

Appendix E

Customer Problem Analysis Check

SEQUENTIAL MANUAL TRANSMISSION SYSTEM Check Sheet		Inspector's Name: _____	
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Customer's Name		Model and Model Year	
Driver's Name		Frame No.	
Date Vehicle Brought In		Engine Model	
Vehicle License No.		Odometer Reading	miles km

Symptoms	<input type="checkbox"/> Vehicle does not move	<input type="checkbox"/> Vehicle does not run normally (Vehicle can run in fail-safe mode in 1st or Rev) <input type="checkbox"/> Starter does not operate <input type="checkbox"/> Starter operates but engine does not start <input type="checkbox"/> Others ()
	<input type="checkbox"/> No up shift	<input type="checkbox"/> 1st → 2nd <input type="checkbox"/> 2nd → 3rd <input type="checkbox"/> 3rd → 4th <input type="checkbox"/> 4th → 5th <input type="checkbox"/> 5th → 6th
	<input type="checkbox"/> No down shift	<input type="checkbox"/> 6th → 5th <input type="checkbox"/> 5th → 4th <input type="checkbox"/> 4th → 3rd <input type="checkbox"/> 3rd → 2nd <input type="checkbox"/> 2nd → 1st
	<input type="checkbox"/> Gear does not change in a particular range	<input type="checkbox"/> 1st <input type="checkbox"/> 2nd <input type="checkbox"/> 3rd <input type="checkbox"/> 4th <input type="checkbox"/> 5th <input type="checkbox"/> 6th <input type="checkbox"/> Rev
	<input type="checkbox"/> Shift lever cannot be operated	<input type="checkbox"/> N → S <input type="checkbox"/> N → R <input type="checkbox"/> S → N <input type="checkbox"/> R → N
	<input type="checkbox"/> Noise	<input type="checkbox"/> Motor Shifting Gear <input type="checkbox"/> Others
	<input type="checkbox"/> Shudder <input type="checkbox"/> Slip	
	<input type="checkbox"/> Others	
Date and Time Problem Occurred		
Problem Frequency <input type="checkbox"/> Constant <input type="checkbox"/> Sometimes (times per day/week) <input type="checkbox"/> Once only <input type="checkbox"/> Others()		
Condition When Problem Occurred	Weather	<input type="checkbox"/> Fine <input type="checkbox"/> Cloudy <input type="checkbox"/> Rainy <input type="checkbox"/> Snowy <input type="checkbox"/> Various/Others
	Place	<input type="checkbox"/> Inner-city <input type="checkbox"/> Suburbs <input type="checkbox"/> Highway <input type="checkbox"/> Uphill <input type="checkbox"/> Downhill <input type="checkbox"/> Steep slope <input type="checkbox"/> Slight slope <input type="checkbox"/> Paved road <input type="checkbox"/> Rough road
	Engine	<input type="checkbox"/> Cold <input type="checkbox"/> During warming up (min. after engine starts) <input type="checkbox"/> After warming up
	Warning Lamp	<input type="checkbox"/> On <input type="checkbox"/> Off <input type="checkbox"/> Uncertain
	Warning Buzzer	<input type="checkbox"/> On (Sounding pattern:) <input type="checkbox"/> Off <input type="checkbox"/> Uncertain
	Shift Indicator	<input type="checkbox"/> R <input type="checkbox"/> N <input type="checkbox"/> S1 <input type="checkbox"/> S2 <input type="checkbox"/> S3 <input type="checkbox"/> S4 <input type="checkbox"/> S5 <input type="checkbox"/> S6 <input type="checkbox"/> On <input type="checkbox"/> Blinking <input type="checkbox"/> Off <input type="checkbox"/> Uncertain
	Shift lever Position	<input type="checkbox"/> R <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> + <input type="checkbox"/> -
	Engine	<input type="checkbox"/> Just after starting <input type="checkbox"/> Idling <input type="checkbox"/> Racing <input type="checkbox"/> Just before starting <input type="checkbox"/> Starting <input type="checkbox"/> () km/h in inertial driving <input type="checkbox"/> () km/h in constants speed <input type="checkbox"/> (Continual driving time before problem occurred: min.) <input type="checkbox"/> From ()km/h <input type="checkbox"/> Sudden <input type="checkbox"/> Slow <input type="checkbox"/> Acceleration <input type="checkbox"/> Deceleration <input type="checkbox"/> Stopping <input type="checkbox"/> Right <input type="checkbox"/> Left <input type="checkbox"/> Curve <input type="checkbox"/> Gear position () ~ () when up/down-shifting <input type="checkbox"/> Shift position:
Simulation	Condition	<input type="checkbox"/> Problem cannot be simulated <input type="checkbox"/> Problem can be simulated (How?)
	DG code	<input type="checkbox"/> No code exists when vehicle was brought in <input type="checkbox"/> ID Code exists when vehicle was brought in <input type="checkbox"/> No code exists after the deletion <input type="checkbox"/> Code exists after the deletion

Check whether the fail safe function of the output DTC agrees with the problem symptom, which the customer explains. DTC: Fail Safe Function Symptom:	
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Notes