

CRUISE CONTROL SYSTEM

Article Text

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

ARTICLE BEGINNING

1991-92 ACCESSORIES & SAFETY EQUIPMENT

Chrysler Motors/Eagle/Mitsubishi Cruise Control Systems

Dodge; Colt, Colt 200, Stealth

Eagle; Summit

Mitsubishi; Eclipse, Mirage, 3000Gt

Plymouth; Colt, Colt 200

DESCRIPTION & OPERATION

The cruise control system is electronically controlled and vacuum actuated. System components include a control unit, vacuum pump, actuator, cruise control switch, clutch pedal switch, accelerator pedal switch, cruise indicator light, diode (if equipped), inhibitor switch (A/T), idle switch, overdrive switch, stoplight switch, throttle position sensor, vehicle speed sensor and A/T control unit.

The system also has self-diagnostic capability. When self-diagnostic mode is activated, each switch and sensor is checked for defects. If cruise control system has been canceled without using a normal cancel method, a code will be set and stored in control unit. Codes can be retrieved to help determine which circuit is malfunctioning.

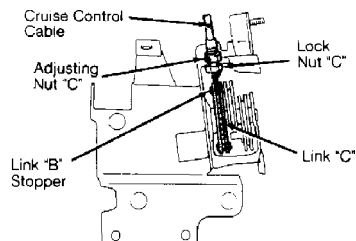
ADJUSTMENTS

CRUISE CONTROL CABLE

Colt, Colt 200, Eclipse, Mirage & Summit

1) Warm engine to normal operating temperature. On all models, except Eclipse, remove air cleaner. On all models, remove cable protector. Ensure cable is free of bends and folds. Turn ignition on for 15 seconds. Loosen lock nut "C". See Fig. 1, 2 or 3.

2) With the end of linkage "C" held in contact with stopper on linkage "B", adjust play in cruise control cable (inner cable) to .04-.08 (1-2 mm). Tighten lock nut.



COLT, COLT 200, MIRAGE & SUMMIT

93J01117

Fig. 1: Adjusting Cruise Control Cable (Colt, Colt 200, Mirage & Summit)

CRUISE CONTROL SYSTEM

Article Text (p. 2)

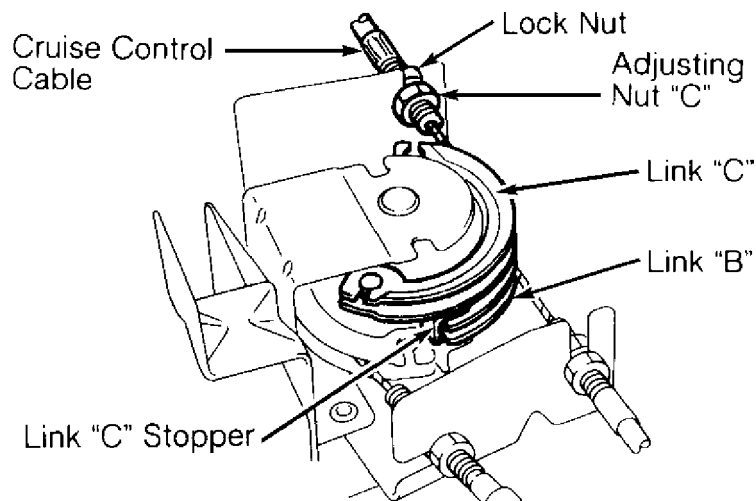
1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

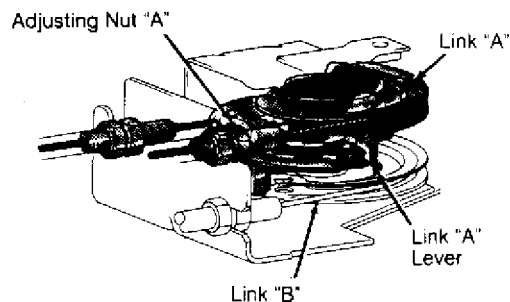
Monday, April 01, 2002 09:56AM

Courtesy of Mitsubishi Motor Co.



93C01821

Fig. 2: Adjusting Cruise Control Cable (Eclipse)
Courtesy of Mitsubishi Motor Co.



STEALTH & 3000GT

93E01822

Fig. 3: Adjusting Cruise Control Cable (Stealth & 3000GT)
Courtesy of Mitsubishi Motor Co.

Stealth & 3000GT

1) Warm engine to normal operating temperature. Ensure cable is free of bends and folds. Remove cable protector. Loosen adjusting and lock nuts of link "A". Turn ignition on. See Fig. 1, 2 or 3.

2) Turn adjusting nut "A" to reduce free play of inner cable of cruise control cable. When lever of link "A" contacts intermediate link "B", back off adjusting nut one turn.

3) Free play of inner cable should be .04-.08 (1-2 mm). Tighten lock nut. Ensure end of fixed Speed Adjusting Screw (SAS) is in contact with stopper of throttle lever.

TROUBLE SHOOTING

CRUISE CONTROL SYSTEM

Article Text (p. 3)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

INSPECTION

Before performing TROUBLE SHOOTING steps, inspect vacuum pump, linkage assembly, actuator, cables and vacuum hoses. Ensure linkage and cables move smoothly. Ensure cables do not have excessive slack or tension.

NOTE: For further trouble shooting information, see CHECK RESULTS & SYMPTOM CHARTS. See Figs. 9-17.

SYSTEM CANCELS OR WILL NOT RESET AFTER CANCELLATION

1) Check trouble codes, see SELF-DIAGNOSTICS under DIAGNOSIS & TESTING. If no trouble codes are stored, check to see if cruise control can be set.

2) If cruise control can be set, system may have been canceled because of driving on steep hills or loose wiring connection. If cruise control still cannot be set, perform SYSTEM INPUT TESTS under TESTING.

NOTE: If vacuum pump circuit and parts of actuator check okay, replace control unit.

3) If SYSTEM INPUT TESTS check okay, check vacuum pump. See TEST NO. 6 under CIRCUIT TESTS (EXCEPT ECLIPSE). If system input tests do not check okay, see INPUT CODE CHART. See Fig. 7.

TESTING

CRUISE CONTROL SWITCH FUNCTION TEST

NOTE: If vehicle speed decreases approximately 9 MPH below set speed, set speed will be canceled.

Colt, Colt 200, Eclipse, Mirage & Summit

1) Cruise control switch is part of multifunction switch mounted on steering column. To operate cruise control system, turn ignition on. Turn cruise control switch to ON position. Ensure indicator light inside switch comes on.

NOTE: Speed will not set beyond system limit of 90 MPH.

2) With cruise control switch in ON position, drive vehicle 25-90 MPH. Press and release SET button. Vehicle speed should stay at set speed. Instrument cluster cruise indicator light should come on. To increase set speed, turn control switch to RESUME position and hold until new set speed is reached.

3) To lower set speed, press SET button and hold until new set speed is reached. To return to set speed after cancellation, move RESUME switch from ON to OFF position. Vehicle speed should return to previous setting before cancellation. Set speed should cancel when any

CRUISE CONTROL SYSTEM

Article Text (p. 4)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

of the following occurs:

- * Brake pedal is pressed.
- * Clutch pedal is pressed.
- * Transmission is shifted to Neutral or Park.
- * Cruise control main switch is turned off.
- * Ignition switch is turned off.

Stealth & 3000GT

1) Cruise control switch is mounted separately to steering wheel. Turn main cruise control switch to ON position. Cruise control indicator on instrument cluster should come on.

2) To operate cruise control system, turn ignition on. Drive vehicle at desired speed between 25 and 90 MPH. Move cruise control switch downward to set desired speed. Set indicator light should come on.

3) Vehicle speed should stay at set speed. To increase set speed, move control switch upward to RESUME position and hold until new set speed is reached. To lower set speed, move control switch down to COAST position. Hold until new set speed is reached.

4) To return to set speed after cancellation, move control switch upward to RESUME position. Vehicle speed should return to previous setting before cancellation. Set speed should cancel when any of the following occurs:

- * Cruise control switch is pulled toward driver.
- * Brake pedal is pressed.
- * Clutch pedal is pressed.
- * Transmission is shifted to Neutral.

SELF-DIAGNOSTICS

1) Self-diagnostics should be performed when cruise control cancels without driver using normal cancel modes. Self-diagnostic connector is located on right side of fuse box.

2) On Eclipse and Mirage, use Multi-Use Tester (MB991341) or an analog voltmeter for code retrieval. Plug multi-use tester connectors into cigar lighter and self-diagnostic connector. On Colt, Colt 200, Stealth, Summit and 3000GT, use analog voltmeter for code retrieval.

3) On all models, if using voltmeter, connect leads of analog voltmeter between cruise control terminal and ground terminal of diagnostic connector. See Fig. 4 or 5. Read voltmeter needle sweeps to determine trouble code. See Fig. 6.

NOTE: On all models except Stealth & 3000GT, codes No. 15 and 16 will be displayed whether malfunction is present or not. On Stealth & 3000GT, a code 17 will not cause system to cancel.

4) Once trouble codes have been displayed, read TROUBLE CODE CHART to find appropriate CIRCUIT TEST. See Fig. 6. See appropriate CIRCUIT TESTS. To clear trouble codes, disconnect positive battery

CRUISE CONTROL SYSTEM

Article Text (p. 5)

1992 Mitsubishi Mirage

For a a a a

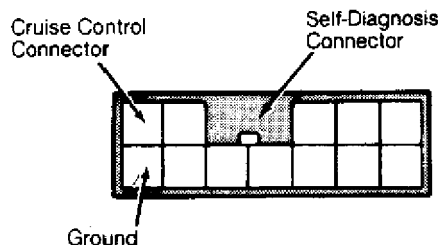
Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

cable or go to next step.

5) Turn ignition on. Turn cruise control set switch on. Turn cruise switch on and, in less than one second after cruise switch is turned on, turn resume switch on.

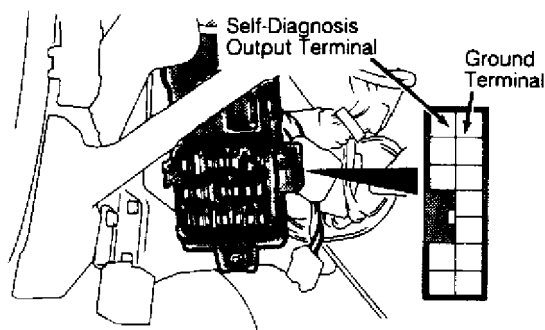
6) Press set switch and brake pedal simultaneously, holding them for more than 5 seconds. Ensure codes are cleared.



COLT, COLT 200, ECLIPSE, MIRAGE & SUMMIT

93G01130

Fig. 4: Self-Diagnostic Connector Terminal ID (Exc. Stealth & 3000GT)
Courtesy of Mitsubishi Motor Co.



STEALTH & 3000GT

93G01823

Fig. 5: Self-Diagnostic Connector Terminal ID (Stealth & 3000GT)
Courtesy of Mitsubishi Motor Co.

CRUISE CONTROL SYSTEM






Article Text (p. 6)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

Code No.	Display patterns (output codes) (Use with voltmeter)	Probable cause	Circuit Test
11		Abnormal condition of auto-cruise vacuum pump drive system	No. 6 ₁
12		Abnormal condition of vehicle speed signal system	No. 5 ₂
15		Control switch malfunction (when SET and RESUME switches switched ON simultaneously for more than 25 seconds)	No. 2, 3 ₃
16		Abnormal condition of auto-cruise control unit	
17		Defective throttle position sensor Defective idle switch	No. 10 ₄

¹ - On Eclipse, Stealth and 3000GT, refer to TEST No. 5

² - On Eclipse, Stealth and 3000GT, refer to TEST No. 4

³ - On Stealth and 3000GT, refer to TEST No. 2

⁴ - On Eclipse, refer to TEST No. 11. On Stealth and 3000GT, refer to TEST No. 7

93101131

Fig. 6: Trouble Code Chart
Courtesy of Mitsubishi Motor Co.

SYSTEM INPUT TESTS

1) System input tests should be performed if no trouble codes are stored when performing SELF-DIAGNOSTICS.

2) System input tests cycle each cruise control switch and sensor. On Eclipse, use Multi-Use Tester (MB991341) or an analog voltmeter for system input check.

3) The multi-use tester setting is the same as setting for self-diagnostic. Plug multi-use tester connectors into cigar lighter and self-diagnostic connector. On Colt, Colt 200, Stealth, Summit and 3000GT use analog voltmeter for system input check.

4) If using voltmeter, connect leads of analog voltmeter between cruise control terminal and ground terminal of diagnostic connector. See Fig. 4 or 5. Turn ignition on. Turn cruise control switch to OFF position. Turn cruise control set switch to ON position.

5) Turn cruise control switch to ON position and within one second turn resume switch to ON position. On all models, perform each switch input test, following INPUT CODE CHART. See Fig. 7 or 8.

6) Cycle each switch until code is displayed. If code is not displayed, that switch or sensor is defective. When each switch or sensor is cycled and signals are reaching control unit, codes will continue to display.

7) When switch or sensor cycling stops, code display stops. If system input tests check okay, check vacuum pump. See TEST NO. 6 under CIRCUIT TESTS (EXCEPT ECLIPSE).

CRUISE CONTROL SYSTEM






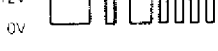


Article Text (p. 7)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM










Check No.	Input operation	Code No.	Display patterns (output codes) (use with voltmeter)	Check results
1	SET switch ON	21	12V 0V 	SET switch circuit normal
2	RESUME switch ON	22	12V 0V 	RESUME switch circuit normal
3	Stop light switch ON (brake pedal depressed)	23	12V 0V 	Stop light switch normal
4	Driving at approximately to 40 km/h (25 mph) or higher	24	12V 0V 	When both No. 4 and No. 5 can be confirmed, vehicle speed sensor circuit normal.
5	Driving at less than approximately 40 km/h (25 mph) or stopped	25	12V 0V 	
6	1. Clutch switch ON (clutch pedal depressed) <M/T> 2. Inhibitor switch ON (shift lever to "N" or "P" range) <A/T>	26	12V 0V 	Clutch switch, inhibitor switch normal
7	Throttle position sensor output voltage 1.5V or more (when accelerator pedal is depressed more than half the way)	28	12V 0V 	Throttle position sensor normal
8	Idle switch OFF (accelerator pedal depressed)	29	12V 0V 	Idle switch normal

93A01132

Coit, Coit 200, Eclipse, Mirage & Summit

Fig. 7: Input Code Chart (Except Stealth & 3000GT)

Courtesy of Mitsubishi Motor Co.

Code No.	Display patterns (output codes) (use with voltmeter)	Input operation		Check results
21		SET switch ON		SET switch circuit normal
22		RESUME switch ON		RESUME switch normal
23		Stop light switch ON (brake pedal depressed)		Stop light switch circuit normal
24		Vehicle speed more than approx. 40 km/h (25 mph)		Vehicle speed sensor circuit normal if code Nos. 24 and 25 are displayed
25		Vehicle speed less than approx. 40 km/h (25 mph)		
26		M/T	Clutch switch ON (clutch pedal depressed)	Clutch switch circuit normal
		A/T	Inhibitor switch ON (SELECT lever placed in "N" position)	Inhibitor switch circuit normal
27		CANCEL switch ON		CANCEL switch circuit normal
28		TPS output voltage 1.5 V or more (Accelerator pedal depressed more than half the way)		Throttle position sensor circuit normal
29		Idle switch OFF (Accelerator pedal depressed)		Idle switch circuit normal

93101824

STEALTH & 3000GT

Fig. 8: Input Code Chart (Stealth & 3000GT)

Courtesy of Mitsubishi Motor Co.

CRUISE CONTROL SYSTEM

Article Text (p. 8)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

Check results	Probable cause	Remedy	Circuit Test
Even if an attempt is made to enter data, no code appears.	Open circuit in auto-cruise control unit power supply circuit	Replace control switch or repair harness.	No. 1
	Open circuit in control switch circuit		
	Defective auto-cruise control unit	Replace auto-cruise control unit.	—
Code No. 21 remains even though SET switch is set to OFF.	SET switch ON malfunction	Replace the control switch.	No. 2
Code No. 22 remains even though RESUME switch is set to OFF.	RESUME switch ON malfunction	Replace the control switch.	No. 3
Code No. 23 does not appear when brake pedal is depressed.	Defective stop light switch circuit	Replace stop light switch or repair harness.	No. 7
Code No. 23 does not disappear when brake pedal is released.			
Code No. 26 does not disappear when clutch pedal is released. <M/T>	Defective clutch switch circuit	Replace clutch switch or repair harness.	No. 8
Code No. 26 does not disappear when SELECT lever is placed in a position other than "N" and "P". <A/T>	Defective inhibitor switch circuit	Replace inhibitor switch or repair harness.	No. 9
Code No. 25 does not appear when vehicle is traveling at less than 40 km/h (25 mph).	Defective vehicle speed sensor circuit	Check or repair vehicle speed sensor circuit.	No. 5
Code No. 25 does not disappear or code No. 24 does not appear when vehicle speed is increased to more than approximately 40 km/h (25 mph).			

93C01133

Fig. 9: Check Results Chart (Colt, Colt 200, Mirage & Summit)
Courtesy of Mitsubishi Motor Co.

CRUISE CONTROL SYSTEM

Article Text (p. 9)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

Trouble symptom	Probable cause	Circuit Test	Remedy
<ul style="list-style-type: none"> • The set vehicle speed varies greatly upward or downward. • "Hunching" (repeated alternating acceleration and deceleration) occurs after setting is made. 	Malfunction of the vehicle speed sensor circuit	No. 5	Repair the vehicle speed sensor system, or replace the part.
	Malfunction of the speedometer cable or speedometer drive gear		
	Auto-cruise vacuum pump circuit poor contact	No. 6	Repair the auto-cruise vacuum pump system, or replace the part.
	Malfunction of the auto-cruise vacuum pump		
	Malfunction of the auto-cruise control unit	—	Replace the auto-cruise control unit.
The auto-cruise control system is not canceled when the brake pedal is depressed.	Brake switch (for auto-cruise control) malfunction (short-circuit)	No. 7	Repair the harness or replace the stop light switch.
	Auto-cruise vacuum pump drive circuit short-circuit	No. 6	Repair the harness or replace the auto-cruise vacuum pump.
	Malfunction of the auto-cruise control unit	—	Replace the auto-cruise control unit.
The auto-cruise control system is not canceled when the clutch pedal is depressed. <M/T> (It is canceled, however, when the brake pedal is depressed.)	Damaged or disconnected wiring of clutch switch input circuit	If the input check code No. 26 indicates a malfunction. No. 8	Repair the harness, or repair or replace the clutch switch.
	Clutch switch improper installation (won't switch ON)		
	Malfunction of the auto-cruise control unit	—	Replace the auto-cruise control unit.
The auto-cruise control system is not canceled when the shift lever is moved to the "N" position. <A/T> (It is canceled, however, when the brake pedal is depressed.)	Damaged or disconnected wiring of inhibitor switch input circuit	If the input check code No. 26 indicates a malfunction. No. 9	Repair the harness, or repair or replace the inhibitor switch.
	Improper adjustment of inhibitor switch		
	Malfunction of the auto-cruise control unit	—	Replace the auto-cruise control unit.

93E01134

Fig. 10: Symptom Chart (Colt, Colt 200, Mirage & Summit - 1 Of 2)
Courtesy of Mitsubishi Motor Co.

CRUISE CONTROL SYSTEM

Article Text (p. 10)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

Trouble symptom	Probable cause	Circuit Test	Remedy
Cannot decelerate by using the SET switch.	Temporary damaged or disconnected wiring of SET switch input circuit	No. 2	Repair the harness or replace the SET switch.
	Auto-cruise vacuum pump circuit poor contact	No. 6	Repair the harness or replace the auto-cruise vacuum pump and actuator.
	Malfunction of the auto-cruise vacuum pump and actuator (including blocking of negative pressure passage)		
	Malfunction of the auto-cruise control unit	—	Replace the auto-cruise control unit.
Cannot accelerate or resume speed by using the RESUME switch.	Open or short circuit in RESUME switch circuit in control switch	No. 3	Replace the control switch.
	Auto-cruise vacuum pump circuit poor contact	No. 6	Repair the harness or replace the auto-cruise vacuum pump and actuator.
	Malfunction of the auto-cruise vacuum pump and actuator (including air leaks from negative pressure passage)		
	Malfunction of the auto-cruise control unit	—	Replace the auto-cruise control unit.
Auto-cruise control system can be set while traveling at a vehicle speed of less than 40 km/h (25 mph), or there is no automatic cancellation at that speed.	Malfunction of the vehicle speed sensor circuit	No. 5	Repair the vehicle speed sensor system, or replace the part.
	Malfunction of the speedometer cable or the speedometer drive gear		
	Malfunction of the auto-cruise control unit	—	Replace the auto-cruise control unit.
The auto-cruise control switch indicator light does not illuminate. (But auto-cruise control system is normal.)	Damaged or disconnected bulb of auto-cruise control switch indicator	No. 4	Repair the harness or replace the control switch.
	Harness damaged or disconnected		
Malfunction of control function by ON/OFF switching of 4 A/T accelerator switch. (Non-operation of damper clutch, 2nd gear hold, etc.)	Malfunction of circuit related to accelerator switch OFF function	No. 11	Repair the harness or replace the part.
	Malfunction of the auto-cruise control unit		
Overdrive is not canceled during fixed speed driving. <A/T>	Malfunction of circuit related to overdrive cancellation, or malfunction of auto-cruise control unit	No. 12	Repair the harness or replace the part.
No shift to overdrive during manual driving. <A/T>			
The auto-cruise control indicator light does not illuminate. (But auto-cruise control system is normal.)	Damaged or disconnected bulb of indicator light	No. 4	Repair the harness or replace the bulb.
	Harness damaged or disconnected		

93H01135

Fig. 11: Symptom Chart (Colt, Colt 200, Mirage & Summit - 2 Of 2)
Courtesy of Mitsubishi Motor Co.

CRUISE CONTROL SYSTEM

Article Text (p. 11)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

Check results	Probable cause	Remedy	Circuit Test
Code 21 remains even though SET switch is set to OFF.	SET switch ON malfunction	Replace the control switch.	No. 2
	SET switch input line short-circuit	Repair the harness.	
Code 22 remains even though RESUME switch is set to OFF.	RESUME switch ON malfunction	Replace the control switch.	No. 3
	RESUME switch input line short-circuit	Repair the harness.	
Code 23 is not canceled even if the stop light switch is turned OFF by releasing the brake pedal.	Malfunction of stop light switch circuit.	Replace stop light switch or repair harness.	No. 6
Code 25 does not disappear, and code 24 does not appear, even though vehicle speed reaches approximately 40 km/h (25 mph) or higher.	Malfunction of the vehicle-speed sensor circuit (damaged or disconnected wiring, or short-circuit)	Check or repair the vehicle speed sensor circuit.	No. 4
Code 26 is not canceled even if the clutch switch is turned OFF by releasing the clutch pedal.	Malfunction of clutch switch circuit.	Replace clutch switch or repair harness.	No. 8
Code 26 is not canceled even if the select lever is moved to anything but N, P <A/T>.	Malfunction of inhibitor switch circuit.	Replace inhibitor switch or repair harness.	No. 7

93J01136

Fig. 12: Check Results Chart (Eclipse)
Courtesy of Mitsubishi Motor Co.

Trouble symptom	Probable cause	Circuit Test	Remedy
Cannot accelerate or resume speed by using the RESUME switch.	Damaged or disconnected wiring, or short circuit, of RESUME switch input circuit	No. 3	Repair the harness or replace the RESUME switch.
	Auto-cruise vacuum pump circuit poor contact	No. 5	Repair the harness or replace the auto-cruise vacuum pump and actuator.
	Malfunction of the auto-cruise vacuum pump and actuator (including air leak from negative pressure passage)		
	Malfunction of the ECU		Replace the ECU.
Auto-cruise control system can be set while traveling at a vehicle speed of less than 40 km/h (25 mph), or there is no automatic cancellation at that speed.	Malfunction of the vehicle-speed sensor circuit	No. 4	Repair the vehicle-speed sensor system, or replace the part.
	Malfunction of the speedometer cable or the speedometer drive gear		
	Malfunction of the ECU		Replace the ECU.
The indicator light of combination meter does not illuminate (But auto-cruise control system is normal.)	Damaged or disconnected bulb of indicator light	—	Repair the harness or replace the bulb.
	Harness damaged or disconnected		
Malfunction of control function by ON/OFF switching of ELC 4 A/T accelerator switch (Non-operation of damper clutch, 2nd gear hold, etc.)	Malfunction of circuit related to accelerator switch OFF function	No. 9	Repair the harness or replace the part.
	Malfunction of the ECU		
Overdrive is not canceled during fixed speed driving. <A/T>	Malfunction of circuit related to overdrive cancellation, or malfunction of ECU	No. 10	Repair the harness or replace the part.
No shift to overdrive during manual driving. <A/T>			

93R01R25

Fig. 13: Symptom Chart (Eclipse - 1 Of 2)
Courtesy of Mitsubishi Motor Co.

CRUISE CONTROL SYSTEM

Article Text (p. 12)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

Trouble symptom	Probable cause	Circuit Test	Remedy
<ul style="list-style-type: none"> The set vehicle speed varies greatly upward or downward. "Hunching" (repeated alternating acceleration and deceleration) occurs after setting is made. 	Malfunction of the vehicle speed sensor circuit	No. 4	Repair the vehicle speed sensor system, or replace the part.
	Malfunction of the speedometer cable or speedometer drive gear		
	Auto-cruise vacuum pump circuit poor contact	No. 5	Repair the auto-cruise vacuum pump or replace the part.
	Malfunction of the auto-cruise vacuum pump		
	Malfunction of the ECU	—	Replace the ECU.
The auto-cruise control system is not canceled when the brake pedal is depressed.	Damaged or disconnected wiring of the stop light switch input circuit; brake switch (for auto-cruise control) malfunction (short-circuit)	If the input check code No. 23 indicates a malfunction. No. 6	Repair the harness or replace the stop light switch.
	Auto-cruise vacuum pump drive circuit short-circuit.	No. 5	Repair the harness or replace the auto-cruise vacuum pump.
	Malfunction of the ECU	—	Replace the ECU.
The auto-cruise control system is not canceled when the clutch pedal is depressed. (vehicles with a manual transaxle) (It is canceled, however, when the brake pedal is depressed.)	Damaged or disconnected wiring of clutch switch input circuit	If the input check code No. 26 indicates a malfunction. No. 8	Repair the harness, or repair or replace the clutch switch.
	Clutch switch improper installation (won't switch ON)		
	Malfunction of the ECU	—	Replace the ECU.
The auto-cruise control system is not canceled when the shift lever is moved to the "N" position. (vehicles with an automatic transaxle) (It is canceled, however, when the brake pedal is depressed.)	Damaged or disconnected wiring of inhibitor switch input circuit	If the input check code No. 26 indicates a malfunction. No. 7	Repair the harness, or repair or replace the inhibitor switch.
	Improper adjustment of inhibitor switch		
	Malfunction of the ECU	—	Replace the ECU.
Cannot decelerate by using the SET switch	Temporary damaged or disconnected wiring of SET switch input circuit	No. 2	Repair the harness or replace the SET switch.
	Auto-cruise vacuum pump circuit poor contact	No. 5	Repair the harness or replace the auto-cruise vacuum pump and actuator.
	Malfunction of the auto-cruise vacuum pump and actuator (including clogging of negative pressure passage)		
	Malfunction of the ECU	—	Replace the ECU.

93B01137

Fig. 14: Symptom Chart (Eclipse - 2 Of 2)

Courtesy of Mitsubishi Motor Co.

CRUISE CONTROL SYSTEM

Article Text (p. 13)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

Result of check	Probable cause	Remedy	Circuit Test
None of the codes appear even if input operations are performed.	Open circuit in control unit power supply circuit.	Replace main switch or repair harness.	No. 1
	Open circuit in control switch circuit	Replace control switch or repair harness.	No. 2
	Defective control unit	Replace control unit.	-
Even when SET switch is set to OFF, code No. 21 does not go away.	SET switch ON malfunction	Replace the control switch.	No. 2
Even when RESUME switch is set to OFF, code No. 22 does not go away.	RESUME switch ON malfunction	Replace control switch.	No. 2
Even when CANCEL switch is set to OFF, code No. 27 does not go away.	CANCEL switch ON malfunction	Replace control switch.	No. 2
Even when brake pedal is depressed, code No. 23 is not displayed.	Defective stop light switch circuit	Replace stop light switch or repair harness.	No. 7
Even when brake pedal is released, code No. 23 does not go away.			
Even when clutch pedal is released, code No. 26 does not go away. <M/T>	Defective clutch switch circuit	Replace clutch switch or repair harness.	No. 8
Even when select lever is placed in any position other than "N" and "P", code No. 26 does not go away. <A/T>	Defective inhibitor switch circuit	Replace inhibitor switch or repair harness.	No. 9
Code No. 25 is not displayed even when vehicle speed is less than about 40 km/h (25 mph).	Defective vehicle speed sensor circuit	Check and repair vehicle speed sensor circuit.	No. 5
Even when vehicle speed is increased to more than about 40 km/h (25 mph), code No. 25 does not go away. Code No. 24 is not displayed, either.			

93D01138

Fig. 15: Check Results Chart (Stealth & 3000GT)
Courtesy of Mitsubishi Motor Co.

CRUISE CONTROL SYSTEM

Article Text (p. 14)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

Trouble symptom	Probable cause	Circuit Test	Remedy
<ul style="list-style-type: none"> The set vehicle speed varies greatly upward or downward. "Hunching" (repeated alternating acceleration and deceleration) occurs after setting is made. 	Malfunction of the vehicle speed sensor circuit	No. 5	Repair the vehicle speed sensor system, or replace the part.
	Malfunction of the speedometer cable or speedometer drive gear <Non turbo>		
	Vacuum pump assembly circuit poor contact	No. 6	Repair the actuator system, or replace the part.
	Malfunction of the vacuum pump assembly (including air leaks from negative pressure passage)		
The cruise control system is not canceled when the brake pedal is depressed.	Malfunction of the ECU	-	Replace the ECU.
	Brake switch (for cruise control) malfunction (short-circuit)	No. 7	Repair the harness or replace the stop light switch.
	Vacuum pump assembly drive circuit short-circuit	No. 6	Repair the harness or replace the vacuum pump assembly.
The cruise control system is not canceled when the clutch pedal is depressed. <M/T> (It is canceled, however, when the brake pedal is depressed.)	Malfunction of the ECU	-	Replace the ECU.
	Damaged or disconnected wiring of clutch switch input circuit	If the input check code No. 26 indicates a malfunction.	Repair the harness, or repair or replace the clutch switch.
	Clutch switch improper installation (won't switch ON)	No. 8	
The cruise control system is not canceled when the shift lever is moved to the "N" position. <A/T> (It is canceled, however, when the brake pedal is depressed.)	Malfunction of the ECU	-	Replace the ECU.
	Damaged or disconnected wiring of inhibitor switch input circuit	If the input check code No. 26 indicates a malfunction.	Repair the harness, or repair or replace the inhibitor switch.
	Improper adjustment of inhibitor switch	No. 9	
Cannot decelerate by using the SET switch.	Malfunction of the ECU	-	Replace the ECU.
	Temporary damaged or disconnected wiring of control switch input circuit	No. 2	Repair the harness or replace the control switch.
	Vacuum pump assembly circuit poor contact	No. 6	Repair the harness or replace the vacuum pump assembly.
	Malfunction of the vacuum pump assembly		
	Malfunction of the ECU	-	Replace the ECU.

93F01139

Fig. 16: Symptom Chart (Stealth & 3000GT - 1 Of 2)

Courtesy of Mitsubishi Motor Co.

CRUISE CONTROL SYSTEM

Article Text (p. 15)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

Trouble symptom	Probable cause	Circuit Test	Remedy
Cannot accelerate or resume speed by using the RESUME switch	Open or short circuit in RESUME switch circuit in control switch	No. 2	Replace the control switch
	Vacuum pump assembly circuit poor contact	No. 6	Repair the harness or replace the vacuum pump assembly.
	Malfunction of the vacuum pump assembly (including air leaks from negative pressure passage)		
	Malfunction of the ECU	—	Replace the ECU.
Even when CANCEL switch is set to ON, cruise control is not canceled (Cruise control, however, is canceled when brake pedal is depressed.)	Open or short circuit in CANCEL switch circuit in control switch	If the input check code No. 27 indicates a malfunction. No. 2	Replace the control switch
	Malfunction of the ECU	—	Replace the ECU
The cruise control system can be set while traveling at a vehicle speed of less than 40 km/h (25 mph), or there is no automatic cancellation at that speed.	Malfunction of the vehicle-speed sensor circuit	No. 5	Repair the vehicle speed sensor system, or replace the part.
	Malfunction of the speedometer cable or the speedometer drive gear <Non turbo>		
	Malfunction of the ECU	—	Replace the ECU.
The cruise control indicator light of the combination meter does not illuminate. (But cruise control system is normal)	Damaged or disconnected bulb of indicator light	No. 4	Repair the harness or replace the light bulb.
	Harness damaged or disconnected		
	Malfunction of the ECU	—	Replace the ECU.
Cruise control ON indicator light does not come on. (However, cruise control is functional.)	Burned-out indicator light bulb	No. 4	Repair the harness or replace the main switch.
	Open or short circuit in harness		
Malfunction of control function by ON/OFF switching of ELC 4 A/T accelerator switch. (Non-operation of damper clutch, 2nd gear hold, etc.)	Malfunction of circuit related to accelerator switch OFF function	No. 11	Repair the harness or replace the part.
	Malfunction of the ECU		
Overdrive is not canceled during fixed speed driving <A/T>	Malfunction of circuit related to overdrive cancellation, or malfunction of ECU	No. 12	Repair the harness or replace the part.
No shift to overdrive during manual driving. <A/T>			

93H01140

Fig. 17: Symptom Chart (Stealth & 3000GT - 2 Of 2)
Courtesy of Mitsubishi Motor Co.

CIRCUIT TESTS (EXCEPT ECLIPSE)

NOTE: To identify circuit connector terminals, See Figs. 19-32. For wiring diagrams, See appropriate chassis wiring diagrams in this Section. For 1992 model wiring diagrams, See appropriate chassis wiring diagrams in the WIRING DIAGRAMS section.

Test No. 1 (Power Supply Circuit)

1) When cruise control switch is turned to ON position, battery voltage should be present on terminal No. 2 of control unit.

CRUISE CONTROL SYSTEM

Article Text (p. 16)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

If voltage is not present, check fuse No. 2 and replace as necessary. If fuse is okay, replace switch or repair harness.

2) Control unit should be grounded at all times through terminals No. 8 and 14. If circuit is not grounded, repair harness. On Colt, Colt 200, Mirage and Summit, control unit back-up power supply should have battery voltage at all times through terminal No. 16. If voltage is not present, check fuse No. 8 and replace as necessary. If fuse is okay, replace switch or repair harness.

Test No. 2 (Set & Coast Switch Ckt, Exc. Stealth & 3000GT)

When set switch is turned to ON position, voltage should not be present on terminal No. 17 of control unit. When set switch is turned to OFF position, battery voltage should be present on terminal No. 17 of control unit. If circuit does not test correctly, replace switch or repair harness.

Test No. 2 (Set, Resume/Cancel Switch Ckt, Stealth & 3000GT)

1) When all switches are turned to OFF position, voltage should not be present on terminal No. 18 of cruise control unit. When set switch is turned to ON position, 3 volts should be present on terminal No. 18 of control unit.

2) When resume switch is turned to ON position, 6 volts should be present on terminal No. 18 of control unit. When resume switch is turned to OFF position, voltage should be present on terminal No. 18 of control unit.

3) When cancel switch is turned to ON position, battery voltage should be present on terminal No. 18 of control unit. When cancel switch is turned to OFF position, voltage should not be present on terminal No. 18 of control unit. If circuit does not test correctly, replace switch or repair harness.

Test No. 3 (Resume Switch Circuit)

When resume switch is turned to ON position, voltage should not be present on terminal No. 18 of control unit. When resume switch is turned to OFF position, battery voltage should be present on terminal No. 18 of control unit. If circuit does not test correctly, replace switch or repair harness.

Test No. 4 (Indicator Light Circuit)

When cruise control is active, battery voltage should be present on terminal No. 23 of control unit. When cruise control is turned to OFF position, voltage should not be present on terminal No. 23 of control unit. If circuit does not test correctly, replace switch or repair harness.

Test No. 5 (Vehicle Speed Sensor Circuit)

When vehicle moves slowly, voltage should alternate from zero volts to 2 or more volts at terminal No. 19 of control unit. If circuit does not test correctly, replace sensor or repair harness.

Test No. 6 (Vacuum Pump Circuit)

1) When release valve is on, battery voltage should not be

CRUISE CONTROL SYSTEM

Article Text (p. 17)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

present on terminal No. 9 (No. 12 on Stealth and 3000GT) of control unit. When release valve is off, battery voltage should be present on terminal No. 9 (No. 12 on Stealth and 3000GT) of control unit.

2) When control valve is on, battery voltage should not be present on terminal No. 13 of control unit. When control valve is off, battery voltage should be present on terminal No. 13 of control unit.

3) When DC motor is driven, battery voltage should not be present on terminal No. 26 of control unit. When DC motor is stopped, battery voltage should be present on terminal No. 26 of control unit.

4) When cruise control switch is turned to ON position, battery voltage should be present on terminal No. 25 of control unit. When DC motor is stopped, battery voltage should be present on terminal No. 26 of control unit. See Fig. 18. If circuit does not test correctly, replace vacuum pump or repair harness.

Auto-cruise control operations	DC motor (ON: Current supplied OFF: No current supplied)	Solenoid valve (ON: Closed OFF: Opened)	
		Control valve	Release valve
Acceleration	ON	ON	ON
Hold	OFF	ON	ON
Deceleration	OFF	OFF	ON
Cancellation	OFF	OFF	OFF

93.101141

Fig. 18: Testing Vacuum Pump Circuit
Courtesy of Mitsubishi Motor Co.

Test No. 7 (Stoplight Switch Circuit)

When brake pedal is pressed, battery voltage should be present on terminal No. 15 of control unit. When brake pedal is released, voltage should not be present on terminal No. 15 of control unit. If circuit does not test correctly, replace switch or repair harness.

Test No. 8 (Clutch Switch Circuit)

When clutch pedal is pressed, battery voltage should not be present on terminal No. 1 of control unit. When clutch pedal is released, voltage should be present on terminal No. 1 of control unit. If circuit does not test correctly, replace switch or repair harness.

Test No. 9 (Inhibitor Switch Circuit)

1) When inhibitor switch is placed in Neutral or Park, battery voltage should not be present on terminal No. 1 of control unit.

2) When inhibitor switch is placed in drive, second, low or

CRUISE CONTROL SYSTEM

Article Text (p. 18)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

reverse positions, battery voltage should be present on terminal No. 1 of control unit. If circuit does not test correctly, replace switch or repair harness.

Test No. 10 (Throttle Position Sensor & Idle Switch Circuit)

1) When checking idle switch, if accelerator pedal is pressed, battery voltage should be present on terminal No. 4 of control unit. When accelerator pedal is released, battery voltage should not be present on terminal No. 4 of control unit.

2) When checking throttle position sensor, if throttle valve is in idle position, .45-.55 volts (.48-.72 volts on Stealth and 3000GT) should be present on terminal No. 5 of control unit.

3) When throttle valve is in wide open throttle position, 4.5-5.5 volts should be present on terminal No. 5 of control unit. If circuit does not test correctly, replace switch or repair harness.

Test No. 11 (Accelerator Switch Circuit)

1) When ignition switch is in ON position, battery voltage should be present on terminal No. 3 of control unit. When accelerator pedal is pressed, battery voltage should not be present on terminal No. 9 of control unit.

2) When accelerator pedal is released, battery voltage should be present on terminal No. 9 of control unit. If circuit does not test correctly, replace switch or repair harness.

Test No. 12 (Overdrive Cancellation Circuit)

1) When ignition switch is in ON position, battery voltage should be present on terminal No. 3 of control unit. When overdrive is activated, battery voltage should be present on terminal No. 10 of control unit.

2) When overdrive is off, battery voltage should not be present on terminal No. 10 of control unit. When overdrive switch is in ON position, battery voltage should be present on terminal No. 11 of control unit.

3) When overdrive switch is in OFF position, battery voltage should not be present on terminal No. 11 of control unit. If circuit does not test correctly, replace switch or repair harness.



CRUISE CONTROL
UNIT CONNECTOR
(ALL MODELS)

93B01142

Fig. 19: Cruise Control Unit Connector (All Models)
Courtesy of Mitsubishi Motor Co.

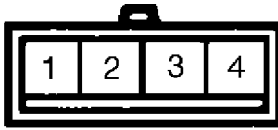
CRUISE CONTROL SYSTEM

Article Text (p. 19)

1992 Mitsubishi Mirage

For a a a a

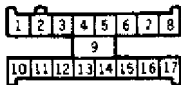
Copyright © 1998 Mitchell Repair Information Company, LLC
Monday, April 01, 2002 09:56AM



93D01826

Fig. 20: Cruise Control Switch Connector (Exc. Eclipse, Stealth & 3000GT)

Courtesy of Mitsubishi Motor Co.



INSTRUMENT CLUSTER
CONNECTOR (ALL MODELS)

93F01827

Fig. 21: Instrument Cluster Connector (All Models)

Courtesy of Mitsubishi Motor Co.



VACUUM PUMP
CONNECTOR (ALL MODELS)

93H01828

Fig. 22: Vacuum Pump Connector (All Models)

Courtesy of Mitsubishi Motor Co.

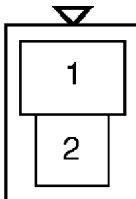


STOPLIGHT SWITCH
CONNECTOR

93J01829

Fig. 23: Stoplight Switch Connector (All Models)

Courtesy of Mitsubishi Motor Co.



93B01830

Fig. 24: Clutch & Accelerator Switch Connector (All Models)

Courtesy of Mitsubishi Motor Co.

CRUISE CONTROL SYSTEM

Article Text (p. 20)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM



PARK/NEUTRAL SWITCH
CONNECTOR
(ECLIPSE)

93D01831

Fig. 25: Inhibitor Switch Connector (All Models)
Courtesy of Mitsubishi Motor Co.



93F01832

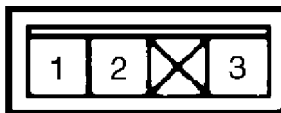
Fig. 26: Motor Position Sensor Connector (Exc. Eclipse, Stealth &
3000GT)
Courtesy of Mitsubishi Motor Co.



THROTTLE POSITION
SENSOR CONNECTOR
(ALL MODELS)

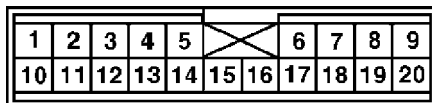
93H01833

Fig. 27: Throttle Position Sensor Connector (All Models)
Courtesy of Mitsubishi Motor Co.



93J01834

Fig. 28: Overdrive Switch Connector (All Models)
Courtesy of Mitsubishi Motor Co.



93C01835

Fig. 29: Cruise Control Switch Connector (Eclipse)
Courtesy of Mitsubishi Motor Co.

CRUISE CONTROL SYSTEM

Article Text (p. 21)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

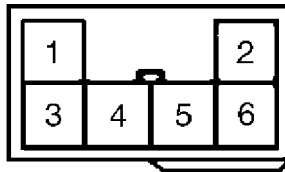
Monday, April 01, 2002 09:56AM



OVERDRIVE SWITCH
CONNECTOR (ECLIPSE)

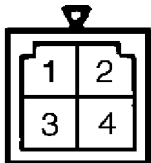
93E01836

Fig. 30: Overdrive Switch Connector (Eclipse)
Courtesy of Mitsubishi Motor Co.



93G01837

Fig. 31: Main Cruise Control Switch Connector (Stealth & 3000GT)
Courtesy of Mitsubishi Motor Co.



93I01838

Fig. 32: Cruise Control Relay Connector (1992 Stealth & 3000GT)
Courtesy of Mitsubishi Motor Co.

CIRCUIT TESTS (ECLIPSE)

NOTE: To identify circuit connector terminals, See Figs. 19-32. For wiring diagrams, See appropriate chassis wiring diagram in this Section. For 1992 model wiring diagrams, See appropriate chassis wiring diagrams in the WIRING DIAGRAMS Section.

Test No. 1 (Power Supply Circuit)

1) When cruise control switch is turned to ON position, battery voltage should be present on terminal No. 2 of control unit connector. If battery voltage is not present, check fuse No. 11.

2) If fuse is okay, repair harness. Control unit should be grounded at all times through terminals No. 8 and 14. If circuit is not grounded, repair harness.

Test No. 2 (Set & Coast Switch Circuits)

CRUISE CONTROL SYSTEM

Article Text (p. 22)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

When set switch is turned to ON position, voltage should not be present on terminal No. 17 of control unit. When set switch is turned to OFF position, voltage should be present on terminal No. 17 of control unit. If circuit does not test correctly, replace switch or repair harness.

Test No. 3 (Resume Switch Circuit)

When resume switch is turned to ON position, voltage should not be present on terminal No. 18 of control unit. When resume switch is turned to off position, voltage should be present on terminal No. 18 of control unit. If circuit does not test correctly, replace switch or repair harness.

Test No. 4 (Vehicle Speed Sensor Circuit)

When vehicle moves slowly, voltage should alternate from zero volts to 2 or more volts at terminal No. 19 of control unit. If circuit does not test correctly, replace sensor or repair harness.

Test No. 5 (Vacuum Pump Circuit)

1) When release valve is in release mode, battery voltage should be present on terminal No. 12 of control unit. When release valve is in acceleration or deceleration mode, voltage should not be present on terminal No. 12 of control unit.

2) When control valve is in release or deceleration modes, battery voltage should be present on terminal No. 13 of control unit. When control valve is in acceleration mode, battery voltage should not be present on terminal No. 13 of control unit.

3) When vacuum pump is in release or deceleration mode, battery voltage should be present on terminal No. 26 of control unit. When vacuum pump is in acceleration mode, battery voltage should not be present on terminal No. 26 of control unit. If circuit does not test correctly, replace vacuum pump or repair harness.

Test No. 6 (Stoplight Switch Circuit)

When brake pedal is pressed, battery voltage should be present on terminal No. 15 of control unit. When brake pedal is released, voltage should not be present on terminal No. 15 of control unit. If circuit does not test correctly, replace switch or repair harness.

Test No. 7 (Inhibitor Switch Circuit)

1) When inhibitor switch is placed in "N" or "P", battery voltage should not be present on terminal No. 1 of control unit.

2) When inhibitor switch is placed in "D", "2", "L" or "R" position, battery voltage should be present on terminal No. 1 of control unit. If circuit does not test correctly, replace switch or repair harness.

Test No. 8 (Clutch Switch Circuit)

When clutch pedal is pressed, battery voltage should not be present on terminal No. 1 of control unit. When clutch pedal is released, voltage should be present on terminal No. 1 of control unit.

CRUISE CONTROL SYSTEM

Article Text (p. 23)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

If circuit does not test correctly, replace switch or repair harness.

Test No. 9 (Accelerator Switch Circuit)

1) When ignition switch is in ON position, battery voltage should be present on terminal No. 3 of control unit. When accelerator pedal is pressed, battery voltage should not be present on terminal No. 9 of control unit.

2) When accelerator pedal is released, battery voltage should be present on terminal No. 9 of control unit. If circuit does not test correctly, replace switch or repair harness.

Test No. 10 (Overdrive Cancellation Circuit)

1) When ignition switch is in ON position, battery voltage should be present on terminal No. 3 of control unit. When overdrive is activated, battery voltage should be present on terminal No. 10 of control unit.

2) When overdrive is off, battery voltage should not be present on terminal No. 10 of control unit. When overdrive switch is in ON position, battery voltage should be present on terminal No. 11 of control unit.

3) When overdrive switch is in OFF position, battery voltage should not be present on terminal No. 11 of control unit. If circuit does not test correctly, replace switch or repair harness.

Test No. 11 (Throttle Position Sensor & Idle Switch Circuit)

1) When checking idle switch, if accelerator pedal is pressed, battery voltage should be present on terminal No. 4 of control unit. When accelerator pedal is released, battery voltage should not be present on terminal No. 4 of control unit.

2) When checking throttle position sensor, if throttle valve is in idle position, .45-.55 volts should be present on terminal No. 5 of control unit. When throttle valve is in wide open throttle position, 4.5-5.5 volts should be present on terminal No. 5 of control unit. If circuit does not test correctly, replace switch or repair harness.

CRUISE CONTROL SWITCHES, RELAYS & SENSORS TESTS

Resume & Set Switch (Colt, Colt 200, Mirage & Summit)

1) Remove knee protector or lower panel assembly and column cover. Disconnect 4-pin cruise control switch connector. For resume circuit, check continuity between terminal No. 1 and ground wire.

2) For set circuit, check continuity between terminal No. 2 and ground wire. If continuity is not present, replace cruise control switch.

Resume & Set Switch (Eclipse)

1) Remove knee protector and lower column cover. Disconnect cruise control switch connector. With switch in resume position, continuity should exist between terminals No. 13 and 19.

2) With switch in set position, continuity should exist between terminals No. 13 and 8. If continuity is not present, replace

CRUISE CONTROL SYSTEM

Article Text (p. 24)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

cruise control switch.

CAUTION: On Stealth and 3000GT, the capacitor in the SRS diagnostic unit holds enough voltage to deploy air bag even after battery cable has been disconnected. Remove negative battery cable and wait for more than 30 seconds before removing air bag module.

Resume & Set Switch (Stealth & 3000GT)

1) Remove air bag module. See AIR BAG MODULE under REMOVAL & INSTALLATION. Disconnect cruise control switch 2-pin connector.

2) With switch in OFF position, continuity should not be present between terminals. When switch is pulled toward you for cancel mode, zero ohms should be present.

3) When switch is in RESUME position, resistance should be 820 ohms. When switch is in SET position, resistance should be 2700 ohms. Replace cruise control switch if resistance is not correct.

Main Switch (Stealth & 3000GT)

1) Pry main switch bezel with switch from console. Check continuity in each switch position. With switch in OFF position, continuity should be present between terminals No. 1 and 2 for illumination light circuit. See Figs. 19-32.

2) With switch in Neutral position, continuity should be present between terminals No. 1 and 2, and between terminals No. 4 and 5. With switch in ON position, continuity should be present between terminals No. 1 and 2, and between terminals No. 3, 4 and 5. If continuity is not present, replace main switch.

Cruise Control Relay (1992 Stealth & 3000GT)

1) Remove relay. Relay is located behind center of dash, below radio. Continuity should be present between terminals No. 2 and 4. See Figs. 19-32.

2) Apply battery voltage to terminal No. 2 and ground terminal No. 4. Continuity should be present between terminals No. 1 and 3. If continuity is not correct, replace cruise control relay.

Brakelight/Stoplight Switch

Disconnect switch connector. When brake pedal is pressed, continuity should exist between terminals No. 2 and 3. See Figs. 19-32. When brake pedal is released, continuity should exist between terminals No. 1 and 4. If continuity is not correct, replace switch.

Clutch Switch

Disconnect switch connector. Continuity should be present between clutch switch terminals when clutch pedal is pressed. If continuity is not correct, replace switch.

Inhibitor Switch

Disconnect switch connector. Continuity should exist between connector terminals No. 8 and 9 when shift lever is in "P" or "N". See Figs. 19-32. If continuity is not correct, replace switch.

CRUISE CONTROL SYSTEM

Article Text (p. 25)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

Throttle Position Switch

1) Disconnect throttle position sensor connector. Measure resistance between terminals No. 1 and 4. See Figs. 19-32. Resistance should be 3.5-6.5 ohms.

2) Connect an analog voltmeter between terminals No. 2 and 4. See Figs. 19-32. Operate throttle valve slowly from idle to wide open throttle. Resistance should change smoothly as throttle valve is opened and closed. Replace throttle position sensor as necessary.

Idle Position Switch

1) Disconnect switch connector. Idle position switch is incorporated in throttle position switch. Continuity should exist between terminals No. 3 and 4 with accelerator pedal released. See Figs. 19-32.

2) With accelerator pedal pressed, continuity should not be present between terminals No. 3 and 4. Replace idle position switch if continuity is not correct.

ACCELERATOR SWITCH TEST

NOTE: Accelerator pedal switch testing information is not available from manufacturer.

VACUUM PUMP ASSEMBLY TEST

Solenoid Valves

Remove vacuum pump connector. Resistance should be 50-60 ohms between terminals No. 1 and 2, and between terminals No. 1 and 3. See Figs. 19-32. Ensure solenoid valve makes operating noise when battery voltage is applied between terminals No. 1 and 2, and between terminals No. 1 and 3. If solenoid valve does not make noise, replace vacuum pump assembly.

Pump Motor

Remove vacuum pump connector. Apply battery voltage between terminals No. 1 and 4. See Figs. 19-32. Motor should operate. Replace motor if it does not operate.

ACTUATOR TEST

Remove actuator. Apply vacuum to actuator. Actuator linkage holder should move more than 1.38" (35 mm). Actuator diaphragm should hold vacuum.

VEHICLE SPEED SENSOR

Colt, Colt 200, Eclipse, Mirage & Summit

1) Remove instrument cluster. See INSTRUMENT CLUSTER under REMOVAL & INSTALLATION. On Colt, Colt 200, Mirage and Summit, check continuity between vehicle speed sensor terminals No. 1 and 2. See Figs. 33-36. On Eclipse, check continuity between vehicle speed sensor

CRUISE CONTROL SYSTEM

Article Text (p. 26)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

terminals.

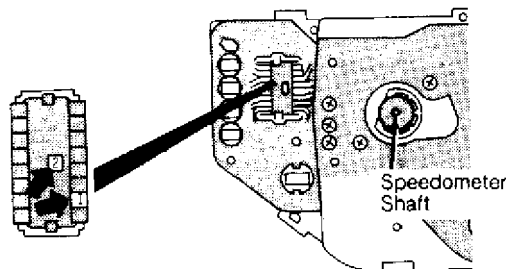
2) Ensure continuity pulses on and off 4 times per revolution of speedometer shaft connection. If continuity is not as specified, replace sensor.

Stealth & 3000GT (Non-Turbo)

Remove instrument cluster. See INSTRUMENT CLUSTER under REMOVAL & INSTALLATION. Connect circuit tester to speed sensor terminals. See Figs. 33-36. When speedometer shaft is turned several times, circuit tester should turn on and off several times. Replace speed sensor if operation is not correct.

Stealth & 3000GT (Turbo)

Remove speed sensor. See INSTRUMENT CLUSTER under REMOVAL & INSTALLATION. Connect battery, resistor (3-10 ohms) and voltmeter to speed sensor terminals. See Figs. 33-36. When speedometer shaft is turned several times, voltage should pulse 4 times each revolution. Replace speed sensor if operation is not correct.

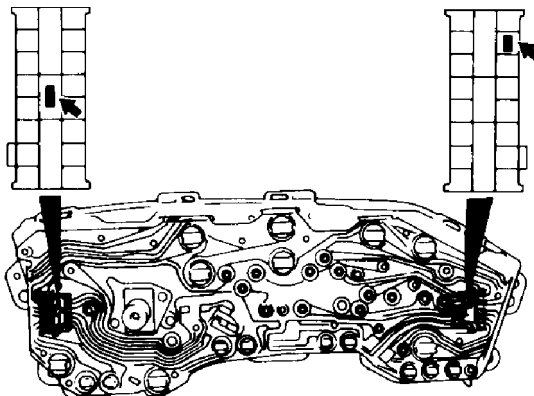


COLT, COLT 200, MIRAGE & SUMMIT

93D01143

Fig. 33: Checking Speed Sensor Circuit (Colt, Colt 200, Mirage & Summit)

Courtesy of Mitsubishi Motor Co.



93A01839

Fig. 34: Checking Speed Sensor Circuit (Eclipse)

Courtesy of Mitsubishi Motor Co.

CRUISE CONTROL SYSTEM

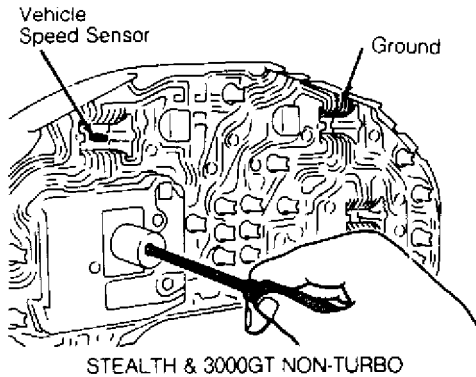
Article Text (p. 27)

1992 Mitsubishi Mirage

For a a a a

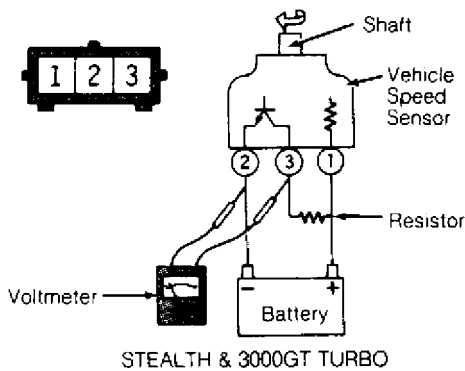
Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM



93C01840

Fig. 35: Checking Speed Sensor Circuit (Stealth & 3000GT Non-Turbo)
Courtesy of Mitsubishi Motor Co.



93E01841

Fig. 36: Checking Speed Sensor Circuit (Stealth & 3000GT Turbo)
Courtesy of Mitsubishi Motor Co.

REMOVAL & INSTALLATION

AIR BAG MODULE

CAUTION: The capacitor in the SRS diagnostic unit holds enough voltage to deploy air bag even after battery cable has been disconnected. Remove negative battery cable and wait for more than 30 seconds before removing air bag module.

Removal & Installation (Stealth & 3000GT)

1) Remove air bag module mounting nuts from back of steering wheel. When disconnecting clockspring connector, press connector toward the outer side to spread it open.

2) Disconnect clockspring connector from air bag module. DO NOT apply excessive force to connector. Lay air bag with pad cover face up. To install, reverse removal procedure.

ACTUATOR

CRUISE CONTROL SYSTEM

Article Text (p. 28)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

Removal & Installation

Remove linkage protector. Remove cruise control cable. Remove accelerator and throttle cables. Disconnect vacuum hoses and electrical connectors. Remove linkage assembly. Remove vacuum pump and bracket. Remove actuator and bracket. To install, reverse removal procedure.

STEERING COLUMN SWITCH

WARNING: DO NOT hammer steering wheel. Collapsible steering column mechanism may be damaged.

Removal & Installation (Colt, Colt 200, Eclipse, Mirage & Summit)

Remove knee protector and lower panel. Remove column covers. Remove horn pad and steering wheel. Remove clip and column switch. To install, reverse removal procedure.

CRUISE CONTROL SWITCH

Colt, Colt 200, Eclipse, Mirage & Summit
See STEERING COLUMN SWITCH in this article.

Stealth & 3000GT

Remove air bag module and bracket. See AIR BAG MODULE in this article. Remove cruise control switch. To install, reverse removal procedure.

VEHICLE SPEED SENSOR

Removal & Installation

Remove instrument cluster. See INSTRUMENT CLUSTER in this article. Speed sensor is located in speedometer. To install, reverse removal procedure.

INDICATOR LIGHT

Removal & Installation

Indicator light is located in instrument cluster. Remove instrument cluster. See INSTRUMENT CLUSTER in this article. To install, reverse removal procedure.

INSTRUMENT CLUSTER

Removal & Installation

(Colt, Colt 200, Mirage, Stealth, Summit & 3000GT)

1) Disconnect negative battery cable. Remove center panel, knee protector, gauge bezel, combination meter and adapter. Remove bulb socket, bulb, gauge glass and speedometer.

2) Remove gauge cluster (or tachometer and gauge), left indicator lens and turn and high beam indicator lens. Remove A/T position indicator light, lens, printed circuit board and meter case.

CRUISE CONTROL SYSTEM

Article Text (p. 29)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM

To install, reverse removal procedure.

Eclipse

1) Disconnect negative battery cable. Remove cluster cover. Remove cluster mounting screws. Remove cluster by turning upper part toward front. Disconnect all necessary electrical connectors. Remove instrument cluster.

2) Disconnect speedometer cable at transaxle end. Pull speedometer cable slightly toward vehicle interior. Release adapter by turning left or right, and remove adapter. To install, reverse removal procedure.

CONTROL UNIT

Removal & Installation (Colt, Colt 200, Mirage & Summit)

Cruise control unit is located behind left side of lower dash, behind fuse block. Remove mounting screws and remove control unit. To install, reverse removal procedure.

Removal & Installation (Eclipse)

Cruise control unit is located behind left kick panel. Remove kick panel and cruise control unit. To install, reverse removal procedure.

Removal & Installation (Stealth & 3000GT)

Cruise control unit is located behind right kick panel. Remove kick panel and cruise control unit. To install, reverse removal procedure.

WIRING DIAGRAMS

For 1992 model wiring diagrams, See appropriate chassis wiring diagram in the WIRING DIAGRAMS Section.

CRUISE CONTROL SYSTEM

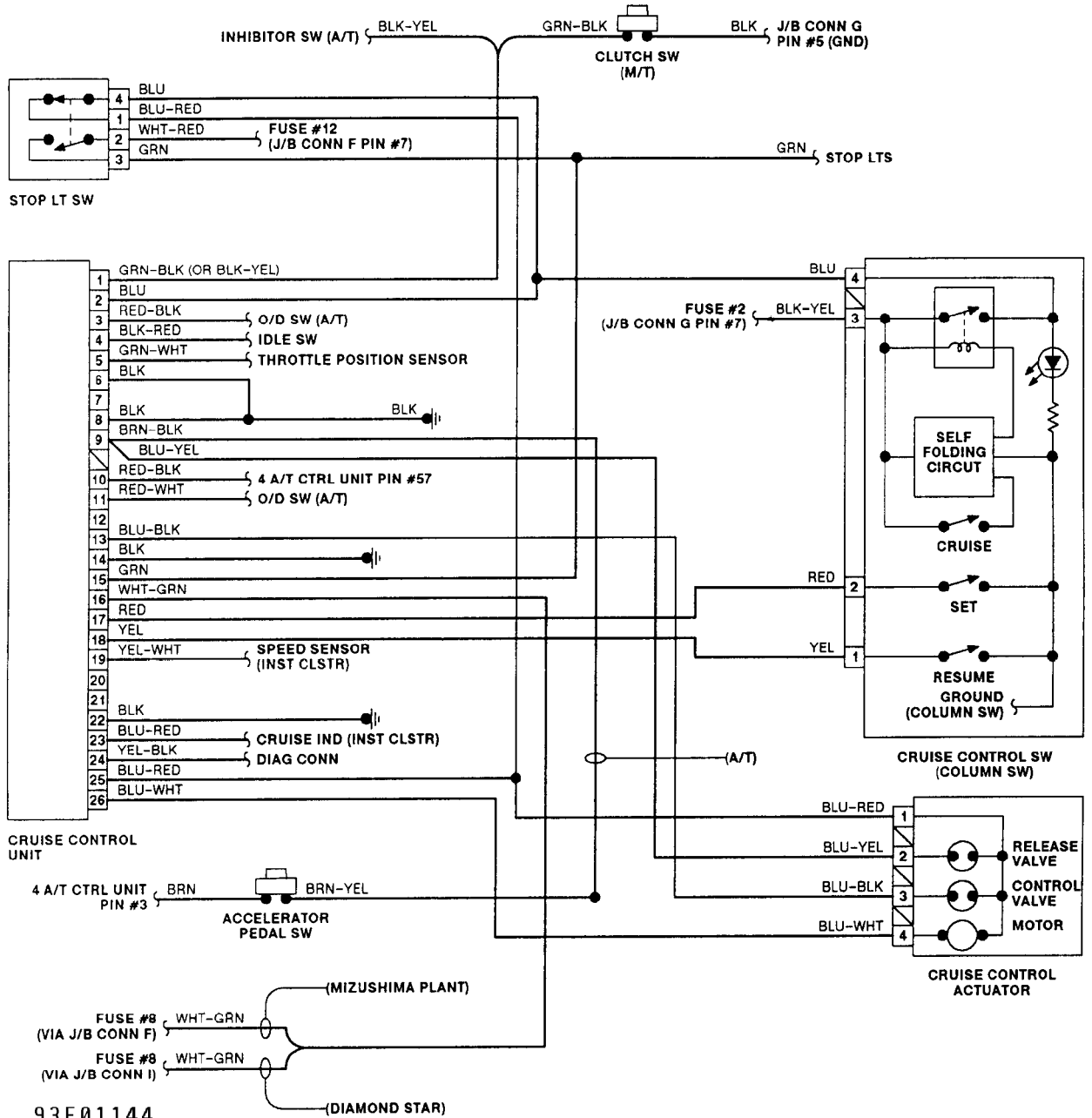
Article Text (p. 30)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM



93F01144

Fig. 37: 1991 Speed Control System Wiring Diagram (Colt, Colt 200, Mirage & Summit)
Courtesy of Mitsubishi Motor Co.

CRUISE CONTROL SYSTEM

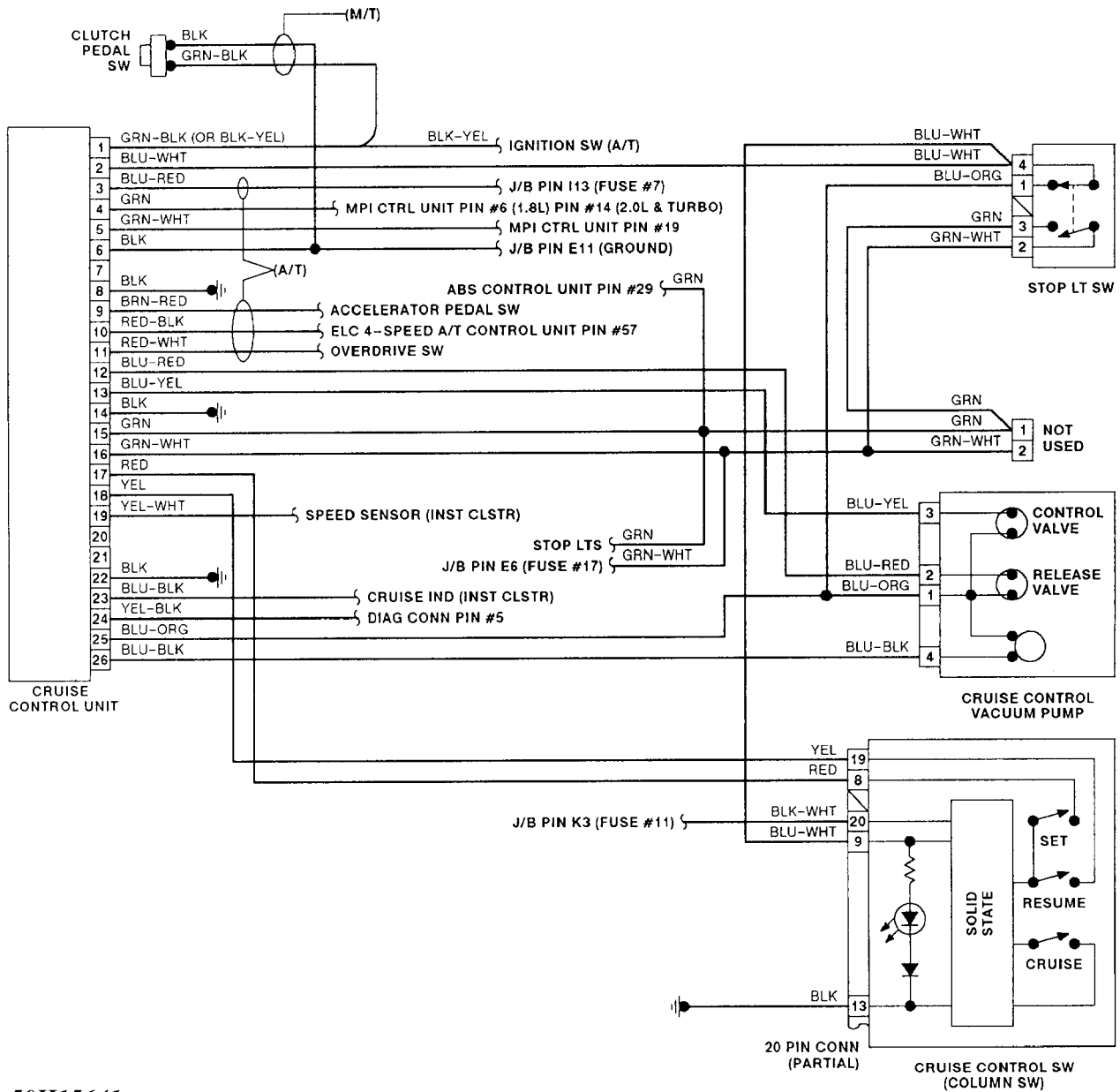
Article Text (p. 31)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM



50H15641

Fig. 38: 1991 Speed Control System Wiring Diagram (Eclipse)

Courtesy of Mitsubishi Motor Co.

CRUISE CONTROL SYSTEM

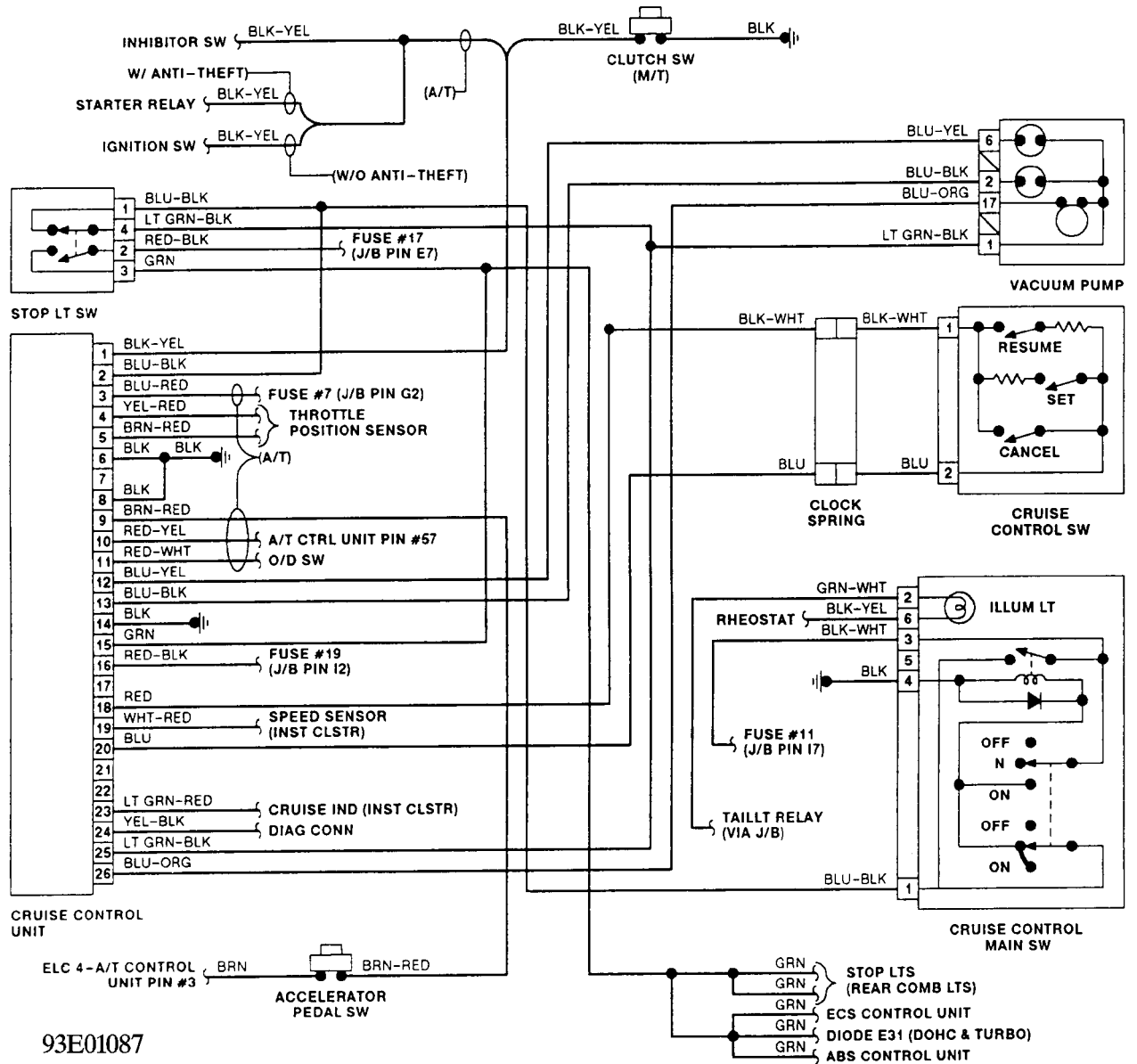
Article Text (p. 32)

1992 Mitsubishi Mirage

For a a a a

Copyright © 1998 Mitchell Repair Information Company, LLC

Monday, April 01, 2002 09:56AM



93E01087

Fig. 39: 1991 Speed Control System Wiring Diagram (Stealth & 3000GT)
Courtesy of Mitsubishi Motor Co.

END OF ARTICLE