Pink
Driver Rear	Black / Blue		
Pass. Rear	Black / White		



15

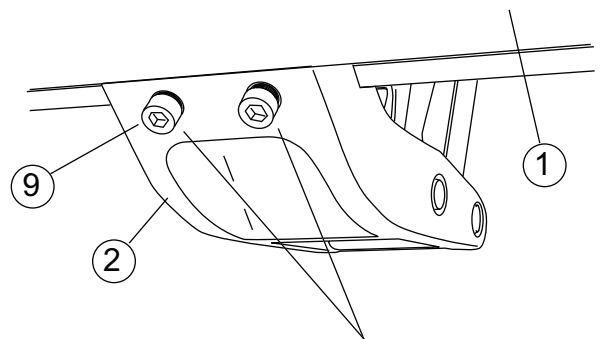
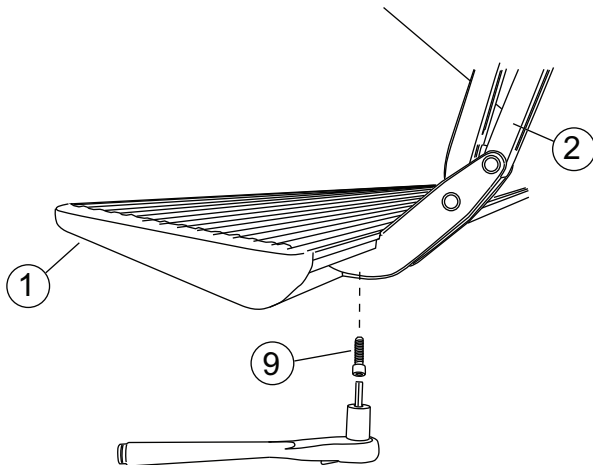
16

Using supplied Posi-Taps™, splice Power Step trigger wires into the corresponding door ajar wires. The SuperCrew (having 4 independent doors) is the only application that will use all four wires; tape off the two unused trigger wires on the SuperCab and Regular Cab.



17

Attach step, sliding the mounting T-nut into position.

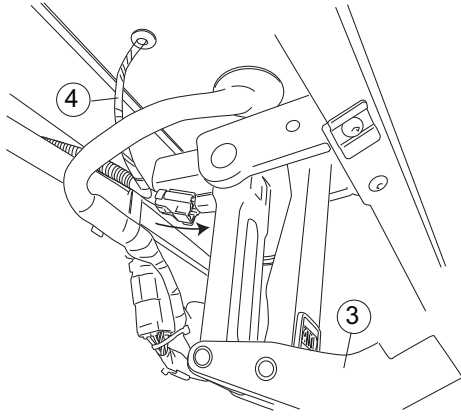


Torque
10 ft-lbs.
(13.5 Nm)

18

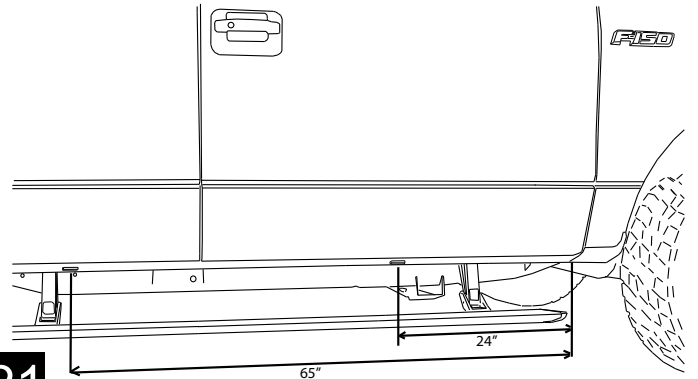
19

Route wire harness towards rear of vehicle inside body support gussets. Secure using supplied cable ties. Run wire harness to rear motor assembly and insert plug onto motor.



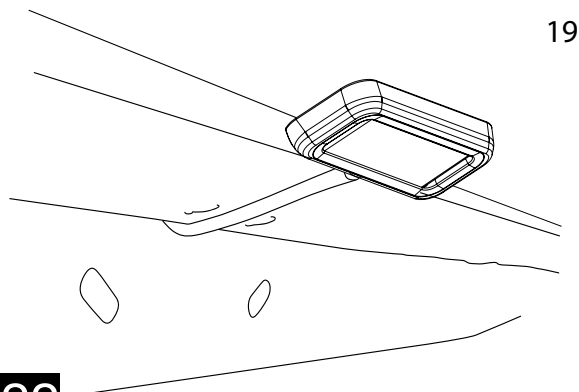
20

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 60" for rear LED Light.



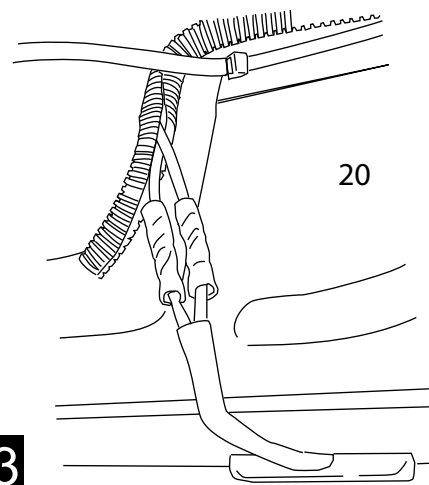
21

Affix lamps to rocker panel surface. Make sure the lamp is affixed to a clean, flat surface. There is a step down midway across the surface. Affix lamp just outside of step down.



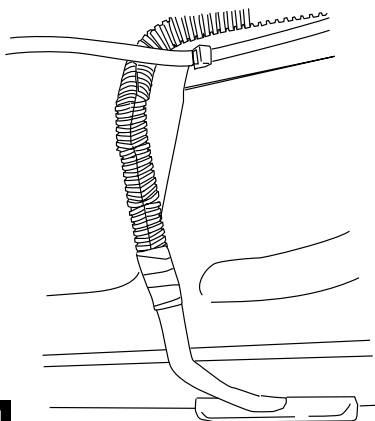
22

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



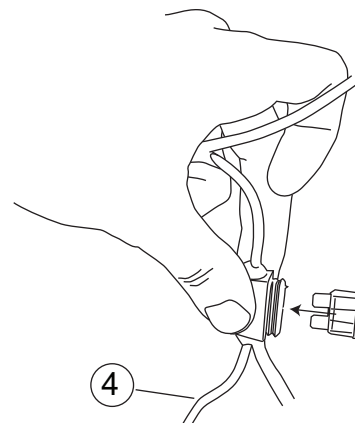
23

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.



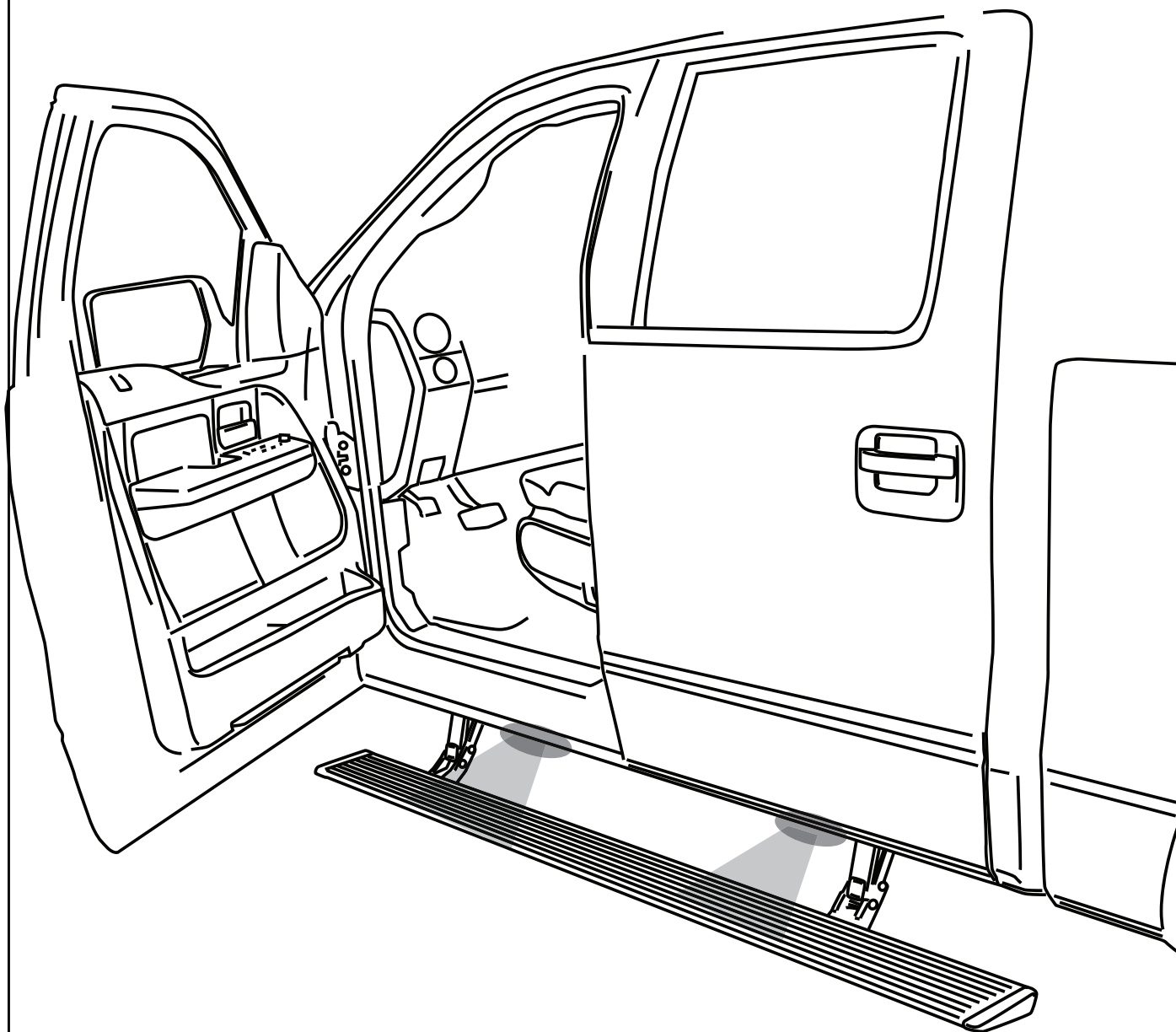
24

Replace fuse.



25

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

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 reilluminated by closing and opening any door of vehicle.