

Take a really good look

Telescopic Trailer Tow Mirror by  **scheffenacker**

take a really good look

Installation Instructions & Information Manual

To suit Ford F150 vehicle model year MY04

Part # 1440354

Version # 1

Issued 17 Feb 04



Congratulations on choosing the Telescopic Trailer Tow Mirror by Scheffenacker!

Made by the world's largest manufacturer of exterior mirrors, the Telescopic Trailer Tow Mirror combines great looking aerodynamic styling with the toughness only a company like Scheffenacker can produce.

You've chosen one of the hottest new products in the past few years! Its interchangeable covers mean you can personalize the looks that suit you and your pick up, and a wide range of options mean you can have the right equipment for the right job.

WARNING

Scheffenacker recommends that this installation be carried out by a professional installer. Please read ALL the instructions and warnings thoroughly before installing the Telescopic Trailer Tow Mirrors. These mirrors are designed only for the vehicles listed on this page. Ensure that the fitting instructions are followed exactly, as failure to do so may result in incorrect installation, and may also result in the driver, passengers and vehicle being placed in hazardous conditions.

Mirror Kit Contents

Manual/Black Version – Part Number 1472100

RH Mirror Assembly – 1440054 1 off

LH Mirror Assembly – 1440055 1 off

Instruction Sheet – 1440401 1 off

Electric/Black Version – Part Number 1472110

RH Mirror Assembly – 1440050 1 off

LH Mirror Assembly – 1440051 1 off

Instruction Sheet – 1440401 1 off

Electric, Turn Signal, Clearance Lights, and Heated Glass/Black – Part Number 1472120

RH Mirror Assembly – 1440052 1 off

LH Mirror Assembly – 1440053 1 off

Instruction Sheet – 1440401 1 off

PARTS LIST

1 LH mirror

1 RH mirror

Installation instructions

6 x M6 nut washers (gold)

2 x Gaskets



Driver side mirror



Passenger side mirror

Important Information

Schefenacker Warranty – Terms & Conditions

Schefenacker Vision Systems Australia Pty Ltd warrants that this mirror is free from defects in material and workmanship under normal use for a period of three years from the date of purchase. Our liability under this warranty is limited to the replacement or repair of the mirror which must be returned, transportation pre-paid, to the distributor from whom you purchased it together with the sales receipt. Warranty will only apply if the mirror is installed and used in accordance with the factory directions which accompany the mirror.

Under no circumstances is Schefenacker liable for any direct or indirect loss or damage (including consequential loss or damage).

This warranty does not apply to defects or damage resulting from incorrect installation or alteration, nor does it apply to any mirror which has been subject to abuse, misuse or negligence.

Replacement Parts

Your new Telescopic Trailer Tow Mirrors by Schefenacker have a range of replacement parts that are available from your Schefenacker dealer or from our website at www.ttt-mirror.com

Replacement main glass, wide-angle spotter, custom paintable covers, custom theme covers, and LED light assemblies are some of the components available. Check with your Schefenacker dealer or the web site for availability and suitability.

Other Models Available

MAKE	MODEL		ELECTRIC			MODEL	YEAR	TYPE	ELECTRIC			
	YEAR	TYPE	MANUAL	& HEAT*	& HEAT & LIGHTS*				MAKE	YEAR	TYPE	MANUAL
FORD	2004- curr F150		✓	✓	✓	GMC [♥]	2000- curr	YUKON	✓	✓ [†]	✓ [†]	
	1997-2003 F150 [‡]		✓	✓	✓		1999- curr	SIERRA	✓	✓ [†]	✓ [†]	
	1998-2000 F250 LD		✓	✓	✓		CADILLAC [♥]	2002- curr	ESCALADE	✓	✓ [†]	✓ [†]
CHEVY [♥]	1999- curr SILVERADO		✓	✓ [†]	✓ [†]	DODGE		2002- curr	RAM [♦]	✓	✓	✓
	2000- curr SUBURBAN		✓	✓ [†]	✓ [†]							
	2000- curr TAHOE		✓	✓ [†]	✓ [†]							
	2002- curr AVALANCHE		✓	✓ [†]	✓ [†]							

* If you currently have manual mirrors, the mirror kit will not retrofit the vehicle to have electric mirrors.

[‡] Will not fit F150 SuperCrew (4 door) vehicles.

[†] Multiplex Kit (part# 1090) is required if your vehicle is Model Year 2003 onwards.

[♦] Fits Dodge Ram 1/2 ton (1500) from MY2002 onwards, and 3/4 ton (2500) and 1 ton (3500) from MY2003 onwards.

[♥] Fits new body style only.

Customer Support

Should you need technical assistance during the installation, you should firstly contact your point of purchase.

Important Information

Tools Required

Box Cutter

Wire Cutters

Roll of electrical tape

Socket drive handle

½" (5.5 mm) socket

6 mm socket

7 mm socket

8 mm socket

10 mm deep socket

11 mm deep socket

¼" straight slotted screwdriver

Small straight slotted screwdriver

Needle nose pliers

Torque wrench

Torque socket size T40

2 x 14 gauge red extension wires:

6'6" driver side, 9' passenger side

Notes about installation

Please read ALL instructions and warnings thoroughly before installing the Telescopic Trailer Tow Mirrors.

Ensure that the fitting instructions are followed exactly, as failure to do so may result in incorrect installation, and may also result in the driver, passengers and vehicle being placed in hazardous conditions.

Notes about Mirror operation

Heated outside mirrors  (optional)

Both main mirrors are heated to remove ice, mist and fog. The mirrors are automatically activated when the vehicle rear window demist is switched on. Once activated, they will be warm to the touch.

Do not remove ice from the mirrors with a scraper, or attempt to readjust the mirror glass if it is frozen in place. These actions could cause damage to the glass and mirrors.

Turn Signal (optional)

When the turn signals of the vehicle are activated, the outer portion of the appropriate mirror housing will blink amber. The turn signal feature can be seen by other drivers who may approach from the rear of the vehicle.

Clearance Light (optional)

Illuminates when the headlamps or parking lamps are on. This provides additional visibility of your vehicle to other drivers on the road.

Important Information

ELECTRICAL INFORMATION

Light Module:

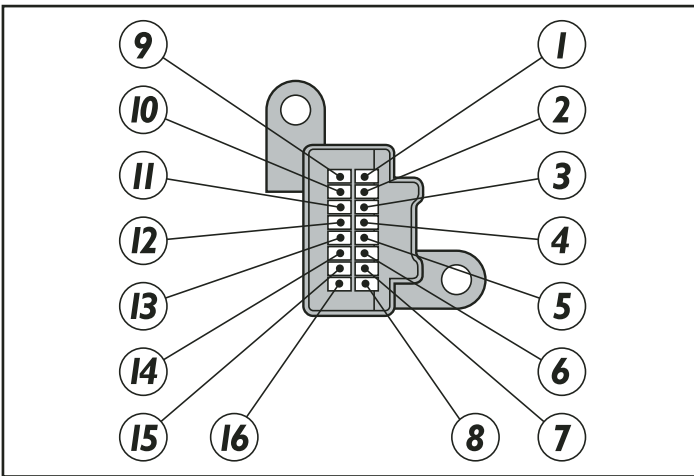
Voltage Range	9.5 to 14.6 volts
Nominal Voltage Requirement	13.8 volts
Current Draw @ 13.8 volts	Clearance: 35 to 55 mA Turn: 70 to 110 mA

Lt Mech:

Maximum Current (operation)	300 mA
Maximum Current (over-ride)	400 mA
Voltage Range	9 to 16 volts

Heater:

Maximum Current Draw (-40°C)	5.0 A
Voltage Range	No Limit



LEFT/RIGHT HAND

	PURPLE	BROWN	GREEN	BLUE
MOTOR UP	+	-		
MOTOR DOWN	-	+		
MOTOR IN			+	-
MOTOR OUT			-	+

LEFT HAND 1440319

Term. #	Color	Description
1	WHITE	HEATER POWER
2	BLACK	LIGHT MODULE/HEATER EARTH
3	PURPLE	MOTOR UP/DOWN + -
4	BROWN	MOTOR UP/DOWN + -
5	BLUE	MOTOR IN/OUT + -
6	GREEN	MOTOR IN/OUT + -
7	—	NOT USED
8	—	NOT USED
9	BLACK	LIGHT MODULE/HEATER EARTH
10	RED	TURN INDICATOR SIGNAL
11	—	NOT USED
12	—	NOT USED
13	—	NOT USED
14	—	NOT USED
15	—	NOT USED
16	—	NOT USED
17	YELLOW	FRONT CLEARANCE LIGHT

RIGHT HAND 1440318

Term. #	Color	Description
1	WHITE	HEATER POWER
2	BLACK	LIGHT MODULE/HEATER EARTH
3	PURPLE	MOTOR UP/DOWN + -
4	BROWN	MOTOR UP/DOWN + -
5	GREEN	MOTOR IN/OUT - +
6	BLUE	MOTOR IN/OUT - +
7	—	NOT USED
8	—	NOT USED
9	BLACK	LIGHT MODULE/HEATER EARTH
10	RED	TURN INDICATOR SIGNAL
11	—	NOT USED
12	—	NOT USED
13	—	NOT USED
14	—	NOT USED
15	—	NOT USED
16	—	NOT USED
17	YELLOW	FRONT CLEARANCE LIGHT

STEPS 1, 2 & 3

Preparation

Step 1

Insert a flat blade screwdriver into the hole at the top of the cover plate behind the door handle lever to remove the cover plate.

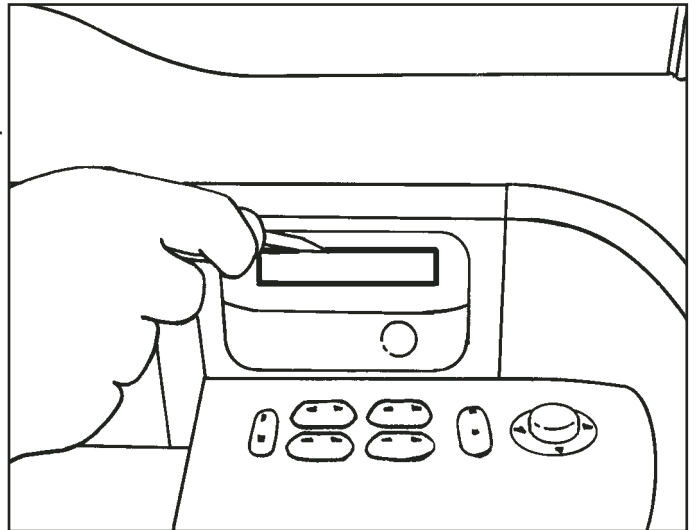


Figure 1

Step 2

Lift the front corner of switch panel.
Pull the switch panel up and out from the door trim panel.

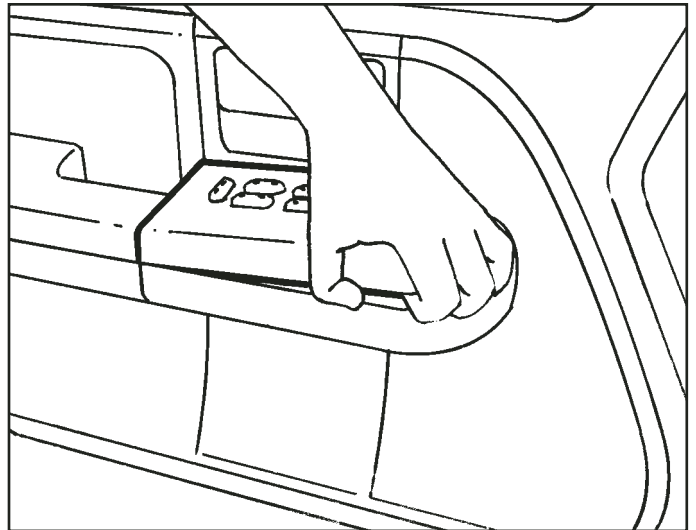


Figure 2

Step 3

Disconnect electrical connectors from the switch panel and set the switch panel aside.

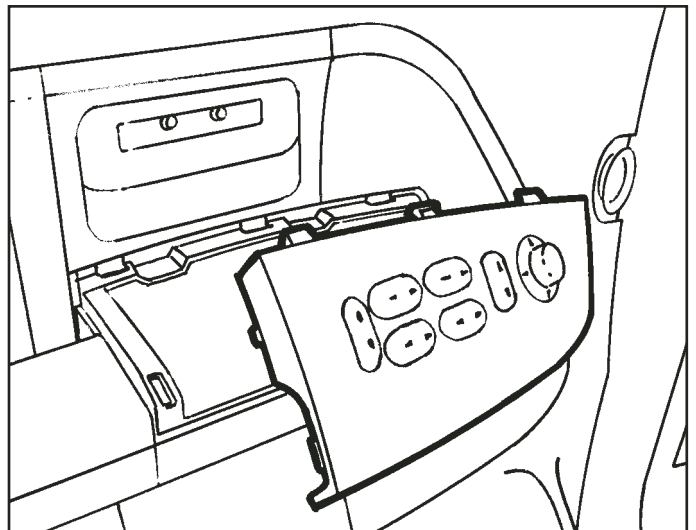


Figure 3

STEPS 4, 5 & 6

Step 4

With a 10 mm socket, remove the screw from the switch panel hole.

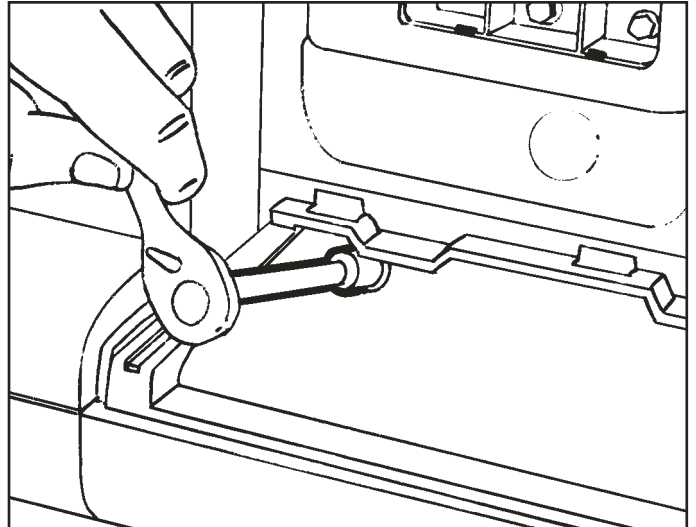


Figure 4

Step 5

Using a 6 mm socket, remove 2 x screws at the lower edge of the door trim panel.

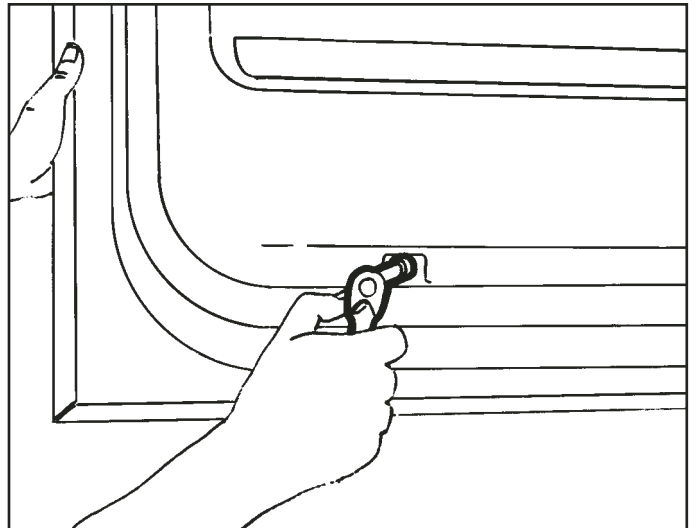


Figure 5

Step 6

Using a 8 mm socket, remove 2 x screws from behind the door handle lever.

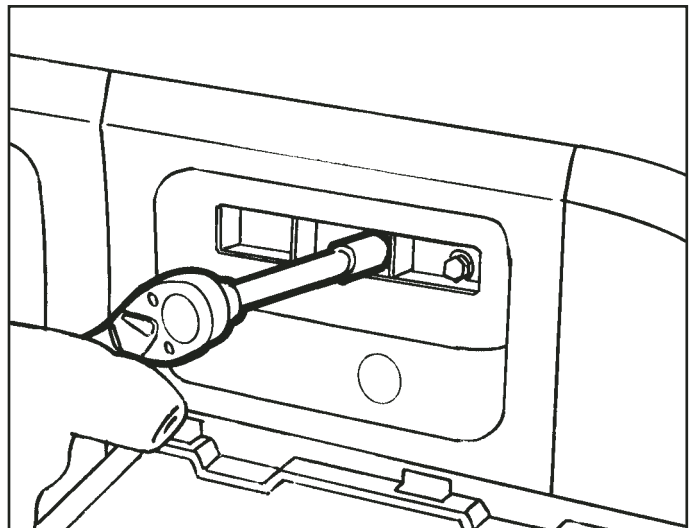


Figure 6

STEPS 7, 8 & 9

Step 7

Remove the speaker cover by inserting the flat blade screwdriver under the lower rear edge. Peel the speaker cover off along its lower edge, then along the front edge of the cover.

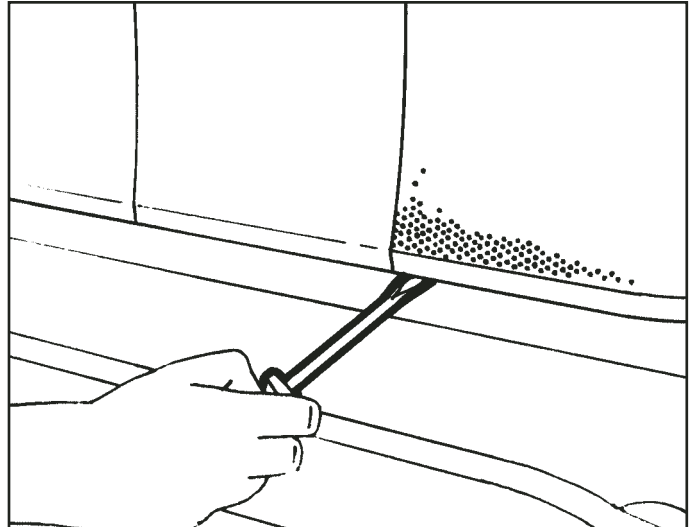


Figure 7

Step 8

Using a 5.5 mm socket remove the speaker screws (4x) and disconnect its electrical connector(s).

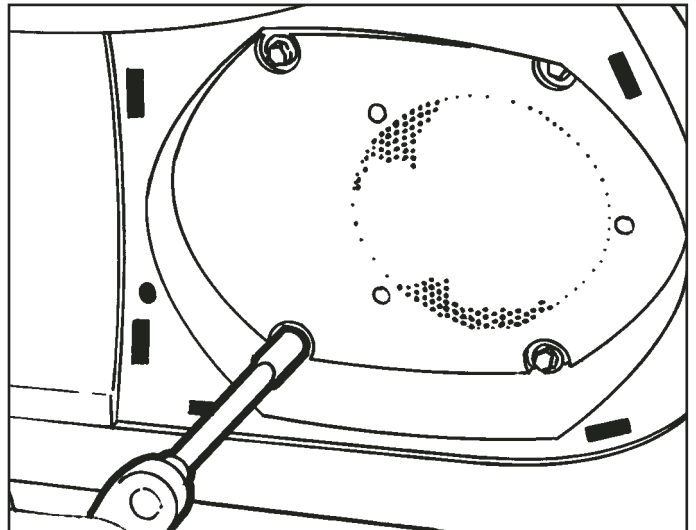


Figure 8

Step 9

Remove the 2 lower speaker mounts using needle nose pliers.

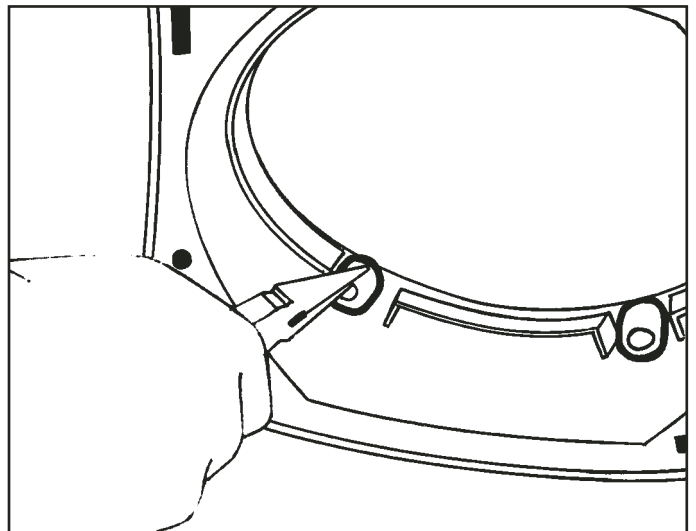


Figure 9

STEPS 10, 11 & 12

Step 10

Lift door trim panel up and away from the door.



Figure 10

Step 11

Feed the door handle lever through the door trim panel.

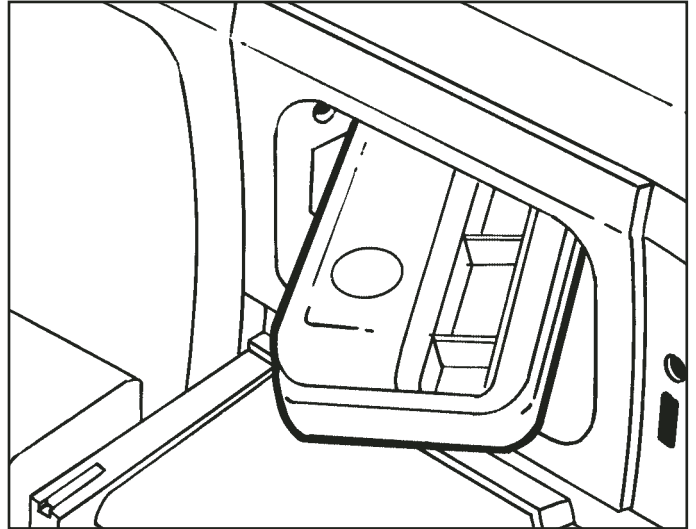


Figure 11

Step 12

Disconnect the mirror connector from the mirror.

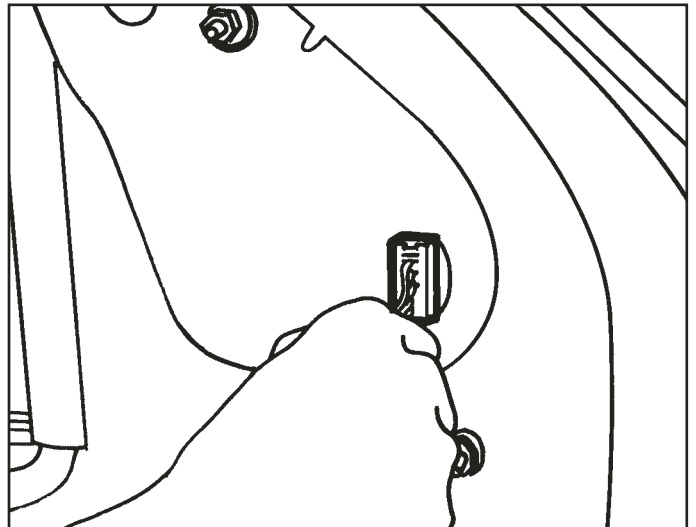


Figure 12

STEPS 13, 14, 15 & 16

Step 13

Remove the mirror sail gasket by slowly peeling and following the sealing bead.

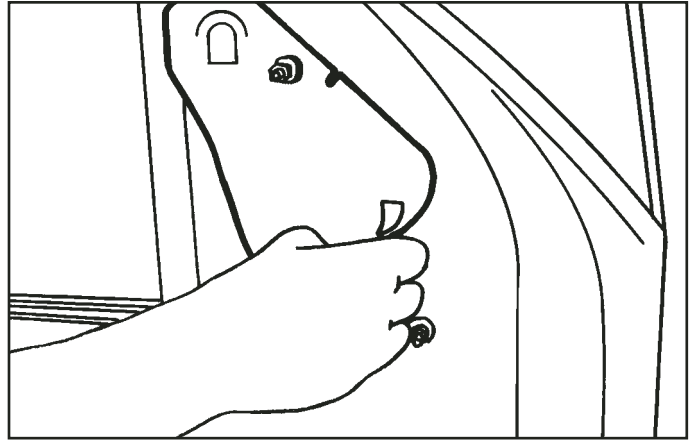


Figure 13

Step 14

With a deep socket, remove the 4 x 11 mm nuts that hold the mirror.

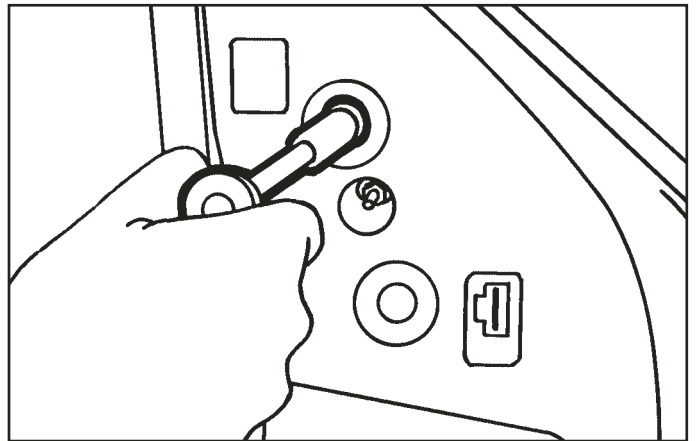


Figure 14

Step 15

Remove the mirror from the outside of the vehicle by pulling firmly on the top retaining stud/clip, exposing the door.

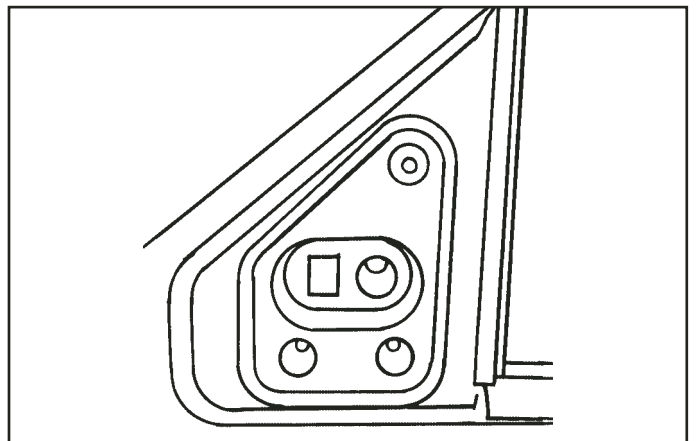


Figure 15

Step 16

Manual or Electric Versions only:
Install TTT mirror by reversing the above steps (steps 15 through to Step 1) and then go to Final Steps.

Electric, Heated Glass, Turn Signal and Clearance Light Versions:
Attach the TTT mirrors to the vehicle using a deep socket for the 4 X 11 mm nuts (reverse of Step 14).

The recommended maximum mirror attachment torque is 8.0 – 10.0 Nm or 10.8 – 13.6 ft lb.

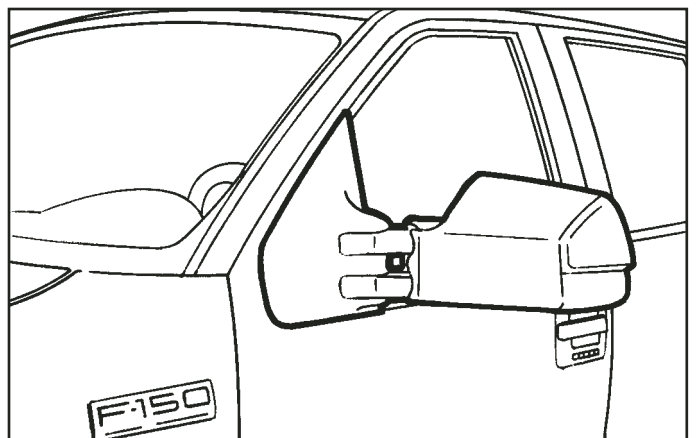


Figure 16

STEPS 17, 18 & 19

Proceed to Step 17 for fitment of the Clearance Light Feature.

Step 17

On the LH/driver side of the vehicle, remove a portion of the door/body seal molding to expose the instrument panel end cover plate.

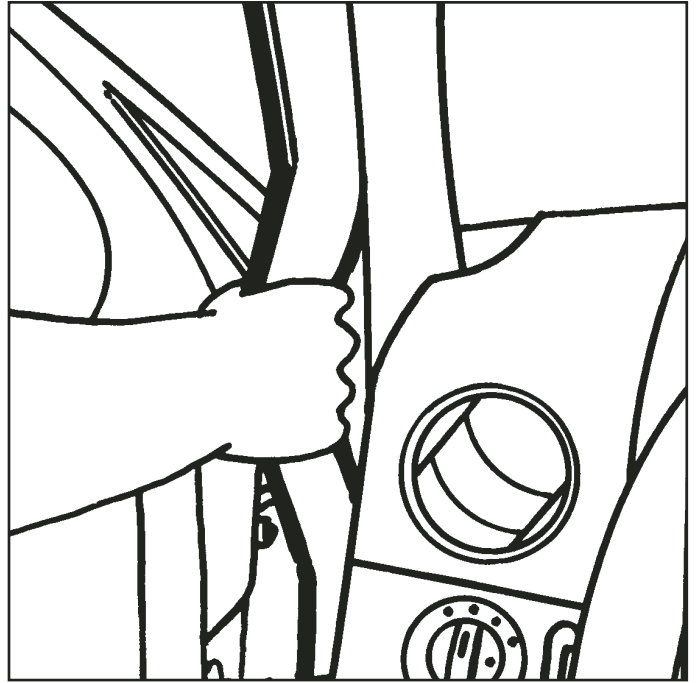


Figure 17

Step 18

Remove the LH/driver instrument panel end cover plate by pulling from the bottom air conditioner vent.

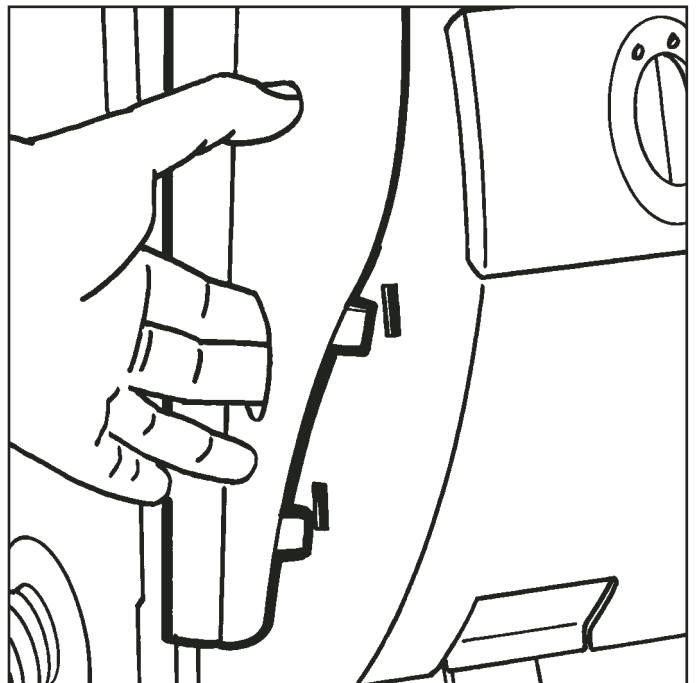


Figure 18

Step 19

Locate the light switch fob on the instrument panel. Use needle nosed pliers to remove the light switch fob by disengaging the 4 snap clips from the rear. Push the light switch fob out of the instrument panel.

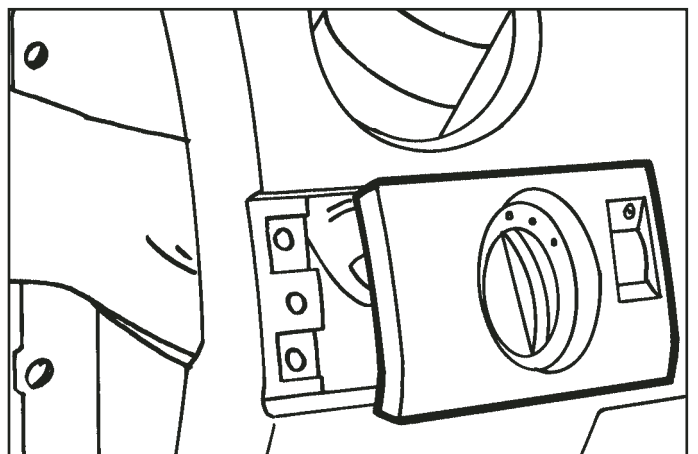


Figure 19

STEPS 20, 21 & 22

Step 20

Expose the rear of the light switch fob connector (gray).
Identify the brown wire. (bottom outboard)

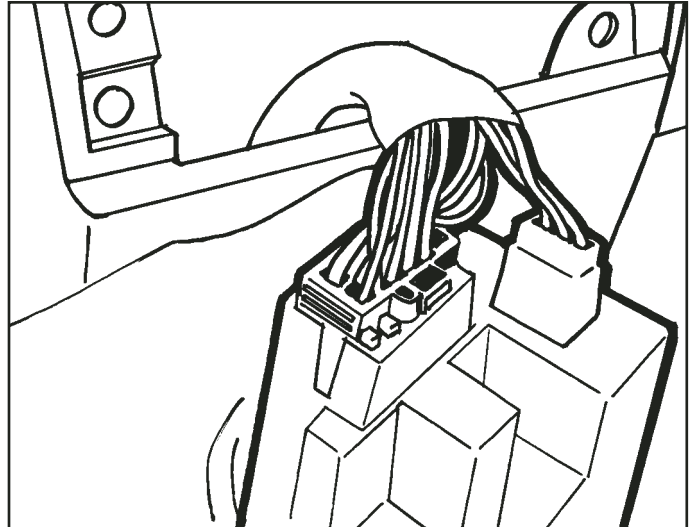


Figure 20

Step 21

Release the LH/driver front end of the kickboard trim panel
by pulling up on the front.

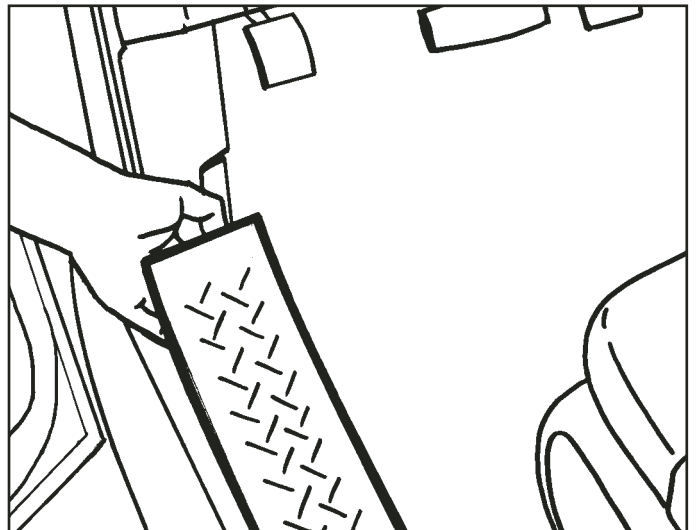


Figure 21

Step 22

Remove the hood release lever.

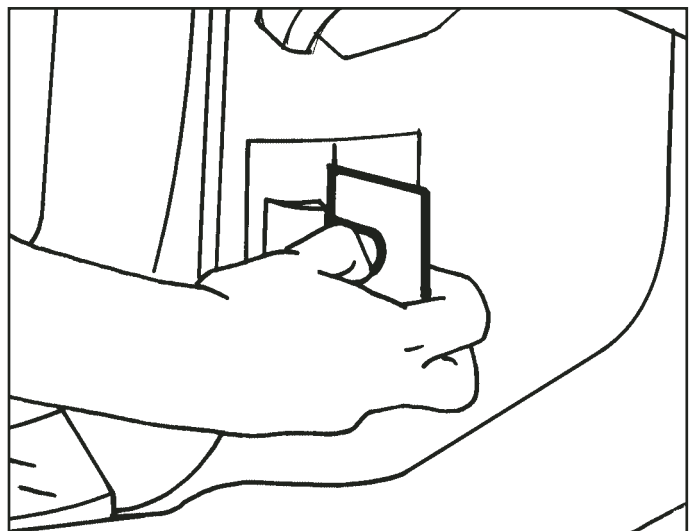


Figure 22

STEPS 23, 24 & 25

Step 23

Remove the lower A-pillar floor trim by pulling up at the base, exposing the door wiring grommet.

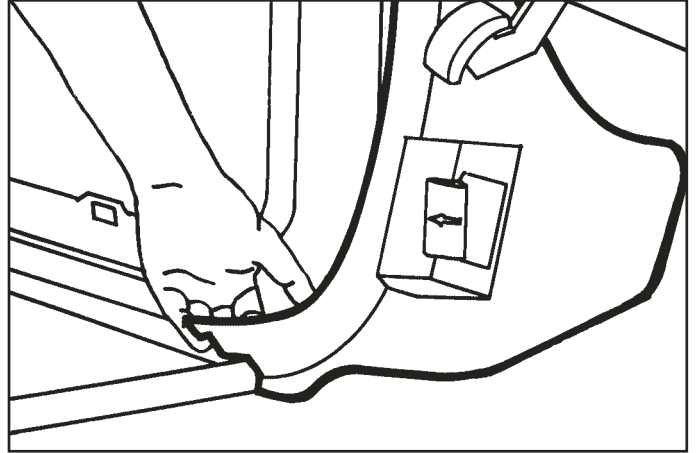


Figure 23

Steps 24 & 25

Remove the door wiring grommet from the body side of the vehicle.

Attach the LH extension wire to the clearance light mirror wire portion, and following the existing harness routing, go through the door wire grommet.

Connect the extension wire into the brown wire as identified in Step 20.

Refer Sub-Step – Wire Connection.

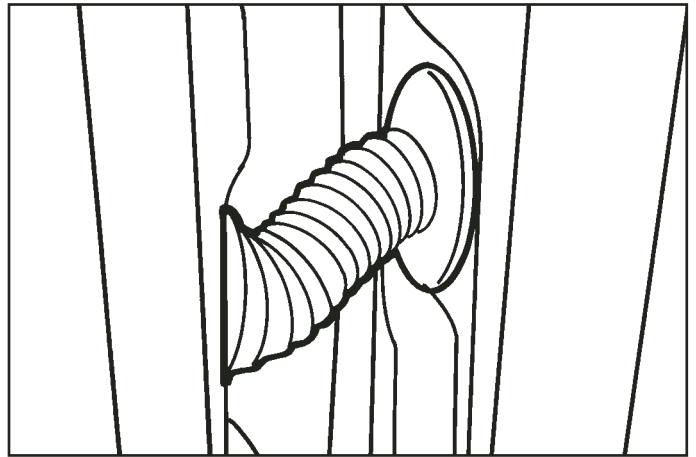


Figure 24

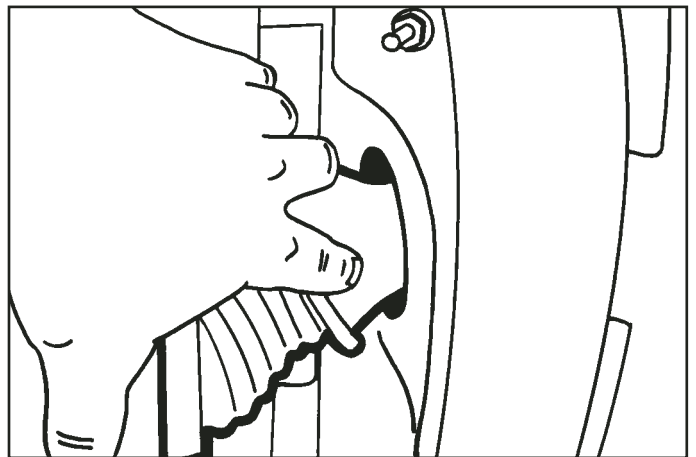


Figure 25

STEPS 26, 27, 28 & 29

Step 26

On the RH passenger side of the vehicle, remove the front end of kickboard trim panel by pulling up the front.

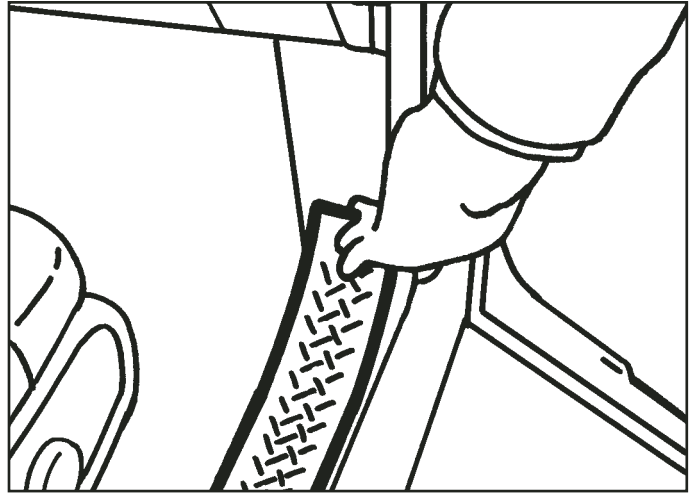


Figure 26

Step 27

Remove the fuse/floor trim by pulling it up at the base, exposing the door wiring grommet.

Remove the fuse/floor trim by pulling up at the base exposing the door wiring grommet.

Attach the RH extension wire (longest) to clearance light mirror wire portion and following the existing harness routing, going through the door wire grommet.

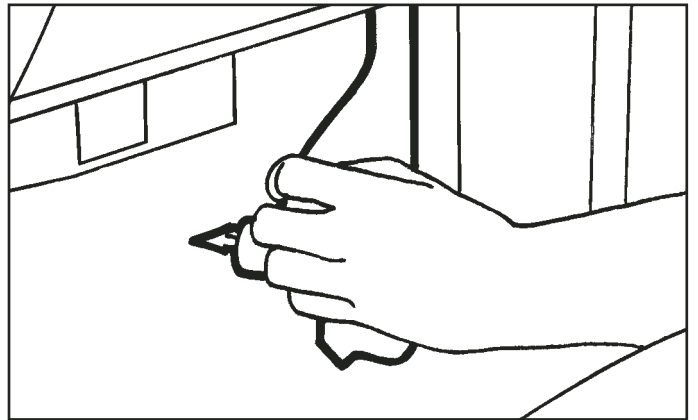


Figure 27

Step 28

Run the wire under the instrument panel to the LH side of the vehicle.

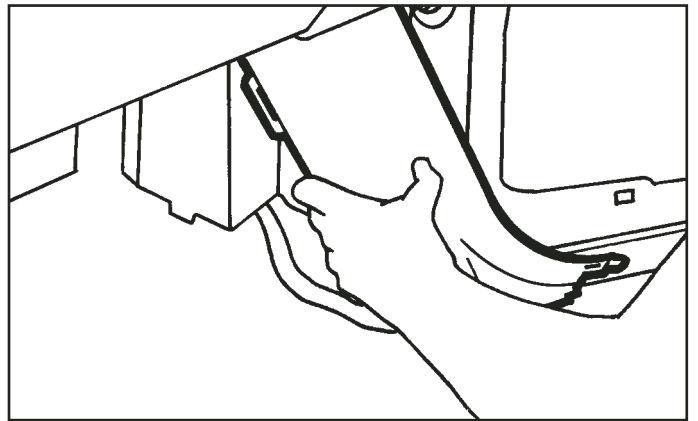


Figure 28

Step 29

Connect the extension wire into the LH extension wire just short of the brown wire.

STEP 30

Step 30

Complete the installation by replacing all parts removed during fitment (Refer through Steps 32 back to Step 1).

Final Step

Reconnect the vehicle battery.

Test the mirror operation:

For the clearance lights, turn the vehicle lights on.

Both mirror lights (4 forward facing LEDs) should illuminate.

For the turn signals, turn the key to the accessory position.

Move the turn signal stalk to indicate a LH turn.

The LH turn signal in the mirror (6 forward facing LEDs) should illuminate .

Repeat for the RH mirror.

For the heated glass, carefully touch the glass surface of each mirror after the ignition key has been in the 'ACC' position for about one minute.

Note: Be careful touching the glass, as it can become warm to the touch, but will not burn unless left in contact with the skin for a prolonged period of time).