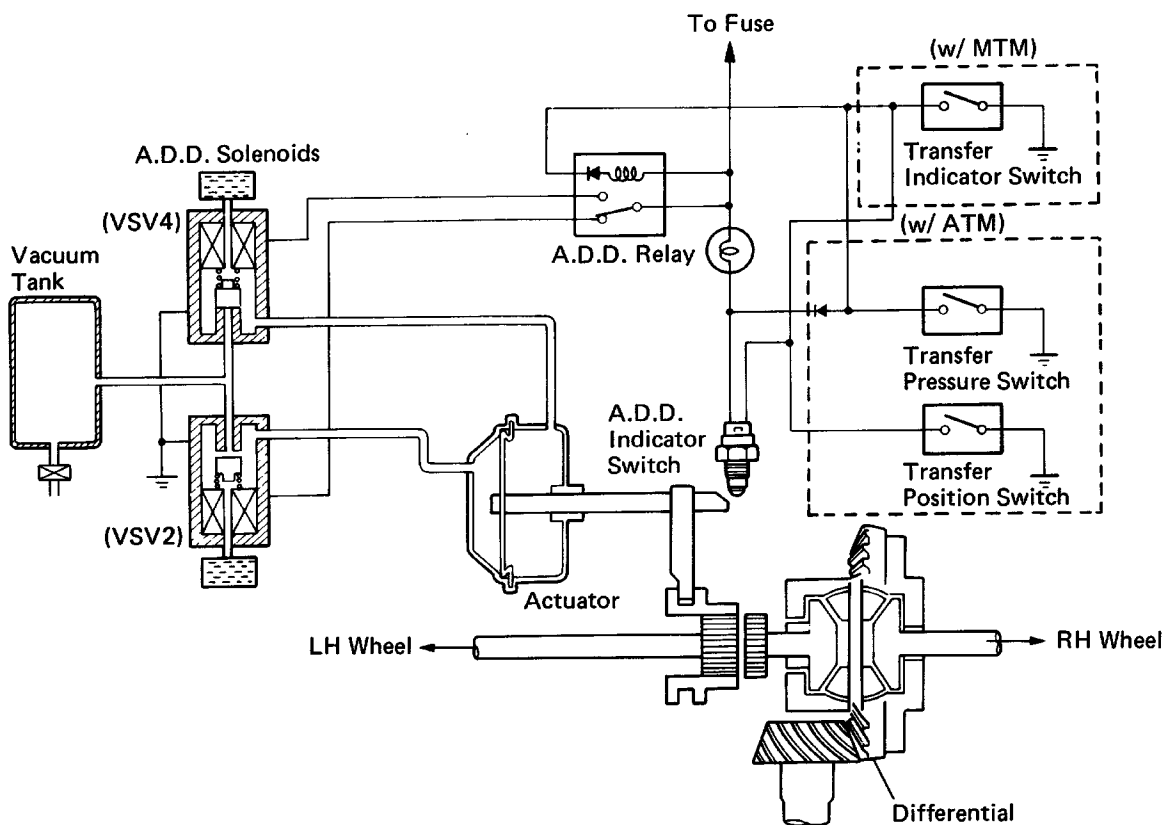
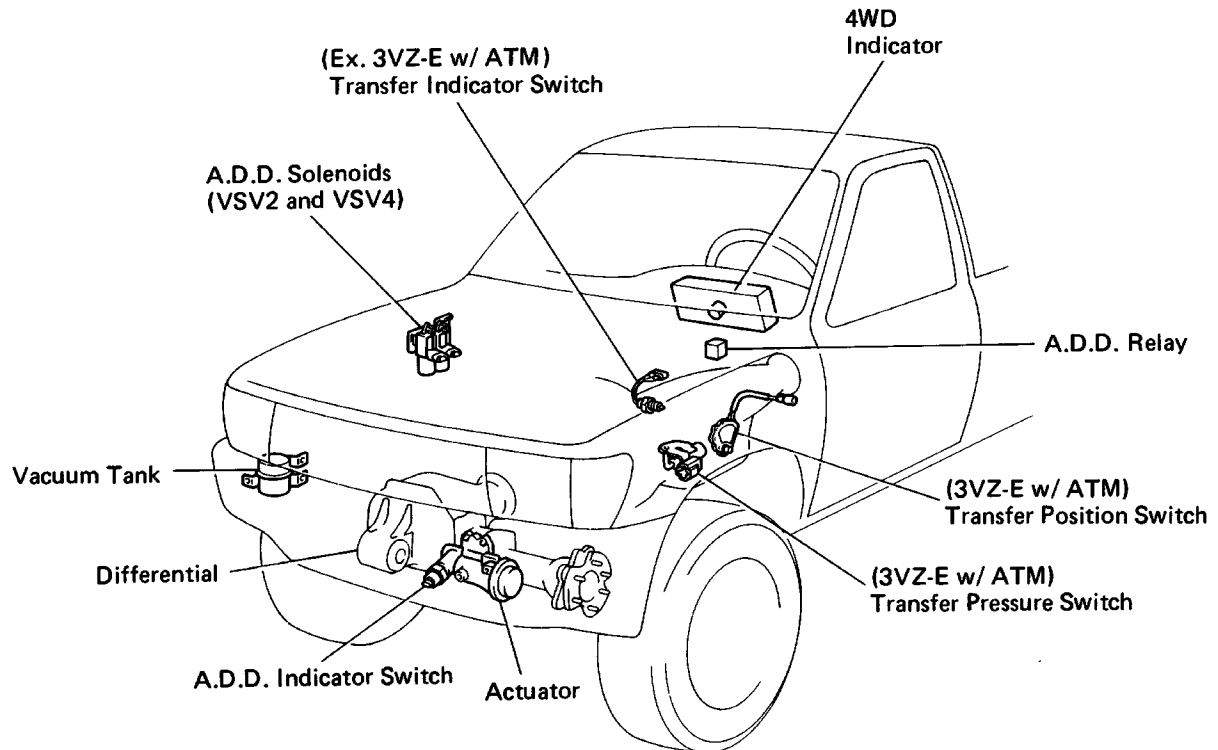
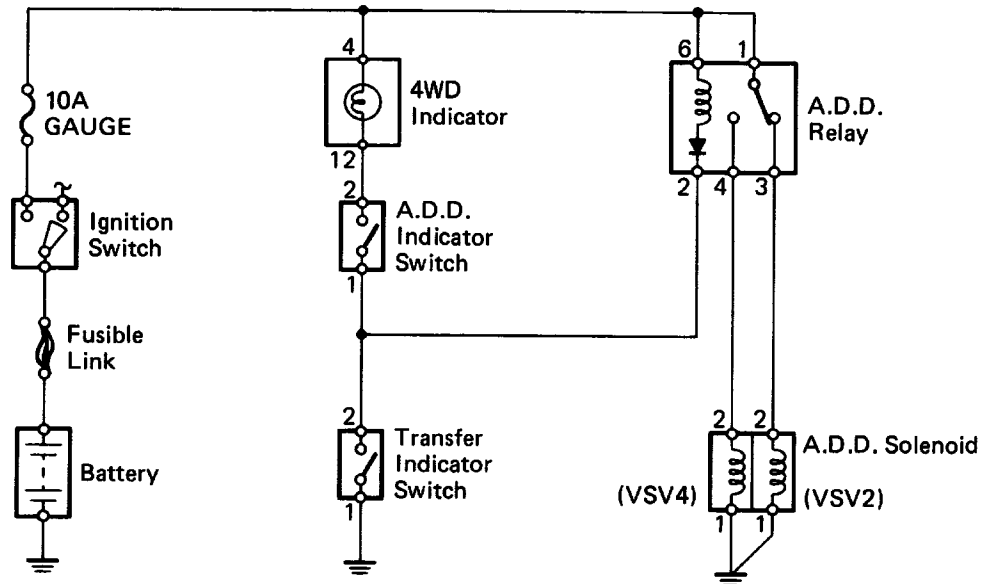


A.D.D. Control System COMPONENTS

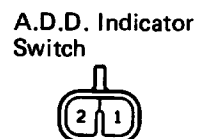
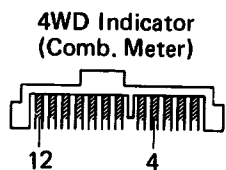
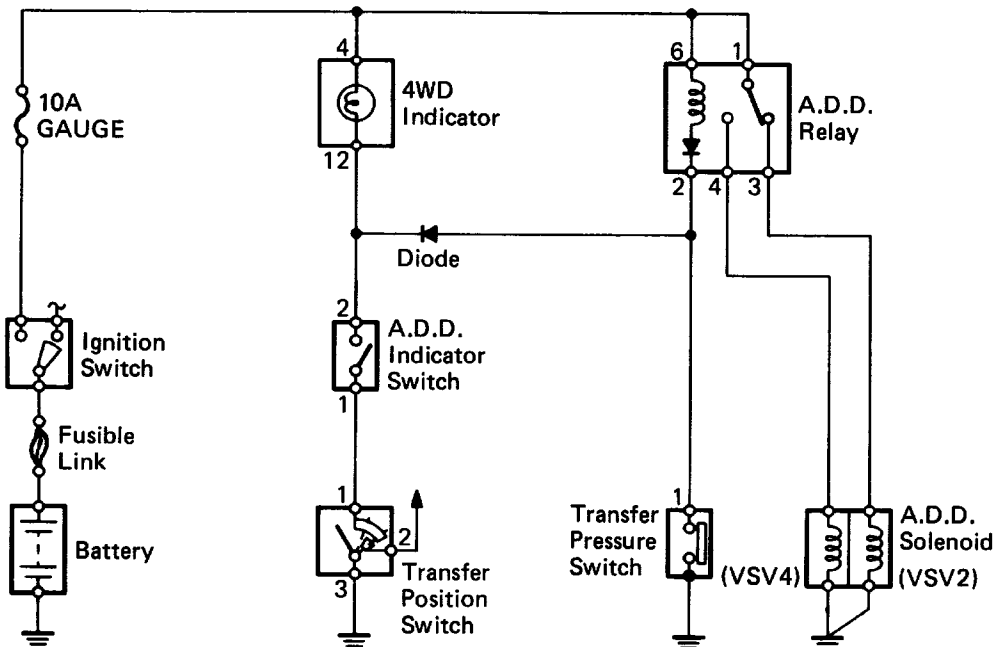


ELECTRICAL CIRCUIT

[Ex. 3VZ-E w/ ATM]



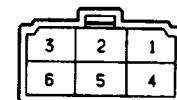
[3VZ-E w/ ATM]



(Ex. 3VZ-E w/ ATM)
Transfer Indicator Switch



A.D.D. Relay



(VSV4)



(VSV2)



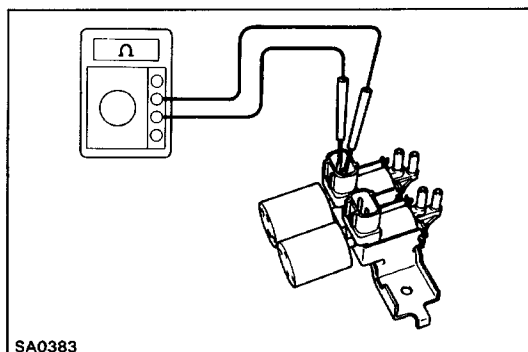
A.D.D. Solenoids

(3VZ-E w/ ATM)
Transfer Pressure Switch



(3VZ-E w/ ATM)
Transfer Position Switch





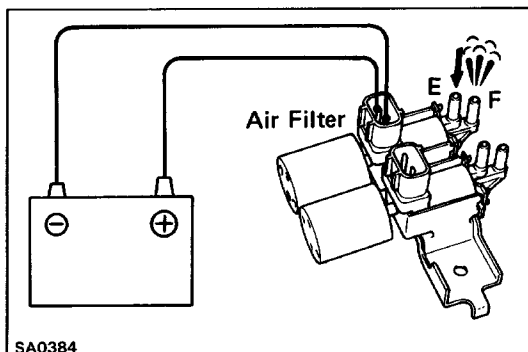
INSPECTION OF COMPONENTS

1. INSPECT A.D.

D. SOLENOIDS

(a) Measure the resistance of the solenoids.

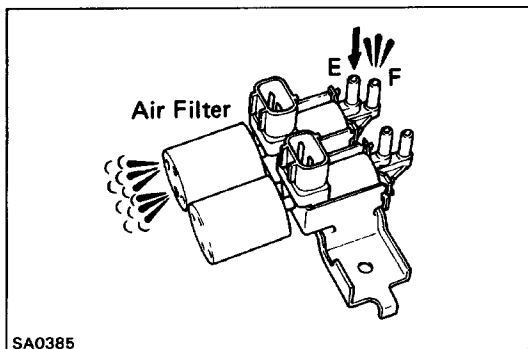
Resistance: 37 – 44Ω



(b) Apply the battery voltage to the solenoid.

Check that air flows from port E to port F.

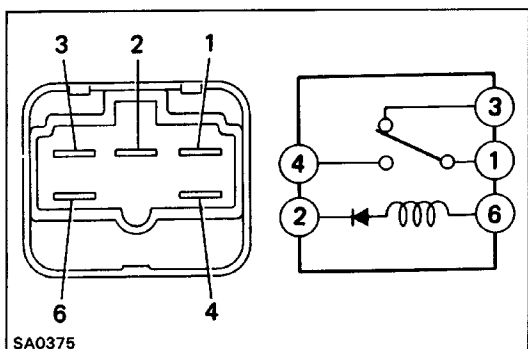
Check that air does not flow from port E to the air filter.



(c) Disconnect the battery voltage from the solenoid.

Check that air flows from port E to the air filter.

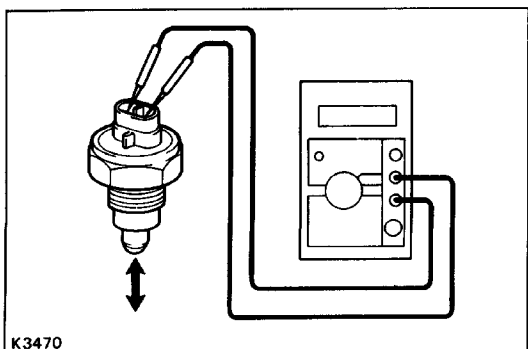
Check that air does not flow from port E to port F.



2. INSPECT A.D.D. RELAY

(Continuity)

Terminal	1	2	3	4	6
Condition					
Constant					
Apply battery voltage to terminals 6 and 2.					

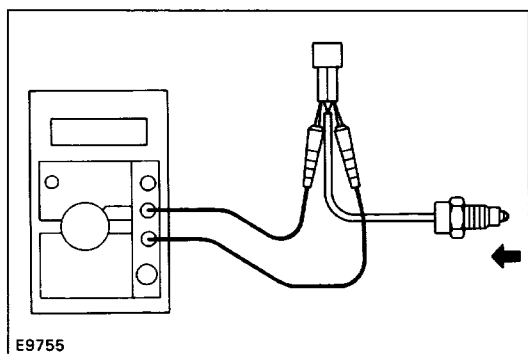


3. INSPECT A.D.

D. INDICATOR SWITCH

(a) Check that there is continuity between terminals when the switch is pushed (differential connected position).

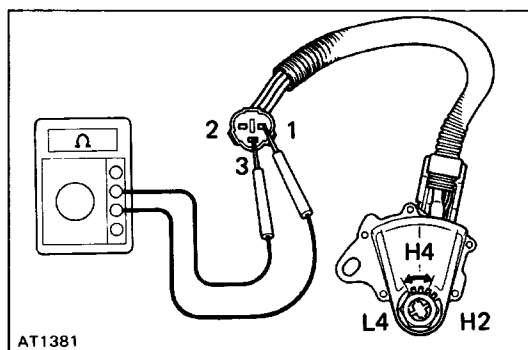
(b) Check that there is no continuity when the switch is free (differential disconnected position).



4. (Ex. 3VZ-E w/ATM)

INSPECT TRANSFER INDICATOR SWITCH

- Check that there is continuity between terminals when the switch is pushed (transfer 4WD position).
- Check that there is no continuity between terminals when the switch is free position (transfer H 2 position).

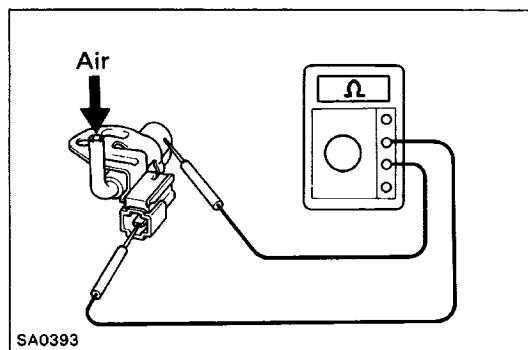


5. (3VZ-E w/ATM)

INSPECT TRANSFER POSITION SWITCH

Check that there is continuity between each terminal.

Terminal	1	2	3
Transfer position			
H4			
L4			
H2			



6. (3VZ-E w/ATM)

INSPECT TRANSFER PRESSURE SWITCH

While blowing compressed air (3.0 kg/cm², 43 psi or 294 kPa) into the switch, check the continuity between the terminal and switch body.

Resistance: 0 Ω