

KEYLESS ENTRY UPGRADE SECURITY SYSTEM for 2004 TOYOTA HIGHLANDER

DEALER SERVICE AND INSTALLATION MANUAL
KIT NO. 00016-30915

REVISION B



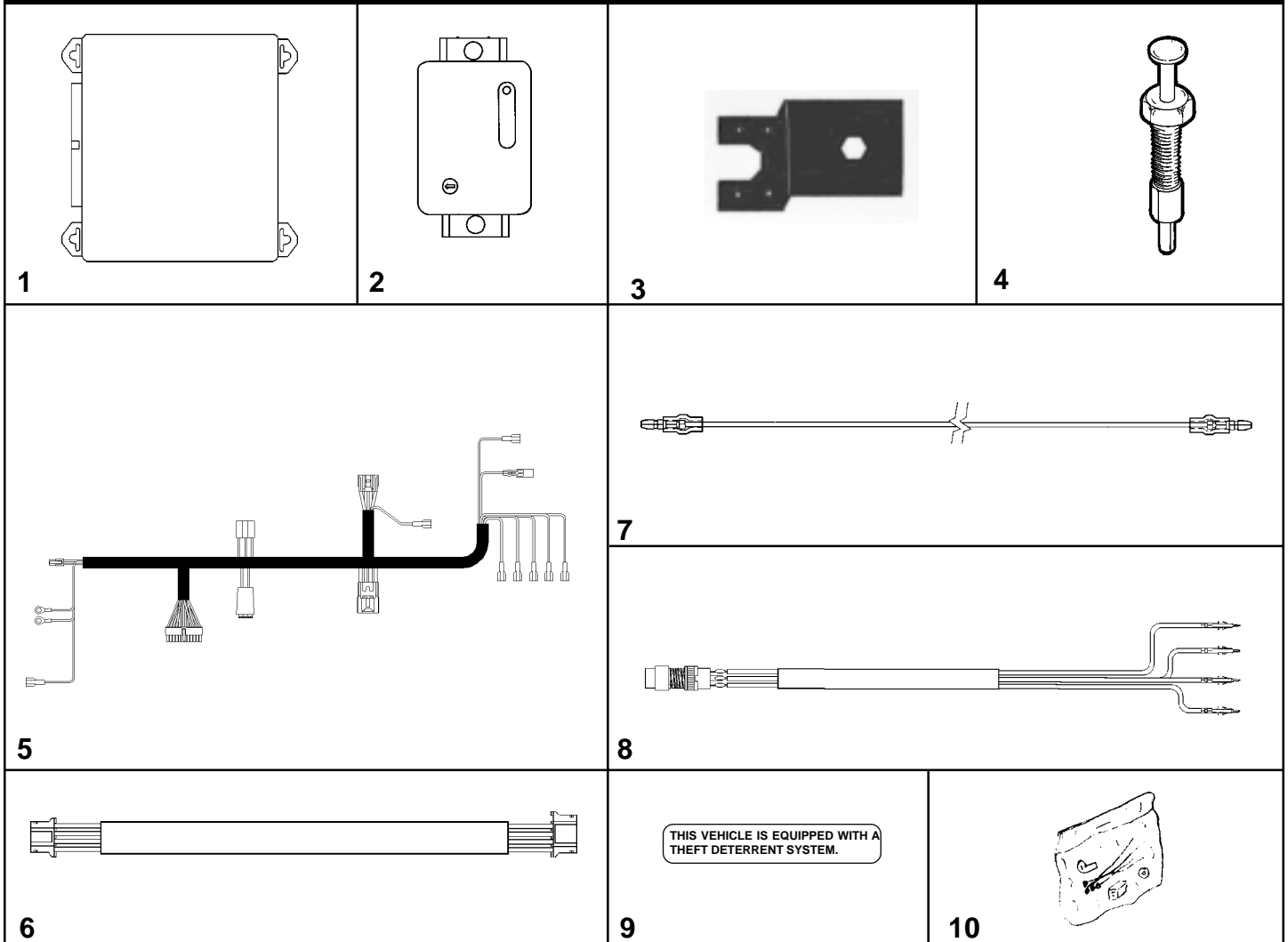
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PARTS LIST

ITEM	QUANTITY	PART NUMBER	DESCRIPTION
1.	1	00016 - 30130-02	Main Keyless Upgrade Control Module
2.	1	00016 - 30960-02	Dual Stage Shock Sensor Assembly
3.	1	00016 - 30915-02	Hood Pin Switch Mounting Bracket
4.	1	00016 - 30960-07	Hood Pin Switch - Long
5.	1	00016 - 30915-01	Main Wiring Harness
6.	1	00016 - 30960-29	Shock Sensor Wiring Harness
7.	1	00016 - 30960-09	Hood Pin Switch Extension Wire 54"
8.	1	00016 - 30960-05	L.E.D. / Valet Switch
9.	2	00016 - 30960-30	Window Warning Decal
10.	1	00016 - 30960-31	Miscellaneous Hardware Kit

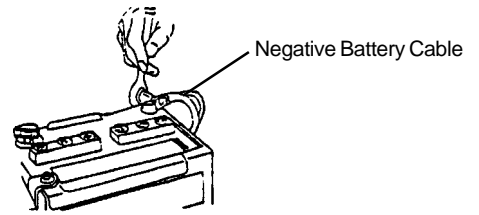
PARTS ILLUSTRATIONS



VEHICLE PREPARATION

1. Remove the Lower Dash Panel :

A. Remove the negative battery cable before installing Security System Components for safety precautions.



B. Refer to the vehicle repair manual, and remove the lower dash panel, crash panel, lower steering column cover, glove box compartment, driver & passenger scuff plates and kick panels.

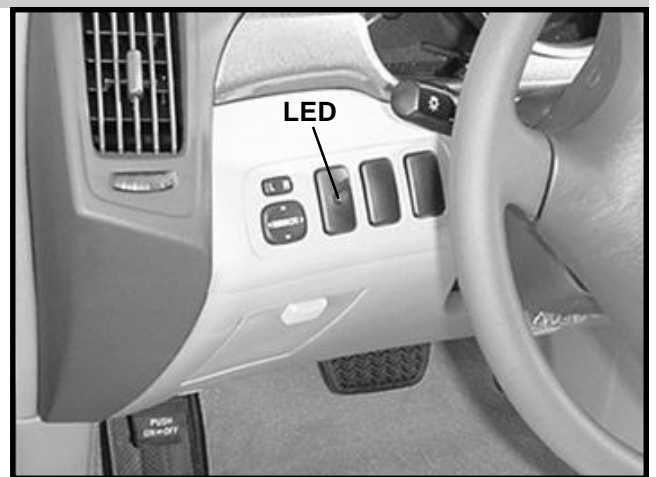
INSTALLING THE SECURITY SYSTEM

1. Mounting the L.E.D. / Valet Switch :

A. Locate the 3 small switch blanks left of the steering column, and the left most blank.

B. Carefully drill a 5 / 16 " diameter hole centered in the switch blank.

C. Remove the knurled mounting nut from the back of the switch, pass the wires through the hole, then secure the switch with the knurled nut.

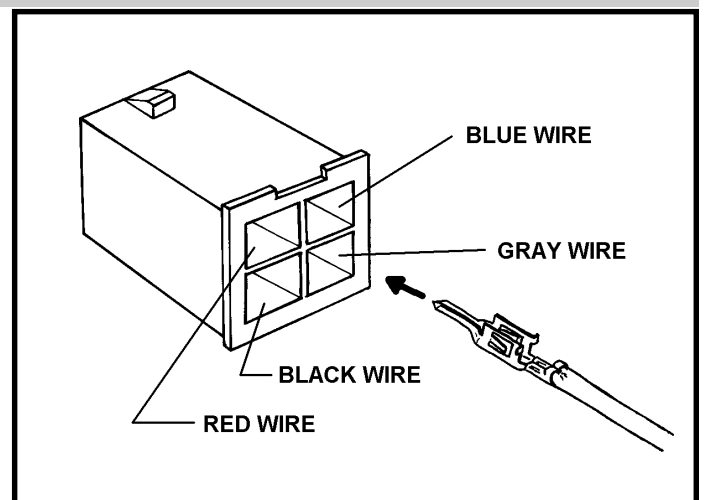


2. Preparing the L.E.D. / Valet Switch :

A. Locate the 4 pin Molex connector found in the hardware bag included in the kit.

B. Carefully plug the terminals at the ends of the 4 wires from the switch into the connector housing as shown.

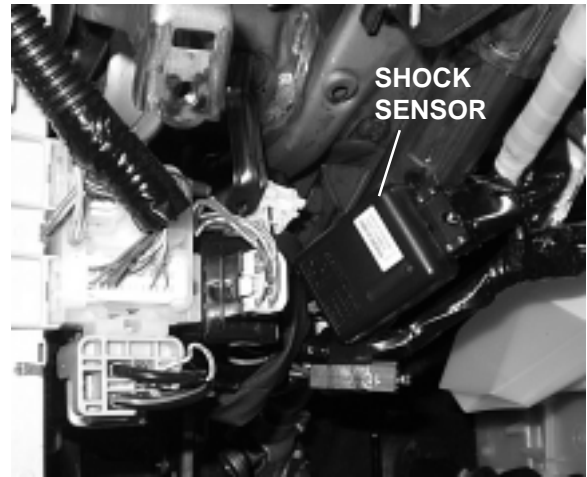
IMPORTANT ! Be sure to align the terminal correctly before inserting it into the connector housing.



3. Mounting the Shock Sensor Module :

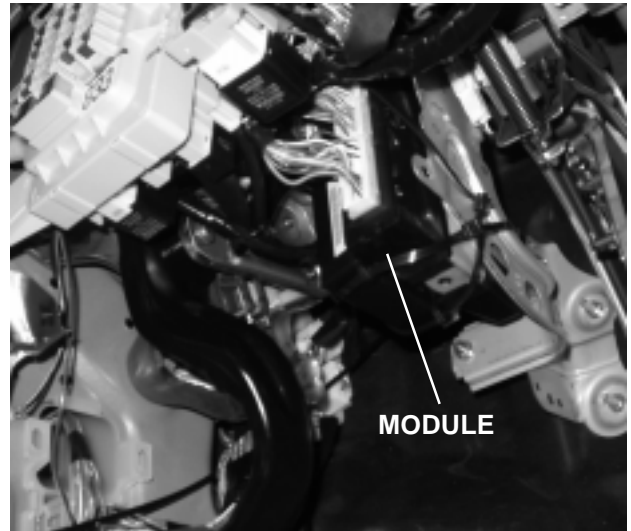
A. Use (2) of the short black cable ties provided in the hardware bag, and secure the shock sensor to the main vehicle harness running below the steering column. Set the sensitivity knob to position 2 initially for testing.

IMPORTANT NOTE ! Be sure to pass the cable ties through the holes in the upper and lower mounting tabs of the shock sensor, then around and securing to the main harness. Failure to do this could cause the shock sensor to become loose and fall by the driver's feet, seriously affecting the driver's ability to control the vehicle.



4. Mounting the Main Control Module :

A. Secure the main module to the ABS module as shown in photo, using the long cable ties and adhesive pad provided in the hardware bag.



5. Routing the Main Harness :

A. Route the portion of the harness which includes the Brown w/ White wire and the ring terminals high above then down into the driver's side kick panel. Route the 6 pin ignition connectors over the steering column to the ignition switch. Route the rest of the main harness wires across to the passenger side kick panel area.

B. Secure the main harness along it's routing with the cable ties provided. Be sure that the harness is clear of all sharp and moving objects.

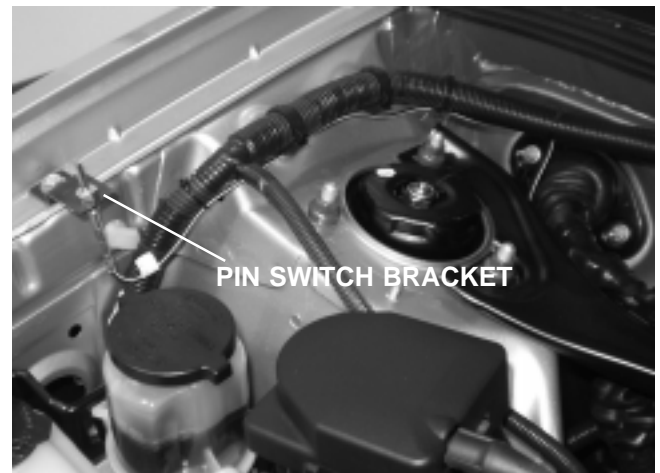
6. Mounting the Hood Pin Switch Bracket :

A. Locate the existing 10 mm hex head bolt in the passenger side front fender.

B. Remove the 10mm bolt, then position the pin switch mounting bracket into place. Replace and tighten the bolt securely when the bracket is in place.

C. Thread the pin switch into the bracket, and tighten securely.

D. Punch a hole in the bulkhead grommet at the location shown in photo.



CAUTION: TO PREVENT DAMAGE TO THE VEHICLE HARNESS, USE EXTREME CARE WHEN PUNCHING HOLE IN BULKHEAD GROMMET.

E. From the engine side of the grommet, feed the pin switch wire into the interior of the vehicle, using a wire guide.

F. Seal opening in grommet with a good sealant to prevent water entry into the interior of the vehicle. Secure pin switch wire along routing with cable ties as needed.



7. Installing the Shock Sensor Harness :

A. Plug the 5 pin end of the harness into the mating connector on the main control module.

B. Route the harness towards the shock sensor, where it will not interfere with any sharp or moving objects.

C. Secure the harness along the routing path using the cable ties provided.

IMPORTANT ! Make sure that the brake pedal, accelerator pedal, and accelerator pedal linkages are free and clear of all security harnesses.

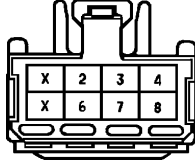
8. Connecting the Security System Harness :

A. Carefully follow the wiring diagram and factory connector details found on the following two pages.

CONNECTOR DETAILS - 2004 Highlander Keyless Upgrade

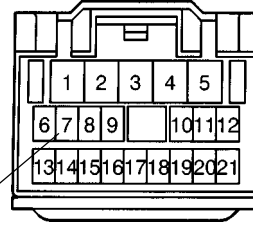
1. CONNECTOR I15: Ignition Switch

Location : At Back Of Ignition Switch, behind lower Steering Column Cover Panel.



4. CONNECTOR B9 : Body ECU

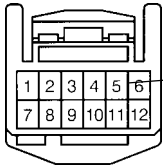
Location : Behind Glove Box.



Location 7
Lt. Blue Wire
Taillight Relay

2. CONNECTOR C16 : Horn

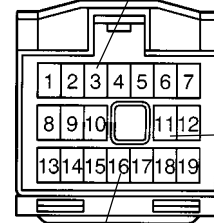
Location : Top of Steering Column, at Spiral Cable.



Location 6
Pink Wire
Horn

5. CONNECTOR B11 : Body ECU

Location : Behind Glove Box.



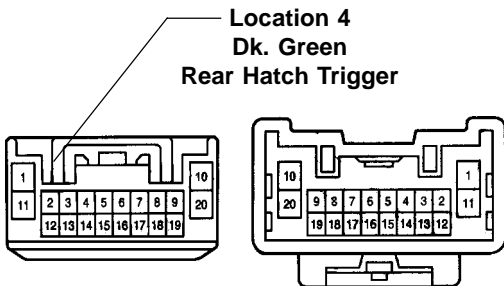
Location 3
Red Wire
Headlights

Location 11
Black Wire
LF Door Trigger

Location 16
Gray Wire
Data

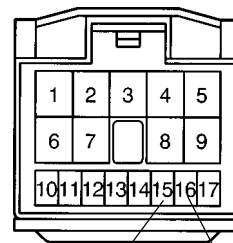
3. CONNECTOR IA1 : Hatch Switch

Location : Driver's Side Kick Panel.



6. CONNECTOR B12 : Body ECU

Location : Behind Glove Box.



Location 15
Lt. Green Wire
RR & LR Door Trigger

Location 16
Lt. Blue Wire
RF Door Trigger

WIRING DIAGRAM - 2004 Highlander Keyless Upgrade

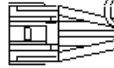
WIRING DIAGRAM

[Hood Pin Switch Trigger]- Locate the BLACK / WHITE STRIPE hood pin switch extension wire included in the kit. Plug one end of the extension wire into the DARK GREEN WIRE on the alarm harness, route the extension wire through the heater control valve cable grommet, and plug the other end of the extension onto the pin switch.

BROWN / WHITE STRIPE WIRE [Door Trigger]: Use a red T-Tap and connect to the LT BLUE WIRE in connector B12, location 16.

GREEN / RED STRIPE WIRE [Horn]: Use red T-Tap and connect to the PINK WIRE in connector C16, location 6.

Disconnect the Ignition Switch Connector I15, and Plug the Security Harness Into the Ignition Switch.



WHITE WIRE [Parking Lights]: Use red T-Tap and connect to the LT BLUE WIRE in connector B9, location 7.

BLUE WIRE [Headlights]: Use red T-Tap and connect to the RED WIRE in connector B11, location 3.

BLUE / WHITE STRIPE WIRE [Data]: Use red T-Tap and connect to the GRAY WIRE in connector B11, location 16.

BROWN WIRE [Door Trigger]: Use red T-Tap and connect to the LT GREEN WIRE in connector B12, location 15.

BROWN WIRE [Door Trigger]: Use red T-Tap and connect to the BLACK WIRE in connector B11, location 11.

Starter Disable Relay

10 A. Fuse

Shock Sensor

Connect the Ignition Switch Connector I15 to the Security Harness Here.

Main Control Module

4 Pin Molex Connector - Plug Into Lighted System Control Switch.

BLACK WIRE

BLACKw/ WHITE STRIPE WIRE



[Chassis Ground] - Connect both ring terminals to the 10 mm ground bolt in the driver's side kick panel as shown.

BROWN / WHITE STRIPE WIRE [Hatch Trigger]: Use a red T-Tap and connect to the DK GREEN WIRE in connector IA1, location 4.

COMPLETING THE INSTALLATION

1. Testing the System :

A. Prior to delivering the vehicle, test all features of the system according to the owner's manual included.

2. Assemble all Removed Panels to the Vehicle :

A. Refer again to the vehicle repair manual and re assemble all panels that were removed for installation back onto the vehicle.

3. Preparing the Vehicle for Delivery:

A. Turn the arm / disarm chirps off.

1. Start with the L.E.D. / Valet switch in the off (out) position.
2. Turn the ignition key to the on position.
3. Turn the ignition key off, then immediately press and release the L.E.D. / Valet switch 3 times. You will hear 2 chirps to confirm that the chirps were turned off.

B. Place the system into Valet mode. (VPC only)

1. Start with the L.E.D. / Valet switch in the off (out) position.
2. Turn the ignition key to the on position.
3. Press the L.E.D. / Valet switch one time. The switch is in the in position, and the red L.E.D. is turned on solid, indicating that the system is in valet mode.

C. Apply the window warning decals to the driver side and passenger side windows, just above the anti - theft radio stickers if equipped. If not equipped, apply the decals at the lower rear edge of the window. The decals are reverse printed, and are applied to the **inside surface** of the glass.

D. Leave the KEYLESS ENTRY UPGRADE owner's manual in the vehicle glove box.