

2005-2008 TOYOTA TACOMA/TUNDRA

RF CRUISE CONTROL SWITCH INSTALLATION INSTRUCTIONS 250-1779

SERVICE PART NUMBERS

| ITEM | QTY | DESCRIPTION | PART NUMBER |
|------|-----|----------------|-------------|
| 1 | 1 | SWITCH HARNESS | 250-2726 |
| 2 | 1 | RF SWITCH | 250-2727 |
| | | | |

CONTENTS

| | |
|------------------------|---|
| INSTALLATION | 2 |
| TROUBLESHOOTING | 5 |
| OPERATING INSTRUCTIONS | 6 |
| NOTES | 7 |

INSTALLATION

NOTE

READ INSTRUCTIONS BEFORE BEGINNING INSTALLATION

- 1) MOUNT **RF SWITCH BRACKET** TO BOTTOM OF STEERING SHROUD AND SLIDE **RF SWITCH** ONTO BRACKET AS ILLUSTRATED IN **FIGURE 1**.
- 2) CONNECT **RECEIVER BOX** TO **RF HARNESS** AND MOUNT BOX BELOW STEERING COLUMN ALONG IGNITION HARNESS TO THE RIGHT OF THE **DRIVER SIDE J/B** WITH CABLE TIES AVOIDING SHARP EDGES AND MOVING PARTS. **FIGURE 2**
- 3) **ENGINE CONTROL MODULE** IS LOCATED BEHIND THE PASSENGER SIDE GLOVE BOX OR PASSENGER SIDE KICK PANEL FOR **07 TUNDRA**. REMOVE GLOVE BOX DOOR TO GAIN ACCESS TO THE **ECM** AND LOCATE CRUISE WIRE AS INDICATED BELOW: **(If WIRE IS NOT PRESENT, INSERT INCLUDED TERMINAL SHOWN IN FIGURE 15)**

TACOMA FIGURE 3 (SECOND CONN FROM BOTTOM)

1GR-FE ENGINE: CONN E7 PIN 2 BROWN/WHITE WIRE
2TR-FE ENGINE: CONN E7 PIN 31 BROWN/WHITE WIRE

05-06 TUNDRA FIGURE 4 (SECOND CONN FROM RIGHT)

1GR-FE ENGINE: CONN E4 PIN 2 BLACK/YELLOW WIRE
2UZ-FE ENGINE: CONN E4 PIN 2 BLACK/YELLOW WIRE

07 TUNDRA FIGURE 5 (PASSENGER SIDE KICK PANEL)

CONN AJ5 PIN 10 BROWN WIRE

- 4) ATTACH A **RED SELF-STRIPPING T-TAP** TO THE CRUISE WIRE LOCATED ABOVE AND MAKE A CONNECTION WITH THE **GRAY WIRE** OF THE **RF CRUISE HARNESS**.

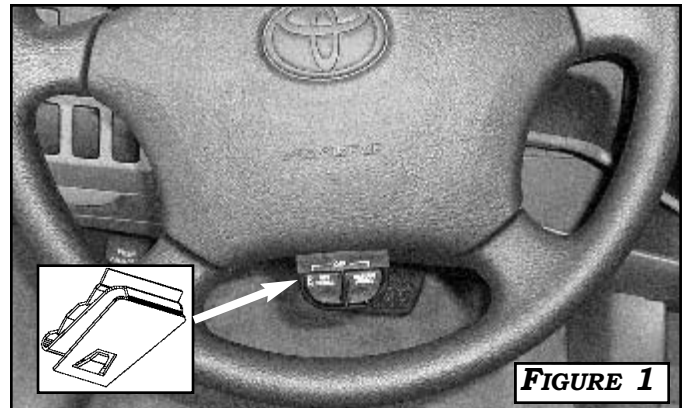


FIGURE 1

CAUTION

REMOVE NEGATIVE SIDE OF THE BATTERY BEFORE INSTALLATION OF ELECTRICAL COMPONENTS.

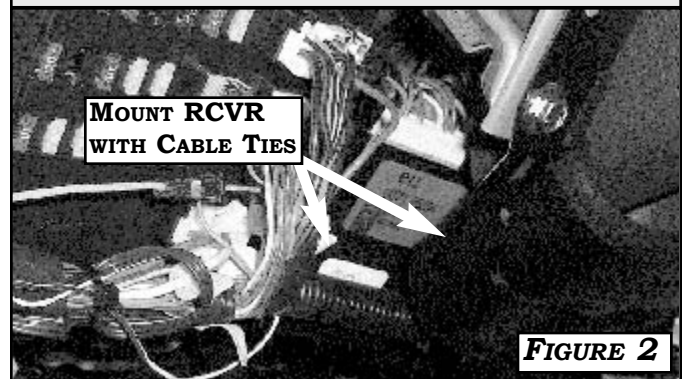


FIGURE 2

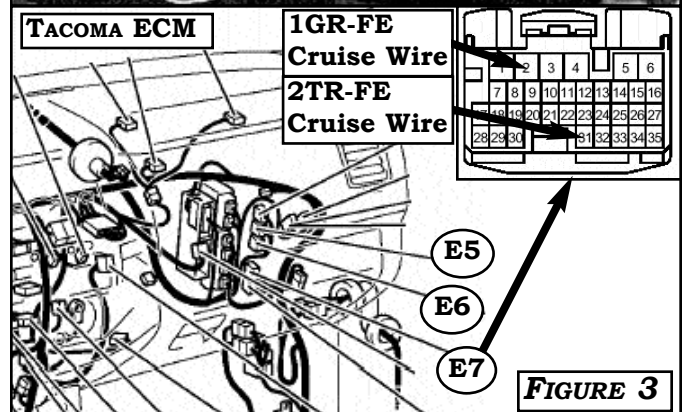


FIGURE 3

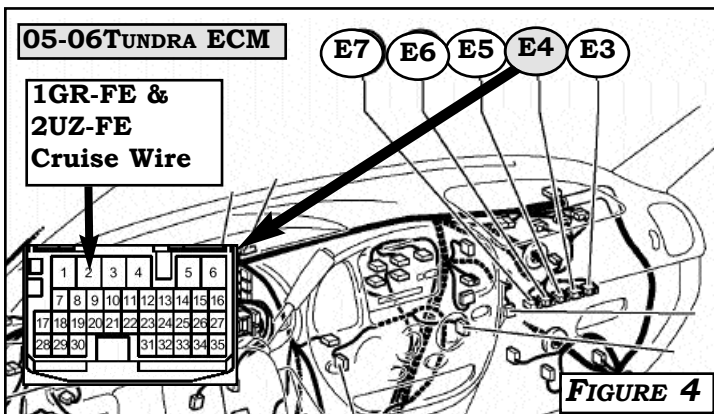


FIGURE 4

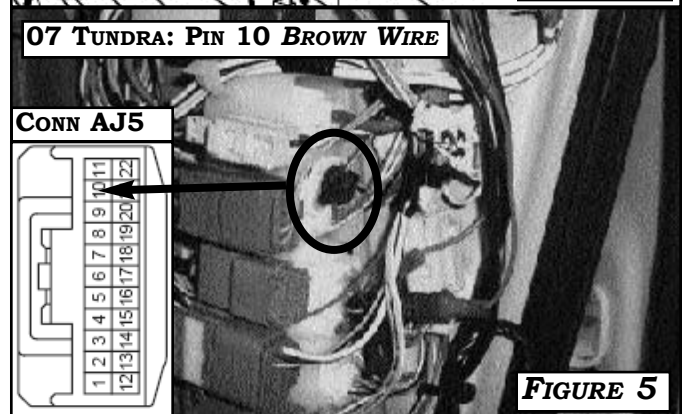


FIGURE 5

NOTE

FOR MANUAL TRANSMISSION TACOMA, ROSTRA CLUTCH DISENGAGEMENT SWITCH AND CLUTCH HARNESS KIT 250-2663 IS REQUIRED.

5) FOR MANUAL TRANSMISSION TACOMA ONLY: REPLACE CLUTCH PEDAL STOP BOLT WITH ROSTRA CLUTCH DISENGAGEMENT SWITCH. ATTACH CLUTCH HARNESS TO CLUTCH DISENGAGEMENT SWITCH. **FIGURE 6**

6) FOR MANUAL TRANSMISSION TACOMA ONLY: LOCATE CONNECTOR **C14** ABOVE CLUTCH PEDAL, **FIGURE 7**, AND ATTACH **RED** T-TAPS TO THE **Lt. BLUE** AND **Lt. GREEN** WIRES. CONNECT MALE TERMINALS TO **VIOLET** WIRES OF CLUTCH HARNESS AND MAKE CONNECTION WITH THE T-TAPS PREVIOUSLY INSTALLED.

CAUTION

THE ABOVE INSTRUCTIONS MUST BE FOLLOWED FOR MANUAL TRANSMISSION TACOMA TO COMPLETE THE CRUISE CIRCUIT AND ENSURE PROPER CRUISE DISENGAGEMENT UPON CLUTCH PEDAL DEPRESSION

7) LOCATE DRIVER SIDE J/B AS ILLUSTRATED IN FIGURE 8. REMOVE ASH TRAY/PANEL IN 07 TUNDRA TO ACCESS CONNECTOR J15. CONNECT Lt. BLUE POWER WIRE FROM RF HARNESS TO J15 PIN 1. FIGURE 9.

8) LOCATE POWER WIRE AT DRIVER SIDE J/B AS INDICATED BELOW AND MAKE ATTACHMENT TO Lt. BLUE POWER WIRE FROM RF HARNESS UTILIZING THE SELF-STRIPPING CONNECTORS PROVIDED. FIGURES 10-11

**TACOMA: DRIVER SIDE J/B CONNECTOR 1J PIN 20
GRAY WIRE 05-06 TUNDRA (ACCESS/STANDARD CAB):
DRIVER SIDE J/B CONNECTOR 1F PIN 10
BLACK/ORANGE WIRE.**

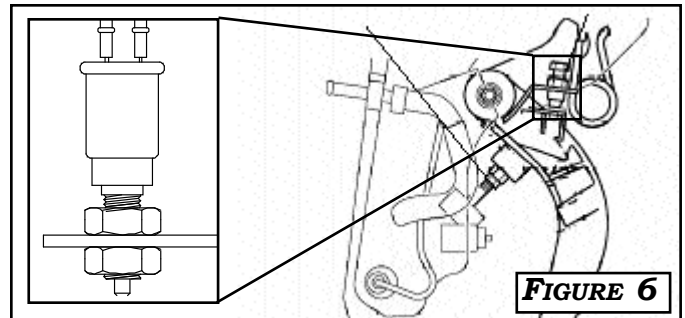


FIGURE 6

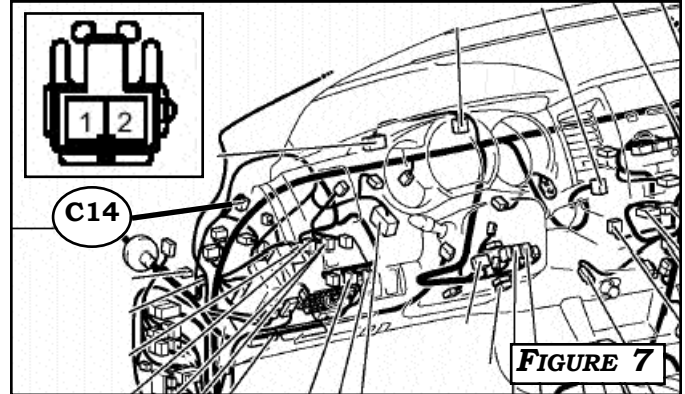


FIGURE 7

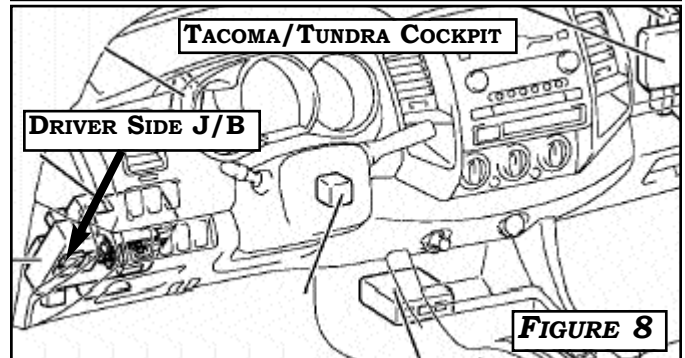


FIGURE 8

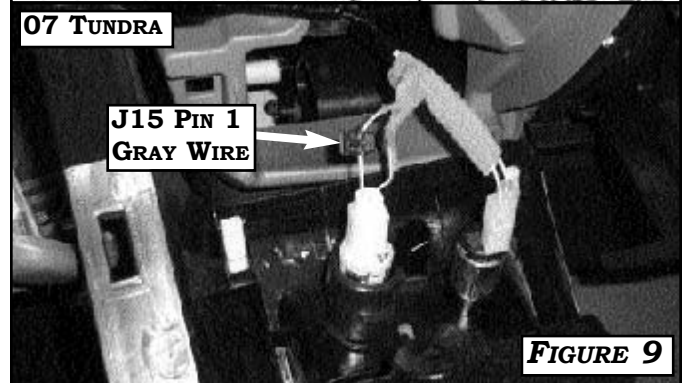


FIGURE 9

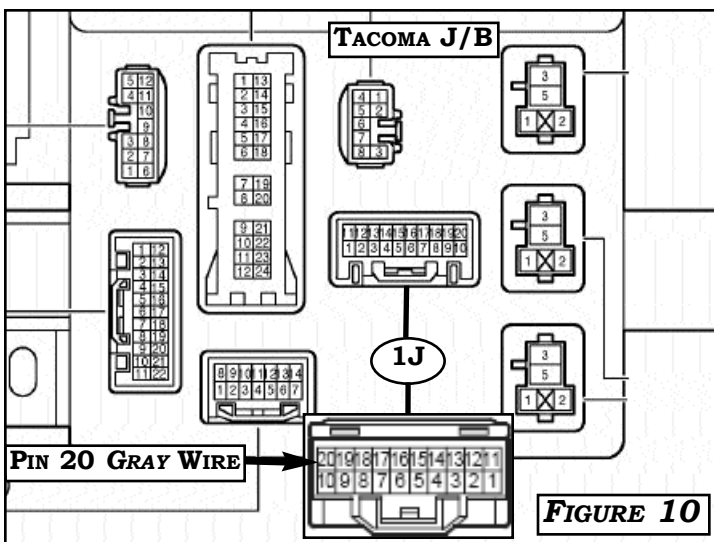


FIGURE 10

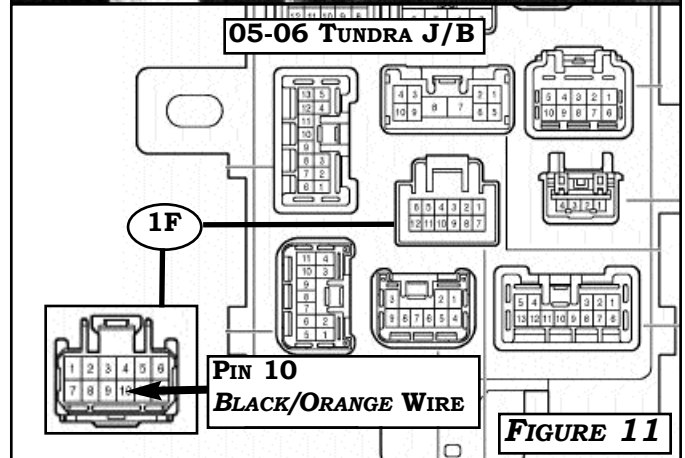
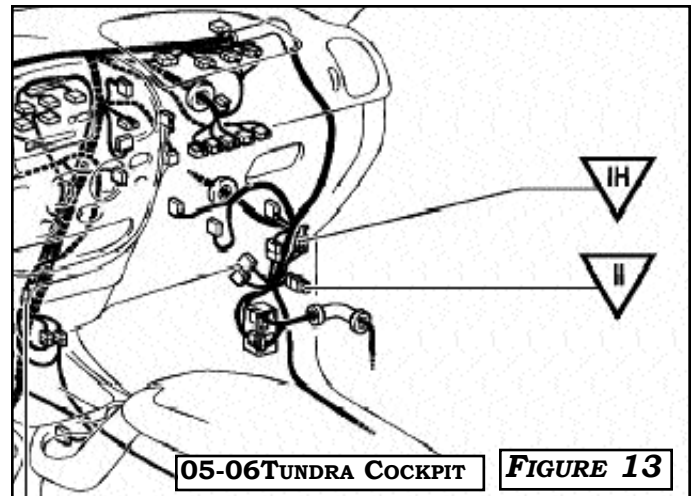
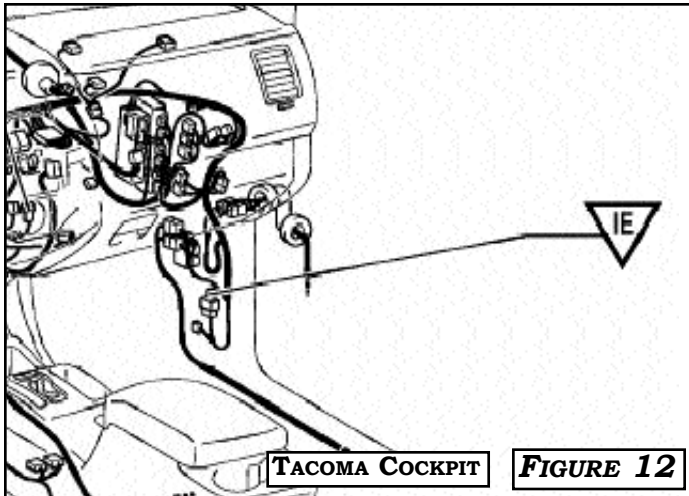


FIGURE 11

- 9) LOCATE VEHICLE GROUND POINT AS INDICATED BELOW AND MAKE ATTACHMENT TO **BLACK** GROUND WIRE FROM **RF HARNES** UTILIZING THE SELF-STRIPPING CONNECTORS PROVIDED. **FIGURES 12~13**
TACOMA: PASSENGER KICK PANEL GROUND POINT IE.
05-06 TUNDRA PASSENGER KICK PANEL GROUND POINT II.
07 TUNDRA PASSENGER KICK PANEL GROUND POINT J3



WARNING

UNDER NO CIRCUMSTANCE SHOULD INSTALLATION OF THIS KIT BE PERFORMED USING ELECTRICALLY POWERED EQUIPMENT. DOING SO CAN RESULT IN PERSONAL INJURY. MAKE SURE THAT THE IGNITION SWITCH IS IN THE OFF POSITION WITH THE KEY REMOVED FROM IGNITION AND THE BATTERY TERMINALS (POSITIVE AND NEGATIVE) REMOVED BEFORE YOU START THE INSTALLATION OF THIS KIT TO AVOID PERSONAL INJURY, ELECTRICAL SHOCK AND/OR DAMAGE TO THE VEHICLE'S ELECTRICAL SYSTEM. REMOVING THE AIR BAG FROM THE STEERING WHEEL COULD CAUSE INJURY AND/OR DEATH TO YOU OR ANY PERSON WORKING WITH YOU. REFER TO MANUFACTURER AIR BAG SERVICE MANUAL. DO NOT DISCONNECT THE AIR BAG WIRING HARNESS FOR ANY REASON, WHICH MAY CAUSE DAMAGE TO YOU AND/OR THE VEHICLE'S AIR BAG SYSTEM.

CAUTION

BE SURE TO ROAD TEST YOUR CRUISE CONTROL AFTER INSTALLATION. IF YOUR CRUISE CONTROL WAS INSTALLED CORRECTLY, IT SHOULD PERFORM AS INDICATED IN THE INSTALLATION MANUAL. THE CRUISE CONTROL SWITCH IS USED TO OPERATE THE SYSTEM.

CAUTION

DO NOT USE CRUISE CONTROL ON SLIPPERY ROADS OR IN HEAVY TRAFFIC.

CAUTION

WHEN INSTALLING THE RF BRACKET, KEEP AIR BAG HARNESS AWAY FROM THE BRACKET TO AVOID CRIMPING OR DAMAGING THE WIRES WHICH MAY CAUSE PERSONAL INJURY. REFER TO THE MANUFACTURER'S INSTALLATION MANUAL WHEN RE-TIGHTENING THE AIR BAG MOUNTING SCREWS.

CAUTION

TO HELP AVOID PERSONAL INJURY DUE TO UNWANTED INFLATION:
 DO NOT REMOVE THE AIR BAG FROM THE STEERING WHEEL, CRUSH OR PUNCTURE THE AIR BAG
 IF YOU SEE AIR BAG LIGHT ON DASH, DO NOT SERVICE, DISPOSE OF OR APPLY HEAT OR ELECTRICAL POWER TO THE AIR BAG. FOLLOW THE INSTRUCTIONS IN THE VEHICLES MANUFACTURER AIR BAG SERVICE MANUAL.

WARNING

WHEN CONNECTING THIS SYSTEM TO THE VEHICLE, ENSURE THAT YOU FOLLOW THIS INSTRUCTION MANUAL AND CONNECT ONLY TO SPECIFIED WIRES. FAILURE TO DO THIS MAY CAUSE THE CRUISE CONTROL SWITCH TO WORK IMPROPERLY, CAUSE ELECTRICAL OR ENGINE FAILURE AND MAY RESULT IN DAMAGE TO THE VEHICLE AND/OR INJURY TO THE OCCUPANTS. WE MUST DEPEND ON YOUR SKILL AND GOOD JUDGEMENT AS YOU INSTALL THIS SYSTEM. WE URGE YOU EVERY STEP OF THE WAY TO CONSIDER THE SAFETY OF YOURSELF, THE OWNER OF THE VEHICLE, AND THOSE WHO RIDE IN IT.

TROUBLESHOOTING

VERIFY VOLTAGES AT REAR OF THE RECEIVER MODULE CONNECTOR (FIGURE 14) USING A VOLT-OHM METER. ENSURE THE PROBE TIPS ARE CONTACTING THE METAL TERMINALS.

1. CHECK VOLTAGE BETWEEN THE BLUE WIRE (POWER, PIN 1) AND THE BLACK WIRE (GROUND, PIN 10) WITH KEY ON AND OFF. VOLTAGES SHOULD BE:

| | |
|---------|-------------------------------|
| KEY ON | 12-14 VOLTS (BATTERY VOLTAGE) |
| KEY OFF | BELOW 1 VOLT |

IF VOLTAGE ISN'T PRESENT, OR IS PRESENT REGARDLESS OF KEY POSITION, VERIFY THAT THE BLUE POWER WIRE IS CONNECTED AS STATED IN STEP 4 OF THE INSTRUCTIONS. THE POWER WIRE SHOULD HAVE VOLTAGE ONLY WHEN THE KEY IS IN THE ON OR ACC POSITION. IF NO VOLTAGE IS PRESENT, ALSO VERIFY THE GROUND CONNECTION ACCORDING TO STEP 8 AND THE VEHICLE FUSE FOR THE CIRCUIT.

2. CHECK VOLTAGE BETWEEN THE RED WIRE (CRUISE ON, PIN 7) AND THE BLACK WIRE (GROUND, PIN 10) WITH KEY ON AND OFF. VOLTAGES SHOULD BE:

| | |
|---------|-------------------------------|
| KEY ON | 12-14 VOLTS (BATTERY VOLTAGE) |
| KEY OFF | BELOW 1 VOLT |

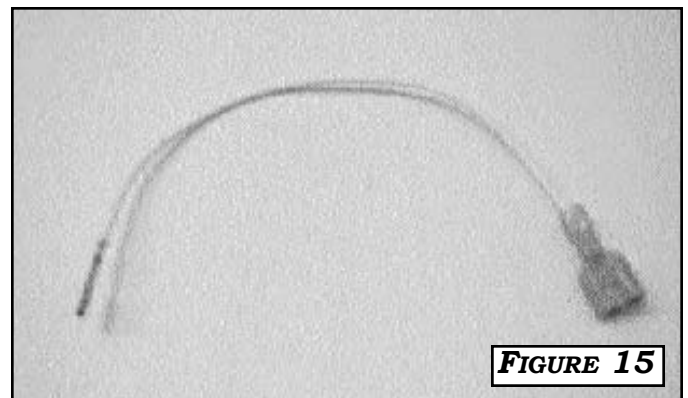
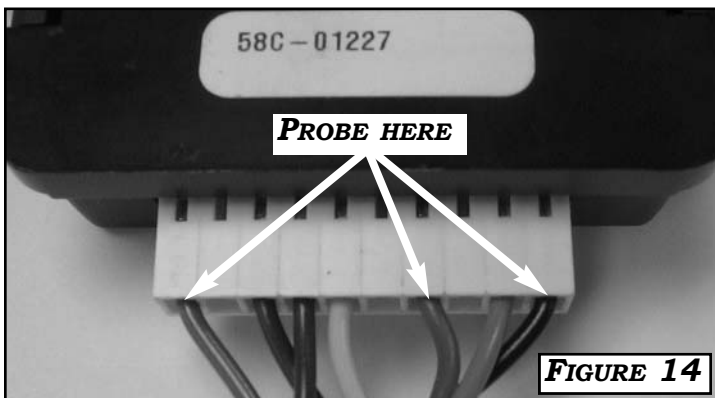
IF VOLTAGE ISN'T PRESENT, OR IS PRESENT REGARDLESS OF KEY POSITION, VERIFY THAT THE GRAY WIRE IS CONNECTED AS STATED IN STEP 5 OF THE INSTRUCTIONS.

3. WITH KEY IN THE ON POSITION, PRESS SET ON THE TRANSMIT MODULE TO TURN THE SYSTEM ON. VERIFY THE INSTRUMENT PANEL "CRUISE" LIGHT ILLUMINATES. (NOTE: BASE LEVEL V6 TUNDRA HAS NO DASH LIGHT.) NEXT VERIFY THE FOLLOWING VOLTAGES ON THE RED WIRE OF THE RF HARNESS CONNECTOR ARE WITHIN A VOLT OF THE FOLLOWING AS BUTTONS ARE PRESSED AND HELD:

| | |
|----------|-------------------------------|
| SET | 6 VOLTS |
| RESUME | 3 VOLTS |
| NO PRESS | 12-14 VOLTS (BATTERY VOLTAGE) |

IF VOLTAGES ARE DIFFERENT THAN ABOVE, VERIFY THE CONNECTION AT THE GRAY WIRE IS AS DESCRIBED IN STEP 5 OF THE INSTRUCTIONS.

IF THE ABOVE STEPS 1 AND 2 SHOW NORMAL VOLTAGES, BUT INSTRUMENT PANEL "CRUISE" LIGHT DOES NOT ILLUMINATE AND VOLTAGES DO NOT CHANGE WITH BUTTON PRESS AS DESCRIBED IN STEP 3, REPLACE BOTH THE TRANSMITTER AND RECEIVER.



OPERATING INSTRUCTIONS

SPEED CONTROL OPERATING INSTRUCTIONS

ON- THE CRUISE CONTROL IS AUTOMATICALLY TURNED ON WITH IGNITION POWER. HOWEVER, ONCE THE CRUISE CONTROL HAS BEEN MANUALLY TURNED OFF BY PRESSING BOTH BUTTONS AS DESCRIBED BELOW, IT CAN BE MANUALLY TURNED BACK ON BY MOMENTARILY PRESSING THE "SET/DECEL" BUTTON ALSO LABELED "ON".

SET SPEED- TO ENGAGE SYSTEM, DRIVE AT ANY SPEED ABOVE 33 MPH (50 KPH), PRESS "SET/DECEL" AND RELEASE, THEN REMOVE YOUR FOOT FROM THE ACCELERATOR PEDAL. THE CRUISE CONTROL WILL SET AT THE SPEED OF THE VEHICLE WHEN BUTTON IS RELEASED PLUS OR MINUS 1- 1/2 MPH (3 KPH).

COAST- PRESS AND HOLD THE "SET/DECEL" BUTTON AND YOUR SPEED WILL DECREASE. RELEASE BUTTON AND SPEED OF VEHICLE AT TIME BUTTON IS RELEASED WILL BE NEW SET SPEED IF ABOVE 33 MPH (50KPH).

ACCEL- PRESS AND HOLD THE "RESUME/ACCEL" BUTTON AND YOUR SPEED WILL INCREASE. RELEASE BUTTON AND YOU WILL HAVE A NEW HIGHER SET SPEED.

TAP-UP- YOU CAN GRADUALLY INCREASE YOUR SPEED BY QUICKLY PRESSING AND RELEASING THE "RESUME/ACCEL" BUTTON. EACH TIME YOU PRESS AND RELEASE THE BUTTON YOUR SPEED WILL INCREASE BY ONE TO TWO MPH (ONE AND A HALF TO THREE KPH).

TAP-DOWN- YOU CAN GRADUALLY DECREASE YOUR SPEED (ON SELECTED CRUISE CONTROL MODULES ONLY) BY QUICKLY PRESSING AND RELEASING THE "SET/DECEL" BUTTON. EACH TIME YOU PRESS AND RELEASE THE BUTTON YOUR SPEED WILL DECREASE BY ONE OR TWO MPH (ONE AND A HALF TO FIVE KPH).

DISENGAGE- DEPRESS BRAKE PEDAL SLIGHTLY - AUTOMATIC SPEED CONTROL WILL CEASE BUT SET SPEED WILL STAY IN SYSTEM'S MEMORY. ALSO, YOU CAN DISENGAGE BY PRESSING BUTTON TO OFF POSITION, BUT THIS ERASES THE MEMORY. TO GET THE RESUME FEATURE TO WORK AGAIN, YOU MUST FIRST SET A SPEED. TURNING OFF THE IGNITION ALSO CLEARS THE SYSTEM'S MEMORY.

RESUME- AFTER DISENGAGING SYSTEM WITH BRAKE OR CLUTCH, RETURN TO SET SPEED BY DRIVING ABOVE 33 MPH (50 KPH). THEN PRESS "RESUME/ACCEL" BUTTON AND RELEASE IT. IF ACCELERATION RATE IS FASTER OR SLOWER THAN YOU LIKE, DRIVE TO WITHIN A FEW MPH OF YOUR SET SPEED, THEN PRESS AND RELEASE THE RESUME/ACCEL BUTTON.

OFF- PRESS AND HOLD BOTH BUTTONS SIMULTANEOUSLY TO DISENGAGE AND TURN OFF THE CRUISE CONTROL. THE CRUISE CONTROL WILL NO LONGER ACCEPT ANY CONTROL SIGNALS UNTIL A NEW SET SPEED IS ESTABLISHED.

THINGS YOU SHOULD KNOW ABOUT YOUR CRUISE CONTROL SWITCH

THE CRUISE CONTROL SWITCH IS POWERED BY A 3V LITHIUM BATTERY, AND EVENTUALLY IT WILL NEED TO BE REPLACED. THE CRUISE CONTROL SWITCH HAS A DIAGNOSTIC FEATURE WHICH ALERTS THE DRIVER IF THE BATTERY NEEDS TO BE REPLACED. WHEN THE SWITCH BATTERY IS LOW, THE CRUISE CONTROL IS INOPERATIVE.

TO REPLACE A LOW BATTERY IN THE SWITCH:

1. REMOVE THE SWITCH FROM THE STEERING WHEEL BY FIRMLY GRASPING ON THE SIDES AND PULLING STRAIGHT UPWARD AWAY FROM THE STEERING WHEEL.
2. REMOVE THE BATTERY LOCATED ON THE BACK OF THE SWITCH BY GENTLY PRYING ONE SIDE OF THE BATTERY UP WITH A JEWELER'S SCREWDRIVER OR SIMILAR INSTRUMENT. NOTE THE POSITION OF THE BATTERY TO AID IN PROPER REPLACEMENT.
3. REPLACE THE BATTERY WITH A 3V LITHIUM MODEL CR2032 OR EQUIVALENT BY FIRST INSERTING AT AN ANGLE, THEN GENTLY PRESSING UNTIL BATTERY IS SEATED FLAT WITH THE SIDE OF THE BATTERY MARKED "+" IN VIEW.
4. REPLACE THE SWITCH ON THE STEERING WHEEL BY REVERSING THE PROCEDURE BY WHICH IT WAS REMOVED.

NOTES



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