

**SUBARU**

**SVX**

**1992**

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Precaution for Supplemental Restraint System "Airbag"

The Supplemental Restraint System "Airbag" helps to reduce the risk or severity of injury to the driver in a frontal collision.

The Supplemental Restraint System consists of an airbag module (located in the center of the steering wheel), sensors, a control unit, warning light, wiring harness and spiral cable.

Information necessary to service the safety is included in the "5-5. SUPPLEMENTAL RESTRAINT SYSTEM" of this Service Manual.

WARNING:

- To avoid rendering the Airbag system inoperative, which could lead to personal injury or death in the event of a severe frontal collision, all maintenance must be performed by an authorized SUBARU dealer.
- Improper maintenance, including incorrect removal and installation of the Airbag system, can lead to personal injury caused by unintentional activation of the Airbag system.
- All Airbag system electrical wiring harnesses and connectors are covered with yellow outer insulation. Do not use electrical test equipment on any circuit related to the Supplemental Restraint System "Airbag".

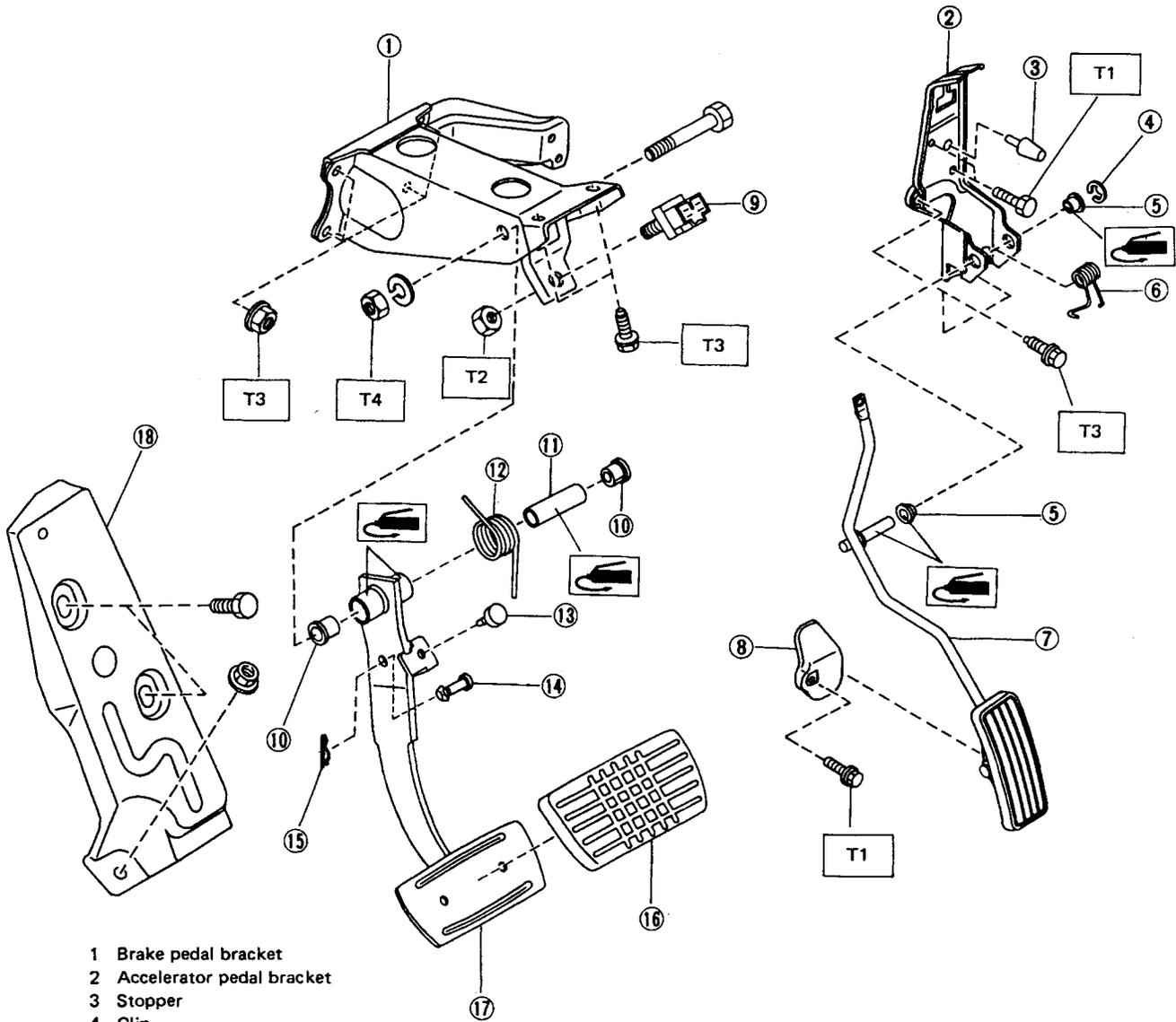


# S SPECIFICATIONS AND SERVICE DATA

**A: SERVICE DATA**

Brake pedal	Free play		1 — 3 mm (0.04 — 0.12 in) [Depress brake pedal pad with a force of less than 10 N (1 kg, 2 lb)]
Accelerator pedal	Free play	At pedal pad	1 — 4 mm (0.04 — 0.16 in)
	Stroke	At pedal pad	53 — 57 mm (2.09 — 2.24 in)

# C COMPONENT PARTS



- 1 Brake pedal bracket
- 2 Accelerator pedal bracket
- 3 Stopper
- 4 Clip
- 5 Bushing
- 6 Spring
- 7 Accelerator pedal
- 8 Accelerator pedal stopper
- 9 Stop lamp switch
- 10 Bushing
- 11 Spacer
- 12 Spring
- 13 Stop lamp switch stopper
- 14 Clevis pin
- 15 Snap pin
- 16 Pedal pad
- 17 Brake pedal
- 18 Footrest ASSY

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**Tightening torque: N.m (kg-m, ft-lb)**

**T1: 5.4 – 9.3 (0.55 – 0.95, 4.0 – 6.9)**

**T2: 6 – 10 (0.6 – 1.0, 4.3 – 7.2)**

**T3: 13–23 (1.3 – 2.3, 9 – 17)**

**T4: 23 – 36 (2.3 – 3.7, 17 – 27)**

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Fig. 1

# W SERVICE PROCEDURE

## Supplemental Restraint System "Airbag"

Airbag system wiring harness is routed near the pedal system.

- a. All Airbag system wiring harness and connectors are colored yellow. Do not use electrical test equipment on these circuit.
- b. Be careful not to damage Airbag system wiring harness when servicing the pedal system.

### A: ON-CAR SERVICE

#### 1. BRAKE PEDAL

- 1) Check position of pedal pad.  
If it is not in specified value, adjust it by adjusting brake booster operating rod length.
- 2) Check free play by operating pedal by hand.  
If it is not in specified value, adjust it by adjusting position of stop lamp switch.  
**Be careful not to rotate stop lamp switch.**
- 3) Apply grease to operating rod connecting pin to prevent it from wearing.

#### Brake pedal free play:

1 — 3 mm (0.04 — 0.12 in)

[Depress brake pedal pad with a force of less than 10 N (1 kg, 2 lb)]

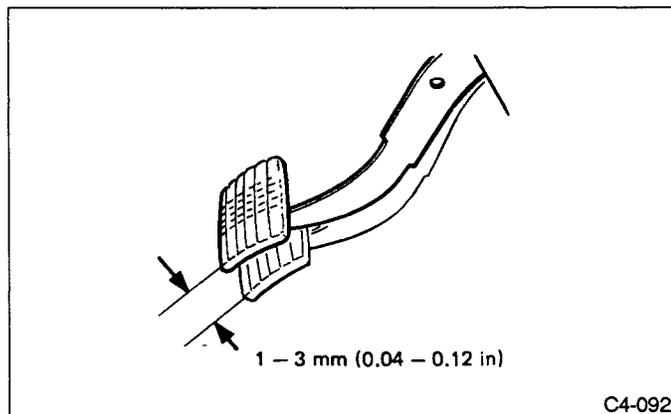


Fig. 2

#### 2. ACCELERATOR PEDAL

Check pedal stroke and free play by operating accelerator pedal by hand.

If it is not within specified value, adjust it by turning nut connecting accelerator cable to throttle body.

#### Free play at pedal pad:

1 — 4 mm (0.04 — 0.16 in)

#### Stroke:

at pedal pad

53 — 57 mm (2.09 — 2.24 in)

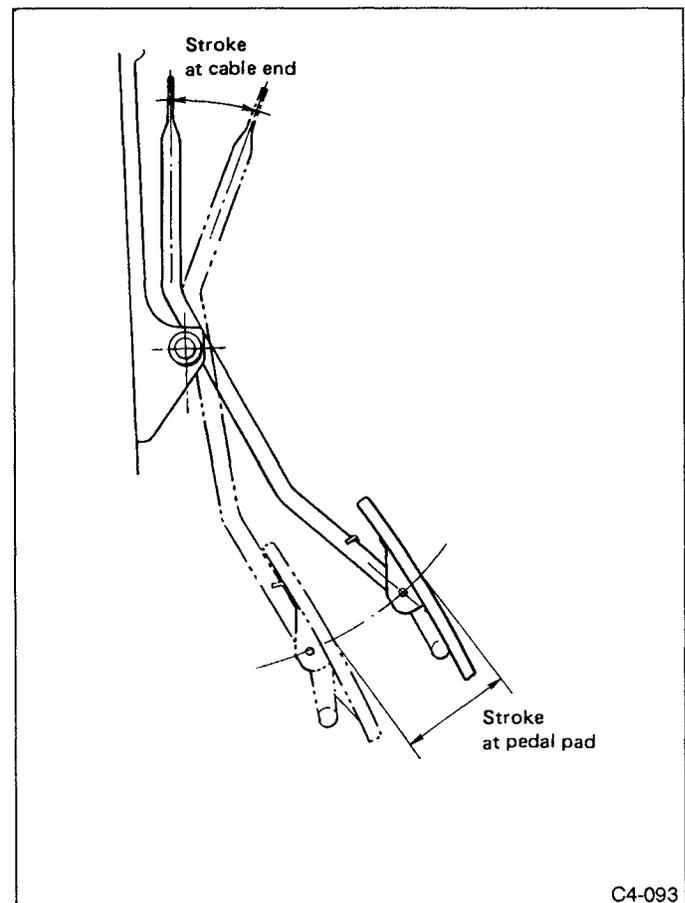


Fig. 3

**B: REMOVAL**

**1. ACCELERATOR PEDAL ASSY TOGETHER WITH ACCELERATOR CABLE**

- 1) Disconnect ground cable from battery.
- 2) Remove collector cover, and disconnect accelerator cable from throttle body and holder.

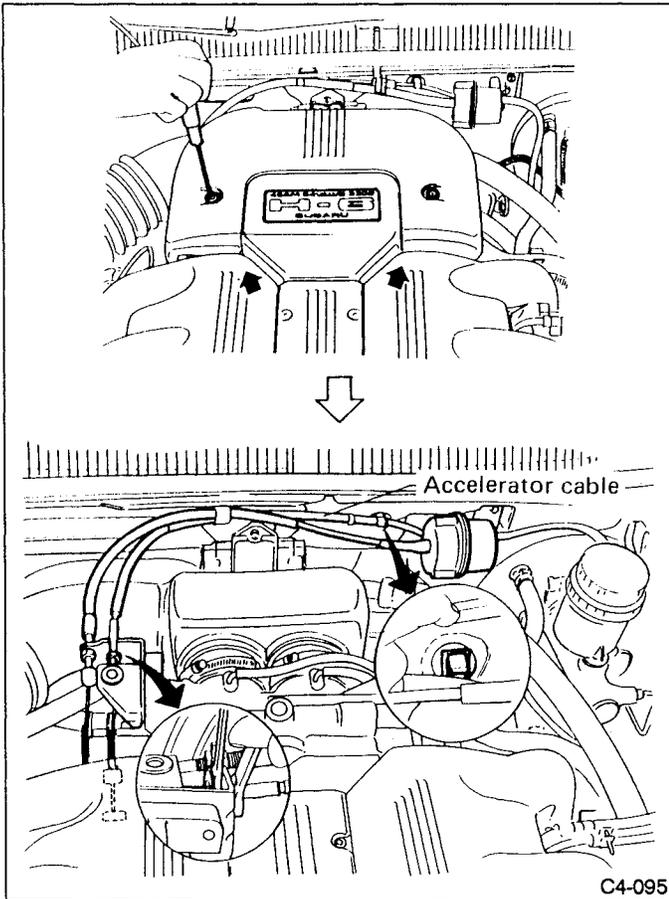


Fig. 4

- 3) Remove lower instrument cover and lower instrument cover panel located under steering column.
- 4) If necessary, remove steering shaft ASSY. (Ref. to [4-3] No. W1A0)
- 5) Remove bolts which secure pedal bracket.

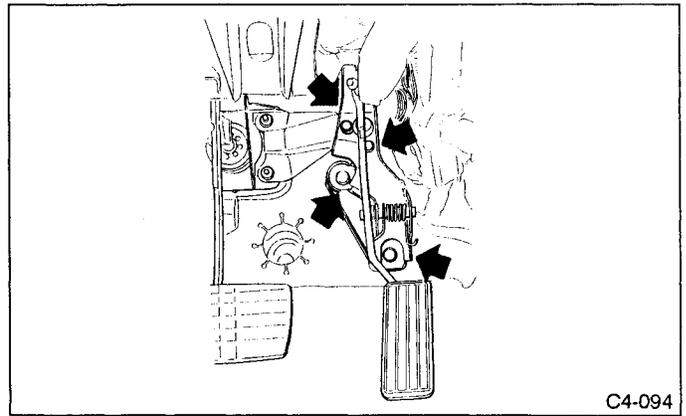


Fig. 5

- 6) Disconnect grommet from toe board, and remove accelerator pedal and bracket together with accelerator cable.
  - 7) Remove bushing and cable stopper from front end of accelerator pedal.
- While using a standard screw driver or a suitable tool to rear of bushing, lever off bushing and cable stopper.

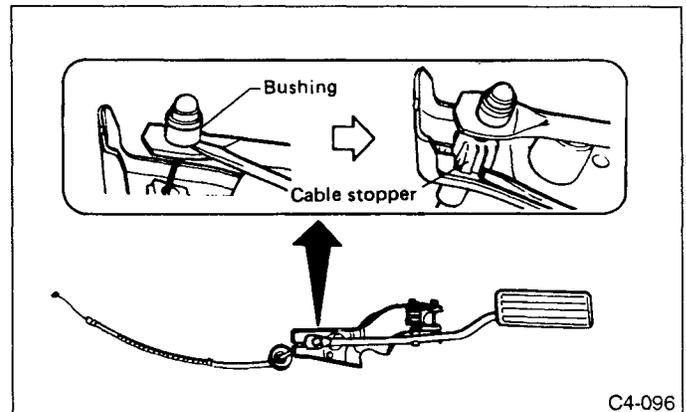


Fig. 6

**2. BRAKE PEDAL ASSY**

**(After removal of accelerator pedal ASSY.)**

- 1) Remove steering shaft ASSY. (Ref. to [4-3] No. W1A0)
- 2) Remove front seat ASSY.
- 3) Disconnect TCU and ECU connectors, and remove TCU and ECU.
- 4) Disconnect stop lamp connector.
- 5) Remove snap pin which connects brake pedal and operating rod.

**Operating rod length is preset at the factory. Do not attempt to loosen the lock nut.**

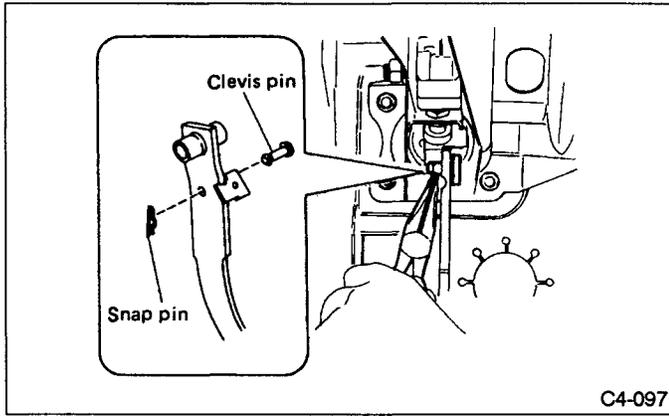


Fig. 7

6) Remove bolts which secure pedal bracket.

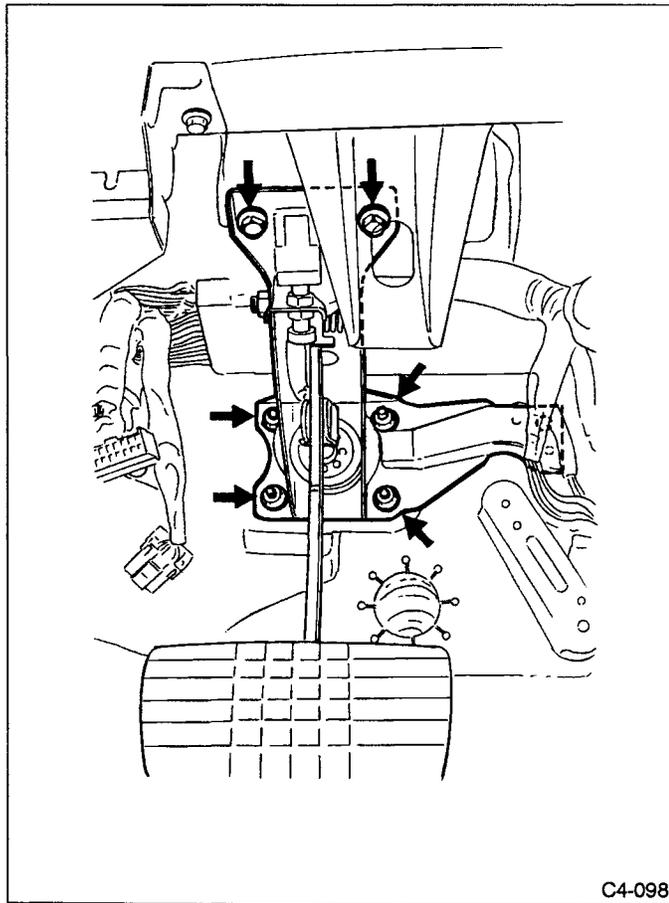


Fig. 8

7) Remove brake pedal ASSY together with bracket.

**C: INSPECTION**

**1. ACCELERATOR AND BRAKE PEDAL ASSY**

- 1) Disassemble accelerator and brake pedals. Remove any grease from the shaft, spacer, and bushing and check these parts for wear or damage.
- 2) Lightly move pedal pad in the lateral direction to ensure pedal deflection is in specified range.

**Deflection of brake and accelerator pedal:**

**Service limit**

**5.0 mm (0.197 in) or less**

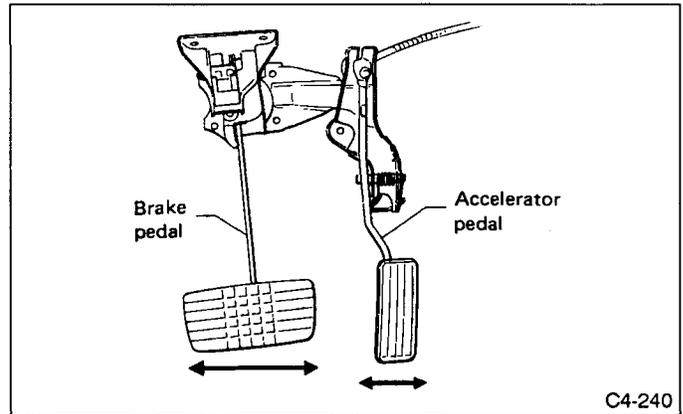


Fig. 9

If excessive deflection is noted, replace bushing and clip with new ones.

**2. STOP LAMP SWITCH**

If stop lamp switch does not operate properly (or if it does not stop at the specified position), replace with a new one.

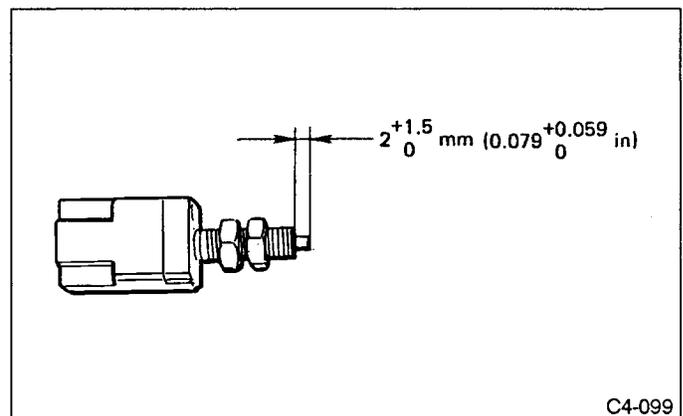


Fig. 10

**D: INSTALLATION****1. ACCELERATOR AND BRAKE PEDAL ASSY TOGETHER WITH ACCELERATOR CABLE**

Installation is in the reverse order of removal.

- 1) After installing accelerator cable bracket on toe board, check that grommet is properly connected at the position.
- 2) Check brake pedal free play and stroke.

**Free play:**

1 — 3 mm (0.04 — 0.12 in)

**Stroke:**

140 mm (5.51 in)

- 3) After installing accelerator cable, check the deflection between throttle lever and outer end cable.

**Deflection:**

1 — 8 mm (0.04 — 0.31 in)

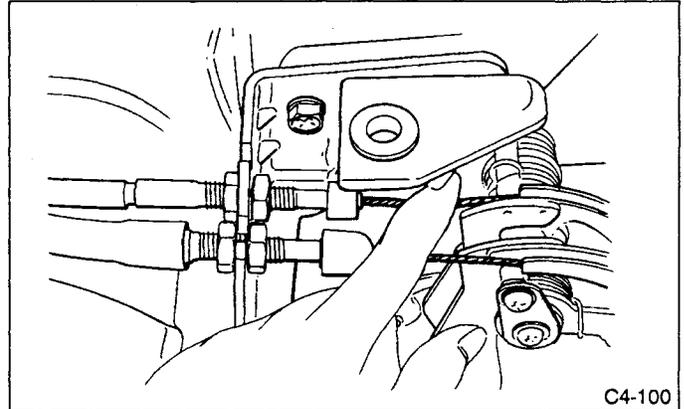


Fig. 11

# T TROUBLESHOOTING

Trouble	Corrective action
Excessively worn brake pedal pad	Replace.
Failure of accelerator pedal to operate	Connect cables correctly.
Stop lamp switch does not light up.	Adjust position of stop lamp switch.
Stop lamp switch is not smooth and/or stroke is not correct.	Replace.
Insufficient pedal play	Adjust pedal play.
Brake pedal freeplay insufficient	Adjust pedal freeplay.
Maladjustment of brake pedal or booster push rod	Inspect and adjust.
Excessively worn and damaged pedal shaft and/or bushing	Replace bushing and/or shaft with new one.