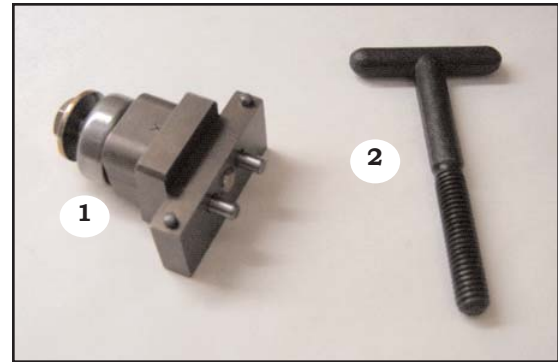


PART NUMBER: 250-1731

TOOL SERVICE PARTS



BASE KIT CONTENTS

ITEM	QTY	DESCRIPTION
1	1	CONTROL SWITCH ASSEMBLY
2	2	SCREWS (M5)
3	3	HARDWARE BAG

HARDWARE BAG CONTENTS

ITEM	QTY	DESCRIPTION
1	1	CRUISE ECM HARNESSES FOR COROLLA
2	1	CRUISE ECM HARNESS FOR TACOMA

ADDITIONAL ITEMS REQUIRED FOR INSTALL

ITEM	QTY	DESCRIPTION

CONFLICTS

NOTE: NOTE: ALL COROLLA VEHICLES WITH VIN'S BEGINNING WITH "2T1", AND AUTOMATIC TRANSMISSION VEHICLES WITH VIN'S BEGINNING WITH "1NX" REQUIRE PART ITEM 1 LISTED AT BAG CONTENTS. ALL TACOMA VEHICLES WITH V6 ENGINES USE ITEM 2.

RECOMMENDED TOOLS

PERSONAL & VEHICLE PROTECTION	
SAFETY GLASSES	
FENDER COVER	
GLOVES (OPTIONAL)	
SPECIAL TOOLS	
BATTERY POST PROTECTOR	
INSTALLATION TOOLS	
TRIM REMOVAL TOOL	PHILLIPS SCREWDRIVER
10-MM WRENCH	T-30 BIT
3/4 WRENCH DRIVE	1/4" AND 1 1/2" HOLE SAW
SPECIAL CHEMICALS	

FORM #5156, REV. J, 10-10-12

SVC CONTENTS

ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	CUTTING TOOL	250-2598
2	1	EXTRACTION TOOL	250-2600







GENERAL APPLICABILITY

COROLLA, MATRIX /PONTIAC VIBE ALL MODELS

SERVICE PARTS

ITEM	PART#	DESCRIPTION
1	250-2706	COROLLA ECM HARNESSES
2	250-2705	TACOMA ECM HARNESS

LEGEND

-  **STOP:** DAMAGE TO VEHICLE MAY OCCUR. DO NOT PROCEED UNTIL PROCESS COMPLIANCE HAS BEEN MET.
-  **OPERATOR SAFETY:** USE CAUTION TO AVOID RISK OF INJURY.
-  **CRITICAL PROCESS:** PROCEED WITH CAUTION TO ENSURE A QUALITY INSTALLATION. THESE POINTS WILL BE AUDITED ON A COMPLETED VEHICLE INSTALLATION.
-  **GENERAL PROCESS:** THIS HIGHLIGHTS SPECIFIC PROCESSES TO ENSURE A QUALITY INSTALLATION. THESE POINTS WILL BE AUDITED DURING THE ACCESSORY INSTALLATION.
-  **TOOLS & EQUIPMENT:** THIS CALLS OUT THE SPECIFIC TOOLS AND EQUIPMENT REQUIRED FOR THE PROCESS.
-  **REVISION MARK:** THIS MARK HIGHLIGHTS A CHANGE IN INSTALLATION WITH RESPECT TO PREVIOUS ISSUE.

SPECIAL NOTE: INSTALLATION SEQUENCES

AFTER SAFETY MANDATED PREPARATORY STEPS HAVE BEEN TAKEN, THE INSTALLATION SEQUENCE IS THE SUGGESTED METHOD FOR COMPLETING THE ACCESSORY INSTALLATION. IN SOME INSTANCES THE SUGGESTED SEQUENCE IS WRITTEN FOR ONE ASSOCIATE TO INSTALL AND IN OTHERS THE SEQUENCE IS GIVEN AS PART OF A TEAM ACCESSORY INSTALLATION. UNLESS OTHERWISE STATED IN THE DOCUMENT, THE ASSOCIATES MAY PERFORM THE INSTALLATION STEPS IN ANY ORDER TO MAKE THE INSTALLATION AS EFFICIENT AS POSSIBLE WHILE MAINTAINING CONSISTENT QUALITY.

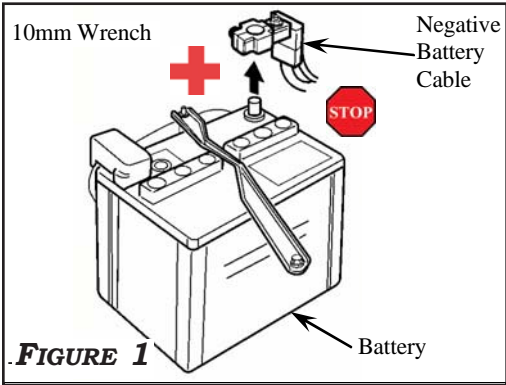
VEHICLE PREPARATION

VEHICLE PREPARATION:

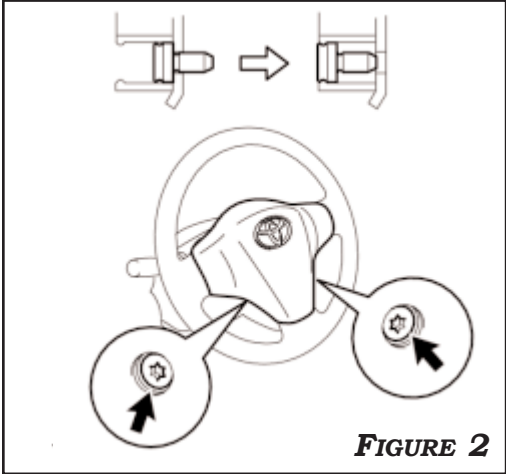
1. DISCONNECT THE CABLE FROM THE NEGATIVE TERMINAL OF THE BATTERY. **FIGURE 1**



CAUTION: ENSURE THAT BATTERY HAS BEEN DISCONNECTED FOR MORE THAN 90 SECONDS PRIOR TO REMOVAL OF AIRBAG; FAILURE TO HEED THIS WARNING MAY RESULT IN AIRBAG DISCHARGE AND MAY CAUSE SERIOUS INJURY OR DEATH.



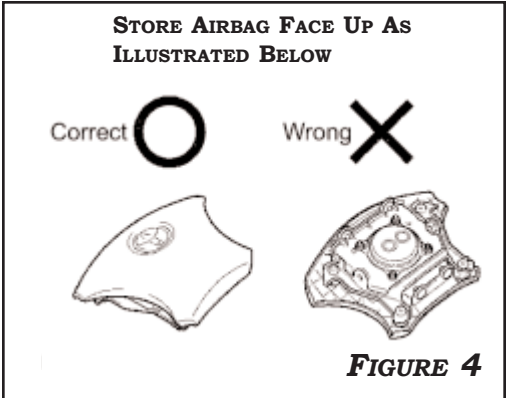
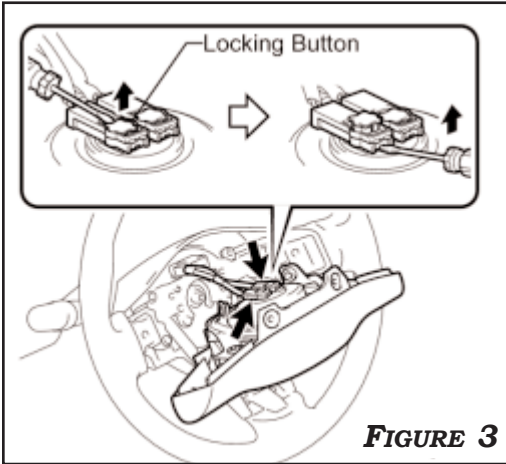
2. REMOVE AIRBAG BY EXTRACTING THE TWO 30 TORX SCREWS AS ILLUSTRATED IN **FIGURE 2**.



3. REMOVE GROUND TERMINAL AND DUMMY HORN/CRUISE CONNECTOR FROM STEERING WHEEL AND DISCARD. UTILIZE SMALL SCREWDRIVER TO REMOVE AIRBAG CONNECTORS AS ILLUSTRATED IN **FIGURE 3**.



CAUTION: BE SURE TO STORE AIRBAG FACE UP AS ILLUSTRATED IN **FIGURE 4** TO REDUCE INJURY IN EVENT OF ACCIDENTAL DISCHARGE OF AIRBAG.



INSTALLATION

CONTROL SWITCH



1. USING THE **SWITCH HOLE CUTTING TEMPLATE** ON PAGE 6, PLACE THE TEMPLATE ON THE INSIDE OF THE TRIM PIECE AS SHOWN AND DRILL A 1 1/2" HOLE INTO THE SHROUD FOR THE CONTROL SWITCH. **FIGURE 5**

2. MOUNT CRUISE CONTROL SWITCH WITH TWO (2) PHILLIPS SCREWS PROVIDED. REMOVE GROUND TERMINAL AND DUMMY HORN/CRUISE CONNECTOR FROM STEERING WHEEL AND DISCARD. PLUG IN CRUISE SWITCH CONNECTOR AND RECONNECT GROUND TERMINAL. **FIGURES 6-7**



3. REINSTALL AIRBAG.

TESTING



1. RECONNECT NEGATIVE BATTERY CABLE AND TORQUE TO 3FT*LBS.



2. TURN THE IGNITION TO THE "ON" POSITION. PRESS THE "CRUISE ON-OFF" BUTTON. THIS TURNS THE SYSTEM ON. THE INDICATOR LIGHT IN THE INSTRUMENT PANEL WILL COME ON. IF THE LIGHT DOES NOT COME ON, OR FLASHES, DISCONNECT NEGATIVE BATTERY TERMINAL AND CONTINUE TO NEXT PAGE.



3. IF THE INDICATOR LIGHT IN THE INSTRUMENT PANEL COMES ON, CHECK CRUISE FUNCTIONALITY. ENSURE CRUISE DISENGAGES WHEN VEHICLE IS SHIFTED INTO NEUTRAL OR CLUTCH IS DEPRESSED. ALSO ENSURE CRUISE DISENGAGES WHEN BRAKE IS DEPRESSED.



REASSEMBLY

1. REINSTALL TRIM PIECES TAKING SPECIAL CARE TO ENSURE HARNESSES AND WIRING CONNECTIONS ARE PROPERLY SECURED.
2. BE SURE HARNESS IS NOT PINCHED OR BOUND.

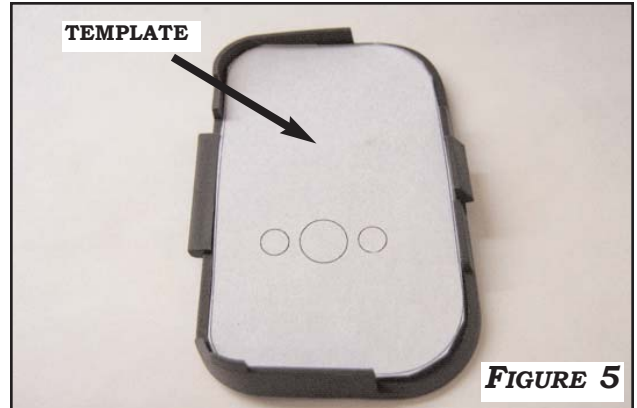


FIGURE 5

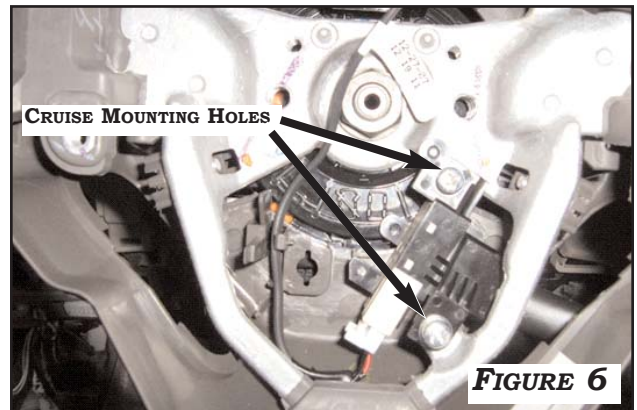


FIGURE 6

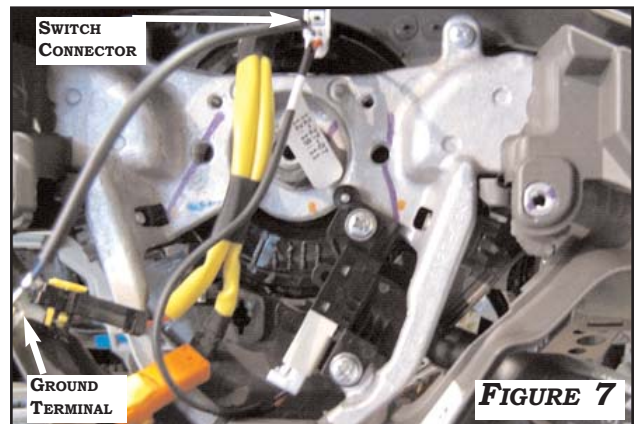


FIGURE 7



FIGURE 8

INSTALLATION

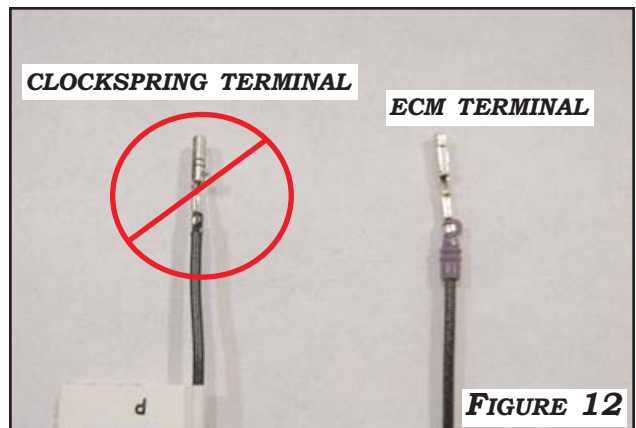
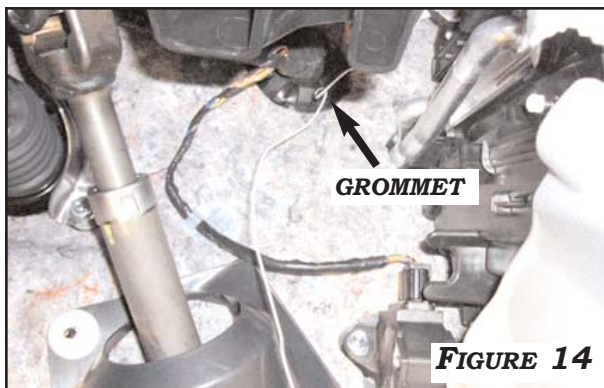
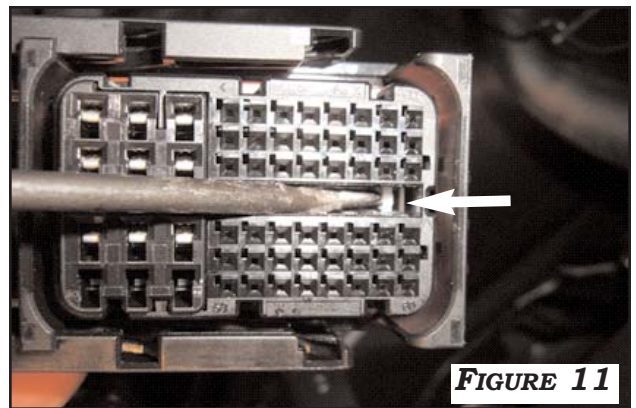
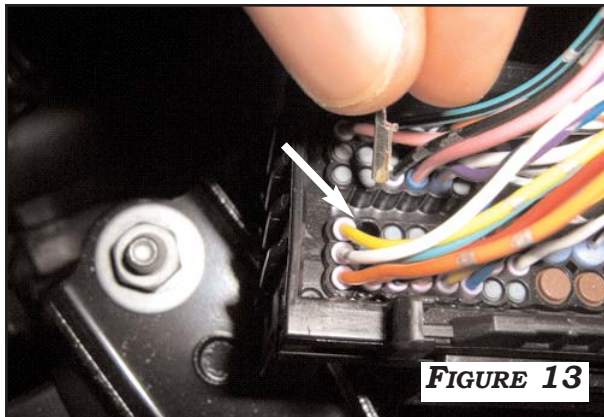
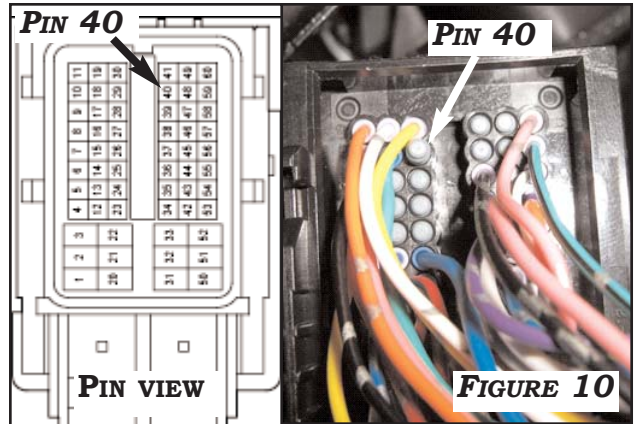


CAUTION: ENSURE THAT BATTERY HAS BEEN DISCONNECTED FOR MORE THAN 90 SECONDS PRIOR TO REMOVAL OF AIRBAG; FAILURE TO HEED THIS WARNING MAY RESULT IN AIRBAG DISCHARGE AND MAY CAUSE SERIOUS INJURY OR DEATH.

CRUISE ECM HARNESS



1. DISCONNECT NEGATIVE BATTERY CABLE FROM BATTERY.
2. LOCATE CONNECTOR **A50** AT DRIVER SIDE IN THE ENGINE COMPARTMENT. RELEASE CONNECTOR FROM THE ECM AND REMOVE THE PLASTIC COVER. **FIGURE 9**
3. LOCATE PIN **40**, IN WHICH, IF PRE-WIRED, WOULD BE A **BLUE/BLACK WIRE**. IF WIRE IS PRESENT, CUT OFF TERMINAL ON BLACK ECM HARNESS AND SOLDER. IF WIRE IS NOT PRESENT, REMOVE THE RUBBER SEAL IN PIN **40**. **FIGURE 10**. **BE SURE TO PUSH OUT TERMINAL RETAINER AT THE CENTER OF CONNECTOR. FIGURE 11. USE ECM TERMINAL WITH RUBBER SEAL AS SHOWN IN FIGURE 12. INSERT THE ECM TERMINAL FROM THE BLACK CRUISE ECM HARNESS TO PIN 40 OF CONNECTOR A50 CAREFULLY LOCKING TERMINAL INTO PLACE. FIGURE 13. PRESS IN RUBBER SEAL ON HARNESS INTO CONNECTOR HOUSING.**
4. REASSEMBLE CONNECTOR **A50** AND PLACE BACK ONTO ECM. ROUTE THE CRUISE ECM HARNESS THROUGH THE GROMMET ON THE FIREWALL AS SHOWN IN **FIGURE 14**.



INSTALLATION

CRUISE ECM HARNESS



1. DISENGAGE 4 CLIPS TO REMOVE LOWER STEERING WHEEL SHROUD. **FIGURE 15.**
2. LOCATE CONNECTOR **E6** CONNECTOR BEHIND STEERING WHEEL AT RIGHT SIDE OF SUB ASSEMBLY. **FIGURE 16.** REMOVE CONNECTOR. **BE SURE TO PUSH OUT TERMINAL RETAINER AT THE CENTER OF CONNECTOR. FIGURE 17.** IF PRESENT, REMOVE THE **YELLOW WIRE** IN **PIN 1** OF CONNECTOR **E6.** **SEE FIGURE 18.** INSERT THE **CLOCK-SPRING** TERMINAL FROM THE COROLLA CRUISE ECM HARNESS (**BLACK WIRE**) TO **PIN 1** OF CONNECTOR **E6.** CAREFULLY LOCK TERMINAL INTO PLACE. PULL THE TERMINAL BACK GENTLY TO CHECK WHETHER IT IS LOCKED CORRECTLY.
3. IF A WIRE IS PRESENT IN **PIN 2** OF CONNECTOR **E6,** REASSEMBLE CONNECTOR AND SEE TESTING INSTRUCTIONS. **BE SURE RETAINER IS PRESSED IN BEFORE REINSTALLING CONNECTOR.**
4. IF A WIRE IS NOT PRESENT, INSERT THE **CLOCKSPRING** TERMINAL FROM THE CRUISE GROUND HARNESS (BLACK WIRE) TO **PIN 2** OF CONNECTOR **E6.** CAREFULLY LOCK TERMINAL INTO PLACE. **FIGURE 18.** REASSEMBLE CONNECTOR. **BE SURE RETAINER IS PRESSED IN BEFORE REINSTALLING.**
5. REMOVE THE DRIVER SIDE KICK PANEL. ROUTE THE GROUND HARNESS TO VEHICLE GROUND POINT. REMOVE THE 10MM GROUND SCREW. INSTALL THE **GROUND** TERMINAL FROM THE **BLACK** CRUISE ECM HARNESS TO GROUND POINT. **FIGURE 19**
6. **SEE TESTING INSTRUCTIONS ON PAGE 3.**

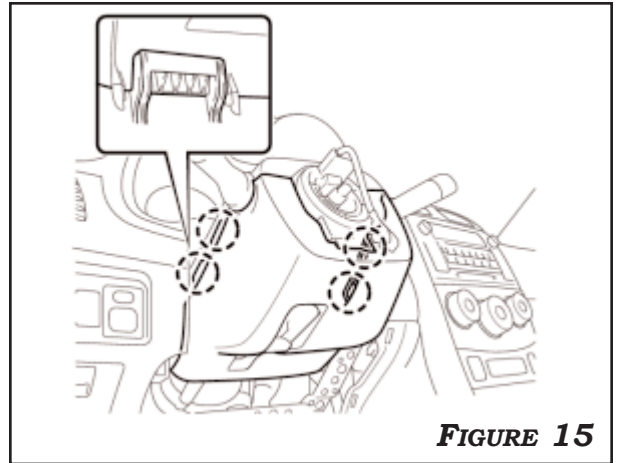


FIGURE 15

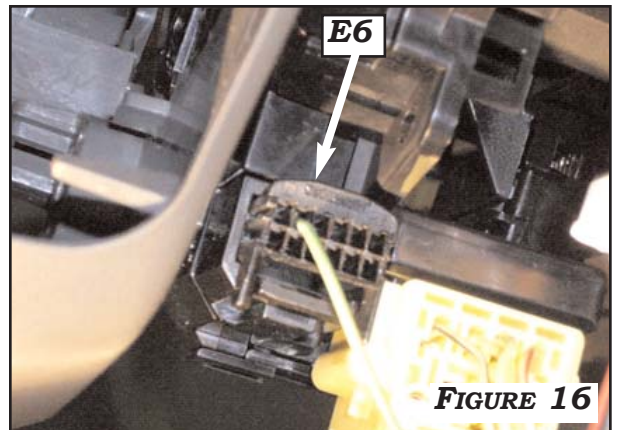


FIGURE 16

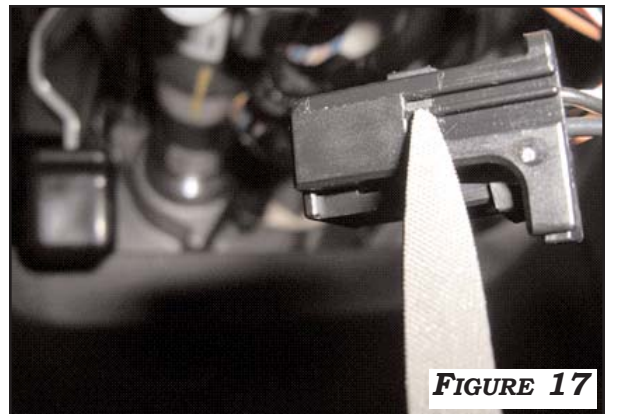


FIGURE 17

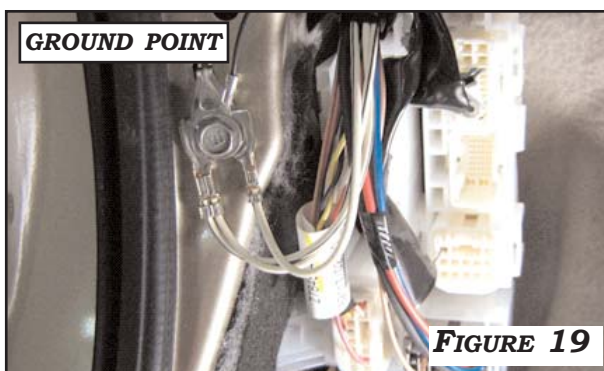


FIGURE 19

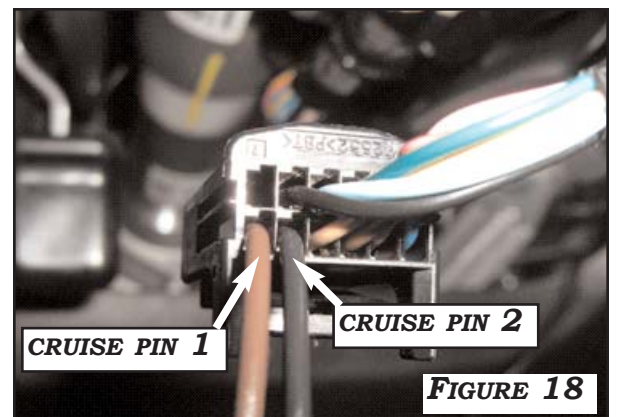
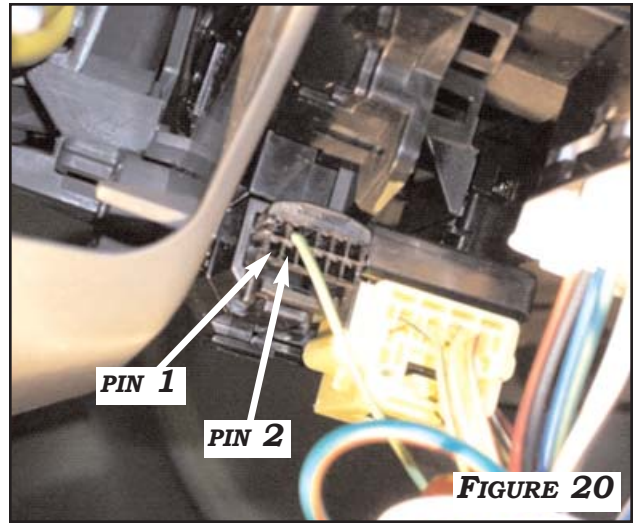


FIGURE 18

INSTALLATION

TROUBLESHOOTING

1. LOCATE CONNECTOR **E6** OF CLOCKSPEED BELOW RIGHT HAND SIDE STEERING COLUMN. REFER TO **FIGURE 20**
2. WITH IGNITION SWITCH ON, PLACE POSITIVE LEAD OF METER ON **PIN 1** (DC).
3. PLACE COMMON LEAD ON **PIN 2** (GROUND). CONFIRM READINGS ARE AS FOLLOWS:
 - A. KEY ON: 12VOLTS.
 - B. KEY ON, PRESS CRUISE SWITCH 'ON' AND HOLD: 0 VOLTS.
 - C. KEY ON, PRESS CRUISE SWITCH 'SET' AND HOLD: 6 VOLTS.
 - D. KEY ON, PRESS CRUISE SWITCH 'RESUME' AND HOLD: 3 VOLTS.
4. IF THE VOLTAGES ARE DIFFERENT REPLACE CONTROL SWITCH.
5. IF THERE IS NOT 12VOLTS ON **PIN 1**, THEN DO A CONTINUITY TEST FROM THE CONTROL SWITCH (BEHIND AIR BAG) TO THE COMPUTER.
6. IF NO CONTINUITY, THEN CHECK PIN INSERTIONS AT CONTROL SWITCH, CLOCKSPEED AND COMPUTER.
7. IF CONTINUITY IS GOOD, THEN VERIFY PIN POSITIONS AT CLOCKSPEED AND COMPUTER.
8. IF ALL POSITIONS CHECK OK AND CONTINUITY IS GOOD, THEN THERE IS A COMPUTER PROBLEM. CONSULT A TOYOTA DEALER.



TEMPLATE

