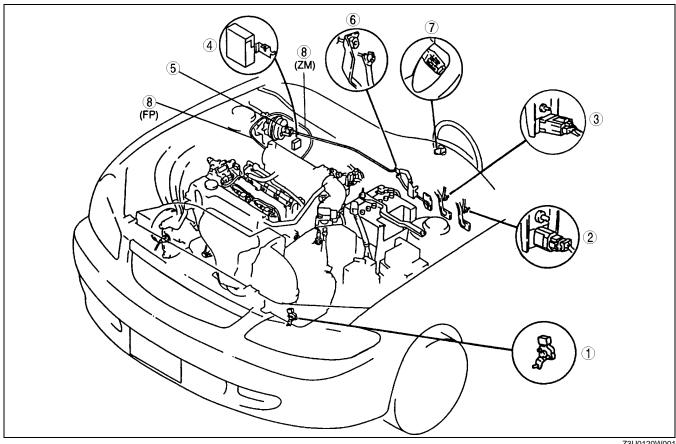
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01-20 CRUISE CONTROL SYSTEM

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A3U012001011W01



Z3U0120W001

1	Transmission range (TR) switch (ATX) (See 05–17–20 TRANSAXLE RANGE (TR) SWITCH INSPECTION) (See 05–17–20 TRANSAXLE RANGE (TR) SWITCH REMOVAL/INSTALLATION) (See 05–17–23 TRANSAXLE RANGE (TR) SWITCH ADJUSTMENT)
2	Clutch switch (MTX) (See 01–40B–42 CLUTCH SWITCH INSPECTION [FS]) (See 01–40A–41 CLUTCH SWITCH INSPECTION [ZM])
3	Brake switch (See 04–11–5 BRAKE SWITCH INSPECTION)
4	Cruise control module (See 01–20–2 CRUISE CONTROL MODULE REMOVAL/INSTALLATION) (See 01–20–2 CRUISE CONTROL MODULE INSPECTION)

5	Cruise actuator (See 01–20–4 CRUISE ACTUATOR REMOVAL/ INSTALLATION) (See 01–20–4 CRUISE ACTUATOR INSPECTION)
6	Actuator cable (See 01–20–5 ACTUATOR CABLE REMOVAL) (See 01–20–5 ACTUATOR CABLE INSTALLATION)
7	Cruise control switch (See 01–20–7 CRUISE CONTROL SWITCH REMOVAL/INSTALLATION) (See 01–20–8 CRUISE CONTROL SWITCH INSPECTION)
8	Vacuum hose

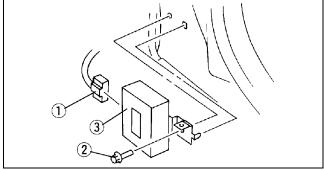
CRUISE CONTROL MODULE REMOVAL/INSTALLATION

A3U012066320W01

- 1. Disconnect the negative battery cable.
- 2. Remove the passenger-side front side trim. (See 09-17-13 FRONT SIDE TRIM REMOVAL/INSTALLATION.)
- 3. Remove in the order indicated in the table.

1	Connector			
2	Bolt			
3	3 Cruise control module			

4. Install in the reverse order of removal.

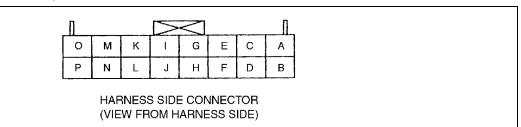


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CRUISE CONTROL MODULE INSPECTION

- 1. Remove the passenger-side front side trim. (See 09–17–13 FRONT SIDE TRIM REMOVAL/INSTALLATION.)
- 2. Remove the cruise control module without disconnecting the connector.
- 3. Measure the voltage at the cruise control module terminals as indicated below.
- 4. Disconnect the cruise control module connector before inspecting for continuity at terminal P.
 - If not as specified, inspect the parts listed under "Action."
 - If the parts and wiring harnesses are okay but the system still does not work properly, replace the cruise control module.

Terminal Voltage List (Reference)



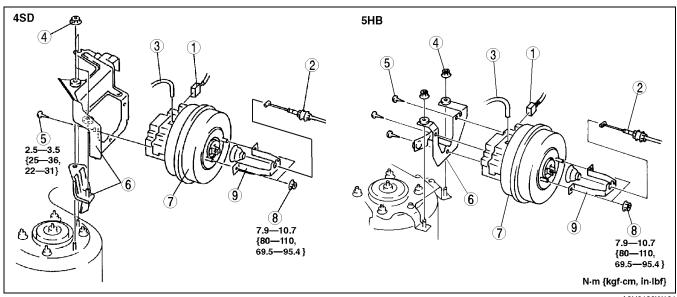
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Terminal	Signal	Connected to	Test o	condition	Voltage (V) /Continuity	Action
	Cruise	Cruise	Ignition switch	Cruise control main switch at ON position	B+	Inspect brake switch (See 04–11–5 BRAKE SWITCH INSPECTION)
A	actuator control	actuator (Vent 1)	at ON position	Other	Below 1.0	 Inspect cruise actuator (See 01–20–4 CRUISE ACTUATOR INSPECTION) Inspect related harness
_	Cruise	Cruise	Ignition switch	main switch at ON B+ (See 04–11–5 I position SWITCH INSPI	main switch at ON B+ (See 04–11-	(See 04-11-5 BRAKE SWITCH INSPECTION)
В	actuator control	actuator (Vacuum)	at ON position	Other	Below 1.0	 Inspect cruise actuator (See 01–20–4 CRUISE ACTUATOR INSPECTION) Inspect related harness
	actuator		Ignition switch	Cruise control main switch at ON position	B+	Inspect brake switch (See 04–11–5 BRAKE SWITCH INSPECTION)
С			at ON position	Other	Below 1.0	 Inspect cruise actuator (See 01–20–4 CRUISE ACTUATOR INSPECTION) Inspect related harness
D	Cruise set indicator light output Cruise set indicator light		Ignition switch at ON position		B+	Inspect METER 10 A fuse
		Ignition switch a position	t LOCK or ACC	Below 1.0	Inspect instrument cluster (See 09–22–4 INSTRUMENT CLUSTER INSPECTION) Inspect related harness	

Terminal	S	ignal	Connected to	Test c	ondition	Voltage (V) /Continuity		Action			
E	IG1		METER 10 A fuse	Ignition switch at Ignition switch at position		B+ Below 1.0		Inspect METER 10 A fuse Inspect related harness			
F		_	_	position	<u> </u>	_		_			
				Ignition switch at	ON position	B+	•	Inspect PCM			
G	O/D off PCM		Ignition switch at position	·	Below 1.0		(See 01–40A–7 PCM INSPECTION [ZM]) (See 01–40B–7 PCM INSPECTION [FS]) Inspect related harness				
Н	Cruise H actuato		Cruise Proke switch Ignition switch		Cruise control main switch at ON position	B+					
		r supply		at ON position	Cruise control main switch at OFF position	Below 1.0					
1	Test		Data link connector		_	_		_			
		Selecto	Troposido	Ignition switch at ON position	Selector lever at N or P range	Below 1.0		Inspect transaxle range switch			
J	ATX	r lever position	Transaxle range switch	and cruise control main switch at ON position	Other	B+		(See 05–17–20 TRANSAXLE RANGE (TR) SWITCH INSPECTION) Inspect related harness			
	MTX s		Clutch	Clutch	Clutch		Ignition switch at ON position	Depress clutch pedal	Below 1.0		Inspect clutch switch (See 01–40A–41 CLUTCH
		switch on/off Clutch switch	and cruise control main switch at ON position	Other	B+		SWITCH INSPECTION [ZM]) (See 01–40B–42 CLUTCH SWITCH INSPECTION [FS]) Inspect related harness				
				Depress brake pedal		B+		Inspect brake switch			
K	Brake on/of	e switch f	Brake switch	Other		Below 1.0		(See 04–11–5 BRAKE SWITCH INSPECTION) Inspect related harness			
				Ignition switch at ON position	SET/COAST switch hold at on	Approx. 1.5	•	Inspect cruise control switch			
L	Cruise control switch	Cruise control	and cruise control main	RESUME/ACCEL switch hold at on	Approx. 0.5		(See 01–20–8 CRUISE CONTROL SWITCH				
	positi	on	switch	switch at ON position	CANCEL switch hold at on	Approx. 3		INSPECTION) Inspect related harness			
					Other	Approx. 5					
M	Brake switch		Ignition switch at ON position and cruise control	Depress brake pedal	Below 1.0		Inspect brake switch (See 04–11–5 BRAKE				
IVI	on/off		Diake Switch	main switch at ON position	Other	B+		SWITCH INSPECTION) Inspect related harness			
N	Vehicle	Vehicle speed	Ignition switch at ON position and cruise control	Rear tires rotating	Alternates below 1.0 and 5	•	Inspect METER 10 A fuse Inspect instrument cluster (See 09–22–4 INSTRUMENT				
	speed		sensor	main switch at ON position	Other	Below 1.0 or 5		CLUSTER INSPECTION) Inspect related harness			
0			Cruise control	Ignition switch at ON position	Cruise control main switch at ON position	Below 1.0		Inspect cruise control switch (See 01–20–8 CRUISE CONTROL SWITCH			
	input		switch	•	Other	B+		INSPECTION) Inspect related harness			
Р	P Cruise control module ground GN		GND	Constant: inspec ground	t for continuity to	Yes		Inspect related harness			

CRUISE ACTUATOR REMOVAL/INSTALLATION

- 1. Disconnect the negative battery cable.
- 2. Remove in the order indicated in the table.
- 3. Install in the reverse order of removal.



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A3U012066310W02

A3U012066310W01

1	Cruise actuator connector
2	Actuator cable (See 01–20–5 ACTUATOR CABLE REMOVAL) (See 01–20–5 ACTUATOR CABLE INSTALLATION)
3	Vacuum hose

4	Nut				
5	Screw				
6	Bracket				
7	Cruise actuator				
8	Nut				
9	Bracket				

CRUISE ACTUATOR INSPECTION

- 1. Disconnect the negative battery cable.
- 2. Disconnect the cruise actuator connector.
- 3. Measure the resistance between the cruise actuator terminals using an ohmmeter.

○₩○ : Resistance

Ston		Term	ninal	
Step	Α	В	С	D
1	OW			R ₁
2		<u></u>		R ₂
3		0		—○ R ₃

R₁: Approx. 55 ohms R₂: Approx. 21 ohms R₃: Approx. 55 ohms

Z3U0120W003

В D С В PART SIDE CONNECTOR (VIEW FROM TERMINAL SIDE)

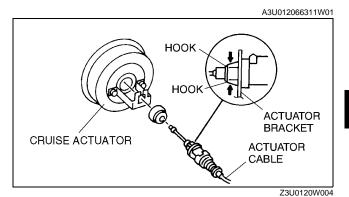
Y3U120WA2

- 4. Disconnect the actuator cable from the accelerator pedal.
- 5. Allow the engine to idle.
- 6. Connect B+ and a ground to the terminals as shown and confirm the operation of the actuator cable.
 - If not as specified, replace the cruise actuator.

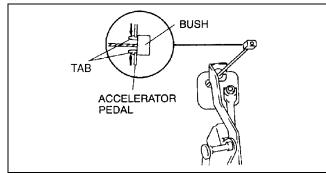
Step	Te	erminal c	onnection	n	Operation of
Step	Α	В	С	D	actuator cable
1	1 Ground B+ Ground C		Ground	Pull	
2	2 Ground B+		_	Ground	Hold
3	3 — B		_	Ground	Extend
4	_	_	_	_	Released

ACTUATOR CABLE REMOVAL

1. Loosen the nut, and remove the actuator cable.

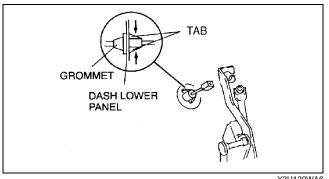


2. Press the tabs of the bush, and remove it from the accelerator pedal.



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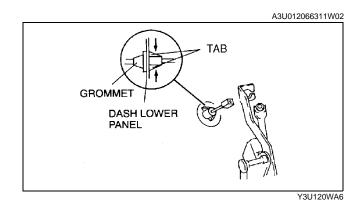
- 3. Press the tabs of the grommet, and remove it from the dash lower panel.
- 4. Push the actuator cable through the dash lower panel to remove it.



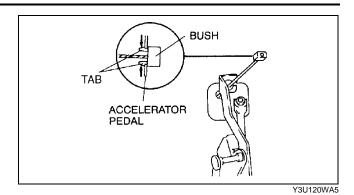
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ACTUATOR CABLE INSTALLATION

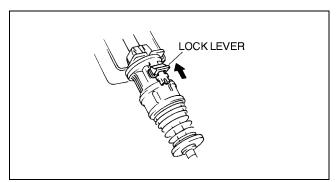
1. Install the grommet to the dash lower panel.



2. Install the actuator cable to the accelerator pedal.

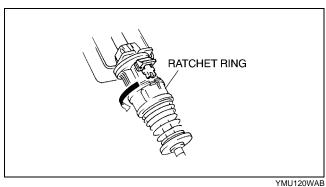


3. Slide the lock lever in the direction shown by the arrow to unlock the adjuster.

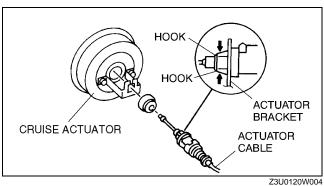


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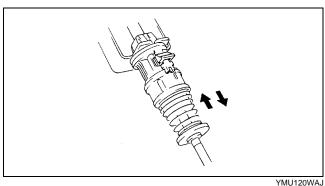
4. Turn the ratchet ring to release lock in the direction shown by the arrow.



5. Insert the grommet into the actuator bracket.

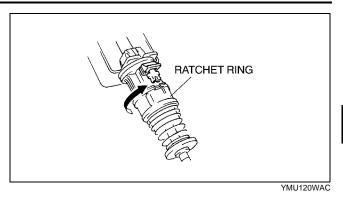


6. To adjust the free play, push or pull the actuator cable directly behind the spring two times.

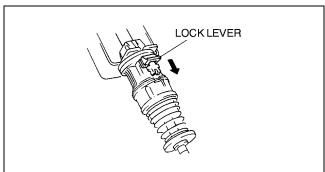


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7. Turn the ratchet ring in the direction shown by the arrow to lock it.



8. Slide the lock lever in the direction shown by the arrow to lock the adjuster.



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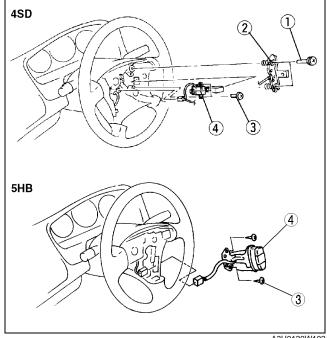
CRUISE CONTROL SWITCH REMOVAL/INSTALLATION

1. Disconnect the negative battery cable.

- 2. Remove the driver-side air bag module. (See 08-10-5 DRIVER-SIDE AIR BAG MODULE REMOVAL/ INSTALLATION.)
- 3. Disconnect the cruise control switch connector.
- 4. Remove in the order indicated in the table.

1	Screw (4SD)			
2	2 Horn button contact (4SD)			
3	Screw			
4 Cruise control switch				

5. Install in the reverse order of removal.



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CRUISE CONTROL SWITCH INSPECTION

A3U012066341W02

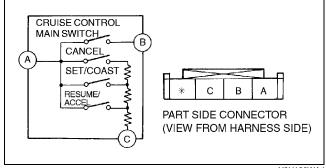
- 1. Disconnect the negative battery cable.
- 2. Remove the driver-side air bag module. (See 08–10–5 DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION.)
- 3. Disconnect the cruise control switch connector.
- 4. Measure the resistance and inspect for continuity between the cruise control switch terminals using an ohmmeter.

O—○: Continuity	OWO:	Resistance
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Switch position	Terminal		
	Α	В	С
Cruise control main switch at ON position	<u></u>	0	
RESUME/ACCEL switch hold at on	<u> </u>		O R ₁
SET/COAST switch hold at on	<u> </u>		—O R ₂
CANCEL switch hold at on	0		—O R₃
Other			100

 R_1 : Approx. 68 ohms R_2 : Approx. 198 ohms R_3 : Approx. 418 ohms

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Y3U120WA4