

**09-2010 FORD F-150 / E-150 / 2010 ESCAPE
09 MAZDA TRIBUTE**

ELECTRONIC CRUISE KIT

Part Number: 250-1847

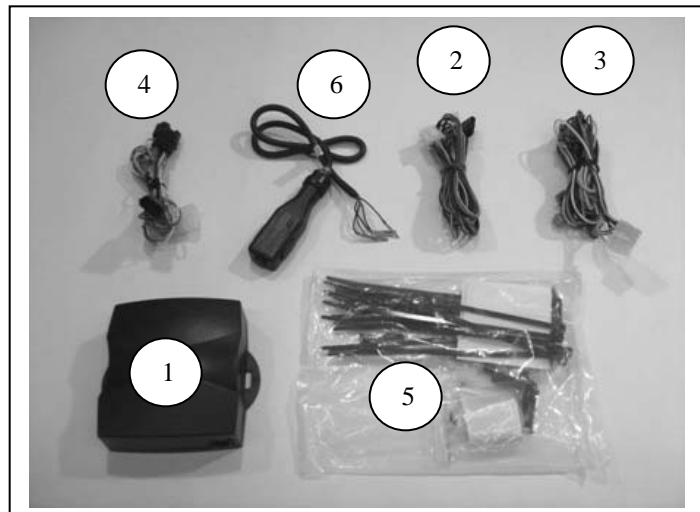
AUTOMATIC AND MANUAL TRANSMISSION

General Applicability

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Item #	Qty.	Description
1. 250-2768	1	Cruise Control Module
2. 250-2760	1	Switch Harness
3. 250-2759	1	Main Wiring Harness
4. 250-2761	1	Pedal Interface Harness
5. 250-2762	1	Hardware Kit
6. 250-3742	1	Control Switch

Kit Contents/Service Parts



Contents of Hardware Bag, 250-2762

Qty	Description
1	T-taps, 18-22 AWG Female
8	Wire Zip Ties
1	Adhesive VHB Tape 3 X 3
1	Male Spade Terminal 18-22 AWG
2	Weather sealant
1	Cruise Control Switch Form
6	In-Line Connector, 18-22 AWG
1	Extension Harness

Additional Items Required For Installation

Recommended Tools

Safety Tools	
Gloves, Safety Glasses	
Special Tools	
Volt-Ohm Meter	
Installation Tools	
Pliers	For t-taps
Crimping Tool	For spade terminals
Side cutter	To cut wire ties
Drill Bit or Knockout Punch	9.5mm or 3/8" (for switch)
10mm wrench	
Special Chemicals	

Conflicts

Note:

Recommended Sequence of Application

Item #	Accessory
1	
2	
3	

Legend

STOP **STOP:** Damage to the vehicle may occur. Do not proceed until process has been complied with.

+ **OPERATOR SAFETY:** Use caution to avoid risk of injury



I **CRITICAL PROCESS:** Proceed with caution to ensure a quality installation.

→ **GENERAL PROCESS:** This highlights specific processes to ensure a quality installation.



🔧 **TOOLS & EQUIPMENT:** This calls out the specific tools and equipment required for this process

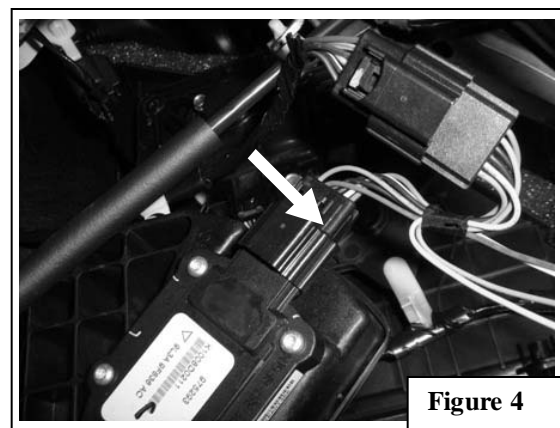
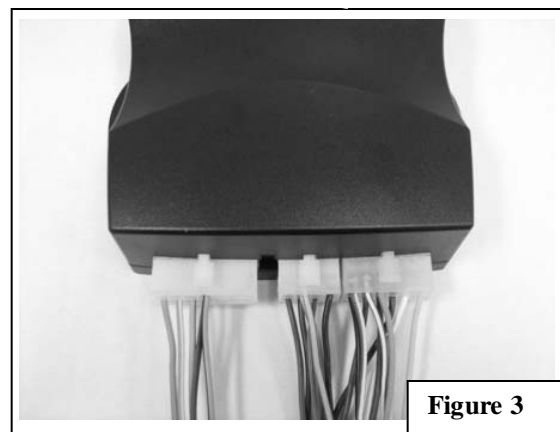
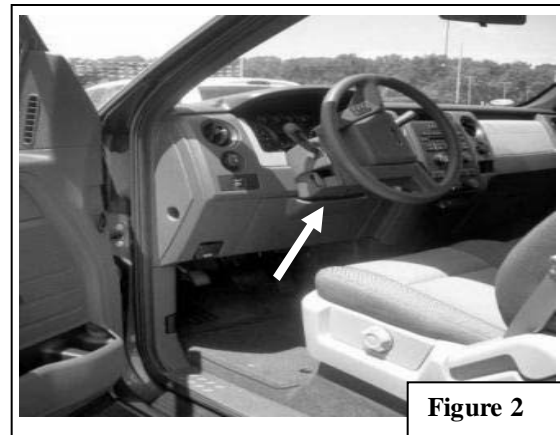
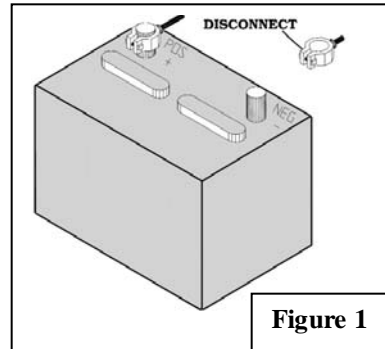
Section I – Installation Procedure

A. Pre-Installation Suggestions

-  1. It is advisable to disconnect the negative battery cable for 3 minutes before beginning installation, to avoid unintended air bag deployment. Note and record any anti-theft radio codes prior to disconnecting. **Figure 1**
-  2. Remove the driver side lower dash and kick panels. Remove the steering wheel shroud. **Figure 2**

B. Install Electronic Module

-  1. Apply the large supplied piece of double-sided adhesive tape to the Cruise Control Module.
-  2. Plug the **Main Wiring Harness, Switch Harness, and Pedal Interface Harness** in to the mating connectors of the Cruise Control Module. **Figure 3**
- 3. Place the Cruise Control Module in a secure location behind the driver side dash area.
- 4. Route the **Pedal Interface Harness** through steering column and down to the accelerator.
- 5. Locate the 6 pin plug and mate connectors to the **Pedal Interface Harness**. Remove the accelerator 6-pin connector and apply to mating connector of **Pedal Interface Harness**. Apply the remaining connector to the accelerator. **Figure 4**



C. Ford F-150 / E-150 Wiring Connections

- ➔ 6. Locate the following wires to connect to the **Main Wiring Harness** from the control module:

Function	See Fig.	Vehicle Color
F-150 IGN	5	WHITE/LT. BLUE
E-150 IGN	6	BLUE
BRAKE +	7	BROWN/RED OR BEIGE/RED
BRAKE -	7	VIOLET/WHITE
GROUND	8-9	GROUND POINT
VSS	11	YELLOW

7. Use the supplied self stripping connectors or T-tap to connect from the **Main Wiring Harness** to vehicle wire:

Function	Cruise Harness Color	Vehicle Wire
F-150 IGN	RED	LT.BLUE/WHITE
E-150 IGN	RED	BLUE
BRAKE +	BLUE	BROWN/RED OR BEIGE/RED
BRAKE -	BROWN/WHITE	VIOLET/WHITE
VSS	VIOLET	YELLOW

8. Apply the **Black Ground Wire** from the **Main Wiring Harness** to the Vehicle Ground Point behind the lower dash panel (F-150) in **Figure 8**, or behind the driver-side kick panel (E-150) in **Figure 9**.

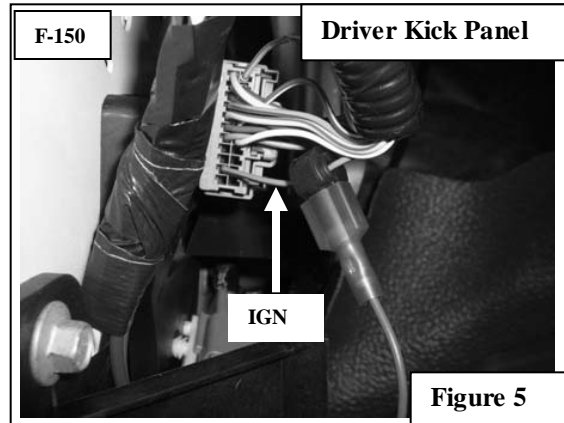


Figure 5

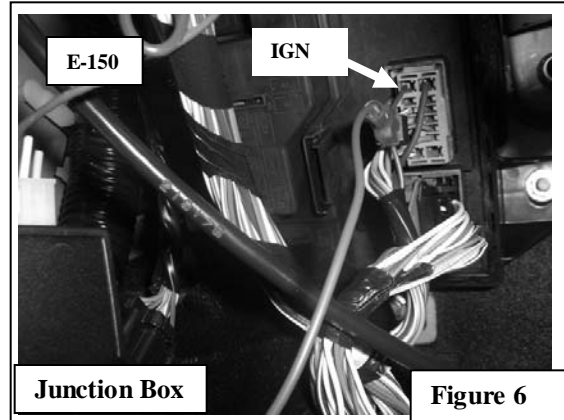


Figure 6

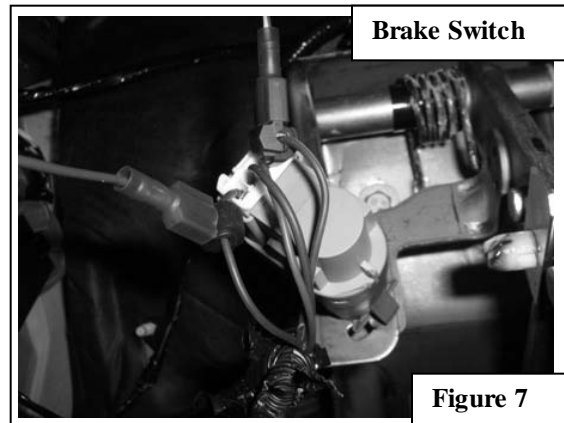


Figure 7

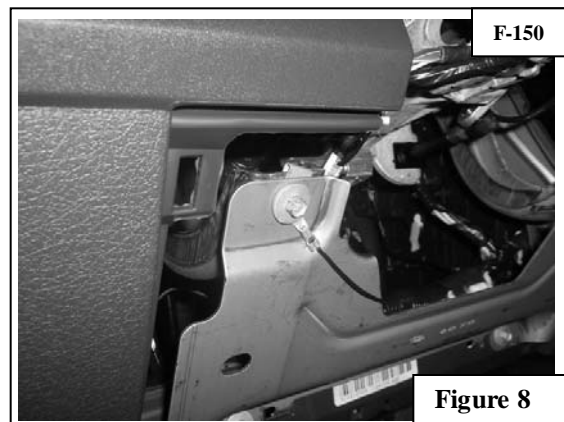
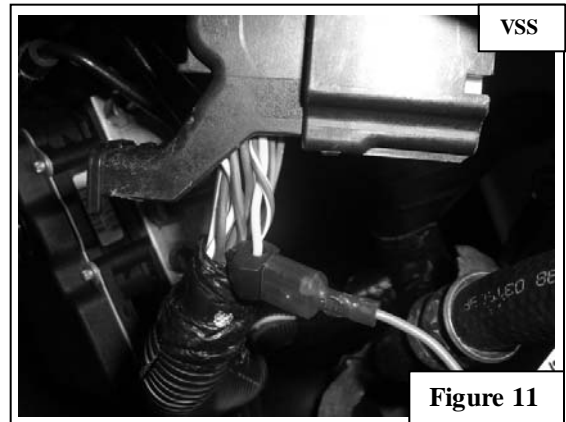
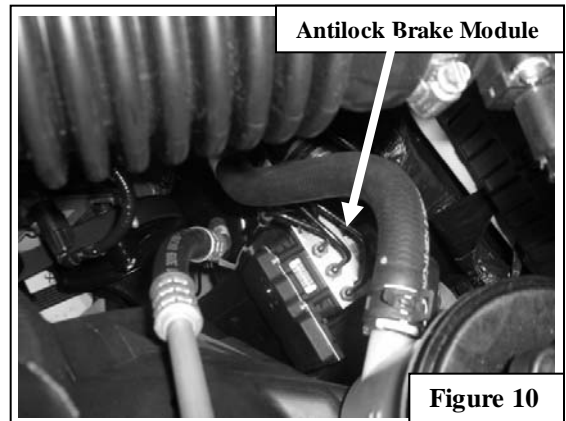
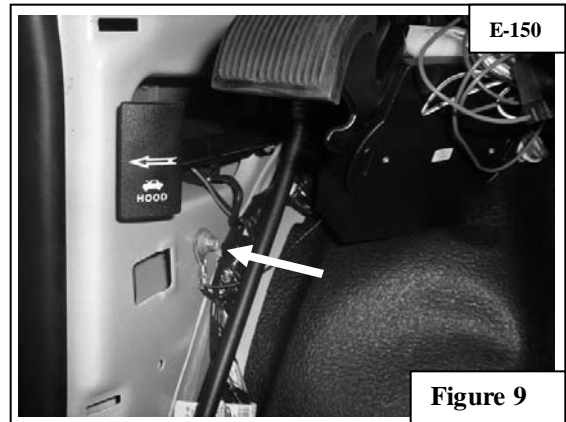


Figure 8

**Ford F-150 / E-150 Wiring Connections
Continued...**

9. If the **Violet Wire** from the **Main Wiring Harness** is not long enough to reach the ABS VSS wire, then attach the **Blue extension wire** using the male spade terminal (both supplied in hardware kit) to the **Violet Wire**. Route the **Violet Wire** (or **Blue extension wire**) through grommet on firewall to antilock brake module located under the air intake system (**Figure 10**). Using the supplied T-Tap connector, connect the **Violet Wire** (or **Blue extension wire**) from the **Main Wiring Harness** to the **Yellow Wire** (Vehicle Speed Sensor) of the antilock brake module.

Note: The yellow wire will be entwined with purple/violet wire. Apply the supplied weather sealant to the connection. Be sure all of connection is sealed properly. **Figure 11**



D. Mazda Tribute / Ford Escape Connections

- ➔ 1. Locate the following wires to connect to the main harness from the control module:

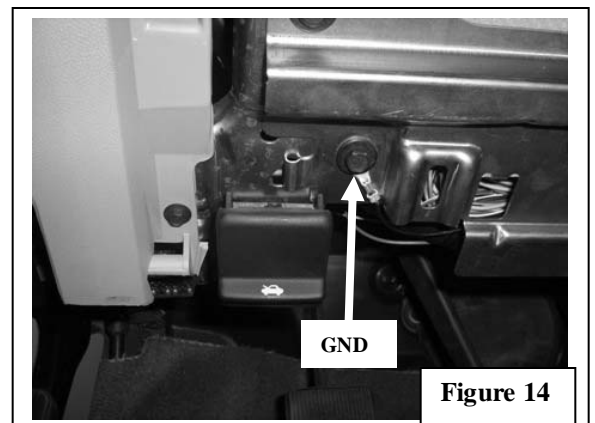
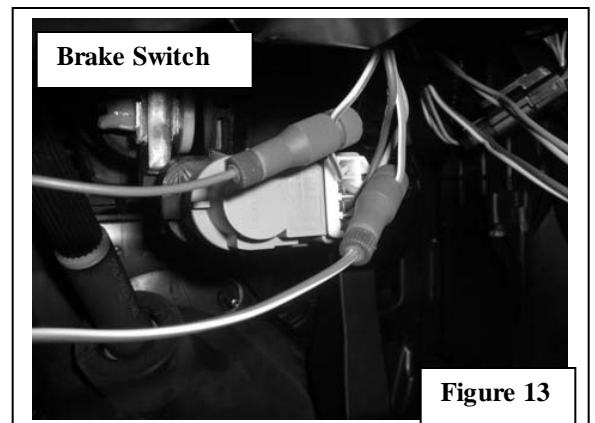
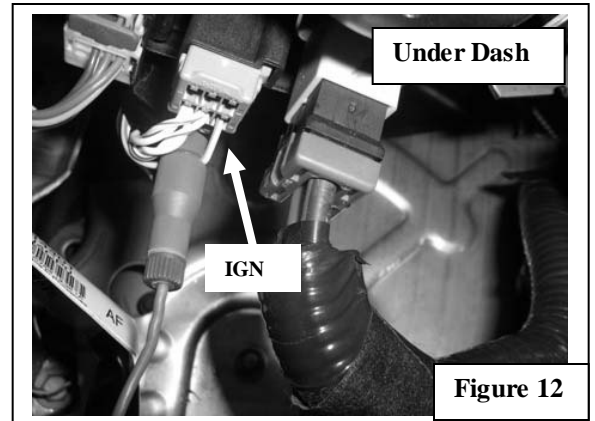


Function	See Fig.	Vehicle Color
IGN	12	YELLOW/GRAY
BRAKE +	13	YELLOW/RED
BRAKE -	13	VIOLET/WHITE
GROUND	14	GROUND POINT
VSS	15-16	GRAY/VIOLET
CLUTCH SWITCH	17	GREEN/WHITE

10. Use the supplied self stripping connectors or T-tap to connect from the Main Harness to vehicle wire:

Function	Cruise Harness Color	Vehicle Wire
IGN	RED	YELLOW/GRAY
BRAKE +	BLUE	YELLOW/RED
BRAKE -	BROWN/WHITE	VIOLET/WHITE
VSS	VIOLET	GRAY/VIOLET
CLUTCH SWITCH	WHITE	GREEN/WHITE

11. Apply the **Black Ground Wire** from the Main Harness to the Vehicle Ground Point behind lower dash panel. **Figure 14**

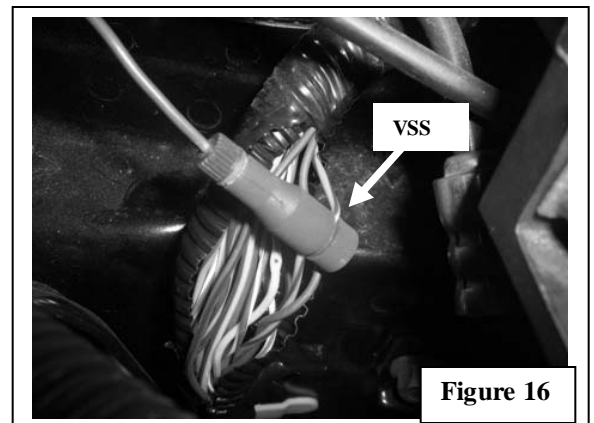
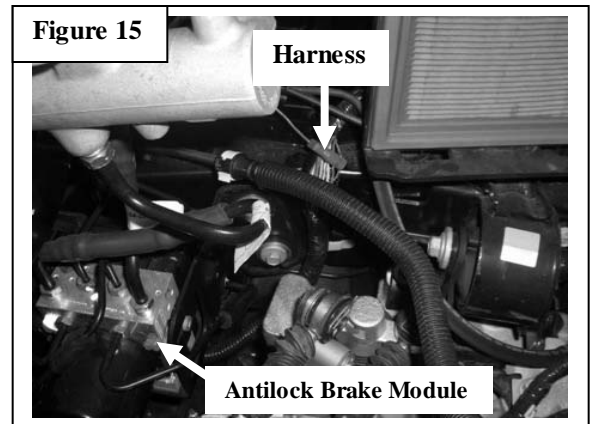


**Mazda Tribute / Ford Escape Connections
Continued...**

12. If the **Violet Wire** from the **Main Wiring Harness** is not long enough to reach the ABS VSS wire, then attach the **Blue extension wire** using the male spade terminal (both supplied in hardware kit) to the **Violet Wire**. Route the **Violet Wire** (or **Blue extension wire**) through grommet on firewall to antilock brake module. Remove the air intake system to access ABS harness (**Figure 15**). Using the supplied T-Tap connector, connect the **Violet Wire** (or **Blue extension wire**) from the **Main Wiring Harness** to the **Gray/Violet Wire** (Vehicle Speed Sensor) of the antilock brake module.

Note: The gray/violet wire will be entwined with violet wire. Apply the supplied weather sealant to the connection. Be sure all of connection is sealed properly. **Figure 16**

13. **Clutch Switch for Manual Transmissions:** Locate the black 2-pin connector on the clutch switch. Connect the **White Wire** from the Main Wiring harness to the **Green /White Wire** of the clutch switch. **Figure 17**
14. Secure Cruise Control and Switch Interface Module harnesses with zip ties away from moving parts.



C. Install Control Switch

- ➔ 1. Use the **Lever Wedges** on the **Control Switch** as an angle template to drill a 3/8" or 9.5mm hole in the lower shroud of the steering column cover. Assemble **Control Switch** to the lower shroud of the steering column cover according to **Figure 18**.
- 2. Apply nut and position the **Control Switch** for highest driver visibility.
- 3. Assemble (2) 3-pin connectors from the sack parts to the mating wire colors on the **Switch Harness**. Use the diagram to mate the **Main Wiring Harness** to the **Switch Harness**. **Figure 19**
- 4. Route the assembled **Switch Harness** to the mating connector of the **Cruise Control module**.
- 5. Secure the **Switch Harness** with zip ties away from moving parts.

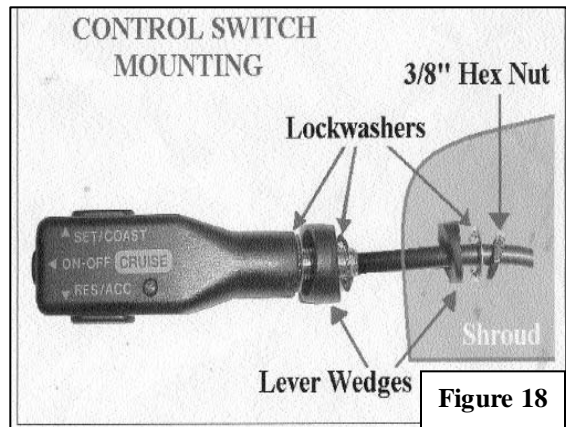


Figure 18

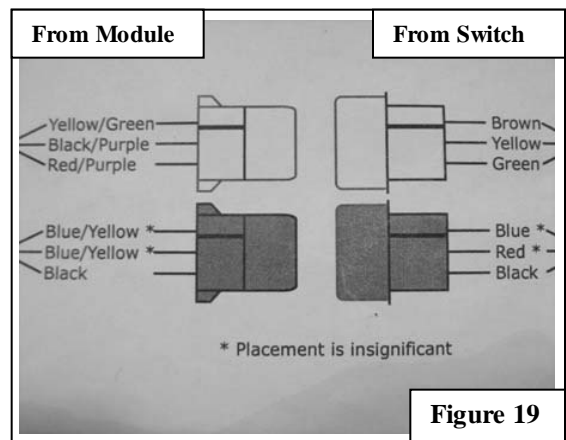


Figure 19

D. Testing

- ⊕ 1. Reconnect negative battery cable and torque to 35 lbs. Reenter anti-theft radio codes.
- ⊖ 2. Turn ignition on. Apply the on/off button of Cruise Control Switch.

F. Reassembly

- ➔ 1. Reinstall all removed pieces taking care to ensure harnesses and wiring connections are properly secured.
- 2. Make sure all harnesses are not pinched or bound by trim pieces.

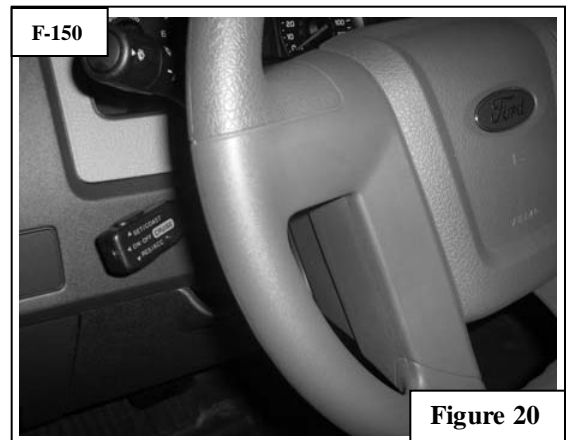


Figure 20

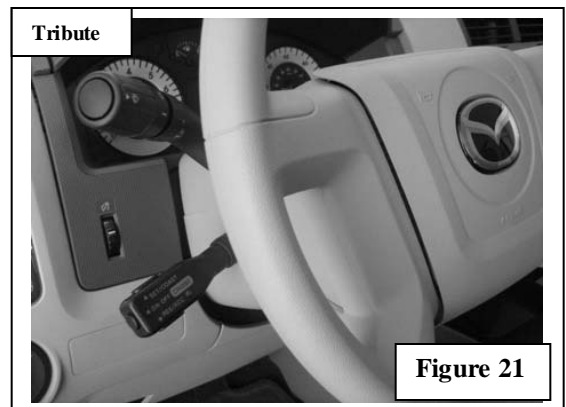


Figure 21

Section II – Wiring Diagram

