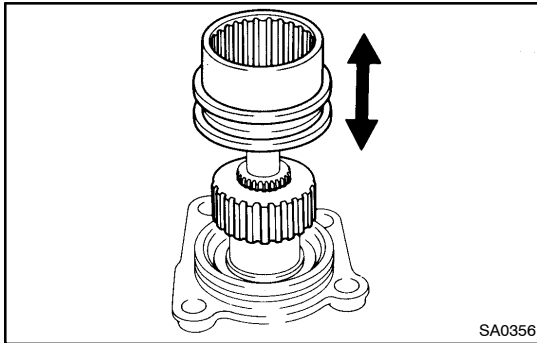


INSPECTION

HINT:

First judge that the malfunction is found in A.D.D. control system or in 2 - 4 selector system (See page TR-50).

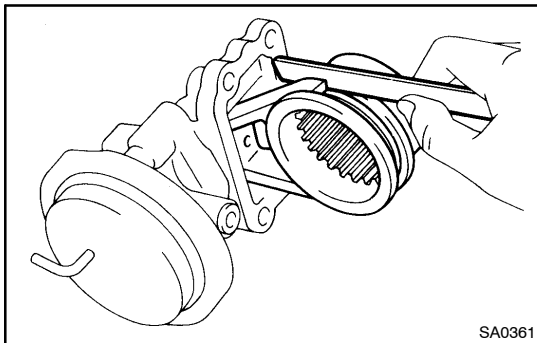


1. INSPECT CLUTCH HUB AND CLUTCH SLEEVE

- (a) Check the wear and damage of the clutch hub and clutch sleeve.

If necessary, replace them.

- (b) Check that clutch sleeve slides smoothly on the clutch hub.

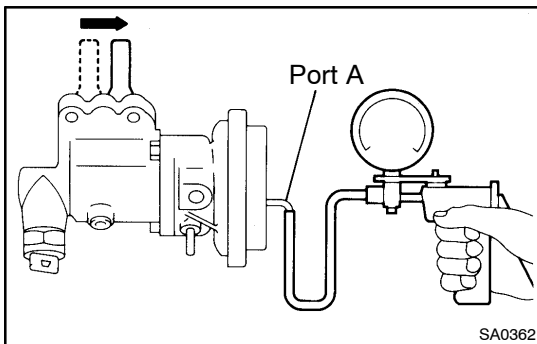


2. MEASURE CLEARANCE OF SLEEVE FORK AND CLUTCH SLEEVE

Using a feeler gauge, measure the clearance between the sleeve fork and clutch sleeve.

Maximum clearance: 0.35 mm (0.0138 in.)

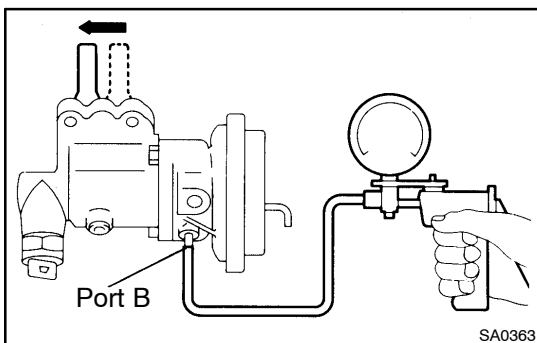
If the clearance exceeds the maximum, replace the fork or sleeve



3. INSPECT A.D.D ACTUATOR

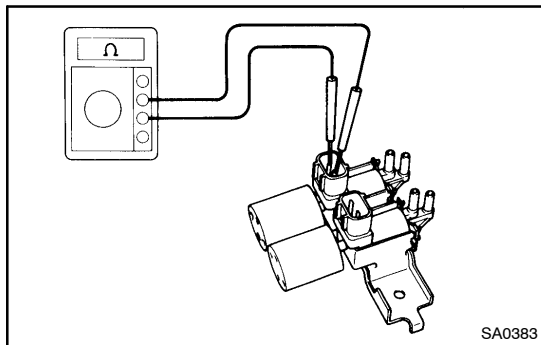
- (a) Check that the sleeve fork moves to the actuator side when a vacuum of 66.7 kPa (500 mmHg, 19.69 in.Hg) is applied to port A. Also check that the vacuum remains constant.

If is not, replace the actuator.



- (b) Check that the sleeve fork moves away from the actuator when a vacuum of 66.7 kPa (500 mmHg, 19.69 in.Hg) is applied to port B. Also check that the vacuum remains constant.

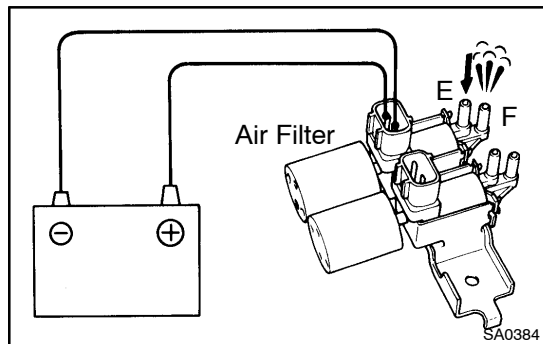
If is not, replace the actuator.



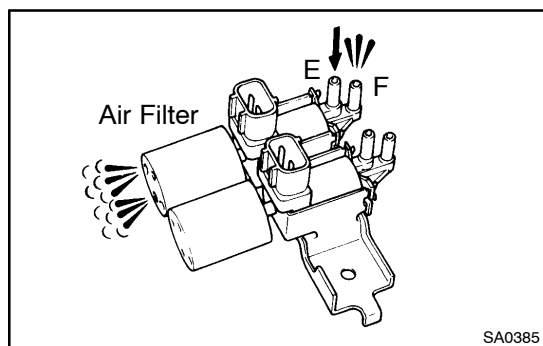
4. INSPECT A.D.D. SOLENOIDS

- (a) Using an ohmmeter, measure the resistance of the solenoids.

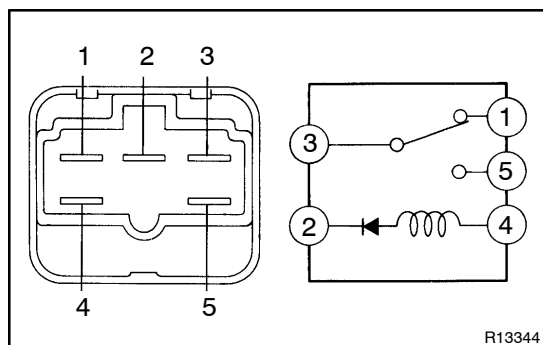
Resistance: 37 – 47 Ω



- (b) Connect the battery to the solenoid. Check that air flows from the port E to port F. Check that air does not flow from the port E to the air filter.

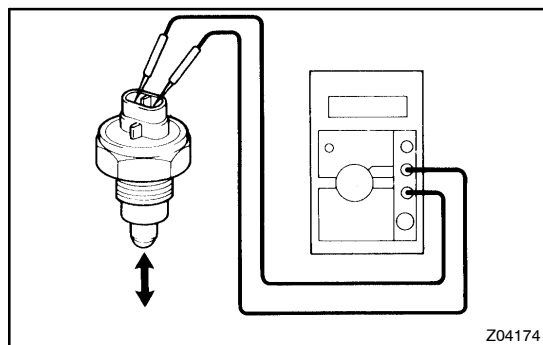


- (c) Disconnect the battery positive voltage from the solenoid. Check that air flows from the port E to the air filter. Check that air does not flow from the port E to port F.



5. INSPECT A.D.D. RELAY

- (a) Using an ohmmeter, check that there is continuity between terminals 1 and 3.
- (b) Using an ohmmeter, check that there is continuity between terminals 2 and 4.
- (c) Connect the positive (+) lead from the battery to terminal 4 and the negative (-) lead to terminal 2.
- (d) Using an ohmmeter, check that there is continuity between terminals 3 and 5.



6. INSPECT A.D.D. SWITCH

- (a) Using an ohmmeter, check that there is continuity between terminals when the switch is pushed (differential connected position).
- (b) Using an ohmmeter, check that there is no continuity when the switch is free (differential disconnected position).

7. INSPECT TRANSFER 4WD SWITCH (See page TR-12)