1. DESCRIPTION: Auto-Dimming Mirror Kit with Compass and HomeLink®

2. APPLICATION: Titan

3. PART NUMBER: 999L1 WS000

4. KIT CONTENTS:

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5. TOOLS REQUIRED:
- Clean Rag
- T-20 Torx Head Driver
- Panel Removal Tool
- Needle Nose Pliers
- 4mm Flat Screwdriver
- 10mm Socket Wrench
- Phillip’s Screwdriver

6. INSTALLATION PRECAUTIONS / NOTES:

⚠️ WARNING

Disconnect vehicle battery before installing EC mirror to prevent possible shock injury during installation.

⚠️ CAUTION

Place removed vehicle trim components in a clean, dry area to prevent damage.

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7. INSTALLATION PROCEDURE

1) Prepare Vehicle For EC Mirror Installation
   a) Place kit components on a clean, padded surface and inspect for damage or defects.
   b) Record customer’s programmed radio stations.
   c) Disconnect negative battery terminal.

2) Removal of OE Rearview Mirror
   a) Insert the flat end of a 4mm screwdriver into the opening at the bottom of the mirror mount.
   b) Slide the screwdriver upward into the center of the mirror mount until resistance is felt. Apply a small amount of additional upward force to lift a locking spring in the mount.
   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.

3) Vehicle Disassembly
   a) Using panel removal tool, loosen driver side weather strip and remove from top of A-pillar to scuff plate.

⚠️ CAUTION

Do not use excessive force when removing OE mirror from windshield. The window button may separate from windshield or the windshield could break.
b) Using panel removal tool, carefully open covers on passenger side grab handle to expose 2 Phillips screws.

c) Using Phillips screwdriver, remove 2 screws from passenger side grab handle and remove grab handle.

d) Remove A-pillar trim piece.

e) Remove fuse box cover.
f) Open glove-box and remove 4 Phillip’s screws.

g) Remove 2 Phillip’s screws from bottom of glove-box.

h) Remove glovebox assembly.

4) Install EC mirror
   a) Plug the EC wire harness connector into the back of the EC mirror.
b) Slide the EC 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)

d) Wrap one piece of foam tape around EC mirror harness and using panel removal tool, tuck between headliner and roof above EC mirror.

e) Route the wire harness into the groove of the wire cover and attach to the mirror mount.

f) Slide the forks on top of the wire cover, into the headliner.

g) Using panel removal tool, tuck the wire harness between the headliner and the roof and stop just past the visor clip.
h) Wrap one piece of foam tape around EC wire harness and tuck between headliner and roof. Taped portion of EC wire harness should be approximately centered above visor.

i) Continue routing harness towards passenger-side A-pillar.

j) Wrap one piece of foam tape around EC wire harness and tuck between headliner and roof. Taped portion of EC wire harness should be tucked at approximately where headliner bends towards passenger-side door.

k) Route EC wire harness down the A-pillar, along OE harness.

l) LOOSLY secure EC wire harness with 3 small wire ties. Do not tighten tie wraps.
m) Route terminal ends of EC wire harness through dash, behind fuse block and through fuse box panel opening.

n) Pull wires of EC wire harness apart, to allow connection of power wire into fuse block connector and attachment of ground ring to grounding point.

o) Remove lower Phillip’s hex-head from right side of fuse block.

p) Route EC wire harness ground ring over the top of the fuse block and attach to threaded end of hex-head screw. Re-install hex-head screw into support bracket.
CAUTION

Avoid pulling on 16-pin connector wires when removing 16-pin connector from fuse block.

q) Remove 16-pin connector from fuse block by pushing in on locking tab on outside left of connector. Connector may need to be wiggled slightly while depressing locking tab.

r) Unlock 16-pin connector to allow insertion of EC wire harness power terminal, by prying outward (as shown) on connector (both sides) with 4 mm screwdriver.

s) Insert EC wire harness power terminal into slot #2 opening and re-lock 16-pinn connector by pushing back together.

t) Re-install 16-pin connector into fuse block.
u) Secure EC power to 16-pin connector harness with 1 small tie wrap.

v) Secure EC harness ground wire and power wire to large wire bundle behind fuse block, with one small tie wrap.

w) Gather any excess EC mirror harness slack by pulling harness from A-pillar routing area.

x) Bundle all excess wire from EC mirror harness and secure with one small wire tie at A-pillar routing area.

y) Secure EC mirror harness with 3 pieces of foam tape to ensure that harness does not rattle.

z) Tighten all tie wraps and trim excess.
5) Testing
   a) Reconnect the vehicle's negative battery cable.
   b) Tighten negative battery terminal nut to 4.1 Nm.
   c) Turn the ignition switch to ON.
   d) Ensure vehicle is in a fairly well lit area.
   e) Check to see that green LED is illuminated. If it is not, press the " " button to turn it on.
   f) Cover the forward-looking photocell (located below 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.
   g) Remove the cover from the forward-looking photocell and the mirror will begin to clear.
   h) Push the " " button to ensure compass display shows either a direction such as “NE” or a “C”, and that it can be turned ON and OFF.
   i) Push each HomeLink® button, one at a time, and verify that LED indicator to the left of the center switch illuminates with a red LED.
   j) Testing is now complete.

6) Final assembly
   a) Trim excess material off all wire ties.
   b) Reinstall in reverse order, all trim pieces removed during installation.
   c) Place the operation instruction card in the vehicle glove box.
   d) Remove fingerprints, smudges, dirt, etc from mirror glass.
   e) Verify each reinstalled component for proper fit and function.

7) Set compass zone
   a) With the display turned “ON,” push the " " button for 3 seconds, until a number appears in display (numbers correspond to regional compass zones).
   b) Press and release " " button to scroll through zone numbers.
   c) Release " " button when correct zone number is displayed. Zone number will disappear and display will return to showing either a directional heading or a “C” after 5 seconds of no switch activity.

8) Calibrate compass
   a) Drive vehicle in circles (360°) at 5 mph or less until compass display window shows a direction.