



GENUINE PARTS

INSTALLATION INSTRUCTIONS

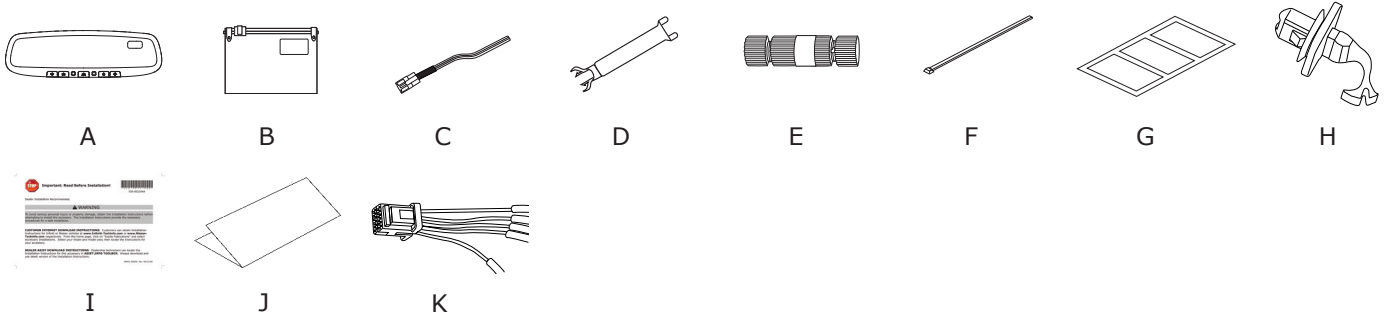
DESCRIPTION: Auto Dimming Mirror with HomeLink® and Compass

APPLICATION: Rogue

PART NUMBER: 999L1 VZ001

KIT CONTENTS:

| Item | Qty. | Part Description | Service Part Number |
|------|------|--|---------------------|
| A | 1 | EC Compass HomeLink® Mirror | 999L1 VZ000 |
| B | 1 | Parts Kit | 999L1 VZ002 |
| C | 1 | Harness Assembly - Ignition, Battery and Ground | |
| D | 1 | Wire Cover | |
| E | 3 | Posi-tap | |
| F | 9 | Wire Tie | |
| G | 9 | Foam Tape | |
| H | 2 | Tether Clip (A-Pillar) | 76988 3DN0A |
| I | 1 | Manual, Installation Instruction Download | 999V2 AW000 |
| J | 1 | User Guide | |
| K | 1 | Accessory Service Connector (NOT INCLUDED IN KIT) | 999Q9 AY001 |



TOOLS REQUIRED:

| | | |
|-------------------------|--------------------------|---------|
| 3mm Flat Screwdriver | Side Cutters | Ratchet |
| Nylon Trim Removal Tool | #1 Phillips Screwdriver | |
| Clean Rag | T20 Torx Bit Screwdriver | |
| Fish Wire | 10mm Socket | |

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.

⚠ CAUTION

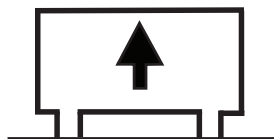
- This is a universal kit so all parts may not be used.
- Place removed vehicle trim components in a clean, dry area to prevent damage.

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

INSTALLATION PROCEDURE:

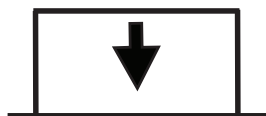
- 1) Apply parking brake.
- 2) Confirm the vehicle is no longer in the default shipping state (extended storage switch pulled up and BCM in transit mode). Failure to confirm the vehicle has been removed from this state will result in loss of normal vehicle operation. The confirmation requires two checks:
 - 2a) Locate the extended storage switch in the cabin fuse block. Once located, check that it is in the "customer" position. See below for reference.
 - 2B) To remove transit mode by doing as follows:
 1. Remove fuse cover lid
 2. Push down shorting pin
 3. Ign on 2 times without turn the vehicle on.

Inventory PULL UP



INCORRECT

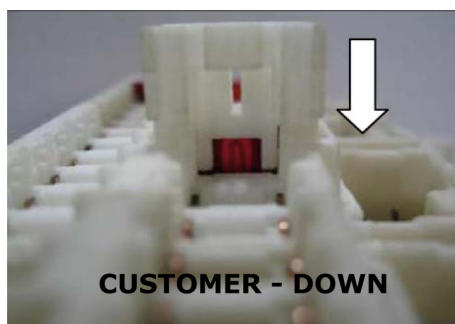
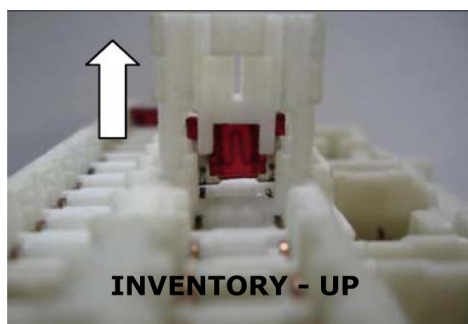
Customer PULL DOWN



CORRECT

To put transit mode back is by doing as follows:

1. Ign Off
2. Remove fuse cover lid
3. Pull up shorting pin
4. Assemble fuse cover lid
5. Ign On 2 times without turn the vehicle on.
6. Confirm transit mode condition on meter.



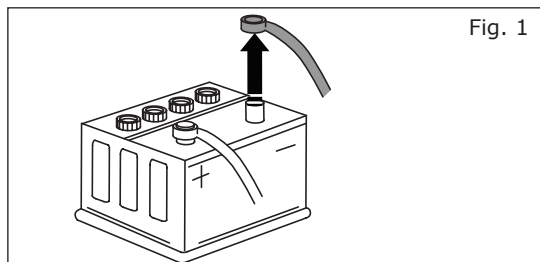
- 3) Record the customer radio presets and other presets as required.
- 4) Turn ignition switch to "ON" position.

| Presets | 1 | 2 | 3 | 4 | 5 | 6 | |
|---------|---|---|---|---|---|---|--|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

- 5) Put shift lever in "P" position for A/T and CVT or "1st" for M/T.
- 6) Turn ignition switch to "OFF" position.

⚠ 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 Positive terminal disconnect before separating any electrical connectors.

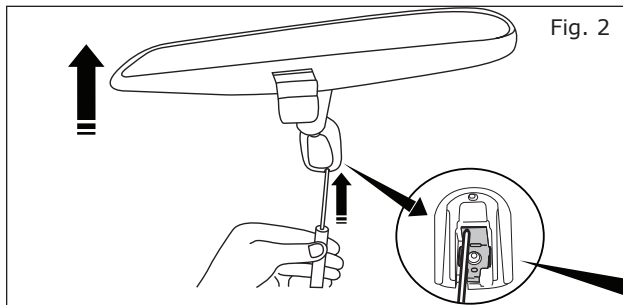


- 7) Using a 10mm socket and ratchet, disconnect the negative battery terminal. (Fig. 1)

INSTALLATION PROCEDURE:

⚠ CAUTION

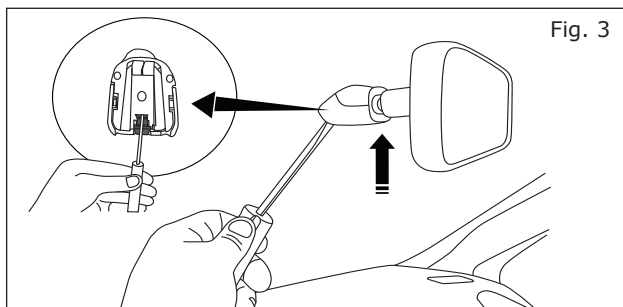
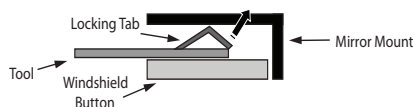
- Do not use excessive force when removing OE mirror from windshield. The window button may separate from windshield or the windshield could break.



- 8) Identify the first character of the vehicle VIN as either "5" or "K". If "5", remove the OE rearview mirror following step 8.1) or if "K" skip to step 8.2).

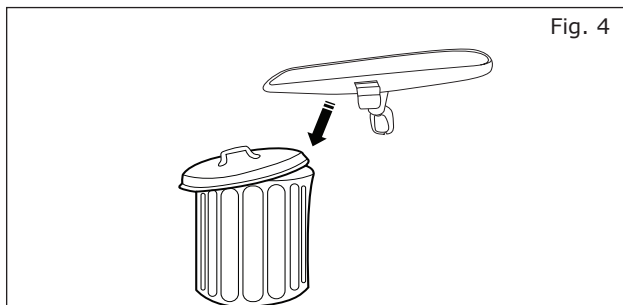
8.1)

- 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.
- c) Lift mirror upward off mirror mount while applying pressure with screwdriver.

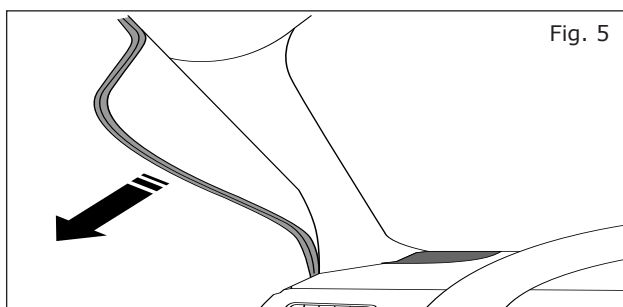


8.2)

- a) Insert the flat end of a 3mm screwdriver into the opening at the bottom of the mirror mount. (Fig. 3)
- b) Push screwdriver up into the mount to disengage locking tab.
- c) While still applying upward pressure with the screwdriver, grasp the mirror bracket and lift the mirror up towards the headliner and off the mirror mounting bracket.



- 9) Discard mirror.

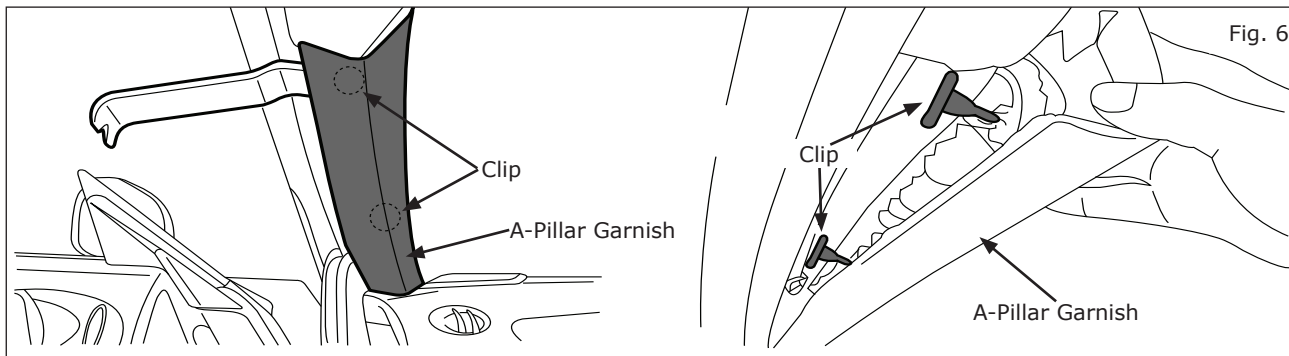


- 10) Using a panel removal tool, loosen the driver side weather strip and remove from the top of the A-pillar to the instrument panel. (Fig. 5)

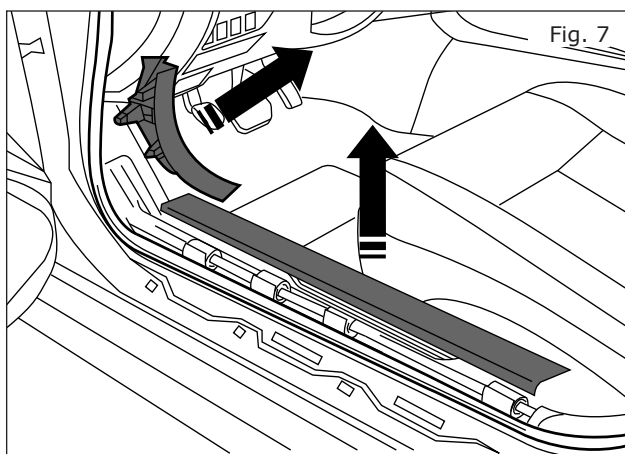
INSTALLATION PROCEDURE:

⚠ CAUTION

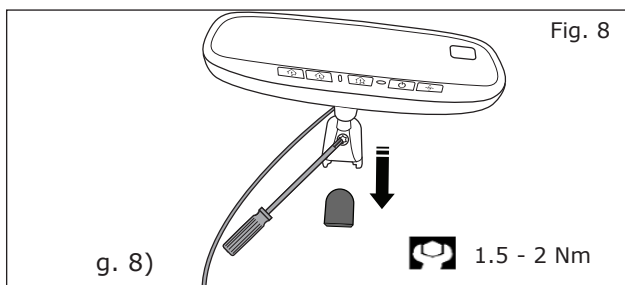
- Exercise caution when removing and installing LH front pillar garnish due to side airbag placement. Reference Figure 5 below for further detail.
- Do **NOT** re-use LH front pillar garnish clip. LH front pillar garnish clip (P/N 76988 3DN0A) **MUST** be replaced during re-installation of garnish.



- 11) Disengage driver side front pillar garnish fixing clip with a panel removal tool, cut the clip with a cutter and then remove front pillar garnish.
- a) Remove and discard the clips from the vehicle.

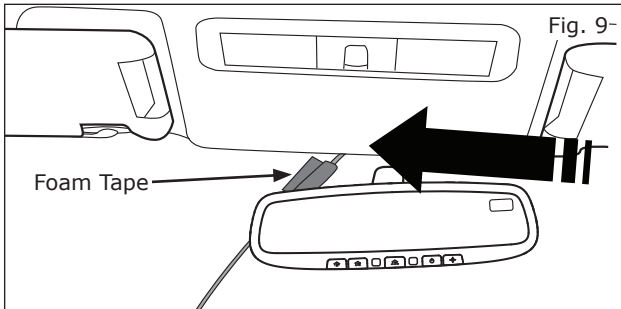


- 12) Remove the door sill plate and kick panel from the driver side of the vehicle.
- a) Pull up sill plate to disengage the pawls. (Fig. 7)
- b) Remove the sill plate from the body panel.
- c) Remove kick panel fixing clips with a panel removal tool and then remove the kick panel. (Fig. 7)

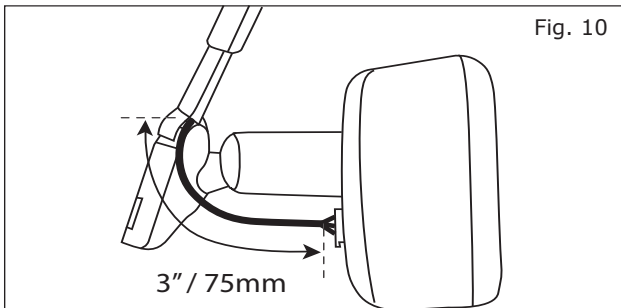


- 13) Install rearview mirror.
- a) Plug the harness connector into the back of the mirror, pressing firmly until a "click" is heard. Pull GENTLY on the harness to confirm the harness is seated completely.
- b) Slide the rearview mirror base over the button on the windshield.
- c) Using a T-20 Torx head driver, tighten the screw on the mirror mount 1.5 - 2.0 Nm (1.3 ft - lbs.)

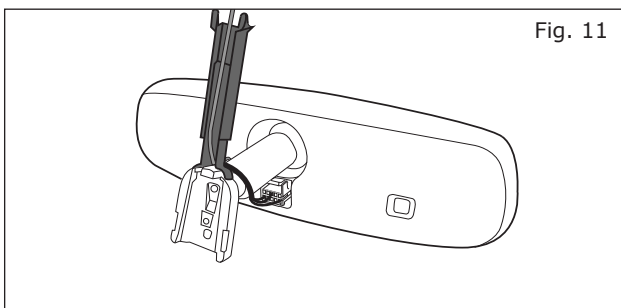
INSTALLATION PROCEDURE:



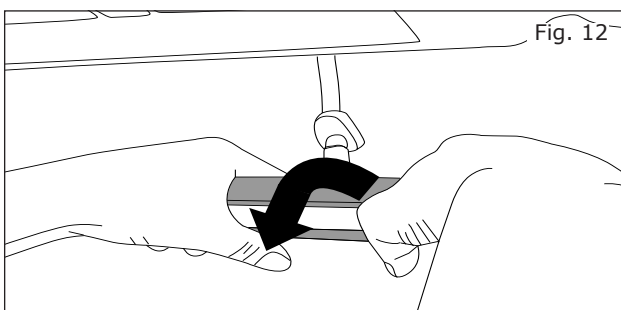
- 14) Wrap 1 piece of foam tape around the harness and, using a panel removal tool, tuck the harness between the headliner and roof above the EC mirror. (Fig. 9)



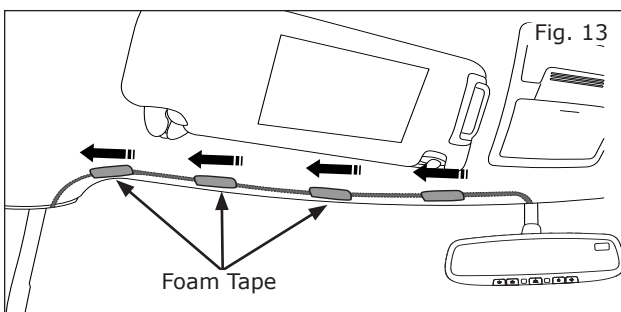
- 15) Verify that a approximately 3" (75mm) of wire are between the bottom of the wire cover and connector on the back of the mirror. Failure to allow the appropriate length will result in limited to no movement for the mirror. (Fig. 10)



- 16) If a wire cover was removed from the OE mirror, discard the OE wire cover and use the new wire cover from kit contents.
- Route harness into the groove of the wire cover and attach to the mirror mount.
 - Slide the forks, on top of the wire cover, into the headliner. (Fig. 11)
 - Verify cover is properly seated and aligned.

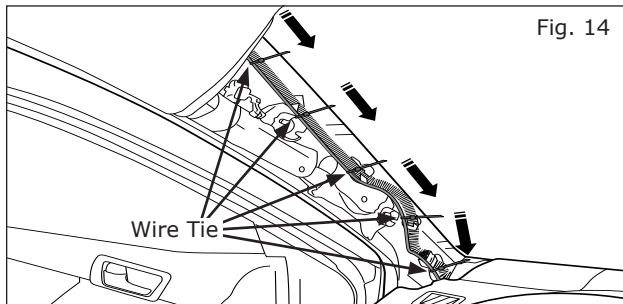


- 17) Grasp the mirror and rotate downward. Check to ensure wire cover sits flush against the windshield. (Fig. 12)
- If there is a gap between the wire cover and the windshield, ensure there is enough harness slack from the mirror to the headliner. Adjust if necessary.

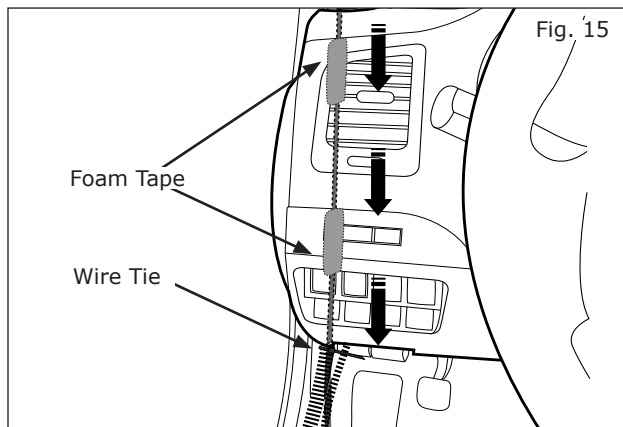


- 18) Wrap three additional pieces of foam tape around the mirror harness, evenly spaced along the headliner as shown. (Fig. 13)
- Using a panel removal tool, tuck the wire harness between the headliner and the roof. (Fig. 13)

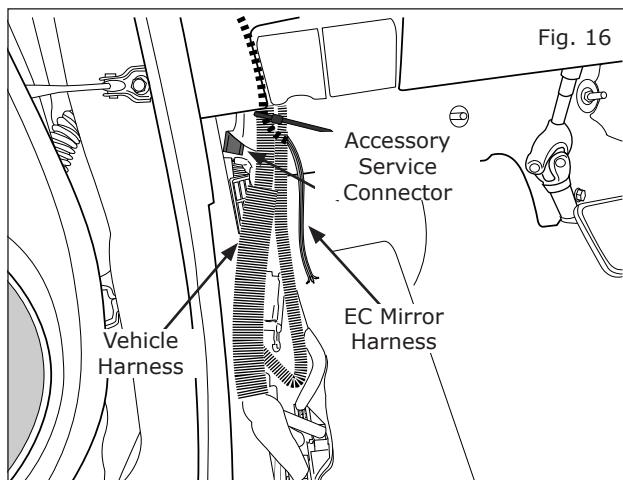
INSTALLATION PROCEDURE:



- 19) Route the harness down the driver side A-pillar and secure to the existing vehicle harness with 5 wire ties. (Fig. 14)



- 20) Wrap 2 pieces of foam tape around the mirror harness and feed the harness through the top of the dash near the a-pillar. Feed the harness from the upper dash 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)



- 21) Locate the driver side Accessory Service Connector. It will be located up under the dash along the main body harness assembly, on the left side of the vehicle. Carefully pull the plug out for easier access. (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.

INSTALLATION PROCEDURE:

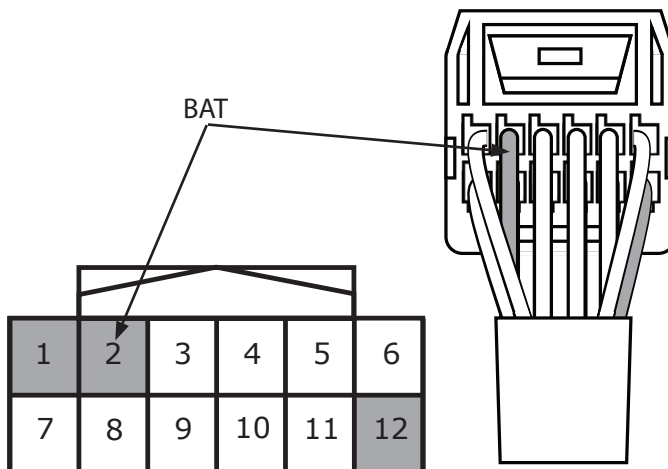
CAUTION

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-Tap™ 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.

Fig. 17

| 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 |



- 22) 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 WHITE 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)

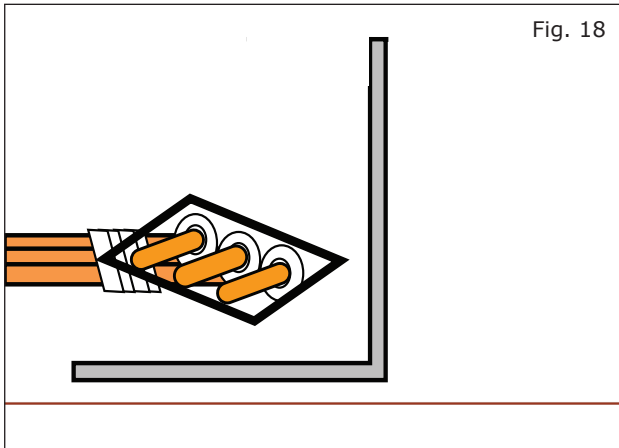
- Reference Page 19 for additional wiring details.
- See Step 23 - 37 for posi tap installation instructions.



Verify mirror has been wired properly.

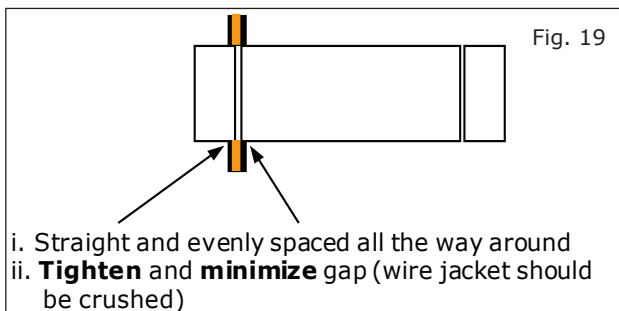
**Note: Be sure to NOT to posi-tap through the shrink tubing.
HARNESS NOT INCLUDED IN KIT. REFERENCE PART NUMBER 999Q9 AY001**

INSTALLATION PROCEDURE:



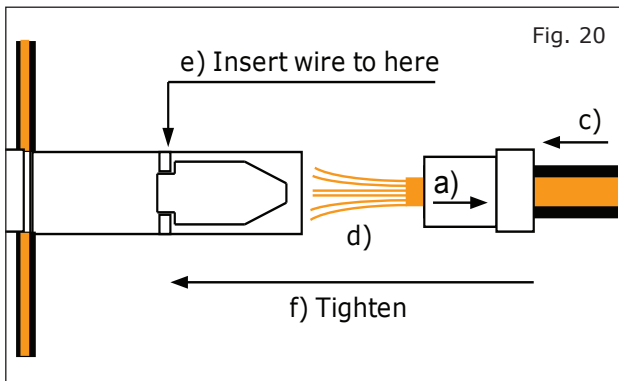
- 23) Tap accessory service wire. (Fig. 18)
 - a) Identify and confirm correct wire in the Accessory Service Connector to be tapped.
 - b) Remove cap (slot side) from tap body.
 - c) Slide cap around single accessory wire.
 - d) Position cap $\geq 6.35\text{mm}(0.25\text{in})$ away from the heat shrink 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.

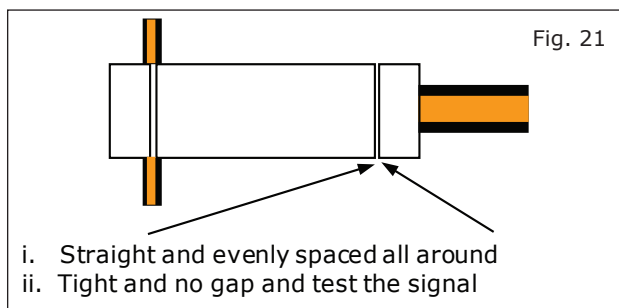


- 24) Inspect the tap to ensure correct installation. (Fig. 19)
 - a) Pull on wire lightly to ensure connection.
 - b) Inspect the tap to ensure correct installation.
 - c) Test signal to ensure that it is working.

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

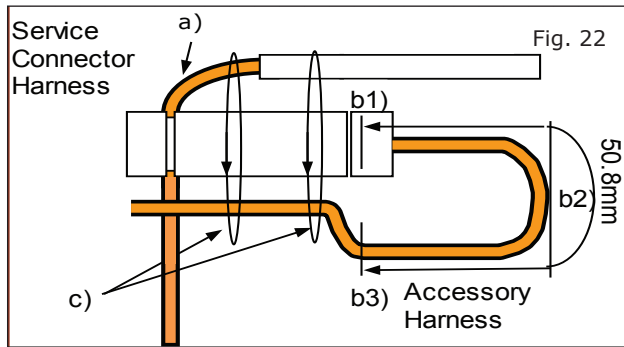


- 25) Tap accessory wire. (Fig. 20)
 - a) Remove tap (non-pierce) side from tap.
 - b) Remove the protective stub from the wire.
 - c) Insert wire through the non-pierce side.
 - d) Spread the individual strands into fan shape.
 - e) Insert wire into the tap body and ensure that it is all the way in.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



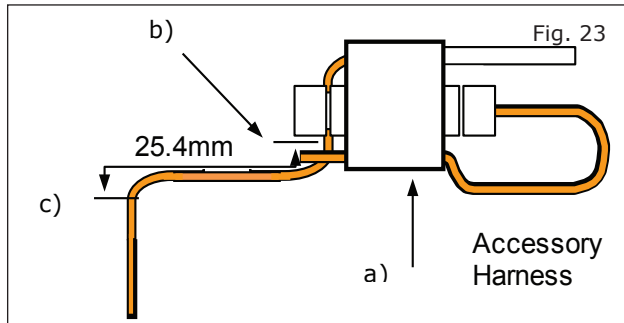
- 26) Confirm the tapped accessory wire. (Fig. 21)
 - a) Pull on the wire lightly to ensure connection.
 - b) Inspect the tap to ensure correct installation.
 - c) Test the signal to ensure it is working.

INSTALLATION PROCEDURE:

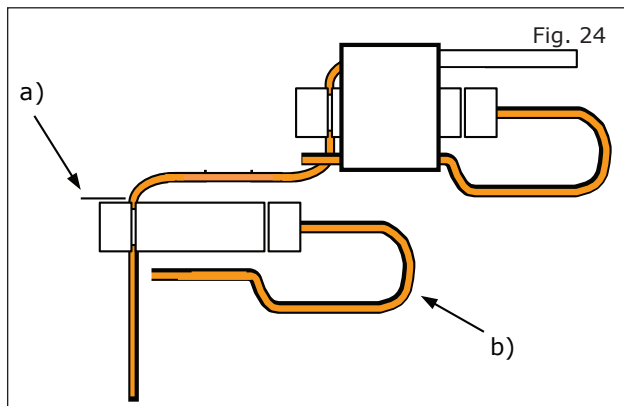


- 27) Forming strain relief loop (always required). (Fig. 22)
- Gently bend the end of the pierced wire (where it exits the cap) down toward the body of the posi-tap.
 - On the tapped wire of the non-pierced side; starting at point b1) measure 50.8mm(2in.) to point b3). Make the first bend of the loop 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).
 - 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.



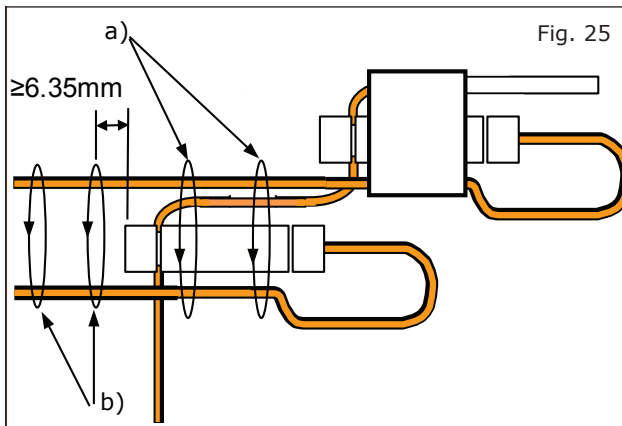
- 28) Multiple posi-taps on the same wire; first tap. (Fig. 23)
- The first accessory is tapped, relieved and secured as shown in Fig 18 thru 22 (these steps are always the same).
 - Measure 25.4mm(1in) from point b) to point c) on the pierced wire.
 - At points b) & c), bend the pierced wire gently to form the "staircase" shape.



- 29) Multiple posi-taps; second accessory. (Fig. 24)
- 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 27b).

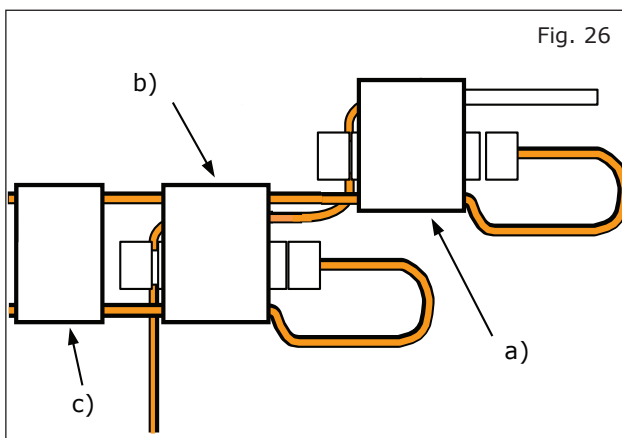
NOTE: Do not secure before reading step 30. Repeat as necessary.

INSTALLATION PROCEDURE:

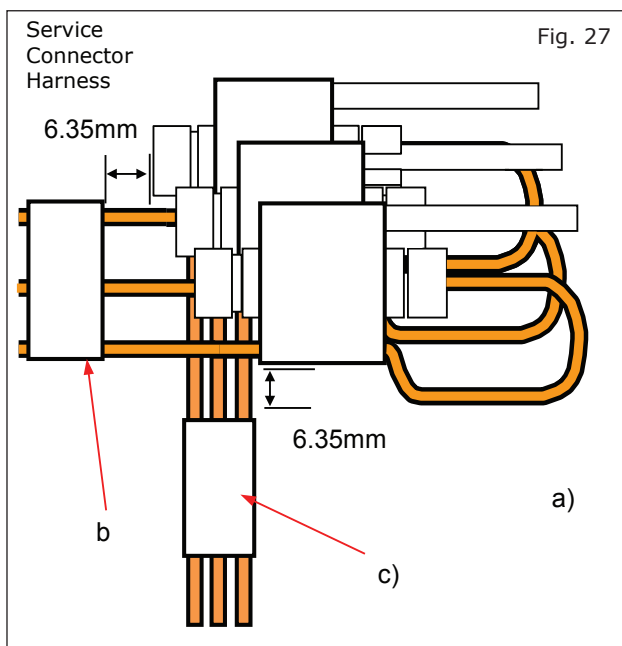


- 30) Securing multiple posi-taps on the same circuit (Fig. 25)
- Secure the pierced and tapped wires from the first posi-tap, along with the tapped wire from the non pierce side of the 2nd posi-tap to the body of the 2nd tap with electrical tape (≥ 2 revolutions).
 - Secure the tapped wires from the non-pierced sides of each tap to each other with electrical tape (≥ 2 revolutions) at a distance of $\geq 6.35\text{mm}$ (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**

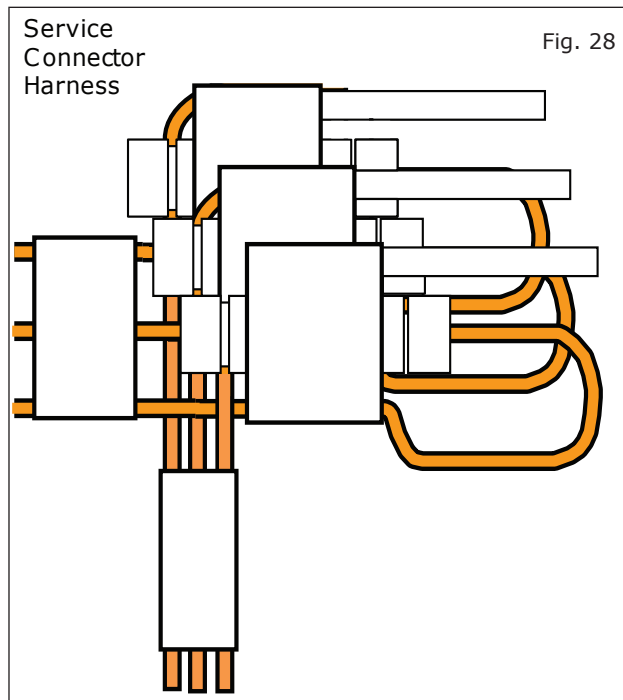


- 31) Multiple accessory taps on the same circuit secured. (Fig. 26)
- The first accessory is tapped, relieved and has the pierced wire on the heat shrink side and the tapped wire on the non-pierce side secured to the first tap as shown in Fig a).
 - The second accessory is tapped, relieved and has the 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).
 - 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).

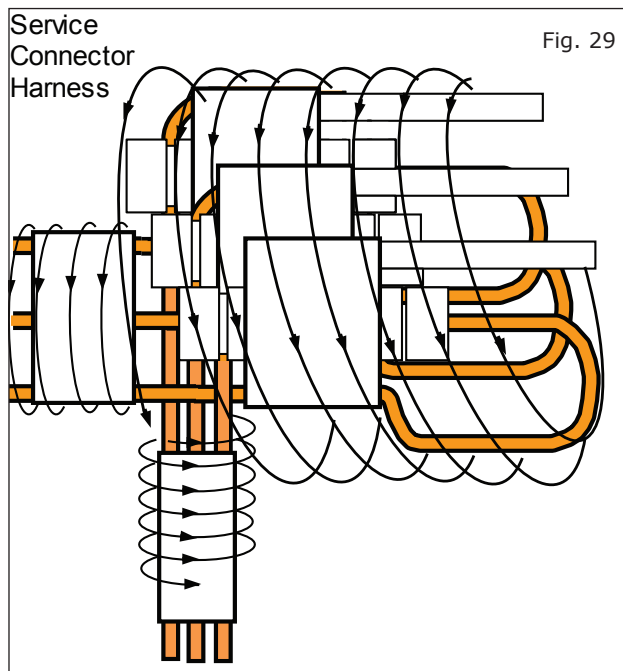


- 32) Multiple accessory taps on different circuits secured together. (Fig. 27)
- The tapped accessories (with wires already secured to tap bodies) are stacked slightly staggered on top of each other as shown in Fig a).
 - The tapped wires on the non-pierce side of all the posi-taps are secured to each other with electrical tape (≥ 2 revolutions) at a distance of $\geq 6.35\text{mm}$ (0.25in) as shown in Fig b).
 - The pierced wires of the first and subsequent posi-taps are secured to each other with electrical tape (≥ 2 revolutions) at a distance of $\geq 6.35\text{mm}$ (0.25in) as shown in Fig c).

INSTALLATION PROCEDURE:



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



- 34) Pre- foam protective wrap. (Fig. 29)
- Starting at the heat shrink; firmly wrap the posi-tap bundle with electrical 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.

INSTALLATION PROCEDURE:

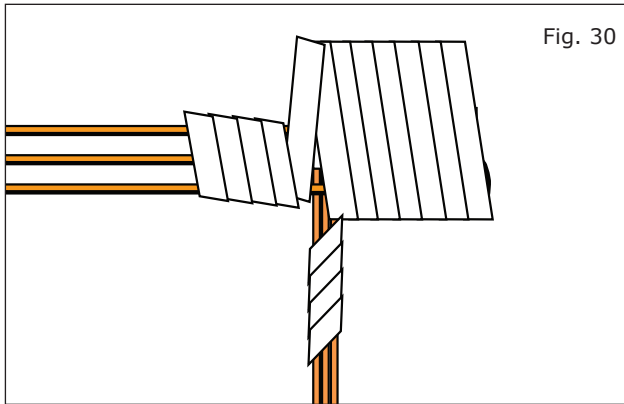


Fig. 30

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

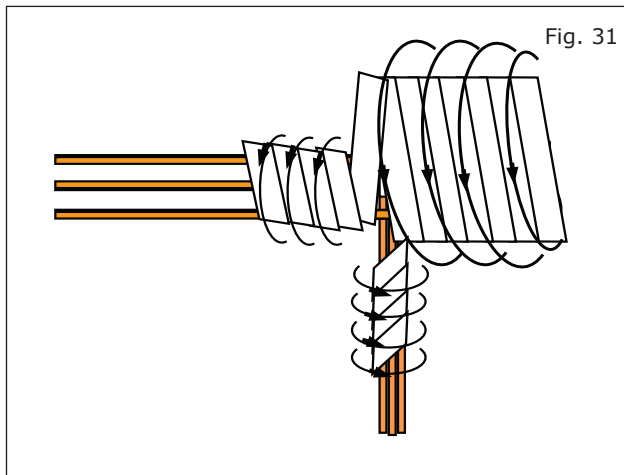


Fig. 31

- 36) 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.

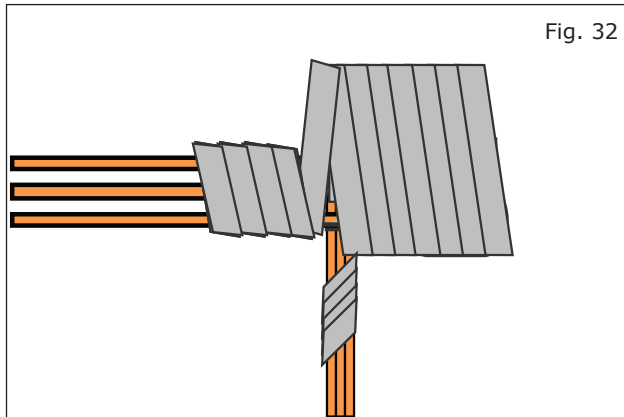
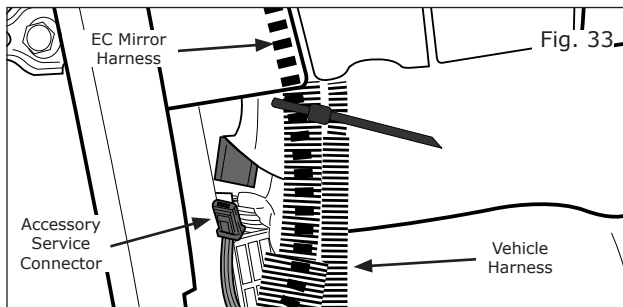


Fig. 32

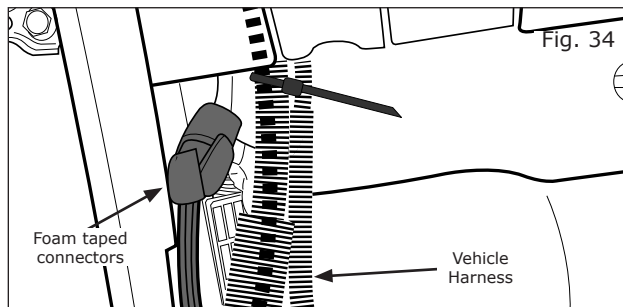
- 37) Finished foam wrap for bundle (strips-top view) (Fig. 32)
a) Make sure the finished wrap looks similar to (Fig 32).

INSTALLATION PROCEDURE:

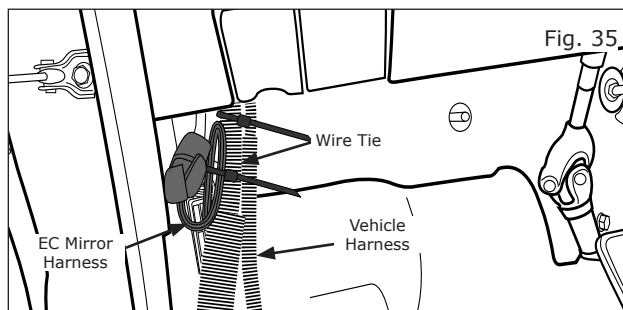


- 38) Route the Accessory Service Connector up behind the main body harness, to the accessory connector plug. Plug the connectors together. (Fig. 33)

Note: Be sure the new harness routing does NOT interfere with the emergency brake in any way.



- 39) Wrap the connectors with 1 piece of foam tape and position them along side the main body harness. (Fig. 34)



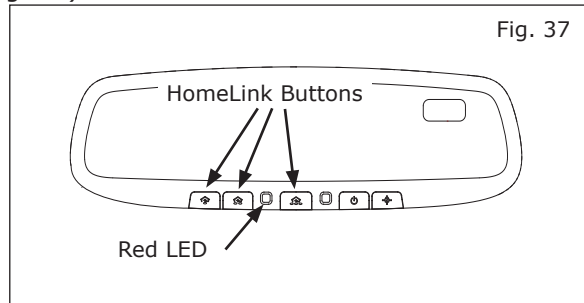
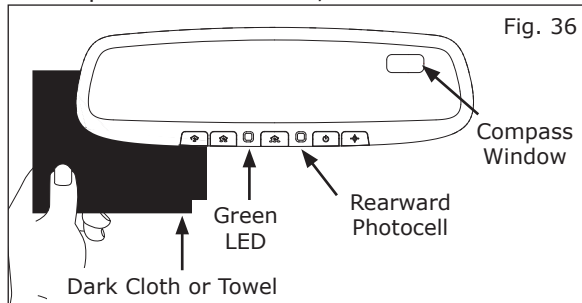
- 40) Route any extra wire along the existing harness, and bundle the EC mirror harness to the main body harness with a wire tie. (Fig. 35)

ACCESSORY CHECK:

Note: If errors are encountered during testing and compass calibration, see diagnostic flow charts, pages 16-18.

☐ Testing

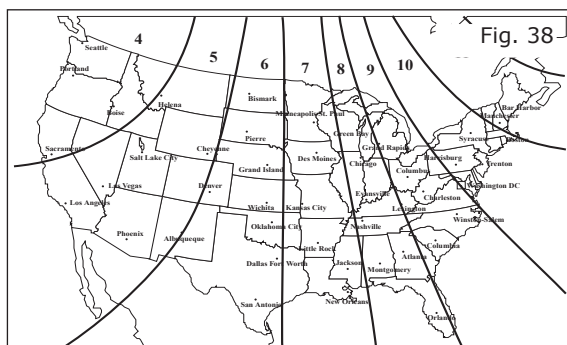
- ☐ Tighten negative battery terminal nut to 5.4 Nm (47.8 in-lb).
- ☐ With ignition switch OFF, push each Homelink® button one at a time and verify that the LED indicator to the left of the center switch illuminates with a red LED (Fig. 37).
- ☐ Turn the ignition switch to ON.
- ☐ Ensure vehicle is in 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)



- ☐ Remove the cover from the forward-looking photocell and the mirror will begin to clear.
- ☐ Push the "N" 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 "N" button for 3 seconds, until a number appears in display (numbers correspond to regional compass zones).
- ☐ Press and release "N" button to scroll through zone numbers.
- ☐ Release "N" 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.



☐ 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

ACCESSORY CHECK:

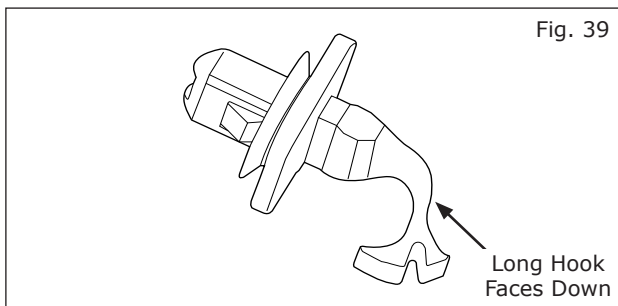
- ☐ Verify all wiring is secure and not exposed.
- ☐ Trim all excess cable ties flush.
- ☐ Check all vehicle electrical systems that the accessory interfaces with.
 - ☐ Power mirror switch.
 - ☐ Traction control switch.
 - ☐ Hood Release
 - ☐ Fuel Door Release

RE-INSTALLATION OF REMOVED PARTS:

⚠ 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 new clip (P/N 76988 3DN0A) into garnish hole ensuring long hook faces down. (Fig. 39)



- ☐ 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.

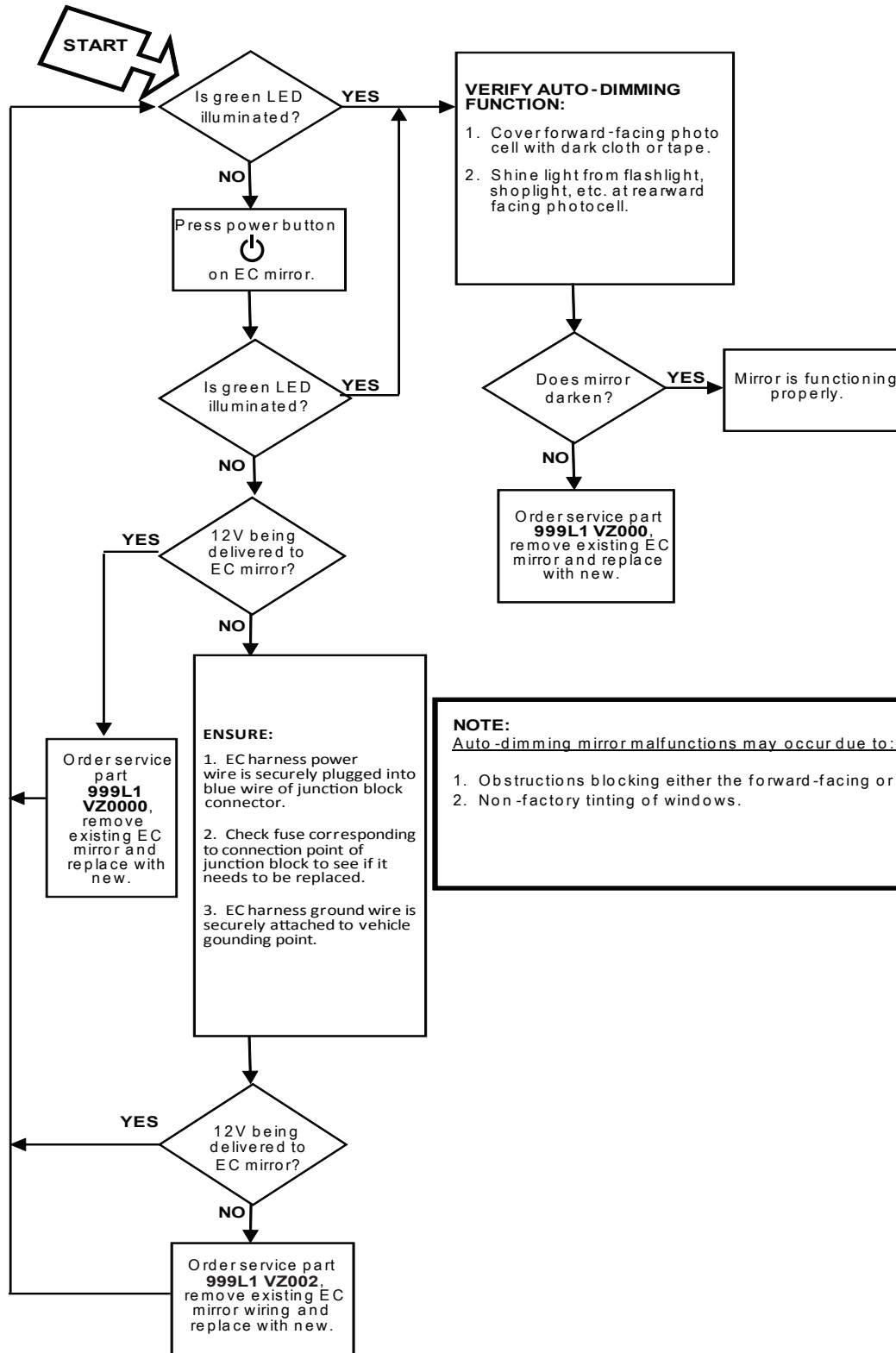
FINAL INSPECTION:

- ☐ 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.

DIAGNOSTIC FLOW CHART:

Before attempting to trouble-shoot EC mirror HomeLink function, ensure the following:

1. Mirror is manufactured by Gentex Corporation (the letters GNTX will be etched onto the back of the mirror and the compass display window will be in the mirror glass).
2. EC mirror harness must be fully plugged into EC mirror.
3. Vehicle ignition must be in the "ON" position without engine running.



NOTE:

Auto-dimming mirror malfunctions may occur due to:

1. Obstructions blocking either the forward-facing or rearward-facing photo-cells.
2. Non-factory tinting of windows.

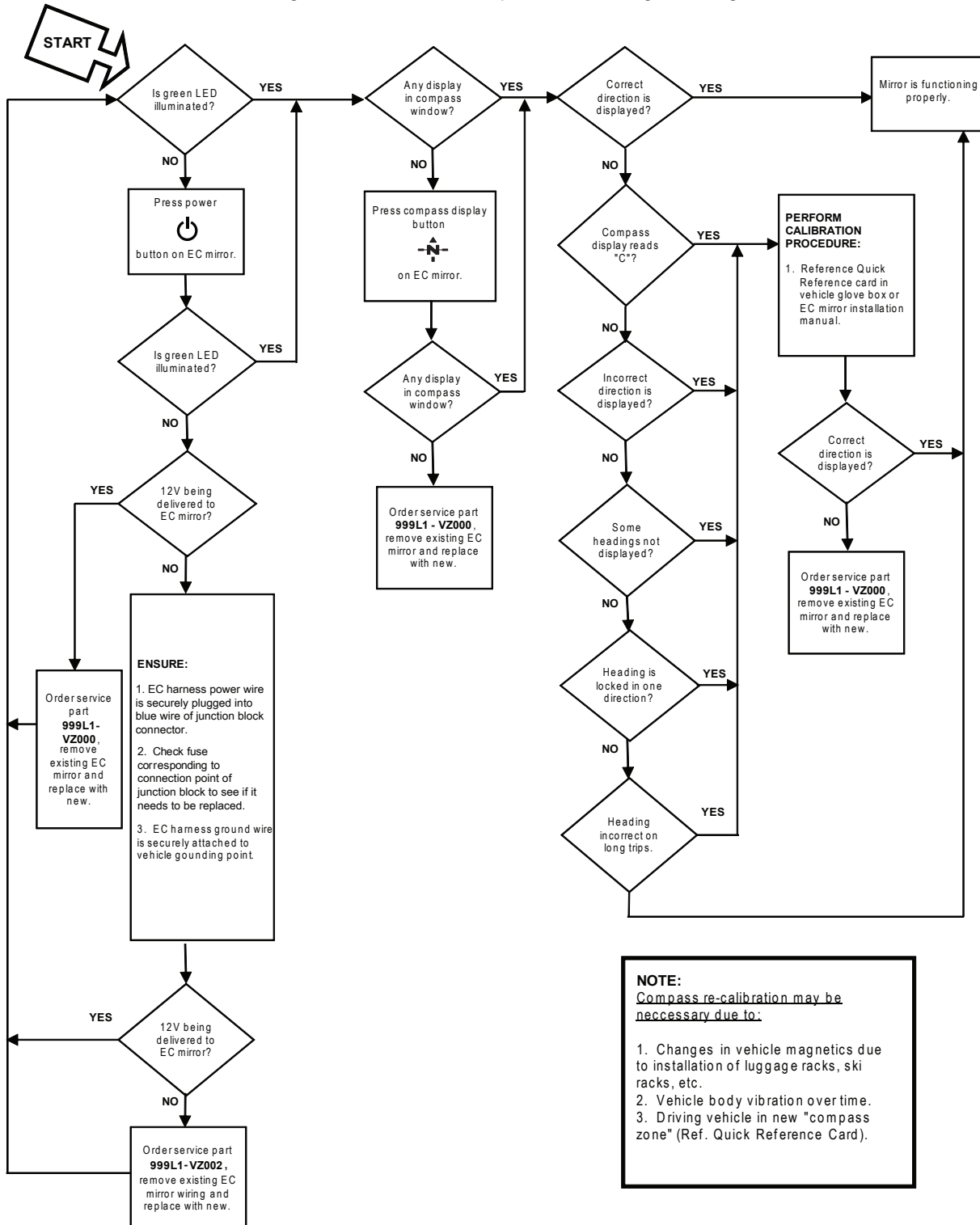
DIAGNOSTIC FLOW CHART:

COMPASS TROUBLE-SHOOTING GUIDE

Part Number: 999L1 VZ000

Before attempting to trouble-shoot EC mirror HomeLink function, ensure the following:

1. Mirror is manufactured by Gentex Corporation(the letters GNTX will be etched onto the back of the mirror and the compass display window will be in the mirror glass).
2. EC mirror harness must be fully plugged into EC mirror.
3. Vehicle ignition must be in the "ON" position without engine running.



DIAGNOSTIC FLOW CHART:

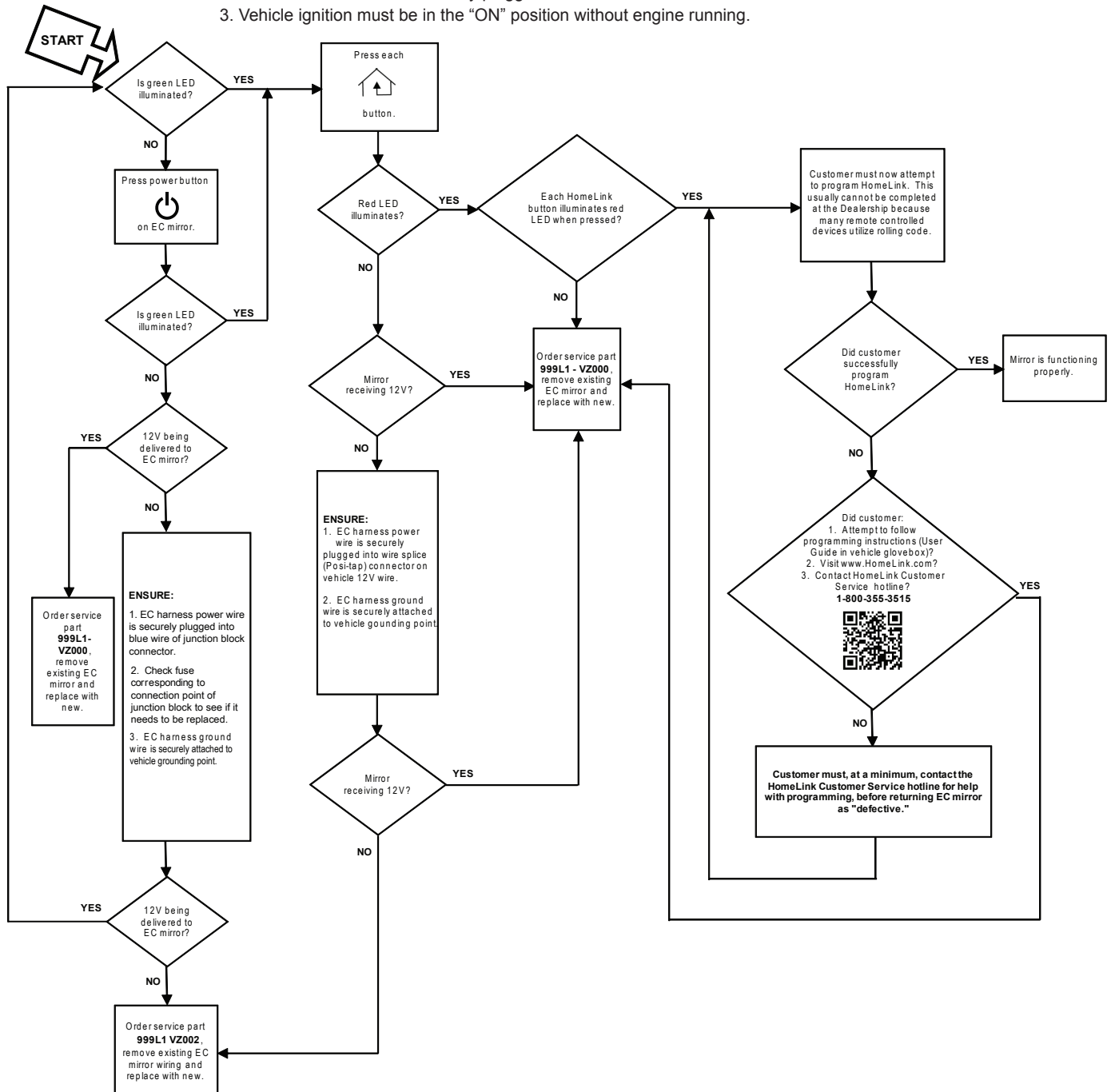
HOMELINK® TROUBLE-SHOOTING GUIDE

Part Number: 999L1 VZ000



Before attempting to trouble-shoot EC mirror HomeLink function, ensure the following:

1. Mirror is manufactured by Gentex Corporation (the letters GNTX will be etched onto the back of the mirror and the compass display window will be in the mirror glass).
2. EC mirror harness must be fully plugged into EC mirror.
3. Vehicle ignition must be in the "ON" position without engine running.



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DIAGNOSTIC FLOW CHART:

EC MIRROR KIT

DRIVER SIDE CONNECTOR

ACCY_SER_CONN

| | | |
|---------------|----|--------|
| IGN | 1 | WHT |
| BAT | 2 | RED |
| TAIL_LAMP | 3 | PURP |
| ROOM_LAMP | 4 | YEL |
| BAT_SAVER | 5 | PNK |
| FR_DOOR_SW_RH | 6 | GRN |
| FR_DOOR_SW_LH | 7 | LT_GRN |
| THRU_SIGNAL_1 | 8 | GRY |
| RR_DOOR_RH | 9 | BLU |
| RR_DOOR_LH | 10 | LT_BLU |
| ACC | 11 | ORG |
| GND | 12 | BLK |

TH12FW-NH

| | | | | | |
|---|---|---|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 |

Note: Pin location is referenced looking into wire side of connector.

