

Form Approved: O.M.B. No. 2127-0004

Safety Defect and Noncompliance Report Guide for Equipment
PART 573 Defect and Noncompliance Report¹

On January 12, 2007, Rostra Precision Controls, Inc. [MFR] decided that a defect which relates to motor vehicle safety exists in the items of motor vehicle equipment listed below, and is furnishing notification to the National Highway Traffic Safety Administration in accordance with 49 CFR Part 573 Defect and Noncompliance Reports.

Date this report was prepared: January 16, 2007

Furnish the manufacturer's identification code for this recall (if applicable):

1. Identify the full corporate name of the fabricating manufacturer/brand name/trademark owner of the recalled item of equipment. If the recalled item of equipment is imported, provide the name and mailing address of the designated agent as prescribed by 49 U.S.C. §30164.

Rostra Precision Controls, Inc.
2519 Dana Drive
Laurinburg, NC 28352

Identify the corporate official, by name and title, whom the agency should contact with respect to this recall.

Dean Molde
VP Engineering and Quality
Rostra Precision Controls, Inc.

Telephone Number: 910-291-2535 Fax No.: 910-276-3865

Name and Title of Person who prepared this report.

Dean Molde
VP Engineering and Quality
Rostra Precision Controls, Inc.

¹Each manufacturer must furnish a report, to the Associate Administrator for Safety Assurance, for each defect or noncompliance condition which relates to motor vehicle safety.

This guide was developed from 49 CFR Part 573, "Defect and Noncompliance Reports" and also outlines information currently requested. Any questions, please consult the complete Part 573 or contact Mr. Jon White at (202) 366-5226 or by FAX at (202) 366-7882.

Signed:

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I. Identify the Recalled Items of Equipment

2. Identify the Items of Equipment Involved in this Recall, for each make and model or applicable item of equipment product line (provide illustrations or photographs as necessary to describe the item of equipment), provide:

Generic name of the item: Cruise Control

Make: Scion

Model: 2006 -2007 xA and xB

Part Number: 00012-X0486-01,
00015-X0486-01, 00012-X0486-21

Size :

Function: Cruise Control

Other information which characterizes/distinguishes the items of equipment to be recalled: Recall involves vehicles fitted with cruise controls at Gulf States Toyota's Vehicle Processing Center or installed by certain Toyota dealers in Gulf States' region (Arkansas, Louisiana, Mississippi, Oklahoma, and Texas). These vehicles can further be distinguished by the production date range.

Make: Scion

Model: 2006-2007 xA and xB

Part Number: 00016-79910,
00016-79910-01

Size :

Function: Cruise Control

Other information which characterizes/distinguishes the items of equipment to be recalled: Recall involves vehicles fitted with cruise controls at Southeast Toyota's Vehicle Processing Center or installed by certain Toyota dealers in Southeast Toyotas' region (Florida, Georgia, North Carolina, South Carolina, and Alabama). These vehicles can further be distinguished by the production date range.

Make: Scion

Model: xA and xB

Part Number: 250-1755

Size :

Function: Cruise Control

Other information which characterizes/distinguishes the items of equipment to be recalled: Recall involves vehicles fitted with cruise controls that were sold and installed by distributors and installers in the aftermarket.

Identify the approximate percentage of the production of all the recalled models manufactured by your company between the inclusive dates of manufacture provided above, that the recalled model population represents. For example, if the recall involved Widgets equipped with certain items of equipment from January 1, 1996, through April 1, 1997, then what was the percentage of the recalled Widgets of all Widgets manufactured during that time period.

21.2%

II. Identifying the Recall Population

3. Furnish the total number of items of equipment recalled potentially containing the defect or noncompliance.

Model	Year	Number of Items Potentially Involved
Gulf States Toyota Scion xA	2006-07	870 xA & xB. Split TBD
Gulf States Toyota Scion xB	2006-07	
Southeast Toyota Scion xA	2006-07	846 xA & xB. Split TBD
Southeast Toyota Scion xB	2006-07	
Scion xA or Scion xB Aftermarket		
Brandon Distributing Inc.	Any	532
Audiovox Corp.	Any	365
M & R Electronics	Any	108
Motovicity Distributors	Any	75
S & S Automotive	Any	54
T & A Services	Any	20
Instrument Services	Any	20
Dealer Automotive Services	Any	15
Auto Additions	Any	19
Accessories Unlimited	Any	12
H & R Radio	Any	17
Sylvester Electronics	Any	10
Clark Brothers sales Co.	Any	8
Coach Automotive Accessories	Any	7
Temstad	Any	4
Erickson Automotive Trim, Inc.	Any	4
RSC Restyling Specialist, Inc.	Any	2
Advanced Marketing	Any	2
Terry Poe Automotive	Any	1
Atech Motorsports	Any	1
Auto Marketing Services	Any	2
DSI Incorporated	Any	6
Thru-Way Auto Glass	Any	2
J & R Auto Upholstery	Any	1
Custom Auto Radio Dist.	Any	12
San Diego Speedo-Tach	Any	5

Total Number Potentially Affected by the Recall: 3009

4. Furnish the approximate percentage of the total number of items of equipment estimated to actually contain the defect or noncompliance: 3.7%

Identify and describe how the recall population was determined--in particular how the recalled models were selected and the basis for the beginning and final dates of manufacture of the recalled items of equipment:

The population was determined based on clutch lot receipt and usage dates, and quarantine date of defective component. This was compared against shipments to distributors and their installation dates, and production usage.

III. Describe the Defect or Noncompliance

5. Describe the defect or noncompliance. The description should address the nature and physical location of the defect or noncompliance. Illustrations should be provided as appropriate.

Residual magnetism of electro-magnetic clutch in cruise control module retains some magnetism when turned off. In the defective parts, the force generated by this residual magnetism is larger than the force of the throttle return.

Describe the cause(s) of the defect or noncompliance condition.

Variation in metallurgy and process history of steel used to produce the clutch assembly affects the residual magnetism of the clutch assembly. In vehicles containing the defect, the level of residual magnetism was higher than in the past.

Describe the consequence(s) of the defect or noncompliance condition.

If the residual magnetism force is greater than throttle return force, when the cruise control is engaged and the ON/Off switch is pressed once, the throttle may not return to idle. When the ON/Off switch is depressed a second time, the throttle will return to idle.

Identify any warning which can (a) precede or (b) occur.

Slow release of throttle when the cruise control is turned off.

If the defect or noncompliance is in a component or assembly purchased from a supplier, identify the supplier by corporate name and address.

International Technical Services
Nos. 166/168 Gloucester Road
17th Floor, Sing-Ho Finance Building
Wanchai, Hong Kong

Identify the name and title of the chief executive officer or knowledgeable representative of the supplier:

Robert Ellyson
President

IV. Provide the Chronology in Determining the Defect/Noncompliance

If the recall is for a defect, complete item 6, otherwise item 7.

6. With respect to a defect, furnish a chronological summary (including dates) of all the principle events that were the basis for the determination of the defect. The summary should include, but not be limited to, the number of reports, accidents, injuries, fatalities, and warranty claims.

1/2/07 Rostra was informed by Gulf States Toyota ("GST") of a warranty claim on a Rostra cruise control unit which had been installed by GST. The claim was that the cruise control did not release when the brake was applied.

1/4/07 Rostra was informed by Southeast Toyota ("SET") that a Rostra cruise control unit tested by SET on their dynamometer installation verification test was found to be sticking.

1/5/07 Rostra found that the cruise control unit which had been returned by GST functioned properly with a brake release (i.e., when the unit was "on" and the brake was depressed). Rostra and GST jointly decided that GST would install the unit in a vehicle at GST.

1/9/06 GST installed the unit described above and found that, while the unit would release from normal operation when the brake was depressed, it did not do so when the cruise control was turned off (i.e., if the "On/Off" switch was pressed before the brake was depressed).

1/10/06 Rostra measured the units returned by GST and SET and determined that the residual magnetism force was greater than the design intent.

1/12/06 Rostra reviewed the following summary: 1 confirmed dynamometer failure (the SET unit described above), 2 reported but not confirmed dynamometer failures, 1 confirmed warranty return (the GST unit described above), 1 unconfirmed warranty claim with similar symptoms, and preliminary data pointing to excessive residual magnetism on multiple clutches. Rostra concluded that a defect exists and will be reported.

7. With respect to a noncompliance, identify and provide the test results or other data (in chronological order and including dates) on which the noncompliance was determined. Not applicable.

V. Identify the Remedy

8. Furnish a description of the manufacturer's remedy for the defect or noncompliance. Clearly describe the differences between the recall condition and the remedy.

Replace cruise control modules with units that have been verified to have acceptable residual magnetism forces.

Clearly describe the distinguishing characteristics of the remedy component/assembly versus the recalled component/assembly.

Date code of assembled cruise control module that contains the electro-magnetic clutch.

Identify and describe how and when the recall condition was corrected in production. If the production remedy was identical to the recall remedy in the field, so state. If the product was discontinued, so state.

A process improvement was implemented 1/16/07 to check 100% of the residual magnetic force of the module. Any module that does not meet the requirement is rejected.

VI. Identify the Recall Schedule

Furnish a schedule or agenda (with specific dates) for notification to other manufacturers, dealers/retailers, and purchasers. Please, identify any foreseeable problems with implementing the recall.

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VII. Furnish Recall Communications

9. Furnish a final copy of all notices, bulletins, and other communications that relate directly to the defect or noncompliance and which are sent to more than one manufacturer, distributor, or purchaser. This includes all communications (including both original and follow-up) concerning this recall from the time your company determines the defect or noncompliance condition on, not just the initial notification. A *DRAFT* copy of the notification documents should be submitted to this office by Fax (202-366-7882) for review prior to mailing.

Note: These documents are to be submitted separately from those provided in accordance with Part 573.8 requirements.

The Privacy Act of 1974 - Public Law 93-579, As Amended: This information is requested pursuant to the authority vested in the National Highway Traffic Safety Act and subsequent amendments. You are under no obligation to respond to this questionnaire. Your response maybe used to assist the NHTSA in determining whether a manufacturer should take appropriate action to correct a safety defect. If the NHTSA proceeds with administration enforcement or litigation against a manufacturer, your response, or statistical summary thereof, may be used in support of the agency's action.