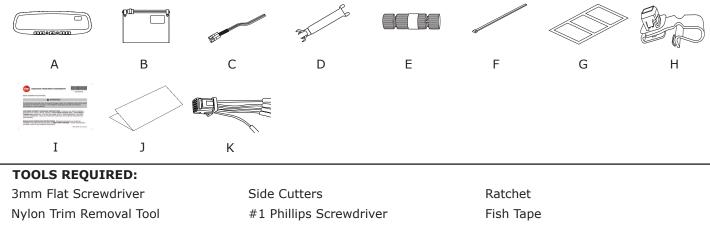


GENUINE PARTS

INSTALLATION INSTRUCTIONS

DESCR	IPTION	N: Auto Dimming Mirror with HomeLink® and Compass				
APPLICATION: Murano						
PART NUMBER: 999L1 V3000						
KIT CO	DNTENT	Ś:				
Item	Qty.	Part Description	Service Part Number			
А	1	EC Compass HomeLink® Mirror	999L1 VZ000			
В	1	Parts Kit 999L1 V3002				
С	1	Harness Assembly - Ignition, Battery and Ground				
D	1	Wire Cover				
E	3	Posi-tap				
F	9	Wire Tie				
G	9	Foam Tape				
Н	1	Tether Clip (A-Pillar)	76988 5AA1A			
I	1	Manual, Installation Instruction Download	999V2 AW000			
J	1	User Guide				
К	1	Accessory Service Connector (NOT INCLUDED IN KIT)	999Q9 AY001			



T20 Torx Bit Screwdriver Clean Rag 10mm Socket

Fish Wire

PRE-INSTALLATION WARNINGS, CAUTIONS, CRITICAL STEPS, and NOTES:

- Dealer Installation Recommended. Instructions may refer to Service Manual.
 - For HomeLink Troubleshooting refer to page 18 or call 1-800-355-3515 for assistance.

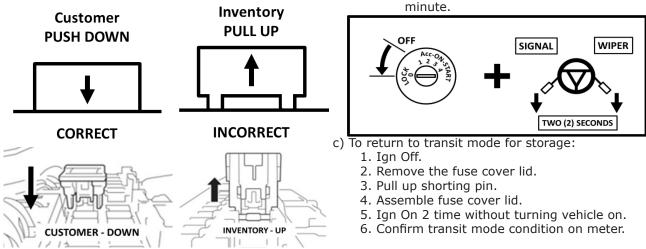
A CAUTION

- This is a universal kit so all parts may not be used.
- Place removed vehicle trim components in a clean, dry area to prevent damage.

HOMELINK® AND THE HOMELINK HOUSE® ARE REGISTERED TRADEMARKS OF GENTEX, CORPORATION.

• Always confirm the ignition is in "OFF" position before changing switch condition.

- 1) Apply parking brake.
- 2) Confirm vehicle is no longer in default shipping state or "inventory position" as shown below. Failure to confirm vehicle has been removed from this state will result in loss of normal vehicle operation. The confirmation requires two checks:
- 3) Locate Extended Storage Switch in cabin fuse block. Confirm it is in the "Customer" position. See below for reference.
 - a) To remove transit mode(Fuse Block):
 - 1) Remove fuse cover lid.
 - 2) Push down shorting pin.
 - Ign On 2 times without starting the vehicle.
- b) To remove transit mode (BCM):
 - 1) Confirm ignition switch is in "OFF" position.
 - 2) Simultaneously push signal and wiper switch switch fully down for two (2) seconds.
- **Note:** While in BCM Transit Mode, turn signal indicators will remain illuminated for one minute



Note: Typical vehicle condition shown above. Idenfity switch by permanent push-pull fuse holder. Actual position on fuse block may vary, vehicle to vehicle.

Condition	Switch Position	Note
Vehicle is delivered to dealer	Inventory Condition	
Technician performs PDI	Customer Delivery	Return to Inventory position after PDI
Customer test drives vehicle	Customer Delivery	Return to Inventory position after test drive
Vehicle stored at dealer	Inventory Condition	
Vehilce delivered to customer	Customer Delivery	

Note: The Storage Switch is an aid to improve battery life during vehicle storage at the dealer. If the Extended Storage Switch fuse ever needs service after vehicle delivery, discard Extended Storage Switch and install correct fush in its place.

- 4) Turn ignition swtich to "**ON**" position.
- 5) Record the customer radio presets and other presents as required.

Presets	1	2	3	4	5	6	

6) Put shift lever in "P" position for A/T and CVT or "1st" for M/T

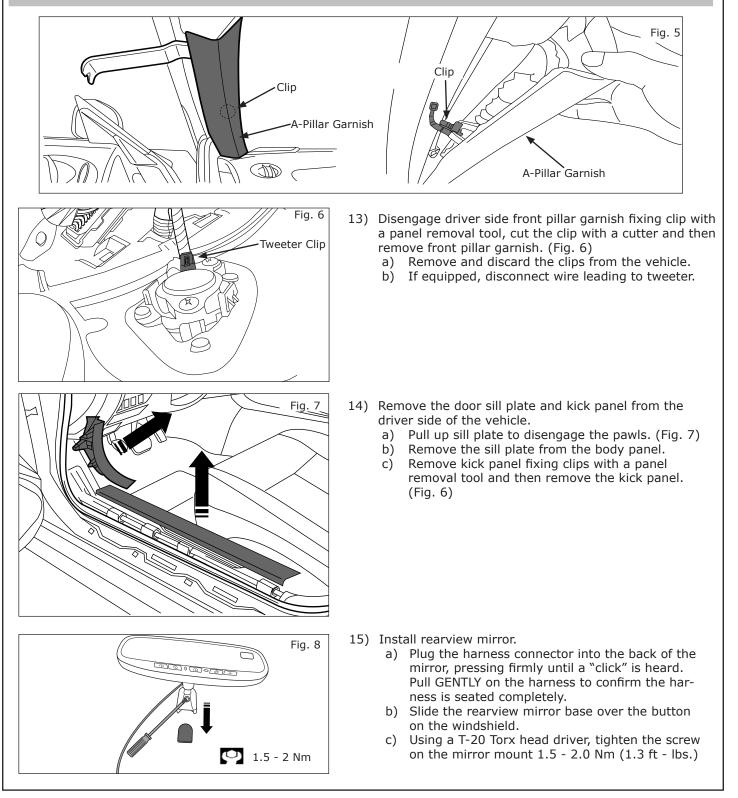
7) Turn ignition switch to **"OFF"** position

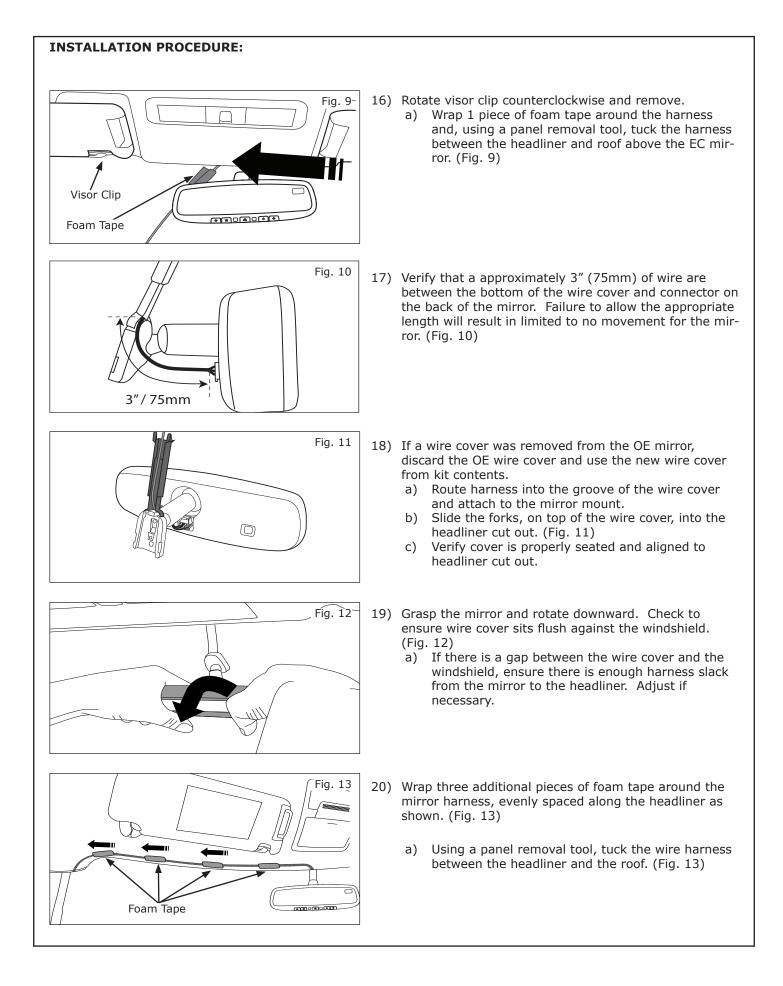
8) Use seat and floor protection.

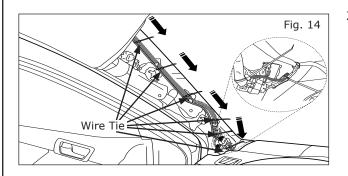
INSTALLATION PROCEDURE: A CAUTION Allow 3 min after key off and doors closed for vehicle to time out (if doors are opened again additional time may be required). Allow an additional 3 min after negative terminal disconnect before seperating any electrical connectors. 9) Using a 10mm socket and ratchet, disconnect the Fig. 1 negative battery terminal. (Fig. 1) **A** CAUTION Do not use excessive force when removing OE mirror from windshield. The window button may seperate from windshield or the windshield could break. 10) Remove the OE rearview mirror. (Fig. 2) Fig. 2 a) Slide flat end of 3mm screwdriver into opening at bottom of mirror mount until resistance is felt. b) Apply additional upward force and twist 90 degrees to lift lock spring. Lift mirror upward off mirror mount while applying c) pressure with screwdriver. Locking Mirror Mount Tool Windshield Button Fig. 3 11) Discard mirror. 12) Using a panel removal tool, loosen the driver side Fig. 4 weather strip and remove from the top of the A-pillar to the insturment panel. (Fig. 4)

A CAUTION

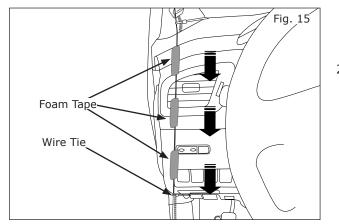
- Exercise caution when removing and installing LH front pillar garnish due to side airbag placement. Reference Figure 5 below for further detail.
- Do **NOT** re-use LH front pillar garnish clip. LH front pillar garnish clip (P/N 76988 5AA1A) **MUST** be replaced during re-installation of garnish.



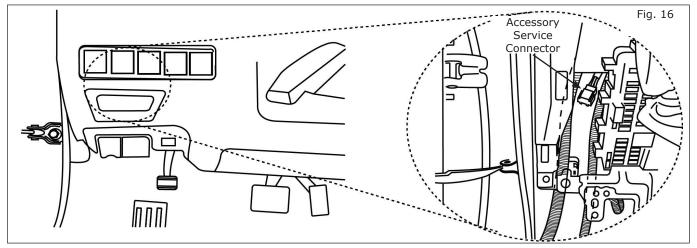




21) Route the harness down the driver side A-pillar and premeasure foam tape location. Secure to the existing vehicle harness with 6 wire ties. At the base of the A-pillar tuck the mirror harness behind the vehicle harness and route through the top side of the square shaped opening located below the vehicle conncetors. (Fig. 14)



22) Wrap 3 pieces of foam tape around the mirror harness and, using fish tape feed the harness from the upper dash, behind the fuse box and through to the lower driver side kick panel area. Secure the EC mirror harness to the body harness in the driver side kick panel area with 1 wire tie. (Fig. 15)



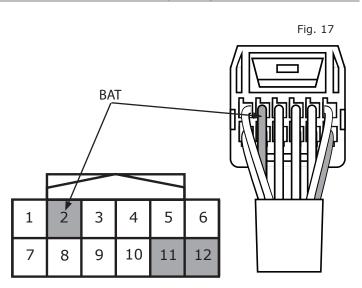
- 23) Routing the harness
 - a) Locate the driver side Accessory Service Connector up under the dash along the left side of the fuse block, on the driver side of the vehicle. (Fig. 16)
 - Note: A previously installed accessory connector may be present. If so, carefully remove the accessory connector harness from the plug before posi-tapping. It is recommended that all posi-tapping be completed before reattaching the accessory connector to the plug.

CAUTION

This Accessory Service Connector is for use only with Genuine Nissan (or Infiniti) or Nissan (or Infiniti) approved accessories. Use of this connector with non Genuine Nissan (or Infiniti) or Nissan (or Infiniti) approved accessories or failure to follow the installation instructions for the connector contained in this package may result in damage to the accessory and/or your vehicle. Nissan (or Infiniti) is not liable for loss or damage due to improper installation or the installation of non Genuine or non approved accessories.

Posi-TapTM is protected by patent # 5,228,875 5,695,369 5,868,589 6,692,313 Jap 2881414 Aus 708700 Tia 103534 Can 2204826 Mex 200626 Korea 477279 China Z197105562.9 & others pending.

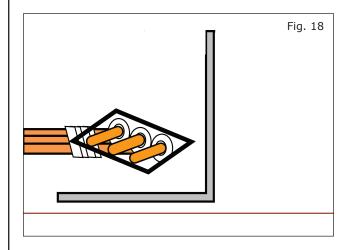
999Q9 AY001					
Pin	Label	Color			
1	IGN	WHITE			
2	BAT	RED			
3	TL_LMP	PURPLE			
4	RM LMP	YELLOW			
5	BATSVR	PINK			
6	FR_DR_SW_RH	GRN			
7	FR_DR_SW_LH	LT GRN			
8	THRU SIGNAL 1	GREY			
9	RR_DR_RH	BLUE			
10	RR_DR_LH	LT BLUE			
11	ACC	ORANGE			
12	GND	BLACK			

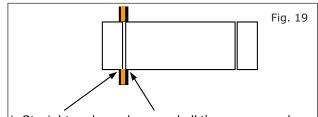


- 24) Using a posi-tap, connect the BLACK WIRE W/ SILVER CONDUCTOR from the mirror harness to the BLACK wire on the accessory connector harness. Using a posi-tap, connect the BLACK WIRE W/WHITE TRACE & COPPER CONDUCTOR from the mirror harness to the ORANGE wire on the accessory connector harness. Using a posi-tap, connect the BLACK WIRE WITH THE BLUE DOT & COPPER CONDUCTOR from the mirror harness to the RED wire on the accessory connector harness. (Fig. 17)
 - a) Reference Page 19 for additional wiring details.
 - b) See Step 23 37 for posi tap installation instructions.

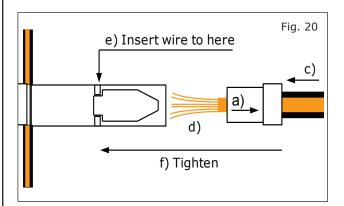
Verify mirror has been wired properly.

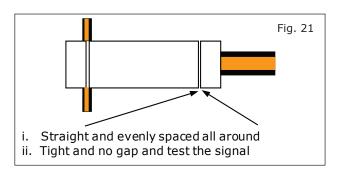
Note: Be sure NOT to posi-tap through the shrink tubing. HARNESS NOT INCLUDED IN KIT. REFERENCE PART NUMBER 999Q9 AY001





 i. Straight and evenly spaced all the way around
 ii. **Tighten** and **minimize** gap (wire jacket should be crushed)





25) Tap accessory service wire. (Fig. 18)

- a) Identify and confirm correct wire in the Accessory Service Connector to be tapped.
- b) Remove cap (slot side) from tap body.
- c) Slide cap around single accessory wire.
- d) Position cap ≥ 6.35mm(0.25in) away from the heat shrink end of the Accessory Service Connector (measurement for first posi-tap installed on the circuit).
- e) Tighten the tap **TIGHT** with finger pressure.
- f) Tighten by another quarter turn.

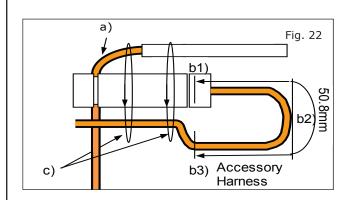
NOTE: Figures are not to scale.

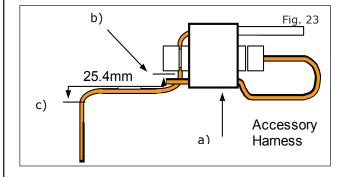
- 26) Inspect the tap to ensure correct installation. (Fig. 19)
 - a) Pull on wire lightly to ensure connection.
 - b) Inspect the tap to ensure correct installation.
 - c) Test signal to ensure that it is working.

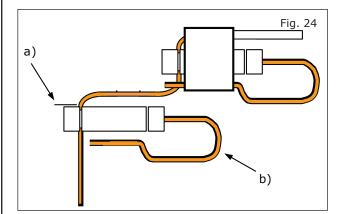
NOTE: Avoid putting pressure on the vehicle wire and tap for the remainder of the installation.

- 27) Tap accessory wire. (Fig. 20)
 - a) Remove tap (non-pierce) side from tap.
 - b) Remove the protective stub from the wire.
 - c) Insert wire through the non-pierce side.
 - d) Spread the individual strands into fan shape.
 - e) Insert wire into the tap body and ensure that it is all the way in.
 - f) Tighten the tap **TIGHT** with finger pressure.
 - g) Tighten by another quarter turn.

- 28) Confirm the tapped accessory wire. (Fig. 21)
 - a) Pull on the wire lightly to ensure connection.
 - b) Inspect the tap to ensure correct installation.
 - c) Test the signal to ensure it is working.





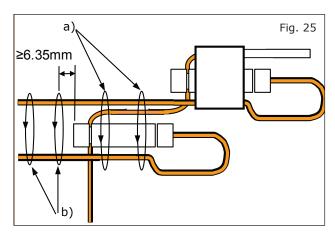


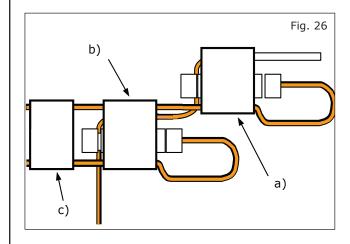
- 29) Forming strain relief loop (always required). (Fig. 22)
 - a) Gently bend the end of the pierced wire (where it exits the cap) down toward the body of the positap.
 - b) On the tapped wire of the non-piecrce side; starting at point b1) measure 50.8mm(2in.) to point b3). Make the first bend of the loop b2), half the distance measured 25.4mm(1in.), and up toward the body of the posi-tap, make the second bend of the loop b3).
 - c) Secure the pierced wire on the heat shrink side and the tapped wire on the non-pierce side to the body of the tap with electrical tape (≥2 Revolutions).

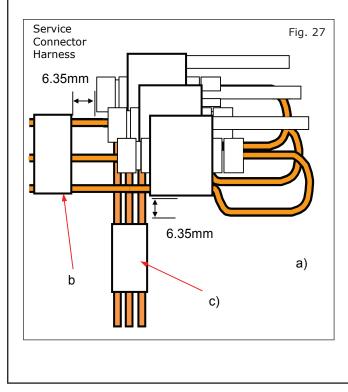
NOTE: If securing multiple taps to single circuit continue to Step 28, if tapping different circuits repeat steps 23-27 as required, then proceed to step 32.

- 30) Multiple posi-taps on the same wire; first tap. (Fig. 23)
 - a) The first accessory is tapped, relieved and secured as shown in Fig 17 thru 21 (these steps are always the same).
 - b) Measure 25.4mm(1in) from point b) to point c) on the pierced wire.
 - c) At points b) & c), bend the pierced wire gently to form the "staircase" shape.
- 31) Multiple posi-taps; second accessory. (Fig. 24)
 - a) Tap second accessory at point b), making sure to preserve "staircase shape".
 - After tapping second accessory, form a strain relief loop for the tapped wire on the non-pierce side as shown in Fig c) and detailed in step 5b.

NOTE: Do not secure before reading step 30. Repeat as necessary.



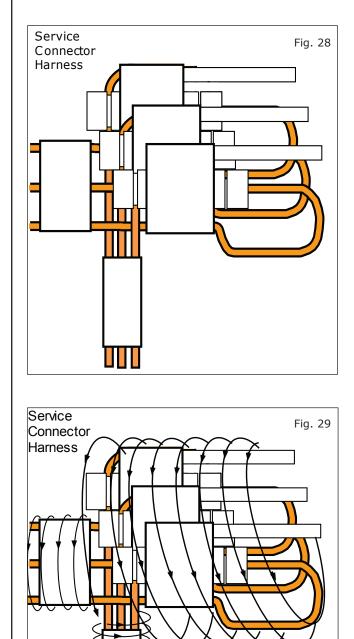




- 32) Securing multiple posi-taps on the same circuit (Fig. 25)
 - a) Secure the pierced and tapped wires from the first posi-tap, along with the tapped wire from the non pierce side of the 2nd posi-tap to the body of the 2nd tap with electrical tape (≥ 2 revolutions).
 - b) Secure the tapped wires from the non-pierced sides of each tap to each other with electrical tape (≥ 2 revolutions)at a distance of ≥6.35mm(0.25in) from the head of last posi-tap shown in Fig b).

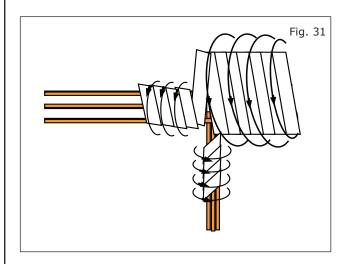
Note: No single wire should be posi-tapped more than 4 times to maintain integrity. Repeat as necessary

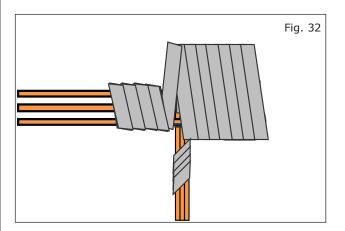
- 33) Multiple accessory taps on the same circuit secured. (Fig. 26)
 - a) The first accessory is tapped, relieved and has the pierced wire on the heat shrink side and the tapped wire on the non-pierce side secured to the first tap as shown in Fig a).
 - b) The second accessory is tapped, relieved and has the pierced wire, the tapped wire on the non-pierce side and the tapped wire from the non-pierce side of the first posi-tap secured to the second tap as shown in Fig b).
 - c) Finally the tapped wires on the non-pierce side of the first and subsequent posi-taps are secured to each other as shown in Fig c).
- 34) Multiple accessory taps on different circuits secured together. (Fig. 27)
 - a) The tapped accessories (with wires already secured to tap bodies)are stacked slightly staggered on top of each other as shown in Fig a).
 - b) The tapped wires on the non-pierce side of all the posi-taps are secured to each other with electrical tape (\geq 2 revolutions)at a distance of \geq 6.35mm(0.25in) as shown in Fig b).
 - c) The pierced wires of the first and subsequent positaps are secured to each other with electrical tape (≥ 2 revolutions)at a distance of ≥6.35mm(0.25in) as shown in Fig c).



- 35) Prep for foam wrap. (Fig. 28)
 - a) Make sure the accessory taps have been wrapped appropriately as detailed previously and as shown in Fig 28).

- 36) Pre- foam protective wrap. (Fig. 29)
 - a) Starting at the heat shrink; firmly wrap the positap bundle with electircal tape or non-adhesive wire harness tape, making sure to overlap the previous revolution.
 - Note: If using non adhesive tape secure at the of wrap with electrical tape ≥ 2 revolutions.

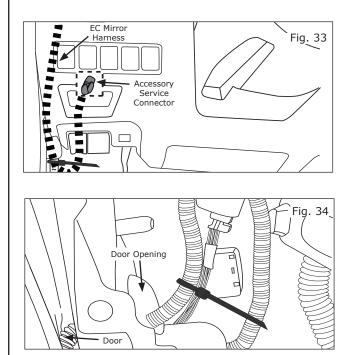


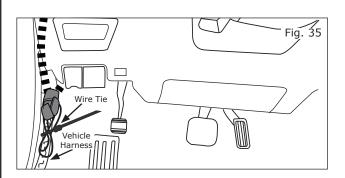


- 37) Finished protective wrap. (Fig. 30)
 - a) Make sure the finished wrap looks similar to (Fig 30).

- 38) Foam wrap for posi-tap bundle (foam strips) (Fig. 31)
 - a) Wrap the posi-tap bundle with foam tape, following a pattern similar to the electrical tape, making the best use of foam strips provided.

- 39) Finished foam wrap for bundle (strips-top view) (Fig. 32)
 - a) Make sure the finished wrap looks similar to Fig 32).





- 40) Route the Accessory Service Connector up under the dash to the accessory connector plug and plug the connectors together. (Fig. 33)
 - Note: Be sure the new harness routing does NOT interfere with the emergency brake in any way.
- 41) Wrap the connectors with 1 piece of foam tape and secure the harness to the corrugated tubing running through the opening to the door with 1 wire tie. (Fig. 34)

42) Route any extra wire along the existing harness, and bundle the EC mirror harness to the main body harness with a wire tie. (Fig. 35)

ACCESSORY CHECK:
Note: If errors are encountered during testing and compass calibration, see diagnostic flow charts, pages 16-18.
Testing
Tighten negative battery terminal nut to 5.4 Nm (47.8 in-lb). With ignition switch OFF, push each HomeLink® button one at a time and verify that the LED indica-
tor to the left of the center switch illuminates with a red LED (Fig. 37).
Turn the ignition switch to ON.
Ensure vehicle is in well lit area. Check to see that the green LED is illuminated. If it is not, press the " 🕁 " button to turn it on.
Cover the forward-looking photocell (located to the driver side of the wire harness connection on the back of the mirror) with a dark cloth or towel. After a few seconds, the mirror should begin to darken. Timing will vary with ambient light levels and a flashlight may be shined on the rearward photocell if needed, to accelerate effect. (Fig. 36)
Fig. 36 Fig. 37
HomeLink Buttons Window Green Rearward Photocell
Red LED /
Dark Cloth or Towel
Remove the cover from the forward-looking photocell and the mirror will begin to clear.
 Push the "-¹/₁-" button to ensure compass display shows either a direction such as "NE" or a "C", and that it can be turned ON and OFF. Testing is now complete.
Set Compass Zone
With the display turned "ON", push the "- $\hat{\mathbf{N}}$ -" button for 3 seconds, until a number appears in display (numbers correspond to regional compass zones).
Press and release " $-\hat{\mathbf{n}}$ -" button to scroll through zone numbers.
Release " " button when correct zone number is displayed (Fig. 38). Zone number will disappear and display will return to showing either a directional heading or a "C" after 5 seconds of no switch activity.
Fig. 38
Calibrate Compass
Drive vehicle in circles (360°) at 5 mph or less until compass display window shows a direction.
Check all Critical Installation Steps.
Check all torque values
Auto-Dimming mirror, pg. 4, step 13, fig. 8

I

ACCESSORY CHECK:
Verify all wiring is secure and not exposed.
Trim all excess cable ties flush.
Check all vehicle electrical systems that the accessory interfaces with.
Power mirror switch.
Traction control switch.
Hood Release
Fuel Door Release
RE-INSTALLATION OF REMOVED PARTS:
A CAUTION
Use caution when re-installing interior components to avoid damage, scratches, or breaking of mounting clips. Refer to the vehicle service manual for more information.
LH front pillar garnish. Insert 1 new clip (P/N 76988 1AF0A) into garnish hole ensuring long hook faces down. (Fig. 39a, Fig. 39b)
Fig. 39a Fig. 39b
Long Hook Faces Down
 Insert base of finisher. Insert panel removal tool between front pillar garnish bottom side and body side and press clips into body. Push garnish toward vehicle body to attach.
FINAL INSPECTION:
Verify re-installed trim parts for proper flush fit (no gap, no waviness, etc).
Verify all clips are fully engaged and locked.
Verify re-installed trim parts are free from cracks, scratches, or stress cracks.
Verify vehicle headliner, seat, steering wheel, center console, floor carpets, etc. are not soiled.
Verify interior and exterior is not damaged.
Turn ignition switch to "ON" and confirm proper operation of Vehicle Systems.
 If equipped, verify all window and sunroof one touch operation and perform the reset procedure if necessary. Refer to the vehicle service manual for more details. Confirm proper audio function (AM, FM, SAT, CD and AUX).
Re-program radio presets and other vehicle settings to the recorded settings.
Start engine and verify that there are no new Diagnostic Trouble Codes. Turn ignition switch to " OFF ".
Place the Owner Manual, Quick Reference Guide, and/or other Manual in the glove box.

