

**TO:** Service Managers, Parts Managers  
**FROM:** GST Warranty Department  
**DATE:** 01/24/2007  
**RE:** Special Service Campaign PT07 (Speed Control Module)

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**Condition:**

Certain 2006 and 2007 model year Scion Xa and Xb vehicles equipped with a GST supplied Speed Control and:

- installed at GST's Vehicle Processing Center between: September 1, 2006 and January 17, 2007, or
- installed by Toyota dealers in the GST region (Arkansas, Louisiana, Mississippi, Oklahoma and Texas) between: September 1, 2006 and January 17, 2007.

**What is the problem?**

Certain speed control units have a faulty module. The problem occurs when the speed control "On/Off" switch is pressed once to turn the unit off, the throttle does not return to idle. When the "On/Off" switch is pressed a second time, the throttle will return to idle.

An accident could be caused in the event that the cruise control does not allow the engine to return to idle on the first depression of the "On/Off" switch.

The vehicles brakes will still bring the vehicle to a stop. There may be an amount of additional brake pedal force to be used if this condition occurred.

Should you be contacted by an owner regarding this campaign, please verify eligibility for this repair by referring to the affected VIN listing on the GST LIO Warranty System SSC inquiry screen.

**Owner Notification Mailing Date:**

Owners will be notified the 3<sup>rd</sup> week of February 2007 – You will receive a copy of the customer letter pending the National Highway Transportation Safety Administration (NHTSA) approval.

**Identification of Involved Vehicles:**

Please refer to the GST “Super Screen” to verify if a vehicle is in the SSC.

Additionally in the near future, a list of the number of cruise control kits that you sold/installed over-the-counter for retail level customers will be sent.

**Parts Required:**

You may order a replacement speed control module through your normal stock ordering system. The replacement part number is 00012-01809. There is a current order limit on this part to ensure proper stock is on hand.

**Reimbursement:**

File a normal GST LIO (port) warranty claim using the following information:

Failed part #: 00014-X0486-01  
T1 Code: 99  
Replacement part #: 00012-01809

**LIO/PORT installed part**

<u>SSC #</u>	<u>Op Code</u>	<u>Description</u>
PT07	LIO701	Inspection of speed control module
	LIO702	Replacement of speed control module

**DIO/Dealer installed part**

<u>SSC #</u>	<u>Op Code</u>	<u>Description</u>
PT07	DIO701	Inspection of speed control module
	DIO702	Replacement of speed control module

The flat rate labor time of 0.7 hours will automatically be calculated by the GST warranty system, do not enter the warranty time.

**Repair Procedure:**

See attached doc.

# Cruise Control Recall P701

2006-2007 Scion xA & xB  
(GST Installed Cruise)

**Check Applicability:**  
Run the vehicle VIN Number in  
the Warranty Super Screen

Does the VIN show that  
Recall P701 is outstanding?

Remove Cruise actuator  
to inspect the date code.  
*Step 1 of the instructions.*

No Action  
Necessary

Does the Date code fall  
in the affected range?

Replace the Cruise Control Actuator.  
Record the 5 Digit Date Code for input in the CCR of the  
Warranty Claim.

*Updated actuators can be identified by a part number label above  
the connector location of the actuator.  
Following the supplied instructions.*

Record the 5 Digit Date Code for input  
in the CCR of the Warranty Claim.  
Re-Install the Cruise Control Actuator.  
*Following the supplied instructions.*

Be sure a complete road test is performed. Test the Cruise  
Control and confirm the following, At 30mph, 45mph & 60mph:  
Insure the cruise control properly dis-engages when:  
1. The brake pedal is depressed  
2. The vehicle is shifted to neutral.  
3. The main cruise switch is turned off.

**\*Please note\*** Be sure the cruise has stabilized for each function. Do  
not activate the cancel function immediately after setting.

## Warranty Info:

Info:	Inspection ONLY:	Inspection/Replacement:
OP Code	LIO701	LIO702
Labor Time	.7	.7
Failed Part #	00012-X0486-21	00012-X0486-21

**\*NOTE\*** Be sure to include the Date code on the Module on  
ALL Warranty Claims.

Return the vehicle to the Customer



# DATE CODE VERIFICATION

- A.** IF **MODULE** INCLUDES A P/N LABEL AS NOTED IN **FIGURE 1A**, THE VEHICLE HAS ALREADY BEEN CORRECTED PER **SSC-P701**.



- B.** REMOVE THE NEGATIVE BATTERY CABLE BEFORE REMOVING OR INSTALLING THE CRUISE CONTROL COMPONENTS FOR SAFETY PRECAUTIONS. **FIGURE 1B**.



- CUT** AND REMOVE **TIE STRAP** SECURING **CRUISE CABLE** TO EXISTING **VEHICLE THROTTLE CABLE**.

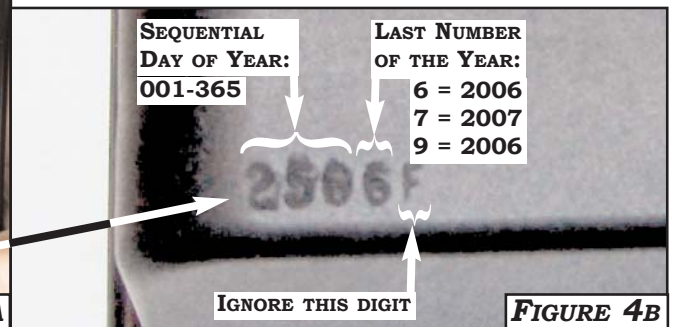
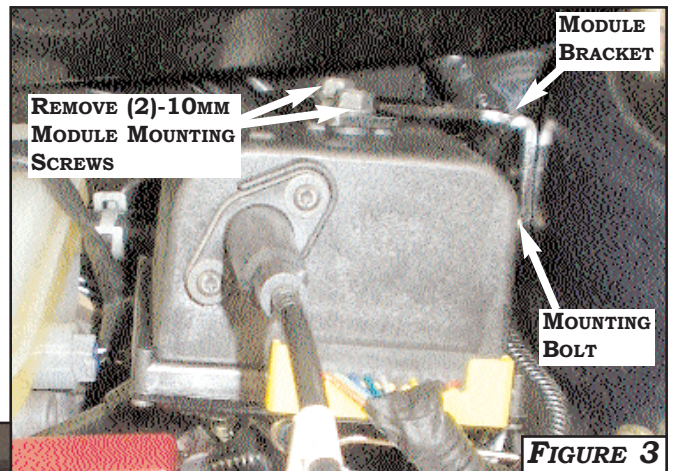
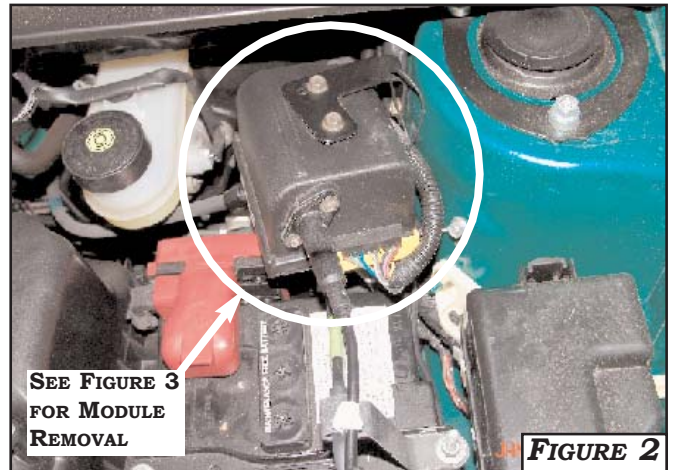
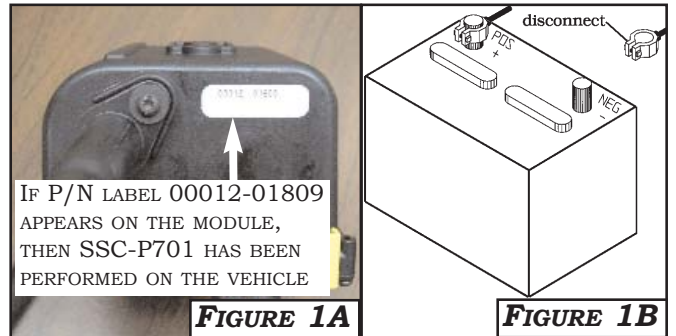
- REMOVE **CRUISE MODULE** BY REMOVING THE **(2)-10MM MODULE MOUNTING SCREWS** AS ILLUSTRATED IN **FIGURES 2 & 3**.

- CHECK **CRUISE MODULE** FOR **DATE CODE** AS SHOWN IN **FIGURES 4A & 4B**.  
THE **CODE** STAMPED ON THE UNIT CONTAINS **5 DIGITS (4 NUMBERS AND 1 LETTER)**. FROM THE LEFT, THE FIRST **4 DIGITS (NUMBERS)**. **IGNORE THE 5TH DIGIT**.  
**REPLACE ALL CRUISE CONTROL MODULES WITHIN THE FOLLOWING DATE CODES:**

- 243 THRU 365      4TH DIGIT 6
- 243 THRU 365      4TH DIGIT 9
- 001 THRU 017      4TH DIGIT 7

IF THE VEHICLE INCLUDES A MODULE NOT IN THE **DATE CODE** RANGES LISTED ABOVE, **RECORD** DATE CODE FOR INPUT INTO THE **CCR FIELD** OF THE WARRANTY CLAIM. BE SURE TO RECORD DATE CODES ON ALL VEHICLES INSPECTED. **WARRANTY CLAIMS SUBMITTED WITHOUT DATE CODES WILL NOT BE APPROVED FOR PAYMENT**. THEN CONTINUE TO **STEP 16** ON **PAGE 5**.

IF THE **DATE CODE** FALLS WITHIN THE SPECIFIED RANGES LISTED ABOVE PROCEED TO **STEP 5** ON **PAGE 3**.





# REMOVING THE MODULE



5. REMOVE THE (2)-TORX 15 CABLE MOUNTING SCREWS AS SHOWN IN **FIGURE 5**.

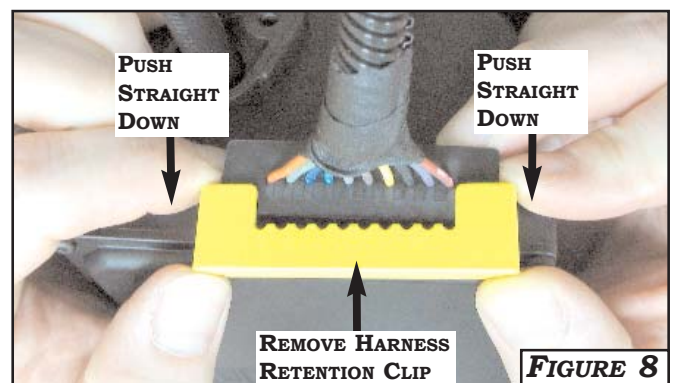
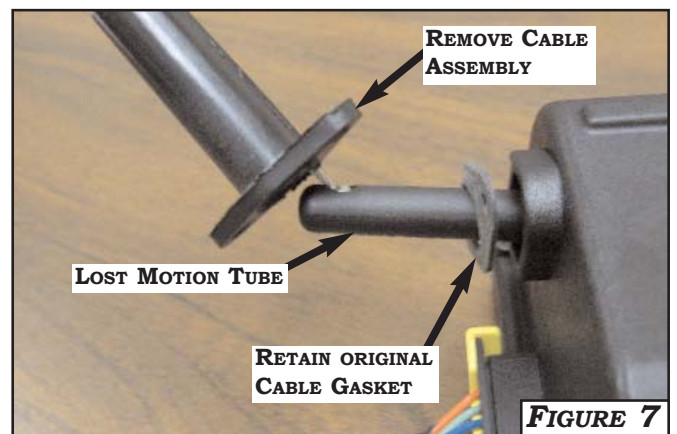
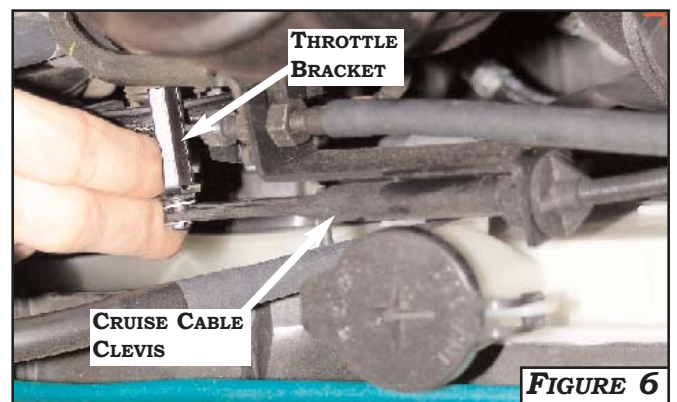
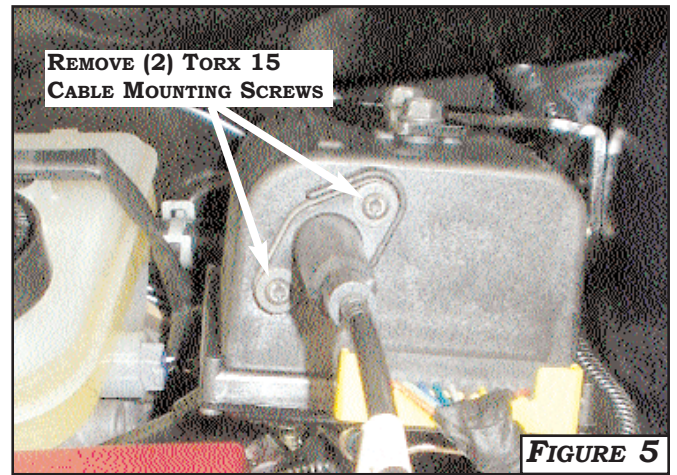
**NOTE:** RELEASE CABLE TENSION AT THROTTLE BODY END OF CABLE ASSEMBLY BY ROTATING **THROTTLE BRACKET ASSEMBLY TO WIDE OPEN THROTTLE**. (SEE **FIGURE 6**) BE SURE TO TAKE **SLACK** OUT OF THE **CRUISE CABLE** BY APPLYING PRESSURE TO THE **CRUISE CONTROL CABLE CLEVIS**.

6. REMOVE **CABLE ASSEMBLY** FROM **CRUISE MODULE**. SEE **FIGURE 7**. BE SURE TO RETAIN ORIGINAL **CABLE GASKET** FOR INSTALLATION OF NEW **CRUISE MODULE**.

7. REMOVE THE **YELLOW CRUISE HARNESS RETENTION CLIP** FROM **CRUISE MODULE**. SEE **FIGURE 8**. BE SURE TO RETAIN THIS CLIP FOR INSTALLATION OF NEW **CRUISE MODULE**.

8. REMOVE **CRUISE HARNESS** FROM **CRUISE MODULE** BY PULLING FIRMLY ON CRUISE HARNESS **GROMMET**. THE **GROMMET** AND CRUISE HARNESS **CONNECTOR** ARE TIGHTLY SECURED INTO THE CRUISE HOUSING. **FIGURE 9**

**CAUTION:** BE CAREFUL NOT TO **PULL THE CRUISE HARNESS** OR **INDIVIDUAL WIRES** AS THIS WILL **DAMAGE THE HARNESS WIRES AND/OR CONNECTOR**.



# INSTALLING THE MODULE

9. INSTALL **CRUISE HARNESS** INTO **NEW CRUISE MODULE** AS SHOWN IN **FIGURE 10**.

**NOTE:** **CONNECTOR** WILL ONLY INSERT IN ONE DIRECTION. ENSURE **ORANGE WIRE** IS LOCATED CLOSEST TO **LOST MOTION TUBE** TO ELIMINATE THE POSSIBILITY OF DAMAGING THE **CONNECTOR** OR **CRUISE HOUSING**.

10. PRESS **FIRMLY** ON **GROMMET** TO FULLY SEAT **CONNECTOR** AND ENSURE A PROPER FIT. **GROMMET** SHOULD FULLY SEAT AGAINST **CRUISE HOUSING**.

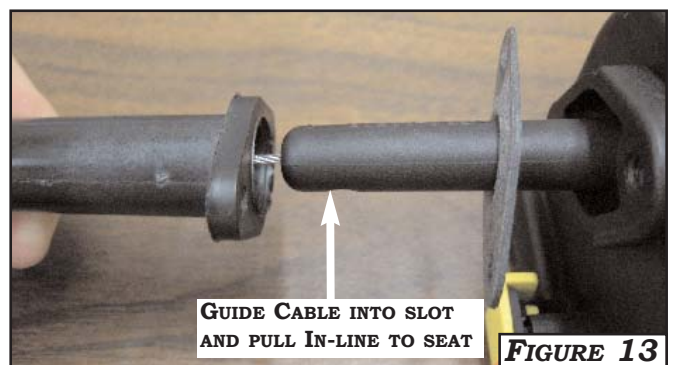
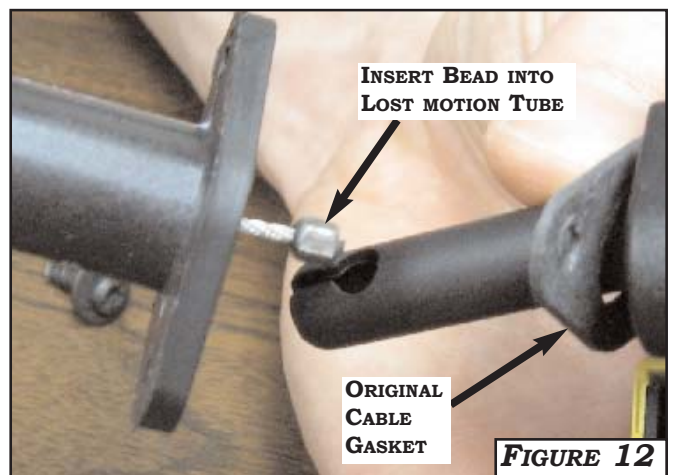
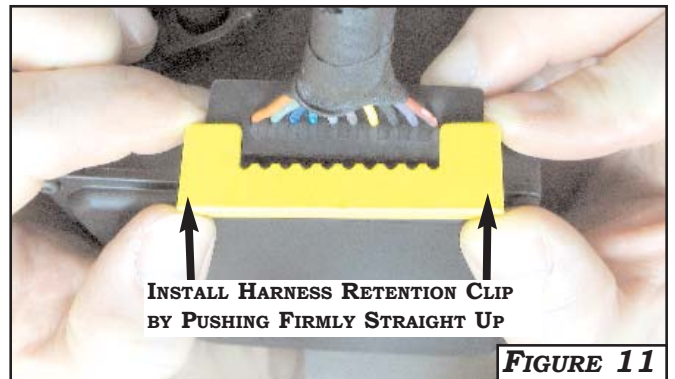
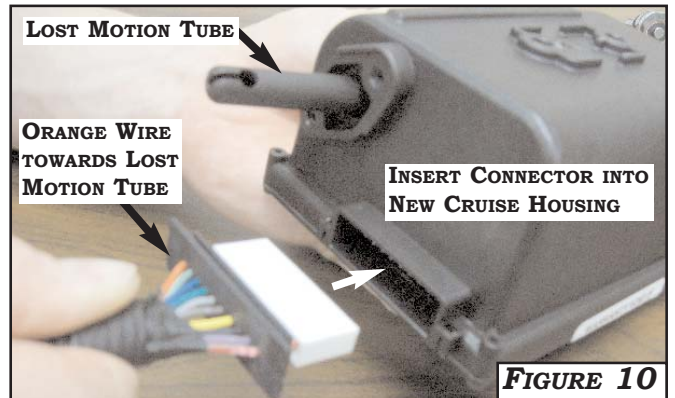
11. REINSTALL **HARNESS RETENTION CLIP** AS SHOWN IN **FIGURE 11**. PRESS DOWN FIRMLY TO FULLY SEAT **CLIP**.

12. SLIDE **ORIGINAL CABLE GASKET** OVER **LOST MOTION TUBE**.

13. INSERT **BEAD** OF **CABLE ASSEMBLY** INTO **LOST MOTION TUBE** AS SHOWN IN **FIGURE 12**.

**NOTE:** RELEASE CABLE TENSION AT THROTTLE BODY END OF CABLE ASSEMBLY BY ROTATING **THROTTLE BRACKET ASSEMBLY** TO **WIDE OPEN THROTTLE**. (SEE **FIGURE 6**) BE SURE TO TAKE **SLACK** OUT OF THE **CRUISE CABLE** BY APPLYING PRESSURE TO THE **CRUISE CONTROL CABLE CLEVIS**.

14. GUIDE **CABLE** INTO **SLOT** OF **LOST MOTION TUBE** AND PULL **CABLE ASSEMBLY** AWAY FROM **CRUISE MODULE** TO SEAT **BEAD** PROPERLY. **FIGURE 13**



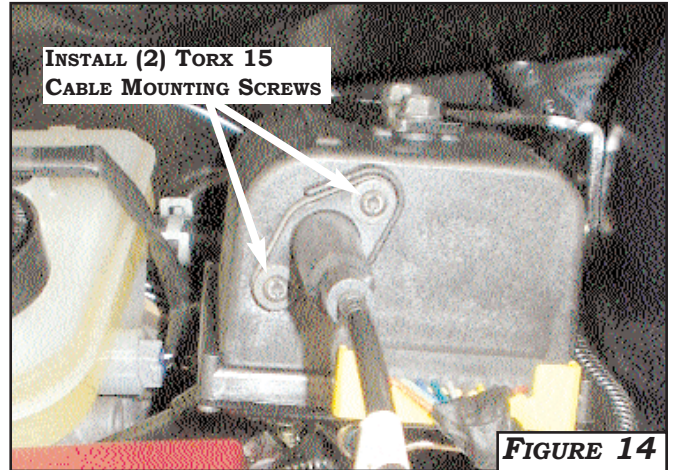


# INSTALLING THE MODULE



15. ALIGN **CABLE HOUSING** AND **CABLE GASKET** AND INSTALL **(2)-TORX 15 SCREWS**. TIGHTEN **SCREWS** TO **15.96-18.60LBS\*IN**. **FIGURE 14**

**NOTE: Do Not Overtighten Screws** as this will cause the screws to strip and result in a poor seal and possible **DAMAGE** to the **CRUISE MODULE**.

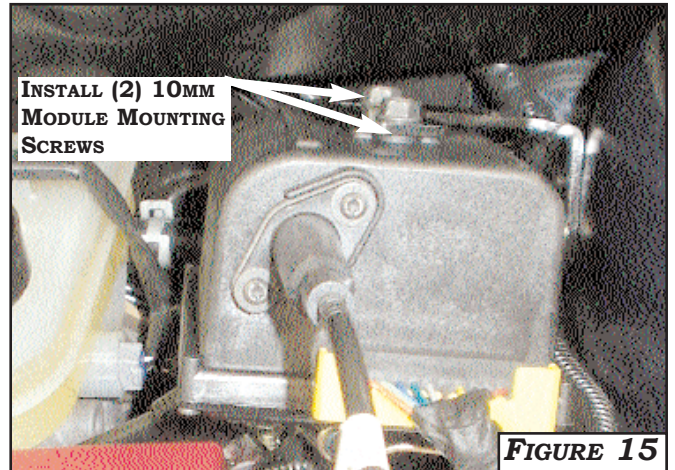


**FIGURE 14**



16. INSTALL **(2)-10MM SCREWS** AND TIGHTEN TO **48.72-57.48LBS\*IN**. **FIGURE 15**

**NOTE: Do Not Overtighten Screws** as this will cause the screws to strip resulting in possible **DAMAGE** to the **CRUISE MODULE**.



**FIGURE 15**

17. RESECURE **CABLE ASSEMBLY** WITH **CABLE TIE**.
18. ENSURE ALL **CABLES** AND **HARNESSES** ARE **SECURE** AND AWAY FROM ANY MOVING PARTS.

**NOTE: INSPECT THE CABLE ASSEMBLY MAKING SURE THE CABLE IS FREE OF KINKS AND SHARP BENDS THAT MAY RESTRICT CABLE MOVEMENT.**

19. TEST **CRUISE MODULE** ACCORDING TO **OPERATOR INSTRUCTIONS**, SEE **PAGE 6**.



# OPERATING INSTRUCTIONS

**ON-** TO OPERATE THE CRUISE CONTROL, PUSH THE CRUISE “ON/OFF” BUTTON “ON”. (GREEN INDICATOR WILL LIGHT.) WAIT 3 SECONDS BEFORE SETTING SPEED.

**SET SPEED-** TO ENGAGE SYSTEM, DRIVE AT ANY SPEED ABOVE 33 MPH, PRESS “SET/COAST” OR PRESS “RESUME/ACCEL” AND RELEASE, THEN REMOVE YOUR FOOT FROM THE ACCELERATOR PEDAL. AUTOMATIC CONTROL WILL BE AT THE SPEED OF THE VEHICLE WHEN BUTTON IS RELEASED PLUS OR MINUS 1- 1/2 MPH. PRESS ACCELERATOR AND SPEED WILL INCREASE, RELEASE ACCELERATOR AND YOU WILL RETURN TO SET SPEED. THE RESUME/ACCEL BUTTON WILL SET THE CRUISE CONTROL WITHOUT PRESSING THE SET BUTTON FIRST.

**COAST-** PRESS AND HOLD THE “SET/COAST” 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.

**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.

**TAP-DOWN-** YOU CAN GRADUALLY DECREASE YOUR SPEED BY QUICKLY PRESSING AND RELEASING THE “SET/COAST” BUTTON. EACH TIME YOU PRESS AND RELEASE THE BUTTON YOUR SPEED WILL DECREASE BY ONE OR TWO MPH.

**DISENGAGE-** DEPRESS BRAKE PEDAL SLIGHTLY - AUTOMATIC SPEED CONTROL WILL CEASE BUT SET SPEED WILL STAY IN SYSTEM’S MEMORY.

**POWER OFF-** THE CRUISE CONTROL POWER SWITCH CAN ALSO BE USED TO DISENGAGE THE SYSTEM. WHILE CRUISING AT A SET SPEED, TURN THE POWER SWITCH OFF. THE AUTOMATIC SPEED CONTROL WILL CEASE AND THE PREVIOUSLY SET SPEED WILL BE ERASED FROM THE SYSTEM’S MEMORY.

**RESUME-** AFTER DISENGAGING SYSTEM WITH BRAKE OR CLUTCH, RETURN TO SET SPEED BY DRIVING ABOVE 33 MPH. 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.

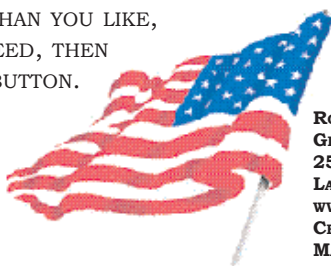
## THINGS YOU SHOULD KNOW ABOUT YOUR CRUISE CONTROL

THE PERFORMANCE OF THE CRUISE CONTROL IS DEPENDENT UPON THE CONDITION OF THE ENGINE, ITS SIZE AND EVEN BY THE TYPE OF EMISSION CONTROL EQUIPMENT IT HAS. DRIVING AT HIGHER ALTITUDE WILL HAVE AN EFFECT ON THE VEHICLE CRUISE CONTROL PERFORMANCE.

UNDER NORMAL CONDITIONS AND WITH PROPER REGULATOR ADJUSTMENTS, SPEED SHOULD BE CONTROLLED WITHIN PLUS OR MINUS 1- 1/2 MPH. THERE MAY BE SITUATIONS; HOWEVER, WHICH MAKE IT SEEM AS IF THE CRUISE CONTROL IS NOT CAPABLE OF FUNCTIONING ACCURATELY, SUCH AS AN EXTRA HEAVY LOAD, A VERY STEEP HILL, OR A SEVERE HEADWIND.

**CAUTION: Do not use Cruise Control on a Slippery Road or in Heavy Traffic.**

**CAUTION: (Manual Transmission)** WHILE DRIVING WITH CRUISE CONTROL “ON”, DO NOT SHIFT TO NEUTRAL WITHOUT DEPRESSING THE CLUTCH PEDAL, AS THIS MAY CAUSE ENGINE RACING OR OVERREVING. IF THIS HAPPENS, DEPRESS THE CLUTCH PEDAL OR TURN “OFF” THE MAIN CRUISE CONTROL SWITCH IMMEDIATELY.



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