



# SERVICE BULLETIN

GLOBAL AFTER SALES OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : CHANGE	ISSUE NO. : MSB-14EXMLPC17-002	DATE : 2014-05-30
SUBJECT : CRUISE CONTROL	<DESTINATION/MODEL> (As per attached sheet 1)	
GROUP : ENGINE/EMISSION CONTROL (Gr:17)	<M/Y> 07-15	

**1. Description :**

Please refer to the attached document for the information about the change of mention in the applicable service manual. (The inspection procedure regarding cruise control switch has been added)

**2. Affected service manuals :**

Please refer to the attached document (Attached sheet 1)

**3. About the details :**

Please refer to the attached document (Attached sheets 13-71)

**MMNA/MEXICO(Pub No:DRAFT)**

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2008 LANCER SERVICE MANUAL	MSCD-106B-2008	SYMPTOM CHART (M172-00-231-79000-01)	Attached sheet 13
		Inspection Procedure 8: When the "ON/OFF" Switch is Turned ON, "CRUISE" Indicator Light does not Illuminate (However, Cruise Control System is Normal.) (Added under M172-00-441-96400-01)	Attached sheet 14
2009 LANCER SERVICE MANUAL	MSCD-106B-2009	SYMPTOM CHART (M172-00-231-14300-01)	Attached sheet 13
		INSPECTION PROCEDURE 8: When the "ON/OFF" Switch is Turned ON, "CRUISE" Indicator Light Inside Combination Meter does not Illuminate (However, Cruise Control System is Normal.) (Added under M172-00-441-19100-01)	Attached sheet 14
2009.5 LANCER SERVICE MANUAL	MSCD-106B-2009.5	SYMPTOM CHART (M172-00-231-78900-01)	Attached sheet 13
		Inspection Procedure 11: When the "ON/OFF" Switch is Turned ON, "CRUISE" Indicator Light does not Illuminate (However, Cruise Control System is Normal.) (Added under M172-00-441-95300-01)	Attached sheet 14
2010 LANCER SERVICE MANUAL	MSCD-106B-2010	SYMPTOM CHART (M172-00-231-76700-01)	Attached sheet 13
		Inspection Procedure 11: When the "ON/OFF" Switch is Turned ON, "CRUISE" Indicator Light does not Illuminate (However, Cruise Control System is Normal.) (Added under M172-00-441-93100-01)	Attached sheet 14
2011 LANCER/LANCER SPORTBACK SERVICE MANUAL	MSCD-106B-2011 (Mexico: DRAFT)	SYMPTOM CHART (M172-00-232-03800-01)	Attached sheet 13
		Inspection Procedure 11: When the "ON/OFF" Switch is Turned ON, "CRUISE" Indicator Light does not Illuminate (However, Cruise Control System is Normal.) (Added under M172-00-441-93100-01)	Attached sheet 14

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2012 LANCER/LANCER SPORTBACK SERVICE MANUAL	MSCD-106B-2012 (Mexico: DRAFT)	SYMPTOM CHART (M172-00-232-03800-01)	Attached sheet 13
2013 LANCER/LANCER SPORTBACK SERVICE MANUAL	MSCD-106B-2013 (Mexico: DRAFT)	Inspection Procedure 11: When the "ON/OFF" Switch is Turned ON, "CRUISE" Indicator Light does not Illuminate (However, Cruise Control System is Normal.) (Added under M172-00-442-37600-01)	Attached sheet 14
2014 LANCER/LANCER SPORTBACK SERVICE MANUAL	MSCD-106B-2014 (Mexico: DRAFT)		
2009 LANCER SPORTBACK SERVICE MANUAL	MSSP-014B-2009	SYMPTOM CHART (M172-00-231-77800-01)	Attached sheet 13
		Inspection Procedure 11: When the "ON/OFF" Switch is Turned ON, "CRUISE" Indicator Light does not Illuminate (However, Cruise Control System is Normal.) (Added under M172-00-441-94200-01)	Attached sheet 14
2010 LANCER SPORTBACK SERVICE MANUAL	MSCD-014B-2010	SYMPTOM CHART (M172-00-231-75600-01)	Attached sheet 13
		Inspection Procedure 11: When the "ON/OFF" Switch is Turned ON, "CRUISE" Indicator Light does not Illuminate (However, Cruise Control System is Normal.) (Added under M172-00-441-92000-01)	Attached sheet 14
2008 LANCER EVOLUTION SERVICE MANUAL	MSCD-206B-2008	SYMPTOM CHART (M172-00-231-45500-01)	Attached sheet 15
		Inspection Procedure 7: When the "ON/OFF" Switch is Turned ON, "CRUISE" Indicator Light does not Illuminate (However, Cruise Control System is Normal.) (Added under M172-00-441-98600-01)	Attached sheet 16
2009 LANCER EVOLUTION SERVICE MANUAL	MSCD-206B-2009	SYMPTOM CHART (M172-00-231-40000-01)	Attached sheet 15
		Inspection Procedure 7: When the "ON/OFF" Switch is Turned ON, "CRUISE" Indicator Light does not Illuminate (However, Cruise Control System is Normal.) (Added under M172-00-441-98600-01)	Attached sheet 16
2010 LANCER EVOLUTION SERVICE MANUAL	MSCD-206B-2010	SYMPTOM CHART (M172-00-231-80800-01)	Attached sheet 15
		Inspection Procedure 7: When the "ON/OFF" Switch is Turned ON, "CRUISE" Indicator Light does not Illuminate (However, Cruise Control System is Normal.) (Added under M172-00-441-97500-01)	Attached sheet 16
2011 LANCER EVOLUTION SERVICE MANUAL	MSCD-206B-2011	SYMPTOM CHART (M172-00-231-80800-01)	Attached sheet 15
2012 LANCER EVOLUTION SERVICE MANUAL	MSCD-206B-2012	Inspection Procedure 7: When the "ON/OFF" Switch is Turned ON, "CRUISE" Indicator Light does not Illuminate (However, Cruise Control System is Normal.) (Added under M172-00-442-29100-01)	Attached sheet 16
2013 LANCER EVOLUTION SERVICE MANUAL	MSCD-206B-2013		
2014 LANCER EVOLUTION SERVICE MANUAL	MSCD-206B-2014		
2011 OUTLANDER SPORT SERVICE MANUAL	MSCD-017B-2011	SYMPTOM CHART (M172-00-232-10200-01)	Attached sheet 17
2012 OUTLANDER SPORT SERVICE MANUAL	MSCD-017B-2012	Inspection Procedure 8: When "ON/OFF" Switch is Turned ON, "CRUISE" Indicator Light Inside Combination Meter does not Illuminate (However, Cruise Control System is Normal.) (Added under M172-00-442-30900-01)	Attached sheet 18
2013 OUTLANDER SPORT SERVICE MANUAL	MSCD-017B-2013		
2014 OUTLANDER SPORT SERVICE MANUAL	MSCD-017B-2014 (Mexico: DRAFT)	SYMPTOM CHART (M172-00-232-35100-01)	Attached sheet 17
		Inspection Procedure 8: When "CRUISE ON/OFF" Switch is Turned ON, "CRUISE" Indicator Light Inside Combination Meter does not Illuminate (However, Cruise Control System is Normal.) (Added under M172-00-442-52500-01)	Attached sheet 18

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2007 OUTLANDER SERVICE MANUAL	MSCD-007B-2007	SYMPTOM CHART (M172-00-230-96800-01)	Attached sheet 19
		Inspection Procedure 6: When "ON/OFF" Switch is Turned "ON", "CRUISE" Indicator Light Inside Combination Meter does not Illuminate (However, Cruise Control System is Normal). (Added under M172-00-441-01600-01)	Attached sheet 20
2008 OUTLANDER SERVICE MANUAL	MSCD-007B-2008	SYMPTOM CHART (M172-00-231-15400-01)	Attached sheet 19
		Inspection Procedure 6: When "ON/OFF" Switch is Turned "ON", "CRUISE" Indicator Light Inside Combination Meter does not Illuminate (However, Cruise Control System is Normal). (Added under M172-00-441-20900-01)	Attached sheet 20
2009 OUTLANDER SERVICE MANUAL	MSCD-007B-2009	SYMPTOM CHART (M172-00-231-32500-01)	Attached sheet 19
2010 OUTLANDER SERVICE MANUAL	MSCD-007B-2010	Inspection Procedure 6: When "ON/OFF" Switch is Turned "ON", "CRUISE" Indicator Light Inside Combination Meter does not Illuminate (However, Cruise Control System is Normal). (Added under M172-00-441-36200-01)	Attached sheet 20
2011 OUTLANDER SERVICE MANUAL	MSCD-007B-2011 (Mexico: DRAFT)	SYMPTOM CHART (M172-00-232-11300-01)	Attached sheet 19
2012 OUTLANDER SERVICE MANUAL	MSCD-007B-2012 (Mexico: DRAFT)	Inspection Procedure 6: When "ON/OFF" Switch is Turned ON, "CRUISE" Indicator Light Inside Combination Meter does not Illuminate (However, Cruise Control System is Normal). (Added under M172-00-442-31000-01)	Attached sheet 20

## EU/RUSSIA(Pub No:N/A)

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2008 LANCER Workshop Manual	CG1E08E2-CD (Eng) CG1F08E2-CD (Fre) CG1G08E2-CD (Ger) CG1S08E2-CD (Spa) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-10900-01)	Attached sheet 21
		Inspection Procedure 8: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-15700-01)	Attached sheet 22
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-11000-01)	Attached sheet 23
		Inspection Procedure 6: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-16800-01)	Attached sheet 24
2009 LANCER Workshop Manual	CG1E09E1-CD (Eng) CG1F09E1-CD (Fre) CG1G09E1-CD (Ger) CG1S09E1-CD (Spa) CG1I09E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-27300-01)	Attached sheet 21
		Inspection Procedure 11: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-31700-01)	Attached sheet 22
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-11000-01)	Attached sheet 23
		Inspection Procedure 6: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-32800-01)	Attached sheet 24

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2010 LANCER Workshop Manual	CG1E10E1-CD (Eng) CG1F10E1-CD (Fre) CG1G10E1-CD (Ger) CG1S10E1-CD (Spa) CG1I10E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-65900-01)	Attached sheet 21
		Inspection Procedure 11: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-79300-01)	Attached sheet 22
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-74500-01)	Attached sheet 23
		Inspection Procedure 6: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-91900-01)	Attached sheet 24
2011 LANCER/LANCER SPORTBACK Workshop Manual	CG1E11E1-CD (Eng) CG1F11E1-CD (Fre) CG1G11E1-CD (Ger) CG1S11E1-CD (Spa) CG1I11E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-65900-01)	Attached sheet 25
		Inspection Procedure 11: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-79300-01)	Attached sheet 26
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-66000-01)	Attached sheet 27
		Inspection Procedure 6: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-80100-01)	Attached sheet 28
2012 LANCER/LANCER SPORTBACK Workshop Manual	CGSE12E1-CD (Eng) CGSF12E1-CD (Fre) CGSG12E1-CD (Ger) CGSS12E1-CD (Spa) CGSI12E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-232-16800-01)	Attached sheet 25
		Inspection Procedure 8: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-36500-01)	Attached sheet 26
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-66000-01)	Attached sheet 27
		Inspection Procedure 6: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-80100-01)	Attached sheet 28
2013 LANCER/LANCER SPORTBACK Workshop Manual	CCAE13E1-CD (Eng) CCAF13E1-CD (Fre) CCAG13E1-CD (Ger) CCAS13E1-CD (Spa) CCAI13E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-66000-01)	Attached sheet 27
		Inspection Procedure 6: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-80100-01)	Attached sheet 28
2009 LANCER SPORTBACK Workshop Manual	CG4E09E1-CD (Eng) CG4F09E1-CD (Fre) CG4G09E1-CD (Ger) CG4S09E1-CD (Spa) CG4I09E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-28400-01)	Attached sheet 21
		Inspection Procedure 11: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-33900-01)	Attached sheet 22
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-29500-01)	Attached sheet 23
		Inspection Procedure 6: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-34000-01)	Attached sheet 24

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2010 LANCER SPORTBACK Workshop Manual	CG4E10E1-CD (Eng) CG4F10E1-CD (Fre) CG4G10E1-CD (Ger) CG4S10E1-CD (Spa) CG4I10E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-63700-01)	Attached sheet 21
		Inspection Procedure 11: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-78200-01)	Attached sheet 22
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-73400-01)	Attached sheet 23
		Inspection Procedure 6: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-90800-01)	Attached sheet 24
2009 LANCER EVOLUTION Workshop Manual	CGEE09E1-CD (Eng) CGEF09E1-CD (Fre) CGEG09E1-CD (Ger) CGES09E1-CD (Spa) CGEI09E1-CD (Ita)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-22800-01)	Attached sheet 29
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-28700-01)	Attached sheet 30
2010 LANCER EVOLUTION Workshop Manual	CGEE10E1-CD (Eng) CGEF10E1-CD (Fre) CGEG10E1-CD (Ger) CGES10E1-CD (Spa) CGEI10E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-22800-01)	Attached sheet 29
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-28700-01)	Attached sheet 30
2011 LANCER EVOLUTION Workshop Manual	CGEE11E1-CD (Eng) CGEF11E1-CD (Fre) CGEG11E1-CD (Ger) CGES11E1-CD (Spa) CGEI11E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-232-06100-01)	Attached sheet 29
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-26800-01)	Attached sheet 30
2012 LANCER EVOLUTION Workshop Manual	CGEE12E1-CD (Eng) CGEF12E1-CD (Fre) CGEG12E1-CD (Ger) CGES12E1-CD (Spa) CGEI12E1-CD (Ita) (Russia: N/A)		
2013 LANCER EVOLUTION Workshop Manual	CCZE13E1-CD (Eng) CCZF13E1-CD (Fre) CCZG13E1-CD (Ger) CCZS13E1-CD (Spa) CCZI13E1-CD (Ita) (Russia: N/A)		
2011 ASX Workshop Manual	CGWE11E2-CD (Eng) CGWF11E2-CD (Fre) CGWG11E2-CD (Ger) CGWS11E2-CD (Spa) CGWI11E2-CD (Ita) (Russia: N/A) (South Africa: DRAFT)	TROUBLESHOOTING (Added under M172-00-070-62500-01)	Attached sheet 31
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-97200-01)	Attached sheet 32
		Inspection Procedure 6: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-15000-01)	Attached sheet 33

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2012 ASX Workshop Manual	CGWE12E1-CD (Eng) CGWF12E1-CD (Fre) CGWG12E1-CD (Ger) CGWS12E1-CD (Spa) CGWI12E1-CD (Ita) (Russia: N/A) (South Africa: DRAFT)	Inspection Procedure 6: Hunting (Repeated Acceleration and Deceleration) Occurs at the Set Vehicle Speed <4A9>. (Added under M172-00-433-02601-01)	Attached sheet 31
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-97200-01)	Attached sheet 32
		Inspection Procedure 6: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-15000-01)	Attached sheet 33
2013 ASX Workshop Manual	CGAE13E2-CD (Eng) CGAF13E2-CD (Fre) CGAG13E2-CD (Ger) CGAS13E2-CD (Spa) CGAI13E2-CD (Ita) (Russia: N/A) (South Africa: DRAFT)		
2014 ASX Workshop Manual	CGAE14E1-CD (Eng) CGAF14E1-CD (Fre) CGAG14E1-CD (Ger) CGAS14E1-CD (Spa) CGAI14E1-CD (Ita) (Russia: N/A) (South Africa: DRAFT)	Inspection Procedure 6: Hunting (Repeated Acceleration and Deceleration) Occurs at the Set Vehicle Speed <4A9>. (Added under M172-00-433-02601-01)	Attached sheet 31
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-232-33900-01)	Attached sheet 32
		Inspection Procedure 7: When the Selector Lever is Set to "N" Position, Cruise Control is not Cancelled <A/T>. (Added under M172-00-452-26500-01)	Attached sheet 33
2015 ASX Workshop Manual	CGAE15E1-CD (Eng) CGAF15E1-CD (Fre) CGAG15E1-CD (Ger) CGAS15E1-CD (Spa) CGAI15E1-CD (Ita) (Russia: N/A) (South Africa: DRAFT)		
2007 OUTLANDER Workshop Manual	CGXE07E1-CD (Eng) CGXF07E1-CD (Fre) CGXG07E1-CD (Ger) CGXS07E1-CD (Spa)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-230-73100-01)	Attached sheet 34
		INSPECTION PROCEDURE 6: When the auto-cruise control MAIN switch is turned ON, the auto-cruise control indicator lamp does not illuminate. (However, the auto-cruise control system is normal). (Added under M172-00-440-77800-01)	Attached sheet 35
2007 OUTLANDER Workshop Manual* <sup>1</sup>	N/A	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-230-77500-01)	Attached sheet 36
		Inspection Procedure 6: When the Auto-cruise Control "ON/OFF" (MAIN) Switch is Turned ON, the Auto-cruise Control Indicator Lamp does not Illuminate. (However, the Auto-cruise Control System is Normal). (Added under M172-00-440-81900-01)	Attached sheet 37

NOTE:

\*<sup>1</sup>: Russia (KD)

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2008 OUTLANDER Workshop Manual	CGXE08E2-CD (Eng) CGXF08E2-CD (Fre) CGXG08E2-CD (Ger) CGXS08E2-CD (Spa) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS <4B1, 6B3> (M172-00-230-97900-01)	Attached sheet 38
		CHECK CHART FOR TROUBLE SYMPTOMS <BSY> (M172-00-230-98000-01)	Attached sheet 40
		CHECK CHART FOR TROUBLE SYMPTOMS <4HN> (M172-00-230-99100-01)	Attached sheet 42
		Inspection Procedure 8: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-03800-01)	Attached sheet 39
		Inspection Procedure 6: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-04900-01)	Attached sheet 41
		Inspection Procedure 6: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-05000-01)	Attached sheet 43
2009 OUTLANDER Workshop Manual	CGXE09E2-CD (Eng) CGXF09E2-CD (Fre) CGXG09E2-CD (Ger) CGXS09E2-CD (Spa) CGXI09E2-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS <4B1, 6B3> (M172-00-231-58500-01)	Attached sheet 38
		CHECK CHART FOR TROUBLE SYMPTOMS <BSY> (M172-00-231-59600-01)	Attached sheet 40
		CHECK CHART FOR TROUBLE SYMPTOMS <4HN> (M172-00-231-57400-01)	Attached sheet 42
		Inspection Procedure 8: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-68500-01)	Attached sheet 39
		Inspection Procedure 6: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-69600-01)	Attached sheet 41
		Inspection Procedure 6: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-05000-01)	Attached sheet 43

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents		
2010 OUTLANDER Workshop Manual	CGXE10E1-CD (Eng) CGXF10E1-CD (Fre) CGXG10E1-CD (Ger) CGXS10E1-CD (Spa) CGXI10E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-68200-01)	Attached sheet 40		
		Inspection Procedure 6: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-83400-01)	Attached sheet 41		
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-69300-01)	Attached sheet 38		
		Inspection Procedure 8: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-84500-01)	Attached sheet 39		
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-70100-01)	Attached sheet 42		
		Inspection Procedure 7: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-86700-01)	Attached sheet 43		
2011 OUTLANDER Workshop Manual	CGXE11E1-CD (Eng) CGXF11E1-CD (Fre) CGXG11E1-CD (Ger) CGXS11E1-CD (Spa) CGXI11E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-69300-01)	Attached sheet 38		
		Inspection Procedure 8: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-84500-01)	Attached sheet 39		
		2012 OUTLANDER Workshop Manual			
				CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-232-02700-01)	Attached sheet 42
				Inspection Procedure 6: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-22400-01)	Attached sheet 43
				CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-232-01600-01)	Attached sheet 44
Inspection Procedure 6: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-21300-01)	Attached sheet 45				
2008 4007 (PEUGEOT)/C-Crosser (CITROEN) Workshop Manual	N/A	CHECK CHART FOR TROUBLE SYMPTOMS <4HN> (M172-00-231-13200-01)	Attached sheet 46		
		Inspection Procedure 6: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-17900-01)	Attached sheet 47		
		CHECK CHART FOR TROUBLE SYMPTOMS <4B12> (M172-00-231-12100-01)	Attached sheet 48		
		Inspection Procedure 8: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-18000-01)	Attached sheet 49		

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2009 4007 (PEUGEOT)/C-Crosser (CITROEN) Workshop Manual	N/A	CHECK CHART FOR TROUBLE SYMPTOMS <4HN> (M172-00-231-60400-01)	Attached sheet 46
		Inspection Procedure 7: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-71500-01)	Attached sheet 47
		CHECK CHART FOR TROUBLE SYMPTOMS <4B12> (M172-00-231-61500-01)	Attached sheet 48
		Inspection Procedure 8: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-72600-01)	Attached sheet 49
2010 4007 (PEUGEOT)/C-Crosser (CITROEN) Workshop Manual	N/A	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-71200-01)	Attached sheet 46
		Inspection Procedure 7: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-88900-01)	Attached sheet 47
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-72300-01)	Attached sheet 48
		Inspection Procedure 8: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-89000-01)	Attached sheet 49
2008 PAJERO/MONTERO Workshop Manual	CBKE08E1-CD (Eng) CBKF08E1-CD (Fre) CBKG08E1-CD (Ger) CBKS08E1-CD (Spa) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS <6G7> (M172-00-230-91300-01)	Attached sheet 50
		CHECK CHART FOR TROUBLE SYMPTOMS <4M4> (M172-00-230-92400-01)	Attached sheet 52
		Inspection Procedure 6: When the Auto-cruise Control "ON/OFF" (MAIN) Switch is Turned ON, the Auto-cruise Control Indicator Lamp does not Illuminate. (However, the Auto-cruise Control System is Normal) <6G7>. (Added under M172-00-440-96100-01)	Attached sheet 51
		Inspection Procedure 7: When the Auto-cruise Control "ON/OFF" (MAIN) Switch is Turned ON, the Auto-cruise Control Indicator Lamp does not Illuminate. (However, the auto-cruise control system is normal) <4M4>. (Added under M172-00-440-97200-01)	Attached sheet 53

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2009 PAJERO/MONTERO Workshop Manual	CBKE09E1-CD (Eng) CBKF09E1-CD (Fre) CBKG09E1-CD (Ger) CBKS09E1-CD (Spa) CBKI09E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS <6G7> (M172-00-231-33600-01)	Attached sheet 50
		CHECK CHART FOR TROUBLE SYMPTOMS <4M4> (M172-00-231-34700-01)	Attached sheet 52
		Inspection Procedure 6: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal.) (Added under M172-00-441-39500-01)	Attached sheet 51
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal.) (Added under M172-00-441-40300-01)	Attached sheet 53
2009.5 PAJERO/MONTERO Workshop Manual	CBKE09E2-CD (Eng) CBKF09E2-CD (Fre) CBKG09E2-CD (Ger) CBKS09E2-CD (Spa) CBKI09E2-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS <6G7> (M172-00-231-33600-01)	Attached sheet 50
		CHECK CHART FOR TROUBLE SYMPTOMS <4M4> (M172-00-231-34700-01)	Attached sheet 52
		Inspection Procedure 6: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal.) (Added under M172-00-441-65200-01)	Attached sheet 51
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal.) (Added under M172-00-441-66300-01)	Attached sheet 53
2010 PAJERO/MONTERO Workshop Manual	CBKE10E1-CD (Eng) CBKF10E1-CD (Fre) CBKG10E1-CD (Ger) CBKS10E1-CD (Spa) CBKI10E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS <6G7> (M172-00-232-04900-01)	Attached sheet 50
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal.) (Added under M172-00-442-24600-01)	Attached sheet 51
		CHECK CHART FOR TROUBLE SYMPTOMS <4M4> (M172-00-232-05000-01)	Attached sheet 52
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal.) (Added under M172-00-442-25700-01)	Attached sheet 53
2011 PAJERO/MONTERO Workshop Manual	CBKE11E1-CD (Eng) CBKF11E1-CD (Fre) CBKG11E1-CD (Ger) CBKS11E1-CD (Spa) CBKI11E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS <6G7> (M172-00-232-04900-01)	Attached sheet 50
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal.) (Added under M172-00-442-24600-01)	Attached sheet 51
		CHECK CHART FOR TROUBLE SYMPTOMS <4M4> (M172-00-232-05000-01)	Attached sheet 52
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal.) (Added under M172-00-442-25700-01)	Attached sheet 53
2012 PAJERO/MONTERO Workshop Manual	CBKE12E1-CD (Eng) CBKF12E1-CD (Fre) CBKG12E1-CD (Ger) CBKS12E1-CD (Spa) CBKI12E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS <6G7> (M172-00-232-04900-01)	Attached sheet 50
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal.) (Added under M172-00-442-24600-01)	Attached sheet 51
		CHECK CHART FOR TROUBLE SYMPTOMS <4M4> (M172-00-232-05000-01)	Attached sheet 52
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal.) (Added under M172-00-442-25700-01)	Attached sheet 53
2013 PAJERO/MONTERO Workshop Manual	CVWE13E1-CD (Eng) CVWF13E1-CD (Fre) CVWG13E1-CD (Ger) CVWS13E1-CD (Spa) CVWI13E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS <6G7> (M172-00-232-04900-01)	Attached sheet 50
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal.) (Added under M172-00-442-24600-01)	Attached sheet 51
		CHECK CHART FOR TROUBLE SYMPTOMS <4M4> (M172-00-232-05000-01)	Attached sheet 52
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal.) (Added under M172-00-442-25700-01)	Attached sheet 53
2015 PAJERO/MONTERO Workshop Manual	CVWE15E1-CD (Eng) CVWF15E1-CD (Fre) CVWG15E1-CD (Ger) CVWS15E1-CD (Spa) CVWI15E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS <6G7> (M172-00-232-04900-01)	Attached sheet 50
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal.) (Added under M172-00-442-24600-01)	Attached sheet 51
		CHECK CHART FOR TROUBLE SYMPTOMS <4M4> (M172-00-232-05000-01)	Attached sheet 52
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal.) (Added under M172-00-442-25700-01)	Attached sheet 53
2009 L200 Workshop Manual	CCRE09E1-CD (Eng) CCRF09E1-CD (Fre) CCRG09E1-CD (Ger) CCRS09E1-CD (Spa) CCRI09E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-21700-01)	Attached sheet 54
		Inspection Procedure 7: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal.) (Added under M172-00-441-53300-01)	Attached sheet 55

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2010 L200 Workshop Manual	CCRE10E1-CD (Eng) CCRF10E1-CD (Fre) CCRG10E1-CD (Ger) CCRS10E1-CD (Spa) CCRI10E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-93800-01)	Attached sheet 54
		Inspection Procedure 7: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-12700-01)	Attached sheet 55
2011 L200 Workshop Manual	CCRE11E1-CD (Eng) CCRF11E1-CD (Fre) CCRG11E1-CD (Ger) CCRS11E1-CD (Spa) CCRI11E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-93800-01)	Attached sheet 54
		Inspection Procedure 7: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-20200-01)	Attached sheet 55
2012 L200 Workshop Manual	CCRE12E1-CD (Eng) CCRF12E1-CD (Fre) CCRG12E1-CD (Ger) CCRS12E1-CD (Spa) CCRI12E1-CD (Ita) (Russia: N/A)		
2013 L200 Workshop Manual	CKTE13E1-CD (Eng) CKTF13E1-CD (Fre) CKTG13E1-CD (Ger) CKTS13E1-CD (Spa) CKTI13E1-CD (Ita) (Russia: N/A)		
2014 L200 Workshop Manual	CKTE14E1-CD (Eng) CKTF14E1-CD (Fre) CKTG14E1-CD (Ger) CKTS14E1-CD (Spa) CKTI14E1-CD (Ita) (Russia: N/A)		
2015 L200 Workshop Manual	CKTE15E1-CD (Eng) CKTF15E1-CD (Fre) CKTG15E1-CD (Ger) CKTS15E1-CD (Spa) CKTI15E1-CD (Ita) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-93800-01)	Attached sheet 54
		Inspection Procedure 7: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-53600-01)	Attached sheet 55

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Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2008 LANCER/LANCER EX Workshop Manual	PWME0701R (Eng) PWMS0702R (Spa)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-230-85000-01)	Attached sheet 56
2009 LANCER/LANCER EX Workshop Manual	PWME0802R (Eng) PWMS0803R (Spa) (South Africa, Argentina: DRAFT)	Inspection Procedure 8: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-440-89700-01)	Attached sheet 57
2010 LANCER/LANCER EX Workshop Manual	PWME0901R (Eng) PWMS0902R (Spa) (South Africa, Argentina: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-67100-01)	Attached sheet 56
		Inspection Procedure 8: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-82300-01)	Attached sheet 57
2009 LANCER EVOLUTION Workshop Manual	PWSE0801R (China: DRAFT) PWSE0801R-A	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-22800-01)	Attached sheet 56
2010 LANCER EVOLUTION Workshop Manual	PWSE0905R (China: DRAFT)	Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-28700-01)	Attached sheet 57

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2011 LANCER EVOLUTION Workshop Manual	PWSE1008R	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-232-09400-01)	Attached sheet 56
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-28000-01)	Attached sheet 57
2011 ASX/OUTLANDER SPORT Workshop Manual	PWPE1006R (Eng) PWPS1007R (Spa) (MMAL, NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-99400-01)	Attached sheet 58
		Inspection Procedure 8: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-17200-01)	Attached sheet 59
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-97200-01)	Attached sheet 60
		Inspection Procedure 6: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-18300-01)	Attached sheet 61
2007 OUTLANDER Workshop Manual	PWRE0607R (China, South Africa: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-230-78600-01)	Attached sheet 62
		Inspection Procedure 6: When the Auto-cruise Control "ON/OFF" (MAIN) Switch is Turned ON, the Auto-cruise Control Indicator Lamp does not Illuminate. (However, the Auto-cruise Control System is Normal). (Added under M172-00-440-82000-01)	Attached sheet 63
2008 OUTLANDER Workshop Manual	PWRE0707R (Eng) PWRS0708R (Spa) (Argentina, South Africa: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-230-93500-01)	Attached sheet 62
		Inspection Procedure 6: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-440-98300-01)	Attached sheet 63
2008 OUTLANDER Workshop Manual	PWRE0712R	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-18700-01)	Attached sheet 62
		Inspection Procedure 6: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-23200-01)	Attached sheet 63
2009 OUTLANDER Workshop Manual	PWRE0810R (Eng) PWRS0811R (Spa) (China, Argentina, South Africa: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-06800-01)	Attached sheet 62
		Inspection Procedure 8: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-11300-01)	Attached sheet 63
2010 OUTLANDER Workshop Manual	PWRE0906R (Eng) PWRS0907R (Spa) (China, Argentina, South Africa: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-06800-01)	Attached sheet 62
		Inspection Procedure 8: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-81200-01)	Attached sheet 63

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2007 DELICA D:5 Workshop Manual 2009 DELICA D:5 Workshop Manual	PWRE0711R	TROUBLE SYMPTOM CHART (M172-00-230-83800-01)	Attached sheet 64
	PWRE0804R	Inspection Procedure 6: The cruise control indicator lamp does not illuminate when the "ON/OFF" (main) switch of the cruise control switch is turned ON. (However, the cruise control system is normal). (Added under M172-00-440-87500-01)	Attached sheet 65
2007 PAJERO/MONTERO Workshop Manual	PWJE0605R (Eng) PWJS0606R (Spa) (South Africa: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS <6G7> (M172-00-230-79700-01)	Attached sheet 50
		CHECK CHART FOR TROUBLE SYMPTOMS <4M41> (M172-00-230-92400-01)	Attached sheet 52
		Inspection Procedure 7: When the Auto-cruise Control "ON/OFF" (MAIN) Switch is Turned ON, the Auto-cruise Control Indicator Lamp does not Illuminate (However, the Auto-cruise Control System is Normal). (Added under M172-00-440-96100-01)	Attached sheet 51
		Inspection Procedure 7: When the Auto-cruise Control "ON/OFF" (MAIN) Switch is Turned ON, the Auto-cruise Control Indicator Lamp does not Illuminate. (However, the auto-cruise control system is normal). (Added under M172-00-440-84200-01)	Attached sheet 53
2008 PAJERO/MONTERO Workshop Manual  2009 PAJERO/MONTERO Workshop Manual	PWJE0709R (Eng) PWJS0710R (Spa) (South Africa: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS <6G7> (M172-00-230-94600-01)	Attached sheet 50
		CHECK CHART FOR TROUBLE SYMPTOMS <4M41> (M172-00-230-95700-01)	Attached sheet 52
	PWJE0812R (Eng) PWJS0813R (Spa) (China, Mexico, South Africa: DRAFT)	Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-440-99400-01)	Attached sheet 51
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-00500-01)	Attached sheet 53
2010 PAJERO/MONTERO Workshop Manual	PWJE0908R (Eng) PWJS0909R (Spa) (China, Mexico, Argentina, South Africa: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-81900-01)	Attached sheet 50
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-99700-01)	Attached sheet 51
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-82000-01)	Attached sheet 52
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-00800-01)	Attached sheet 53

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2009 NATIVA/PAJERO SPORT/ MONTERO SPORT Workshop Manual	PWJE0808R-2 (Eng) PWJS0809R-2 (Spa) (Thailand, Argentina, South Africa, Mexico, MMAL, NZ: DRAFT) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS <4M4, 4D5> (M172-00-231-55200-01)	Attached sheet 66
		CHECK CHART FOR TROUBLE SYMPTOMS <6G7> (M172-00-231-56300-01)	Attached sheet 68
		Inspection Procedure 8: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-63000-01)	Attached sheet 67
		Inspection Procedure 7: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-64100-01)	Attached sheet 69
2010 NATIVA/PAJERO SPORT/ MONTERO SPORT Workshop Manual	PWJE0910R (Eng) PWJS0911R (Spa) (Thailand, Argentina, South Africa, Mexico: DRAFT) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-88600-01)	Attached sheet 66
		Inspection Procedure 8: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-06400-01)	Attached sheet 67
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-89700-01)	Attached sheet 68
		Inspection Procedure 10: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal) <6B3>. (Added under M172-00-442-08600-01)	Attached sheet 69
2011 NATIVA/PAJERO SPORT/ MONTERO SPORT Workshop Manual	PWJE1004R (Eng) PWJS1005R (Spa) (Argentina, South Africa, Mexico: DRAFT) (Russia: N/A)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-98300-01)	Attached sheet 66
		Inspection Procedure 8: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-16100-01)	Attached sheet 67
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-89700-01)	Attached sheet 68
		Inspection Procedure 10: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal) <6B3>. (Added under M172-00-442-08600-01)	Attached sheet 69

**MMAL/NZ(Pub No:DRAFT)**

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2008 LANCER Workshop Manual	MR936470 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-02400-01)	Attached sheet 56
		Inspection Procedure 8: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-06100-01)	Attached sheet 57
2009 LANCER Workshop Manual	MR936503 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-30300-01)	Attached sheet 56
		Inspection Procedure 11: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-35100-01)	Attached sheet 57
2010 LANCER Workshop Manual	MR936920 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-83100-01)	Attached sheet 56
		Inspection Procedure 12: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-01900-01)	Attached sheet 57
2009 LANCER SPORTBACK Workshop Manual	MR936570 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-42200-01)	Attached sheet 56
		Inspection Procedure 11: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-50000-01)	Attached sheet 57
2010 LANCER SPORTBACK Workshop Manual	MR936922 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-84200-01)	Attached sheet 56
		Inspection Procedure 12: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-02000-01)	Attached sheet 57
2009 LANCER EVOLUTION Workshop Manual	MR936442 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-19800-01)	Attached sheet 56
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-25400-01)	Attached sheet 57
2010 LANCER EVOLUTION Workshop Manual	MR936895 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-22800-01)	Attached sheet 56
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-28700-01)	Attached sheet 57
2011 LANCER EVOLUTION Workshop Manual	AU900049 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-232-09400-01)	Attached sheet 56
		Inspection Procedure 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-28000-01)	Attached sheet 57

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2007 OUTLANDER Workshop Manual	MR936083 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-230-74200-01)	Attached sheet 56
		Inspection Procedure 6: When the Auto-cruise Control "ON/OFF" (MAIN) Switch is Turned ON, the Auto-cruise Control Indicator Lamp does not Illuminate. (However, the Auto-cruise Control System is Normal). (Added under M172-00-440-78900-01)	Attached sheet 57
2008 OUTLANDER Workshop Manual	MR936474 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-06800-01)	Attached sheet 56
2009 OUTLANDER Workshop Manual	MR936477 (NZ: DRAFT)	Inspection Procedure 8: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-11300-01)	Attached sheet 57
2010 OUTLANDER Workshop Manual	MR936925 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-06800-01)	Attached sheet 56
		Inspection Procedure 8: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-81200-01)	Attached sheet 57
2007 PAJERO Workshop Manual	MR936084 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS <6G7> (M172-00-230-75300-01)	Attached sheet 50
		CHECK CHART FOR TROUBLE SYMPTOMS <4M41> (M172-00-230-82700-01)	Attached sheet 52
		Inspection Procedure 7: When the Auto-cruise Control "ON/OFF" (MAIN) Switch is Turned ON, the Auto-cruise Control Indicator Lamp does not Illuminate. (However, the Auto-cruise Control System is Normal). (Added under M172-00-440-79000-01)	Attached sheet 51
		INSPECTION PROCEDURE 7: When the Auto-cruise Control "ON/OFF" (MAIN) Switch is Turned ON, the Auto-cruise Control Indicator Lamp does not Illuminate. (However, the auto-cruise control system is normal). (Added under M172-00-440-86400-01)	Attached sheet 53
2008 PAJERO Workshop Manual	MR936455 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS <6G7> (M172-00-231-04600-01)	Attached sheet 50
		CHECK CHART FOR TROUBLE SYMPTOMS <4M41> (M172-00-231-05700-01)	Attached sheet 52
		Inspection Procedure 7: When the Cruise Control "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-09400-01)	Attached sheet 51
		Inspection Procedure 7: When the Cruise Control "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-10200-01)	Attached sheet 53

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2009 PAJERO Workshop Manual  2010 PAJERO Workshop Manual	MR936637 (NZ: DRAFT)  MR936976 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS <6G7> (M172-00-231-38100-01)	Attached sheet 50
		CHECK CHART FOR TROUBLE SYMPTOMS <4M41> (M172-00-231-39200-01)	Attached sheet 52
		INSPECTION PROCEDURE 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-43600-01)	Attached sheet 51
		INSPECTION PROCEDURE 7: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-44700-01)	Attached sheet 53
2008 TRITON Workshop Manual	MR936232 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-20600-01)	Attached sheet 66
		Inspection Procedure 7: When the Cruise Control "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-26500-01)	Attached sheet 67
2009 TRITON Workshop Manual	MR936476 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS<6G7> (M172-00-231-50700-01)	Attached sheet 50
		CHECK CHART FOR TROUBLE SYMPTOMS<4M4, 4D5> (M172-00-231-49900-01)	Attached sheet 66
		Inspection Procedure 7: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-57700-01)	Attached sheet 51
		Inspection Procedure 7: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-58800-01)	Attached sheet 67
2010 TRITON Workshop Manual	MR936949 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-92700-01)	Attached sheet 66
		Inspection Procedure 7: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-11600-01)	Attached sheet 67

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2010 NATIVA/PAJERO SPORT/ MONTERO SPORT Workshop Manual	MR936972 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-88600-01)	Attached sheet 66
		Inspection Procedure 8: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-06400-01)	Attached sheet 67
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-89700-01)	Attached sheet 68
		Inspection Procedure 10: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal) <6B3>. (Added under M172-00-442-08600-01)	Attached sheet 69
2011 NATIVA/PAJERO SPORT/ MONTERO SPORT Workshop Manual	AU900055 (NZ: DRAFT)	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-98300-01)	Attached sheet 66
		Inspection Procedure 8: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-16100-01)	Attached sheet 67
		CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-89700-01)	Attached sheet 68
		Inspection Procedure 10: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal) <6B3>. (Added under M172-00-442-08600-01)	Attached sheet 69

**THAILAND(Pub No:DRAFT)**

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2009 LANCER EX Workshop Manual	DRAFT	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-85300-01)	Attached sheet 56
		Inspection Procedure 6: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-03100-01)	Attached sheet 57

**CHINA(Pub No:DRAFT)**

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2008 PAJERO Workshop Manual	DRAFT	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-16500-01)	Attached sheet 50
		Inspection Procedure 6: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-21000-01)	Attached sheet 51
2009 LANCER EX Workshop Manual	DRAFT	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-35800-01)	Attached sheet 56
		Inspection Procedure 6: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-41400-01)	Attached sheet 57
2009 OUTLANDER Workshop Manual	DRAFT	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-231-06800-01)	Attached sheet 56
		Inspection Procedure 8: When "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-441-11300-01)	Attached sheet 57

**BRAZIL(Pub No:DRAFT)**

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2010 L200 TRITON Workshop Manual	DRAFT	CHECK CHART FOR TROUBLE SYMPTOMS (M172-00-232-15700-01)	Attached sheet 70
		Inspection Procedure 6: When the "ON/OFF" Switch is Turned ON, the Cruise Control Indicator Lamp does not Illuminate (However, the Cruise Control System is Normal). (Added under M172-00-442-35400-01)	Attached sheet 71

## SYMPTOM CHART

M1172002302038

Symptom		Inspection procedure number	Reference page
Communication with scan tool is not possible.	Communication with the ECM only is impossible. <2.0L ENGINE Non-turbo>	–	GROUP 13A, MFI Diagnosis, Symptom Procedures – Inspection Procedure 1
	Communication with the ECM only is impossible. <2.0L ENGINE Turbo>	–	GROUP 13B, MFI Diagnosis, Symptom Procedures – Inspection Procedure 1
	Communication with the ECM only is impossible. <2.4L ENGINE>	–	GROUP 13C, MFI Diagnosis, Symptom Procedures – Inspection Procedure 1
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled <M/T.>		2	
When the selector lever is moved to "N" position, cruise control is not cancelled <CVT.>		3	
When the shift lever is moved to "N" position, cruise control is not cancelled <TC-SST.>		4	
When the "CANCEL" switch is pressed, cruise control is not cancelled.		5	
Cruise control cannot be set (No response "COAST/SET" switch and "ACC/RES" switch is pressed) <2.0L ENGINE Non-turbo, 2.4L ENGINE.>		6	
Cruise control cannot be set (No response "COAST/SET" switch and "ACC/RES" switch is pressed) <2.0L ENGINE Turbo.>		7	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <M/T.>		8	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <CVT.>		9	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <TC-SST.>		10	
When the "ON/OFF" switch is turned ON, "CRUISE" indicator light does not illuminate (However, cruise control system is normal.)		11	
When the cruise control switch is operated, the system is not turned on.		12	

<Added>

**Inspection Procedure 12: When The Cruise Control Switch is Operated, The System is not Turned ON.****CIRCUIT OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The ECM detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pressed: 0 – 0.5 volt
- When the "CANCEL" switch is pressed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pressed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pressed: 3.5 – 4.2 volts

**COMMENT**

The scan tool (M.U.T.-III) can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**TROUBLESHOOTING HINTS (The most likely causes for this case:)**

- Malfunction of the cruise control switches.
- Malfunction of the ECM.

**DIAGNOSIS****Required Special Tools:**

- MB991958: Scan Tool (M.U.T.-III Sub Assembly)
  - MB991824: V.C.I.
  - MB991827: M.U.T.-III USB Cable
  - MB991910: M.U.T.-III Main Harness A

**STEP 1. Using scan tool MB991958, check for MFI system DTC.****⚠ CAUTION**

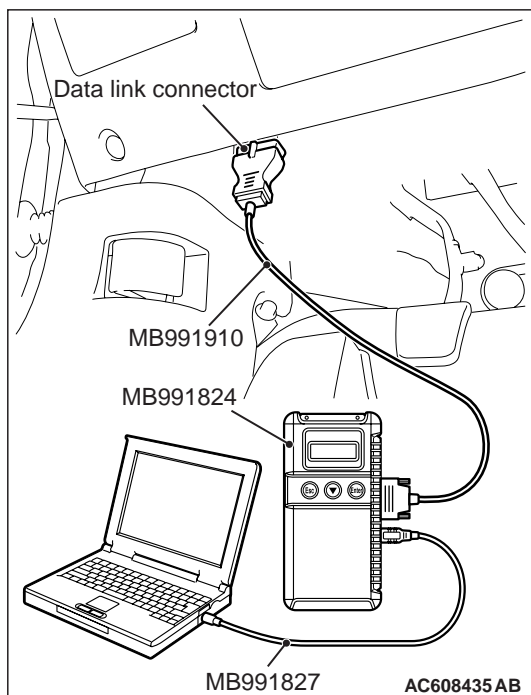
To prevent damage to scan tool MB991958, always turn the ignition switch to the "LOCK" (OFF) position before connecting or disconnecting scan tool MB991958.

- (1) Connect scan tool MB991958 to the data link connector.
- (2) Turn the ignition switch to the "ON" position.
- (3) Check for MFI system DTC (Refer to GROUP 13A, MFI Diagnosis – Diagnostic Function .) <2.0L ENGINE Non-turbo>, (Refer to GROUP 13B, MFI Diagnosis – Diagnostic Function .) <2.0L ENGINE Turbo> or (Refer to GROUP 13C, MFI Diagnosis – Diagnostic Function .) <2.4L ENGINE>

**Q: Is any DTC set?**

**YES :** Repair the MFI system (Refer to GROUP 13A, MFI Diagnosis – Diagnostic Trouble Code Chart .) <2.0L ENGINE Non-turbo>, (Refer to GROUP 13B, MFI Diagnosis – Diagnostic Trouble Code Chart .) <2.0L ENGINE Turbo> or (Refer to GROUP 13C, MFI Diagnosis – Diagnostic Trouble Code Chart .) <2.4L ENGINE>

**NO :** Go to Step 2.



**STEP 2. Using scan tool MB991958, check data list item 75: Cancel switch, item 86: Main switch, item 91: Resume switch and item 92: Set switch.**

(1) Connect scan tool MB991958 to the data link connector.

(2) Turn the ignition switch to the "ON" position.

(3) Set scan tool MB991958 to data reading mode for cruise control system.

- Item 75: Cancel switch.
  - When "CANCEL" switch is pressed, the display on scan tool MB991958 should be "ON."
  - When "CANCEL" switch is released, the display on scan tool MB991958 should be "OFF."
- Item 86: Main switch.
  - When the "ON/OFF" switch is pressed, the display on scan tool MB991958 should be "ON."
  - When the "ON/OFF" switch is pressed again, the display on scan tool MB991958 should be "OFF."
- Item 91: Resume switch.
  - When the "ACC/RES" switch is pressed, the display on scan tool MB991958 should be "ON."
  - When the "ACC/RES" switch is released, the display on scan tool MB991958 should be "OFF."
- Item 92: Set switch.
  - When the "COAST/SET" switch is pressed, the display on scan tool MB991958 should be "ON."
  - When the "COAST/SET" switch is released, the display on scan tool MB991958 should be "OFF."

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.****Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.

**STEP 4. Check the symptom.****Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00, How to Use Troubleshooting/ Inspection Service Points – How to Cope with Intermittent Malfunction .)

**NO :** Replace the ECM [Refer to GROUP 13A, Engine Control Module (ECM) .] <2.0L ENGINE Non-turbo>, [Refer to GROUP 13B, Engine Control Module (ECM) .] <2.0L ENGINE Turbo> or [Refer to GROUP 13C, Engine Control Module (ECM) .] <2.4L ENGINE>

## SYMPTOM CHART

M1172002301808

Symptom		Inspection procedure number	Reference page
Communication with scan tool is not possible	Communication with the ECM only is impossible	—	GROUP 13A, MFI Diagnosis, Symptom Procedures, Inspection Procedure 1
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled <M/T.>		2	
When the shift lever is moved to "N" position, cruise control is not cancelled <TC-SST.>		3	
When the "CANCEL" switch is pressed, cruise control is not cancelled.		4	
Cruise control cannot be set (No response "COAST/SET" switch and "ACC/RES" switch is pressed.)		5	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed.		6	
When the "ON/OFF" switch is turned ON, "CRUISE" indicator light does not illuminate (However, cruise control system is normal.)		7	
When the cruise control switch is operated, the system is not turned on.		8	

<Added>

**Inspection Procedure 8: When The Cruise Control Switch is Operated, The System is not Turned ON.****CIRCUIT OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The ECM detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pressed: 0 – 0.5 volt
- When the "CANCEL" switch is pressed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pressed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pressed: 3.5 – 4.2 volts

**COMMENT**

The scan tool (M.U.T.-III) can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**TROUBLESHOOTING HINTS (The most likely causes for this case:)**

- Malfunction of the cruise control switches.
- Malfunction of the ECM.

**DIAGNOSIS****Required Special Tools:**

- MB991958: Scan Tool (M.U.T.-III Sub Assembly)
  - MB991824: V.C.I.
  - MB991827: M.U.T.-III USB Cable
  - MB991910: M.U.T.-III Main Harness A

**STEP 1. Using scan tool MB991958, check for MFI system DTC.****⚠ CAUTION**

To prevent damage to scan tool MB991958, always turn the ignition switch to the "LOCK" (OFF) position before connecting or disconnecting scan tool MB991958.

(1) Connect scan tool MB991958 to the data link connector.

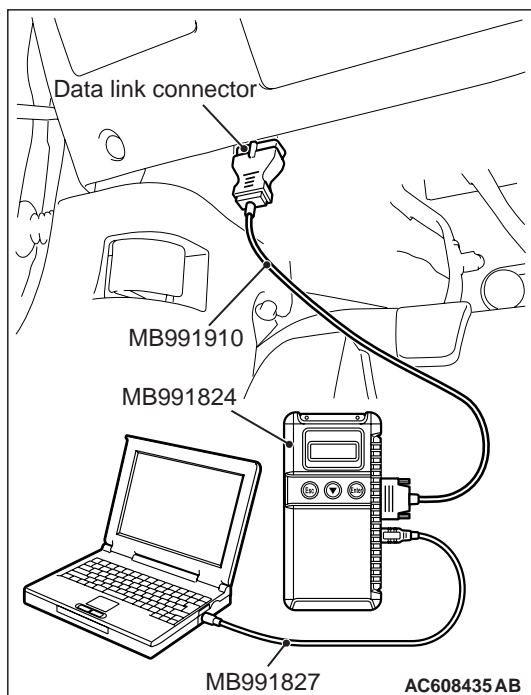
(2) Turn the ignition switch to the "ON" position.

(3) Check for MFI system DTC (Refer to GROUP 13A, MFI Diagnosis – Diagnostic Function .)

**Q: Is any DTC set?**

**YES :** Repair the MFI system (Refer to GROUP 13A, MFI Diagnosis – Diagnostic Trouble Code Chart .)

**NO :** Go to Step 2.



---

**STEP 2. Using scan tool MB991958, check data list item 75: Cancel switch, item 86: Main switch, item 91: Resume switch and item 92: Set switch.**

(1) Connect scan tool MB991958 to the data link connector.

(2) Turn the ignition switch to the "ON" position.

(3) Set scan tool MB991958 to data reading mode for cruise control system.

- Item 75: Cancel switch.
  - When "CANCEL" switch is pressed, the display on scan tool MB991958 should be "ON."
  - When "CANCEL" switch is released, the display on scan tool MB991958 should be "OFF."
- Item 86: Main switch.
  - When the "ON/OFF" switch is pressed, the display on scan tool MB991958 should be "ON."
  - When the "ON/OFF" switch is pressed again, the display on scan tool MB991958 should be "OFF."
- Item 91: Resume switch.
  - When the "ACC/RES" switch is pressed, the display on scan tool MB991958 should be "ON."
  - When the "ACC/RES" switch is released, the display on scan tool MB991958 should be "OFF."
- Item 92: Set switch.
  - When the "COAST/SET" switch is pressed, the display on scan tool MB991958 should be "ON."
  - When the "COAST/SET" switch is released, the display on scan tool MB991958 should be "OFF."

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

---

**STEP 3. Check the cruise control switches.****Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.

---

**STEP 4. Check the symptom.****Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00, How to Use Troubleshooting/ Inspection Service Points – How to Cope with Intermittent Malfunction .)

**NO :** Replace the ECM [Refer to GROUP 13A, Engine Control Module (ECM) .]

## SYMPTOM CHART

M1172002302351

Symptom	Inspection procedure number	Reference page
Scan tool communication with ECM is not possible.	-	GROUP 13A, Symptom Procedures – Inspection Procedure 1 .
When the brake pedal is depressed, cruise control is not cancelled.	1	
When the clutch pedal is depressed, cruise control is not cancelled <M/T.>	2	
When the selector lever is moved to "N" position, cruise control is not cancelled <CVT.>	3	
When the "CANCEL" switch is pressed, cruise control is not cancelled.	4	
Cruise control cannot be set (No response "SET-" switch and "RES+" switch is pressed.)	5	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <M/T>.	6	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <CVT>.	7	
When "CRUISE ON/OFF" switch is turned "ON", "CRUISE" indicator light inside combination meter does not illuminate (However, cruise control system is normal.)	8	
When the cruise control switch is operated, the system is not turned on.	9	

<Added>

**Inspection Procedure 9: When The Cruise Control Switch is Operated, The System is not Turned ON.****CIRCUIT OPERATION**

This circuit judges the signals of each switch ("CRUISE ON/OFF", "CANCEL", "SET-" and "RES+") of the cruise control switch. The ECM detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "CRUISE ON/OFF" switch is pressed: 0 – 0.5 volt
- When the "CANCEL" switch is pressed: 1.0 – 1.8 volts
- When the "SET-" switch is pressed: 2.3 – 3.0 volts
- When the "RES+" switch is pressed: 3.5 – 4.2 volts

**COMMENT**

The scan tool (M.U.T.-III) can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**TROUBLESHOOTING HINTS (The most likely causes for this case:)**

- Malfunction of the cruise control switches.
- Malfunction of the ECM.

**DIAGNOSTIC PROCEDURE**

**STEP 1. Using scan tool MB991958, check for MFI system DTC.**

**⚠ CAUTION**

**To prevent damage to scan tool MB991958, always turn the ignition switch to the "LOCK" (OFF) position before connecting or disconnecting scan tool MB991958.**

(1) Connect scan tool MB991958 to the data link connector.

(2) Turn the ignition switch to the "ON" position.

(3) Check for MFI system DTC (Refer to GROUP 13A, MFI Diagnosis – Diagnostic Function .)

**Q: Is any DTC set?**

**YES :** Repair the MFI system (Refer to GROUP 13A, MFI Diagnosis – Diagnostic Trouble Code Chart .)

**NO :** Go to Step 2.

---

**STEP 2. Using scan tool MB991958, check data list item 75: Cancel switch, item 86: Main switch, item 91: Resume switch and item 92: Set switch.**

- (1) Connect scan tool MB991958 to the data link connector.
- (2) Turn the ignition switch to the "ON" position.
- (3) Set scan tool MB991958 to data reading mode for cruise control system.
  - Item 75: Cancel switch.
    - When "CANCEL" switch is pressed, the display on scan tool MB991958 should be "ON".
    - When "CANCEL" switch is released, the display on scan tool MB991958 should be "OFF".
  - Item 86: Main switch.
    - When "CRUISE ON/OFF" switch is pressed, the display on scan tool MB991958 should be "ON".
    - When "CRUISE ON/OFF" switch is pressed again, the display on scan tool MB991958 should be "OFF".
  - Item 91: Resume switch.
    - When "RES+" switch is pressed, the display on scan tool MB991958 should be "ON".
    - When "RES+" switch is released, the display on scan tool MB991958 should be "OFF".
  - Item 92: Set switch.
    - When "SET-" switch is pressed, the display on scan tool MB991958 should be "ON".
    - When "SET-" switch is released, the display on scan tool MB991958 should be "OFF".

**Q: Is the check result normal?****YES :** Go to Step 4.**NO :** Go to Step 3.

---

**STEP 3. Check the cruise control switches.****Q: Is the check result normal?****YES :** Go to Step 4.**NO :** Replace the cruise control switches.

---

**STEP 4. Check the symptom.****Q: Is the system turned on by operating the cruise control switch?****YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00, How to Use Troubleshooting/ Inspection Service Points – How to Cope with Intermittent Malfunction .)**NO :** Replace the ECM [Refer to GROUP 13A, Engine Control Module (ECM) .]

## SYMPTOM CHART

M1172002302113

Symptom	Inspection procedure number	Reference page
Scan tool communication with ECM Is not possible <2.4L Engine>.	-	GROUP 13A, Symptom Procedures – Inspection Procedure 1 .
Scan tool communication with ECM Is not possible <3.0L Engine>.	-	GROUP 13B, Symptom Procedures – Inspection Procedure 1 .
When the brake pedal is depressed, cruise control is not cancelled.	1	
When the selector lever is moved to "N" position, cruise control is not cancelled.	2	
When the "CANCEL" switch is pressed, cruise control is not cancelled.	3	
Cruise control cannot be set (No response "COAST/SET" switch and "ACC/RES" switch is pressed.)	4	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed.	5	
When "ON/OFF" switch is turned "ON", "CRUISE" indicator light inside combination meter does not illuminate (However, cruise control system is normal).	6	
When the cruise control switch is operated, the system is not turned on.	7	

<Added>

**Inspection Procedure 7: When The Cruise Control Switch is Operated, The System is not Turned ON.****CIRCUIT OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The ECM detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pressed: 0 – 0.5 volt
- When the "CANCEL" switch is pressed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pressed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pressed: 3.5 – 4.2 volts

**COMMENT**

The scan tool (M.U.T.-III) can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**TROUBLESHOOTING HINTS (The most likely causes for this case:)**

- Malfunction of the cruise control switches.
- Malfunction of the ECM.

**DIAGNOSIS****Required Special Tools:**

- MB991958: Scan Tool (M.U.T.-III Sub Assembly)
  - MB991824: V.C.I.
  - MB991827: M.U.T.-III USB Cable
  - MB991910: M.U.T.-III Main Harness A

**STEP 1. Using scan tool MB991958, check for MFI system DTC.****⚠ CAUTION**

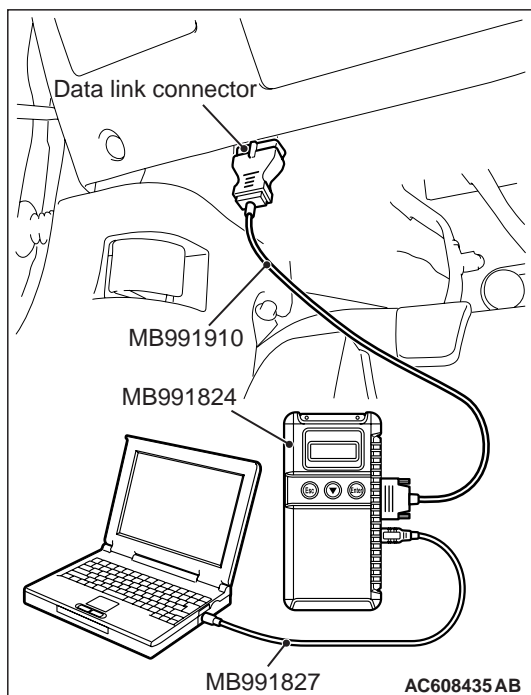
To prevent damage to scan tool MB991958, always turn the ignition switch to the "LOCK" (OFF) position before connecting or disconnecting scan tool MB991958.

- (1) Connect scan tool MB991958 to the data link connector.
- (2) Turn the ignition switch to the "ON" position.
- (3) Check for MFI system DTC (Refer to GROUP 13A, MFI Diagnosis – Diagnostic Function .) <2.4L ENGINE> or (Refer to GROUP 13B, MFI Diagnosis – Diagnostic Function .) <3.0L ENGINE>

**Q: Is any DTC set?**

**YES :** Repair the MFI system (Refer to GROUP 13A, MFI Diagnosis – Diagnostic Trouble Code Chart .) <2.4L ENGINE> or (Refer to GROUP 13B, MFI Diagnosis – Diagnostic Trouble Code Chart .) <3.0L ENGINE>

**NO :** Go to Step 2.



**STEP 2. Using scan tool MB991958, check data list item 75: Cancel switch, item 86: Main switch, item 91: Resume switch and item 92: Set switch.**

(1) Connect scan tool MB991958 to the data link connector.

(2) Turn the ignition switch to the "ON" position.

(3) Set scan tool MB991958 to data reading mode for cruise control system.

- Item 75: Cancel switch.
  - When "CANCEL" switch is pressed, the display on scan tool MB991958 should be "ON."
  - When "CANCEL" switch is released, the display on scan tool MB991958 should be "OFF."
- Item 86: Main switch.
  - When the "ON/OFF" switch is pressed, the display on scan tool MB991958 should be "ON."
  - When the "ON/OFF" switch is pressed again, the display on scan tool MB991958 should be "OFF."
- Item 91: Resume switch.
  - When the "ACC/RES" switch is pressed, the display on scan tool MB991958 should be "ON."
  - When the "ACC/RES" switch is released, the display on scan tool MB991958 should be "OFF."
- Item 92: Set switch.
  - When the "COAST/SET" switch is pressed, the display on scan tool MB991958 should be "ON."
  - When the "COAST/SET" switch is released, the display on scan tool MB991958 should be "OFF."

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.****Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.

**STEP 4. Check the symptom.****Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00, How to Use Troubleshooting/ Inspection Service Points – How to Cope with Intermittent Malfunction .)

**NO :** Replace the ECM [Refer to GROUP 13A, Engine Control Module (ECM) .] <2.4L ENGINE> or [Refer to GROUP 13B, Engine Control Module (ECM) .] <3.0L ENGINE>

## CHECK CHART FOR TROUBLE SYMPTOMS

M1172002301659

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with the engine-ECU only is impossible	–	GROUP 13B – Troubleshooting, Symptom Procedures, Inspection Procedure 1 <4B10, 4B11-Non-turbo>.
			GROUP 13E – Troubleshooting, Symptom Procedures, Inspection Procedure 1 <4B11-Turbo>.
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled <M/T>.		2	
When the selector lever is set to "N" position, cruise control is not cancelled <CVT>.		3	
When the shift lever is set to "N" position, cruise control is not cancelled <TC-SST>.		4	
When the "CANCEL" switch is pushed, cruise control is not cancelled.		5	
Cruise control cannot be set (No response when the "COAST/SET" switch and the "ACC/RES" switch is pushed) <4B10, 4B11-Non-turbo>.		6	
Cruise control cannot be set (No response when the "COAST/SET" switch and the "ACC/RES" switch is pushed) <4B11-Turbo>.		7	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <M/T>.		8	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <CVT>.		9	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <TC-SST>.		10	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate (However, the cruise control system is normal).		11	
When the cruise control switch is operated, the system is not turned on.		12	

<Added>

**Inspection Procedure 12: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pushed: 0 – 0.5 volt
- When the "CANCEL" switch is pushed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pushed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pushed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- The "ON/OFF" switch is not pushed securely.
- The "CANCEL" switch is not pushed securely.
- The "COAST/SET" switch is not pushed securely.
- The "ACC/RES" switch is not pushed securely.

**DIAGNOSIS PROCEDURE****STEP 1. Check the MPI system diagnosis code.**

Using M.U.T.-III, perform MPI system diagnosis code (Refer to GROUP 13B – Troubleshooting, Diagnosis Function <4B10, 4B11-Non-turbo> or Refer to GROUP 13E – Troubleshooting, Diagnosis Function <4B11-Turbo>).

**Q: Is any diagnosis code set?**

**YES :** Repair the MPI system (Refer to GROUP 13B – Troubleshooting, Inspection Chart for Diagnosis Code <4B10, 4B11-Non-turbo> or Refer to GROUP 13E – Troubleshooting, Diagnosis Function <4B11-Turbo>).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 75: "CANCEL" switch
- Item 86: "ON/OFF" switch
- Item 91: "ACC/RES" switch
- Item 92: "COAST/SET" switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

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**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches  
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**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13B – Engine-ECU <4B10, 4B11-Non-turbo>, GROUP 13E – Engine-ECU <4B11-Turbo>).

**ENGINE AND EMISSION CONTROL  
CRUISE CONTROL <BWC>**

Attached sheet 23

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with the engine-ECU only is impossible	–	GROUP 13F – Troubleshooting, Symptom Procedures, Inspection Procedure 1 .
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled.		2	
When the "CANCEL" switch is pressed, cruise control is not cancelled.		3	
Cruise control cannot be set (No response when the "COAST/SET" switch and the "ACC/RES" switch is pressed).		4	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed.		5	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate. (However, the cruise control system is normal).		6	
When the cruise control switch is operated, the system is not turned on.		7	

<Added>

**Inspection Procedure 7: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pressed: 0 – 0.5 volt
- When the "CANCEL" switch is pressed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pressed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pressed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- The engine-ECU is not working properly.
- The cruise control switch is not working properly.

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**DIAGNOSIS PROCEDURE****STEP 1. Check the diesel fuel system diagnosis code.**

Using M.U.T.-III, perform diesel fuel system diagnosis code (Refer to GROUP 13F – Diagnosis Function ).

**Q: Is any diagnosis code set?**

**YES :** Repair the diesel fuel system (Refer to GROUP 13F – Troubleshooting, Inspection Chart for Diagnosis Trouble Code ).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 285: Cruise control switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

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**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.

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**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13F – Engine-ECU ).

## CHECK CHART FOR TROUBLE SYMPTOMS

M1172002302168

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with the engine-ECU only is impossible	–	GROUP 13B – Troubleshooting, Symptom Procedures, Inspection Procedure 1 <4B1>.
			GROUP 13F – Troubleshooting, Symptom Procedures, Inspection Procedure 1 <4J1>.
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled <M/T>.		2	
When the selector lever is set to "N" position, cruise control is not cancelled <CVT>.		3	
When the "CANCEL" switch is pushed, cruise control is not cancelled.		4	
Cruise control cannot be set (No response when the "COAST/SET" switch and the "ACC/RES" switch is pushed).		5	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <M/T>.		6	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <CVT>.		7	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate (However, the cruise control system is normal).		8	
When the cruise control switch is operated, the system is not turned on.		9	

<Added>

**Inspection Procedure 9: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pushed: 0 – 0.5 volt
- When the "CANCEL" switch is pushed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pushed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pushed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- The "ON/OFF" switch is not pushed properly.
- The "CANCEL" switch is not pushed properly.
- The "COAST/SET" switch is not pushed properly.
- The "ACC/RES" switch is not pushed properly.

**DIAGNOSIS PROCEDURE****STEP 1. Check the MPI system diagnosis code.**

Using M.U.T.-III, perform MPI system diagnosis code (Refer to GROUP 13B – Troubleshooting, Diagnosis Function <4B10, 4B11-Non-turbo> or refer to GROUP 13F – Troubleshooting, Diagnosis Function <4J1>).

**Q: Is any diagnosis code set?**

**YES :** Repair the MPI system (Refer to GROUP 13B – Troubleshooting, Inspection Chart for Diagnosis Code <4B10, 4B11-Non-turbo> or Refer to GROUP 13F – Troubleshooting, Inspection Chart for Diagnosis Code <4J1>).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 75: "CANCEL" switch
- Item 86: "ON/OFF" switch
- Item 91: "ACC/RES" switch
- Item 92: "COAST/SET" switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

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**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.  
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**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13B – Engine-ECU <4B10, 4B11-Non-turbo>, GROUP 13F – Engine-ECU <4J1>).

**ENGINE AND EMISSION CONTROL  
CRUISE CONTROL <4N1>**

Attached sheet 27

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with the engine-ECU only is impossible.	–	GROUP 13C – Troubleshooting, Symptom Procedures, Inspection Procedure 1 .
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled.		2	
When the "CANCEL" switch is pressed, cruise control is not cancelled.		3	
Cruise control cannot be set (No response when the "COAST/SET" switch and the "ACC/RES" switch is pressed).		4	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed.		5	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate (However, the cruise control system is normal).		6	
When the cruise control switch is operated, the system is not turned on.		7	

<Added>

**Inspection Procedure 7: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pressed: 0 – 0.5 volt
- When the "CANCEL" switch is pressed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pressed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pressed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- The "ON/OFF" switch is not pressed properly.
- The "CANCEL" switch is not pressed properly.
- The "COAST/SET" switch is not pressed properly.
- The "ACC/RES" switch is not pressed properly.

**DIAGNOSIS PROCEDURE****STEP 1. Check the diesel fuel system diagnosis code.**

Using M.U.T.-III, perform diesel fuel system diagnosis code (Refer to GROUP 13C – Troubleshooting, Diagnosis Function ).

**Q: Is any diagnosis code set?**

**YES :** Repair the diesel fuel system (Refer to GROUP 13C – Troubleshooting, Inspection Chart for Diagnosis Trouble Code ).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 136: "ON/OFF" switch.
- Item 137: "CANCEL" switch.
- Item 138: "COAST/SET" switch.
- Item 139: "ACC/RES" switch.

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

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**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches

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**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13C – Engine-ECU ).

## CHECK CHART FOR TROUBLE SYMPTOMS

M1172002302061

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with the engine-ECU only is impossible	–	GROUP 13A – Troubleshooting, Symptom Procedures, Inspection Procedure 1 .
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled <M/T>.		2	
When the shift lever is set to "N" position, cruise control is not cancelled <TC-SST>.		3	
When the "CANCEL" switch is pushed, cruise control is not cancelled.		4	
Cruise control cannot be set (No response when the "COAST/SET" switch and the "ACC/RES" switch is pushed).		5	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed.		6	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate. (However, the cruise control system is normal).		7	
When the cruise control switch is operated, the system is not turned on.		8	

<Added>

**Inspection Procedure 8: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pushed: 0 – 0.5 volt
- When the "CANCEL" switch is pushed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pushed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pushed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- The "ON/OFF" switch is not pushed properly.
- The "CANCEL" switch is not pushed properly.
- The "COAST/SET" switch is not pushed properly.
- The "ACC/RES" switch is not pushed properly.

**DIAGNOSIS PROCEDURE****STEP 1. Check the MPI system diagnosis code.**

Using M.U.T.-III, perform MPI system diagnosis code (Refer to GROUP 13A – Troubleshooting, Diagnosis Function ).

**Q: Is any diagnosis code set?**

**YES :** Repair the MPI system (Refer to GROUP 13A – Troubleshooting, Inspection Chart for Diagnosis Trouble Code ).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 75: "CANCEL" switch
- Item 86: "ON/OFF" switch
- Item 91: "ACC/RES" switch
- Item 92: "COAST/SET" switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

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**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches

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**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13A – Engine-ECU ).

**Inspection Procedure 7: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pushed: 0 – 0.5 volt
- When the "CANCEL" switch is pushed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pushed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pushed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- The "ON/OFF" switch is not pushed properly.
- The "CANCEL" switch is not pushed properly.
- The "COAST/SET" switch is not pushed properly.
- The "ACC/RES" switch is not pushed properly.

**DIAGNOSIS PROCEDURE****STEP 1. Check the MPI system diagnosis code.**

Using M.U.T.-III, perform MPI system diagnosis code (Refer to GROUP 13A – Troubleshooting, Diagnosis Function <4B1> or GROUP 13D – Troubleshooting, Diagnosis Function <4A9>).

**Q: Is any diagnosis code set?**

**YES :** Repair the MPI system (Refer to GROUP 13A – Troubleshooting, Inspection Chart for Diagnosis Trouble Code <4B1> or GROUP 13D – Troubleshooting, Inspection Chart for Diagnosis Trouble Code <4A9>).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table).

- Item 75: "CANCEL" switch
- Item 86: "ON/OFF" switch
- Item 91: "ACC/RES" switch
- Item 92: "COAST/SET" switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

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**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.

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**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13A – Engine-ECU <4B1> or GROUP 13D – Engine-ECU <4A9>).

## CHECK CHART FOR TROUBLE SYMPTOMS

M1172002302339

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with the engine-ECU only is impossible.	—	GROUP 13B – Troubleshooting, Symptom Procedures, Inspection Procedure 1 .
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled. <M/T>		2	
When the "CANCEL" switch is pressed, cruise control is not cancelled.		3	
Cruise control cannot be set (No response when the "COAST/SET" switch and the "ACC/RES" switch is pressed).		4	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed.		5	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate (However, the cruise control system is normal).		6	
When the Selector Lever is Set to "N" Position, Cruise Control is not Cancelled <A/T>		7	
When the cruise control switch is operated, the system is not turned on.		8	

<Added>

**Inspection Procedure 8: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pressed: 0 – 0.5 volt
- When the "CANCEL" switch is pressed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pressed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pressed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- The "ON/OFF" switch is not pressed properly.
- The "CANCEL" switch is not pressed properly.
- The "COAST/SET" switch is not pressed properly.
- The "ACC/RES" switch is not pressed properly.

**DIAGNOSIS PROCEDURE****STEP 1. Check the diesel fuel system diagnosis code.**

Using M.U.T.-III, perform diesel fuel system diagnosis code (Refer to GROUP 13B – Troubleshooting, Diagnosis Function ).

**Q: Is any diagnosis code set?**

**YES :** Repair the diesel fuel system (Refer to GROUP 13B – Troubleshooting, Inspection Chart for Diagnosis Trouble Code ).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 136: "ON/OFF" switch.
- Item 137: "CANCEL" switch.
- Item 138: "COAST/SET" switch.
- Item 139: "ACC/RES" switch.

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

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**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches

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**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13B – Engine-ECU ).

## CHECK CHART FOR TROUBLE SYMPTOMS

M1172002300731

Trouble symptom	Inspection procedure No.	Reference page
When the Brake Pedal is Depressed, Auto-cruise Control is not Cancelled.	1	
When the Clutch Pedal is Depressed, Auto-cruise Control is not Cancelled.	2	
When the Auto-cruise Control "CANCEL" Switch is Set to ON, Auto-cruise Control is not Cancelled.	3	
Auto-cruise control cannot be set.	4	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed.	5	
When the auto-cruise control MAIN switch is turned ON, the auto-cruise control indicator lamp does not illuminate. (However, the auto-cruise control system is normal).	6	
When the cruise control switch is operated, the system is not turned on.	7	

<Added>

**Inspection Procedure : When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch (SET, RESUME and CANCEL) of the auto-cruise control switch. The engine-ECU detects the state of the auto-cruise control switch by sensing the voltages shown below.

- When all switches are OFF: 4.7 – 5.0 volts
- When the MAIN switch is ON: 0 – 0.3 volt
- When the SET switch is ON: 2.0 – 2.8 volts
- When the RESUME switch is ON: 3.3 – 4.1 volts
- When the CANCEL switch is ON: 0.8 – 1.5 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- The SET switch is not working properly.
- The RESUME switch is not working properly.
- The CANCEL switch is not working properly.

**DIAGNOSIS PROCEDURE****STEP 1. Check the MPI system diagnosis code.**

Using M.U.T.-III, perform MPI system diagnosis code (Refer to GROUP 13A – Troubleshooting, Diagnosis Function ).

**Q: Is any diagnosis code set?**

**YES :** Repair the MPI system (Refer to GROUP 13A – Troubleshooting, Inspection Chart for Diagnosis Trouble Code ).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 1D: Auto-cruise control switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

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**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.  
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**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13A – Engine-ECU ).

## CHECK CHART FOR TROUBLE SYMPTOMS

M1172002300775

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with the engine-ECU only is impossible	–	GROUP 13C – Troubleshooting, Symptom Procedures, Inspection Procedure 1
Auto-cruise control is not cancelled.	Even if brake pedal is depressed	1	
	Even if selector lever is set to "N" range	2	
	Even if auto-cruise control "CANCEL" switch is set to ON	3	
Auto-cruise control cannot be set.		4	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed.		5	
When the auto-cruise control "ON/OFF" (MAIN) switch is turned ON, the auto-cruise control indicator lamp does not illuminate. (However, the auto-cruise control system is normal).		6	
When the cruise control switch is operated, the system is not turned on.		7	

<Added>

**Inspection Procedure 7: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ["ON/OFF" (MAIN), "CANCEL", "COAST/SET" and "ACC/RES"] of the auto-cruise control switch. The engine-ECU detects the state of the auto-cruise control switch by sensing the voltages shown below.

- When all switches are OFF: 4.7 - 5.0 volts
- When the "ON/OFF" (MAIN) switch is ON: 0 - 0.5 volt
- When the "CANCEL" switch is ON: 1.0 - 1.8 volts
- When the "COAST/SET" switch is ON: 2.3 - 3.0 volts
- When the "ACC/RES" switch is ON: 3.5 - 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- The "ON/OFF" (MAIN) switch is not fully ON.
- The "CANCEL" switch is not fully ON.
- The "COAST/SET" switch is not fully ON.
- The "ACC/RES" switch is not fully ON.

**DIAGNOSIS PROCEDURE****STEP 1. Check the MPI system diagnosis code.**

Using M.U.T.-III, perform MPI system diagnosis code (Refer to GROUP 13C – Troubleshooting, Diagnosis Function ).

**Q: Is any diagnosis code set?**

**YES :** Repair the MPI system (Refer to GROUP 13C – Troubleshooting, Inspection Chart for Diagnosis Trouble Code ).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 75: "CANCEL" switch
- Item 86: "ON/OFF" (MAIN) switch
- Item 91: "ACC/RES" switch
- Item 92: "COAST/SET" switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

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**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches

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**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13C – Engine-ECU ).

**ENGINE AND EMISSION CONTROL**  
**CRUISE CONTROL <6B3, 4B1>**

Attached sheet 38

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with Engine-ECU is not possible.	—	GROUP 13D – Troubleshooting, Symptom Procedures, Inspection Procedure 1 <4B1>.
			GROUP 13C – Troubleshooting, Symptom Procedures, Inspection Procedure 1 <6B3>.
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled <M/T>.		2	
When the selector lever is set to "N" position, cruise control is not cancelled <CVT, A/T>.		3	
When the "CANCEL" switch is pressed, cruise control is not cancelled.		4	
Cruise control cannot be set (No response "COAST/SET" switch and "ACC/RES" switch is pressed).		5	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <M/T>.		6	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <CVT, A/T>.		7	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate (However, the cruise control system is normal).		8	
When the cruise control switch is operated, the system is not turned on.		9	

<Added>

**Inspection Procedure 9: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pressed: 0 – 0.5 volt
- When the "CANCEL" switch is pressed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pressed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pressed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- The "ON/OFF" switch is not pressed properly.
- The "CANCEL" switch is not pressed properly.
- The "COAST/SET" switch is not pressed properly.
- The "ACC/RES" switch is not pressed properly.

**DIAGNOSIS PROCEDURE****STEP 1. Check the MPI system diagnosis code.**

Using M.U.T.-III, perform MPI system diagnosis code (Refer to GROUP 13C – Troubleshooting, Diagnosis Function <6B3> or GROUP 13D – Troubleshooting, Diagnosis Function <4B1>).

**Q: Is any diagnosis code set?**

**YES :** Repair the MPI system (Refer to GROUP 13C – Troubleshooting, Inspection Chart for Diagnosis Trouble Code <6B3> or GROUP 13D – Troubleshooting, Inspection Chart for Diagnosis Trouble Code <4B1>).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table <4B1> or <6B3>).

- Item 75: "CANCEL" switch
- Item 86: "ON/OFF" switch
- Item 91: "ACC/RES" switch
- Item 92: "COAST/SET" switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

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**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.

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**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13C – Engine-ECU <6B3> or GROUP 13D – Engine-ECU <4B1>).

## CHECK CHART FOR TROUBLE SYMPTOMS

M1172002301682

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with Engine-ECU is not possible.	—	GROUP 13A – Troubleshooting, Symptom Procedures, Inspection Procedure 1 .
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled.		2	
When the "CANCEL" switch is pressed, cruise control is not cancelled.		3	
Cruise control cannot be set (No response "COAST/SET" switch and "ACC/RES" switch is pressed).		4	
Hunting (Repeated acceleration and deceleration) occurs at the set vehicle speed.		5	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate (However, the cruise control system is normal).		6	
When the cruise control switch is operated, the system is not turned on.		7	

<Added>

**Inspection Procedure 7: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pressed: 0 – 0.5 volt
- When the "CANCEL" switch is pressed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pressed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pressed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- The "ON/OFF" switch is not pressed properly.
- The "CANCEL" switch is not pressed properly.
- The "COAST/SET" switch is not pressed properly.
- The "ACC/RES" switch is not pressed properly.

**DIAGNOSIS PROCEDURE****STEP 1. Check the diesel fuel system diagnosis code.**

Using M.U.T.-III, perform diesel fuel system diagnosis code (Refer to GROUP 13A – Troubleshooting, Diagnosis Function ).

**Q: Is any diagnosis code set?**

**YES :** Repair the diesel fuel system (Refer to GROUP 13A – Troubleshooting, Inspection Chart for Diagnosis Trouble Code ).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 285: Cruise control switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

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**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.  
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**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13A – Engine-ECU ).

## CHECK CHART FOR TROUBLE SYMPTOMS

M1172002301701

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with Engine-ECU is not possible.	—	GROUP 13E – Troubleshooting, Symptom Procedures, Inspection Procedure 1
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled <M/T>.		2	
When the shift lever is set to "N" position, cruise control is not cancelled <TC-SST>.		3	
When the "CANCEL" switch is pressed, cruise control is not cancelled.		4	
Cruise control cannot be set (No response "COAST/SET" switch and "ACC/RES" switch is pressed).		5	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed.		6	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate (However, the cruise control system is normal).		7	
When the cruise control switch is operated, the system is not turned on.		8	

<Added>

**Inspection Procedure 8: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pressed: 0 – 0.5 volt
- When the "CANCEL" switch is pressed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pressed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pressed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- The diesel fuel system is not working properly.
- The cruise control switch is not working properly.

**DIAGNOSIS PROCEDURE****STEP 1. Check the diesel fuel system diagnosis code.**

Using M.U.T.-III, perform diesel fuel system diagnosis code (Refer to GROUP 13E – Troubleshooting, Diagnosis Function ).

**Q: Is any diagnosis code set?**

**YES :** Repair the diesel fuel system (Refer to GROUP 13E – Troubleshooting, Inspection Chart for Diagnosis Trouble Code ).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 15: Cruise control switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

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**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.  
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**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13E – Engine-ECU ).

**ENGINE AND EMISSION CONTROL  
CRUISE CONTROL <4N1>**

Attached sheet 44

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with the engine-ECU only is impossible.	–	GROUP 13C – Troubleshooting, Symptom Procedures, Inspection Procedure 1 .
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled.		2	
When the "CANCEL" switch is pressed, cruise control is not cancelled.		3	
Cruise control cannot be set (No response when the "COAST/SET" switch and the "ACC/RES" switch is pressed).		4	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed.		5	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate (However, the cruise control system is normal).		6	
When the cruise control switch is operated, the system is not turned on.		7	

<Added>

**Inspection Procedure 7: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pressed: 0 – 0.5 volt
- When the "CANCEL" switch is pressed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pressed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pressed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- The "ON/OFF" switch is not pressed properly.
- The "CANCEL" switch is not pressed properly.
- The "COAST/SET" switch is not pressed properly.
- The "ACC/RES" switch is not pressed properly.

**DIAGNOSIS PROCEDURE****STEP 1. Check the diesel fuel system diagnosis code.**

Using M.U.T.-III, perform diesel fuel system diagnosis code (Refer to GROUP 13F – Troubleshooting, Diagnosis Function ).

**Q: Is any diagnosis code set?**

**YES :** Repair the diesel fuel system (Refer to GROUP 13F – Troubleshooting, Inspection Chart for Diagnosis Trouble Code ).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 136: "ON/OFF" switch.
- Item 137: "CANCEL" switch.
- Item 138: "COAST/SET" switch.
- Item 139: "ACC/RES" switch.

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

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**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches

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**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13F – Engine-ECU ).

## CHECK CHART FOR TROUBLE SYMPTOMS

M1172002301712

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with Engine-ECU is not possible.	—	GROUP 13A – Troubleshooting.
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled <M/T>.		2	
When the shift lever is set to "N" position, cruise control is not cancelled <TC-SST>.		3	
When the "CANCEL" switch is pressed, cruise control is not cancelled.		4	
Cruise control cannot be set (No response "COAST/SET" switch and "ACC/RES" switch is pressed).		5	
Hunting (Repeated acceleration and deceleration) occurs at the set vehicle speed.		6	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate (However, the cruise control system is normal).		7	
When the cruise control switch is operated, the system is not turned on.		8	

<Added>

**Inspection Procedure 8: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pressed: 0 – 0.5 volt
- When the "CANCEL" switch is pressed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pressed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pressed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- The diesel fuel system is not working properly.
- The cruise control switch is not working properly.

**DIAGNOSIS PROCEDURE****STEP 1. Check the diesel fuel system diagnosis code.**

Using M.U.T.-III, perform diesel fuel system diagnosis code (Refer to GROUP 13A – Troubleshooting, Diagnosis Function ).

**Q: Is any diagnosis code set?**

**YES :** Repair the diesel fuel system (Refer to GROUP 13A – Troubleshooting, Inspection Chart for Diagnosis Trouble Code ).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 15: Cruise control switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

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**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.

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**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13A – Engine-ECU ).

## CHECK CHART FOR TROUBLE SYMPTOMS

M1172002301723

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with Engine-ECU is not possible.	—	GROUP 13C – Troubleshooting, Symptom Procedures, Inspection Procedure 1 .
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled <M/T>.		2	
When the selector lever is set to "N" position, cruise control is not cancelled <CVT>.		3	
When the "CANCEL" switch is pressed, cruise control is not cancelled.		4	
Cruise control cannot be set (No response "COAST/SET" switch and "ACC/RES" switch is pressed).		5	
Hunting (Repeated acceleration and deceleration) occurs at the set vehicle speed <M/T>.		6	
Hunting (Repeated acceleration and deceleration) occurs at the set vehicle speed <CVT>.		7	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate (However, the cruise control system is normal).		8	
When the cruise control switch is operated, the system is not turned on.		9	

<Added>

**Inspection Procedure 9: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pressed: 0 – 0.5 volt
- When the "CANCEL" switch is pressed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pressed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pressed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- The "ON/OFF" switch is not pressed properly.
- The "CANCEL" switch is not pressed properly.
- The "COAST/SET" switch is not pressed properly.
- The "ACC/RES" switch is not pressed properly.

**DIAGNOSIS PROCEDURE****STEP 1. Check the MPI system diagnosis code.**

Using M.U.T.-III, perform MPI system diagnosis code (Refer to GROUP 13C – Troubleshooting, Diagnosis Function ).

**Q: Is any diagnosis code set?**

**YES :** Repair the MPI system (Refer to GROUP 13C – Troubleshooting, Inspection Chart for Diagnosis Trouble Code ).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 75: "CANCEL" switch
- Item 86: "ON/OFF" switch
- Item 91: "ACC/RES" switch
- Item 92: "COAST/SET" switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

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**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches

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**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13C – Engine-ECU ).

## CHECK CHART FOR TROUBLE SYMPTOMS <6G7>

M1172002302049

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with the engine-ECU <M/T> or engine-A/T-ECU <A/T> only is impossible.	–	GROUP 13A – Symptom Procedures, Inspection Procedure 1 <6G75>
		–	GROUP 13D – Symptom Procedures, Inspection Procedure 1 <6G72>
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled <M/T>.		2	
When the selector lever is set to "N" position, cruise control is not cancelled <A/T>.		3	
When the "CANCEL" switch is pushed, cruise control is not cancelled.		4	
Cruise control cannot be set (No response when the "COAST/SET" switch and the "ACC/RES" switch is pushed).		5	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed.		6	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate. (However, the cruise control system is normal).		7	
When the cruise control switch is operated, the system is not turned on.		8	

<Added>

**Inspection Procedure 8: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU <M/T> or engine-A/T-ECU <A/T> detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pushed: 0 – 0.5 volt
- When the "CANCEL" switch is pushed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pushed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pushed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- The MPI system is malfunctioning.
- The engine-ECU <M/T> or engine-A/T-ECU <A/T> is malfunctioning.
- The engine-ECU <M/T> or engine-A/T-ECU <A/T> is not turned on.

**DIAGNOSIS PROCEDURE****STEP 1. Check the MPI system diagnosis code.**

Using M.U.T.-III, perform MPI system diagnosis code (Refer to GROUP 13A – Troubleshooting, Diagnosis Function <6G75> or GROUP 13D – Troubleshooting, Diagnosis Function <6G72>).

**Q: Is any diagnosis code set?**

**YES :** Repair the MPI system (Refer to GROUP 13A – Troubleshooting, Inspection Chart for Diagnosis Trouble Code <6G75> or GROUP 13D – Troubleshooting, Inspection Chart for Diagnosis Code <6G72>).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 75: "CANCEL" switch.
- Item 86: "ON/OFF" switch.
- Item 91: "ACC/RES" switch.
- Item 92: "COAST/SET" switch.

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.

**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-A/T-ECU (Refer to GROUP 13A – Engine-A/T-ECU ) <6G75>, or replace the engine-ECU <M/T> or engine-A/T-ECU <A/T> (Refer to GROUP 13D – Engine-ECU and Engine-A/T-ECU ) <6G72>.

**CHECK CHART FOR TROUBLE SYMPTOMS <4M4>**

M1172002302050

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with the engine-ECU only is impossible.	—	GROUP 13B – Symptom Procedures, Inspection Procedure 1
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled <M/T>.		2	
When the selector lever is set to "N" position, cruise control is not cancelled <A/T>.		3	
When the "CANCEL" switch is pushed, cruise control is not cancelled.		4	
Cruise control cannot be set (No response when the "COAST/SET" switch and the "ACC/RES" switch is pushed).		5	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed.		6	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate. (However, the cruise control system is normal).		7	
When the cruise control switch is operated, the system is not turned on.		8	

<Added>

**Inspection Procedure 8: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pushed: 0 – 0.5 volt
- When the "CANCEL" switch is pushed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pushed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pushed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- Malfunction of the cruise control switches.
- Malfunction of the engine-ECU.

**DIAGNOSIS PROCEDURE****STEP 1. Check the diesel fuel system diagnosis code.**

Using M.U.T.-III, perform diesel fuel system diagnosis code (Refer to GROUP 13B – Troubleshooting, Diagnosis Function ).

**Q: Is any diagnosis code set?**

**YES :** Repair the diesel fuel system (Refer to GROUP 13B – Troubleshooting, Inspection Chart for Diagnosis Trouble Code ).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 136: "ON/OFF" switch.
- Item 137: "CANCEL" switch.
- Item 138: "COAST/SET" switch.
- Item 139: "ACC/RES" switch.

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.

**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13B – Engine-ECU ).

## CHECK CHART FOR TROUBLE SYMPTOMS

M1172002301938

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with the engine-ECU only is impossible.	—	GROUP 13A – Troubleshooting, Symptom Procedures, Inspection Procedure 1
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled <M/T>.		2	
When the select lever is set to "N" position, cruise control is not cancelled <A/T>.		3	
When the "CANCEL" switch is pushed, cruise control is not cancelled.		4	
Cruise control cannot be set (No response when the "COAST/SET" switch and the "ACC/RES" switch is pushed).		5	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed.		6	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate (However, the cruise control system is normal).		7	
When the cruise control switch is operated, the system is not turned on.		8	

<Added>

**Inspection Procedure 8: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pressed: 0 – 0.5 volt
- When the "CANCEL" switch is pressed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pressed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pressed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- Malfunction of the cruise control switches.
- Malfunction of the engine-ECU.

**DIAGNOSIS PROCEDURE****STEP 1. Check the diesel fuel system diagnosis code.**

Using M.U.T.-III, perform diesel fuel system diagnosis code (Refer to GROUP 13A – Troubleshooting, Diagnosis Function ).

**Q: Is any diagnosis code set?**

**YES :** Repair the diesel fuel system (Refer to GROUP 13A – Troubleshooting, Inspection Chart for Diagnosis Trouble Code ).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 136: "ON/OFF" (MAIN) switch
- Item 137: "CANCEL" switch
- Item 138: "COAST/SET" switch
- Item 139: "ACC/RES" switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.

**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13A – Engine-ECU ).

## CHECK CHART FOR TROUBLE SYMPTOMS

M1172002301671

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with the engine-ECU only is impossible	–	GROUP 13B – Troubleshooting, Symptom Procedures, Inspection Procedure 1 .
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled <M/T>.		2	
When the selector lever is set to "N" position, cruise control is not cancelled <CVT>.		3	
When the "CANCEL" switch is pushed, cruise control is not cancelled.		4	
Cruise control cannot be set (No response when the "COAST/SET" switch and the "ACC/RES" switch is pushed).		5	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <M/T>.		6	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <CVT>.		7	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate. (However, the cruise control system is normal).		8	
When the cruise control switch is operated, the system is not turned on.		9	

<Added>

**Inspection Procedure 9: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pushed: 0 – 0.5 volt
- When the "CANCEL" switch is pushed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pushed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pushed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- The "ON/OFF" switch is not pushed properly.
- The "CANCEL" switch is not pushed properly.
- The "COAST/SET" switch is not pushed properly.
- The "ACC/RES" switch is not pushed properly.

**DIAGNOSIS PROCEDURE****STEP 1. Check the MPI system diagnosis code.**

Using M.U.T.-III, perform MPI system diagnosis code (Refer to GROUP 13B – Troubleshooting, Diagnosis Function ).

**Q: Is any diagnosis code set?**

**YES :** Repair the MPI system (Refer to GROUP 13B – Troubleshooting, Inspection Chart for Diagnosis Code ).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 75: "CANCEL" switch
- Item 86: "ON/OFF" switch
- Item 91: "ACC/RES" switch
- Item 92: "COAST/SET" switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

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**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches

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**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13B – Engine-ECU ).

## CHECK CHART FOR TROUBLE SYMPTOMS

M1172002301994

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with Engine-ECU is not possible.	—	GROUP 13A – Troubleshooting, Symptom Procedures, Inspection Procedure 1 .
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled <M/T>.		2	
When the selector lever is set to "N" position, cruise control is not cancelled <CVT>.		3	
When the "CANCEL" switch is pressed, cruise control is not cancelled.		4	
Cruise control cannot be set (No response "COAST/SET" switch and "ACC/RES" switch is pressed).		5	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <M/T>.		6	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <CVT>.		7	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate (However, the cruise control system is normal).		8	
When the cruise control switch is operated, the system is not turned on.		9	

<Added>

**Inspection Procedure 9: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pressed: 0 – 0.5 volt
- When the "CANCEL" switch is pressed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pressed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pressed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- The "ON/OFF" switch is not pressed properly.
- The "CANCEL" switch is not pressed properly.
- The "COAST/SET" switch is not pressed properly.
- The "ACC/RES" switch is not pressed properly.

**DIAGNOSIS PROCEDURE****STEP 1. Check the MPI system diagnosis code.**

Using M.U.T.-III, perform MPI system diagnosis code (Refer to GROUP 13A – Troubleshooting, Diagnosis Function ).

**Q: Is any diagnosis code set?**

**YES :** Repair the MPI system (Refer to GROUP 13A – Troubleshooting, Inspection Chart for Diagnosis Code ).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 75: "CANCEL" switch
- Item 86: "ON/OFF" switch
- Item 91: "ACC/RES" switch
- Item 92: "COAST/SET" switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

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**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.

**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13A – Engine-ECU ).

## CHECK CHART FOR TROUBLE SYMPTOMS

M1172002301972

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with the engine-ECU only is impossible.	–	GROUP 13B – Troubleshooting, Symptom Procedures, Inspection Procedure 1 .
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled.		2	
When the "CANCEL" switch is pressed, cruise control is not cancelled.		3	
Cruise control cannot be set (No response when the "COAST/SET" switch and the "ACC/RES" switch is pressed).		4	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed.		5	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate (However, the cruise control system is normal).		6	
When the cruise control switch is operated, the system is not turned on.		7	

<Added>

**Inspection Procedure 7: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pressed: 0 – 0.5 volt
- When the "CANCEL" switch is pressed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pressed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pressed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- Malfunction of the cruise control switches.
- Malfunction of the engine-ECU.

**DIAGNOSIS PROCEDURE****STEP 1. Check the diesel fuel system diagnosis code.**

Using M.U.T.-III, perform diesel fuel system diagnosis code (Refer to GROUP 13B – Troubleshooting, Diagnosis Function ).

**Q: Is any diagnosis code set?**

**YES :** Repair the diesel fuel system (Refer to GROUP 13B – Troubleshooting, Inspection Chart for Diagnosis Trouble Code ).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 136: "ON/OFF" switch.
- Item 137: "CANCEL" switch.
- Item 138: "COAST/SET" switch.
- Item 139: "ACC/RES" switch.

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.

**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13B – Engine-ECU ).

**ENGINE AND EMISSION CONTROL  
CRUISE CONTROL**

Attached sheet 62

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with the engine-ECU only is impossible	–	GROUP 13A – Troubleshooting, Symptom Procedures, Inspection Procedure 1 <4B1>.
			GROUP 13B – Troubleshooting, Symptom Procedures, Inspection Procedure 1 <6B3>.
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled <M/T>.		2	
When the selector lever is set to "N" position, cruise control is not cancelled <CVT, A/T>.		3	
When the "CANCEL" switch is set to ON, cruise control is not cancelled.		4	
Cruise control cannot be set (No response when the "COAST/SET" switch and the "ACC/RES" switch is pressed).		5	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <M/T>.		6	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <CVT, A/T>.		7	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate (However, the cruise control system is normal).		8	
When the cruise control switch is operated, the system is not turned on.		9	

<Added>

**Inspection Procedure 9: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pushed: 0 – 0.5 volt
- When the "CANCEL" switch is pushed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pushed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pushed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- Malfunction of the cruise control switches.
- Malfunction of the engine-ECU.

**DIAGNOSIS PROCEDURE****STEP 1. Check the MPI system diagnosis code.**

Using M.U.T.-III, perform MPI system diagnosis code (Refer to GROUP 13A – Troubleshooting, Diagnosis Function <4B1> or GROUP 13B – Troubleshooting, Diagnosis Function <6B3>).

**Q: Is any diagnosis code set?**

**YES :** Repair the MPI system (Refer to GROUP 13A – Troubleshooting, Inspection Chart for Diagnosis Trouble Code <4B1> or GROUP 13B – Troubleshooting, Inspection Chart for Diagnosis Trouble Code <6B3>).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table <4B1> or <6B3>).

- Item 75: "CANCEL" switch
- Item 86: "ON/OFF" switch
- Item 91: "ACC/RES" switch
- Item 92: "COAST/SET" switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.

**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13A – Engine-ECU <4B1> or GROUP 13B – Engine-ECU <6B3>).

## TROUBLE SYMPTOM CHART

M1172002300838

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication is not possible only between M.U.T.-III and the engine-ECU.	—	Refer to GROUP 13A – Troubleshooting, Trouble Symptom Inspection Procedure, Inspection Procedure 1 .
The cruise control is not cancelled.	When the brake pedal is depressed	1	
	When the selector lever is moved to the "N" position	2	
	When the "CANCEL" switch of the cruise control switch is pressed	3	
The cruise control cannot be set. (No response even by when the "COAST/SET" switch and "ACC/RES" switch are pressed)		4	
Hunting (repetition of acceleration/deceleration) occurs at the set vehicle speed.		5	
The cruise control indicator lamp does not illuminate when the "ON/OFF" (main) switch of the cruise control switch is pressed. (However, the cruise control system is normal.)		6	
When the cruise control switch is operated, the system is not turned on.		7	

<Added>

**Inspection Procedure 7: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit monitors signals from the switches ["ON/OFF" (main), "CANCEL", "COAST/SET", and "ACC/RES"] of the cruise control switch, and the engine-ECU judges the operation status of each switch based on the input voltage from the cruise control switch.

- When all the switches of the cruise control are OFF: 4.7 – 5.0 V
- When the "ON/OFF" (main) switch is ON: 0 – 0.5 V
- When the "CANCEL" switch is ON: 1.0 – 1.8 V
- When the "COAST/SET" switch is ON: 2.3 – 3.0 V
- When the "ACC/RES" switch is ON: 3.5 – 4.2 V

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- Malfunction of the cruise control switches.
- Malfunction of the engine-ECU.

**DIAGNOSIS PROCEDURE****STEP 1. Check the MPI system diagnosis code.**

Using M.U.T.-III, perform MPI system diagnosis code (Refer to GROUP 13A – Troubleshooting, Diagnosis Function ).

**Q: Is any diagnosis code set?**

**YES :** Repair the MPI system (Refer to GROUP 13A – Troubleshooting, Diagnosis Code Chart ).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 75: "CANCEL" switch
- Item 86: "ON/OFF" switch
- Item 91: "ACC/RES" switch
- Item 92: "COAST/SET" switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.

**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13A – Engine-ECU ).

**ENGINE AND EMISSION CONTROL**  
**CRUISE CONTROL <4M4, 4D5>**

Attached sheet 66

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with the engine-ECU only is impossible.	—	GROUP 13A – Troubleshooting, Symptom Procedures, Inspection Procedure 1 <4M4>
		—	GROUP 13C – Troubleshooting, Symptom Procedures, Inspection Procedure 1 <4D5>
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled <M/T>.		2	
When the select lever is set to "N" position, cruise control is not cancelled <A/T>.		3	
When the "CANCEL" switch is pushed, cruise control is not cancelled.		4	
Cruise control cannot be set (No response when the "COAST/SET" switch and the "ACC/RES" switch is pushed).		5	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <2WD-M/T, 4WD>.		6	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed <2WD-A/T>.		7	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate (However, the cruise control system is normal).		8	
When the cruise control switch is operated, the system is not turned on.		9	

<Added>

**Inspection Procedure 9: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are released: 4.7 – 5.0 volts
- When the "ON/OFF" switch is pushed: 0 – 0.5 volt
- When the "CANCEL" switch is pushed: 1.0 – 1.8 volts
- When the "COAST/SET" switch is pushed: 2.3 – 3.0 volts
- When the "ACC/RES" switch is pushed: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- Malfunction of the cruise control switches.
- Malfunction of the engine-ECU.

**DIAGNOSIS PROCEDURE****STEP 1. Check the diesel fuel system diagnosis code.**

Using M.U.T.-III, perform diesel fuel system diagnosis code (Refer to GROUP 13A – Troubleshooting, Diagnosis Function <4M4> or GROUP 13C – Troubleshooting, Diagnosis Function <4D5>).

**Q: Is any diagnosis code set?**

**YES :** Repair the diesel fuel system (Refer to GROUP 13A – Troubleshooting, Inspection Chart for Diagnosis Trouble Code <4M4> or GROUP 13C – Troubleshooting, Inspection Chart for Diagnosis Trouble Code <4D5>).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 136: "ON/OFF" switch
- Item 137: "CANCEL" switch
- Item 138: "COAST/SET" switch
- Item 139: "ACC/RES" switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.

**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU (Refer to GROUP 13A – Engine-ECU <4M4> or GROUP 13C – Engine-ECU <4D5>).

## CHECK CHART FOR TROUBLE SYMPTOMS

M1172002301897

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with the engine-ECU <M/T> or engine-A/T-ECU <A/T> only is impossible <6G7>.	–	GROUP 13D – Troubleshooting, Symptom Procedures, Inspection Procedure 1
	Communication with the engine-ECU only is impossible <6B3>.	–	GROUP 13E – Troubleshooting, Symptom Procedures, Inspection Procedure 1
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the clutch pedal is depressed, cruise control is not cancelled <M/T>.		2	
When the selector lever is set to "N" position, cruise control is not cancelled <6G7-A/T>.		3	
When the selector lever is set to "N" position, cruise control is not cancelled <6B3>.		4	
When the "CANCEL" switch is pushed, cruise control is not cancelled.		5	
Cruise control cannot be set (No response when the "COAST/SET" switch and the "ACC/RES" switch is pushed) <6G7>.		6	
Cruise control cannot be set (No response when the "COAST/SET" switch and the "ACC/RES" switch is pushed) <6B3>.		7	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed.		8	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate (However, the cruise control system is normal) <6G7>.		9	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate (However, the cruise control system is normal) <6B3>.		10	
When the cruise control switch is operated, the system is not turned on.		11	

<Added>

**Inspection Procedure 11: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU <M/T> or engine-A/T-ECU <A/T> detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are OFF: 4.7 – 5.0 volts
- When the "ON/OFF" switch is ON: 0 – 0.5 volt
- When the "CANCEL" switch is ON: 1.0 – 1.8 volts
- When the "COAST/SET" switch is ON: 2.3 – 3.0 volts
- When the "ACC/RES" switch is ON: 3.5 – 4.2 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- Malfunction of the cruise control switches.
- Malfunction of the engine-ECU <M/T>.
- Malfunction of the engine-A/T-ECU <A/T>.

**DIAGNOSIS PROCEDURE****STEP 1. Check the MPI system diagnosis code.**

Using M.U.T.-III, perform MPI system diagnosis code (Refer to GROUP 13D – Troubleshooting, Diagnosis Function <6G7> or GROUP 13E – Troubleshooting, Diagnosis Function <6B3>).

**Q: Is any diagnosis code set?**

**YES :** Repair the MPI system (Refer to GROUP 13D – Troubleshooting, Check Chart for Diagnosis Code <6G7> or GROUP 13E – Troubleshooting, Check Chart for Diagnosis Code <6B3>).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 75: "CANCEL" switch
- Item 86: "ON/OFF" switch
- Item 91: "ACC/RES" switch
- Item 92: "COAST/SET" switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.

**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction ).

**NO :** Replace the engine-ECU <M/T> or engine-A/T-ECU <A/T> (Refer to GROUP 13D – Engine-ECU and Engine-A/T-ECU ) <6G7> or replace the engine-ECU (Refer to GROUP 13E – Engine-ECU ) <6B3>.

## CHECK CHART FOR TROUBLE SYMPTOMS

M1172002302157

Trouble symptom		Inspection procedure No.	Reference page
Communication with M.U.T.-III is not possible.	Communication with the engine-ECU only is impossible.	—	GROUP 13E – Troubleshooting, Symptom Procedures, Inspection Procedure 1
When the brake pedal is depressed, cruise control is not cancelled.		1	
When the select lever is set to "N" position, cruise control is not cancelled .		2	
When the "CANCEL" switch is set to ON, cruise control is not cancelled.		3	
Cruise control cannot be set (No response when the "COAST/SET" switch and the "ACC/RES" switch is pressed).		4	
Hunting (repeated acceleration and deceleration) occurs at the set vehicle speed.		5	
When the "ON/OFF" switch is turned ON, the cruise control indicator lamp does not illuminate. (However, the cruise control system is normal).		6	
When the cruise control switch is operated, the system is not turned on.		7	

<Added>

**Inspection Procedure 7: When The Cruise Control Switch is Operated, The System is not Turned ON.****OPERATION**

This circuit judges the signals of each switch ("ON/OFF", "CANCEL", "COAST/SET" and "ACC/RES") of the cruise control switch. The engine-ECU detects the state of the cruise control switch by sensing the voltages shown below.

- When all switches are OFF: 4.7 – 5.0 volts
- When the "ON/OFF" switch is ON: 0 – 0.2 volt
- When the "CANCEL" switch is ON: 0.9 – 1.4 volts
- When the "COAST/SET" switch is ON: 2.1 – 2.7 volts
- When the "ACC/RES" switch is ON: 3.3 – 4.0 volts

**COMMENTS ON TROUBLE SYMPTOM**

The M.U.T.-III can also be used to check if the circuits of each input switches are normal or not by checking the data list.

*NOTE: Press the cruise control switches one by one securely. Otherwise, the cruise control system may not be started.*

**PROBABLE CAUSES**

- Malfunction of the cruise control switches.
- Malfunction of the engine-ECU.

**DIAGNOSIS PROCEDURE****STEP 1. Check the diesel fuel system diagnosis code.**

Using M.U.T.-III, perform diesel fuel system diagnosis code (Refer to GROUP 13E – Troubleshooting, Diagnosis Function).

**Q: Is any diagnosis code set?**

**YES :** Repair the diesel fuel system (Refer to GROUP 13E – Troubleshooting, Inspection Chart for Diagnosis Code).

**NO :** Go to Step 2.

**STEP 2. Check the data list.**

Using M.U.T.-III, check the data list (Refer to data list reference table ).

- Item 136: "ON/OFF" switch
- Item 137: "CANCEL" switch
- Item 138: "COAST/SET" switch
- Item 139: "ACC/RES" switch

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Go to Step 3.

**STEP 3. Check the cruise control switches.**

**Q: Is the check result normal?**

**YES :** Go to Step 4.

**NO :** Replace the cruise control switches.

**STEP 4. Check the symptom.**

**Q: Is the system turned on by operating the cruise control switch?**

**YES :** It can be assumed that this malfunction is intermittent (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points, How to Cope with Intermittent Malfunction).

**NO :** Replace the engine-ECU (Refer to GROUP 13E – Engine-ECU).