AIR CONDITIONING CONTROL ASSEMBLY (Center Cluster Integration)

AC3S0–02

ON–VEHICLE INSPECTION

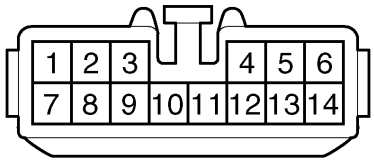
1. **REMOVE CENTER CLUSTER INTEGRATION PANEL (See page AC–89)**
2. **Access cab, Standard cab:**
   INSPECT A/C CONTROL ASSEMBLY CIRCUIT

(a) Disconnect the connectors from the A/C control assembly and inspect the connectors on the wire harness side, as shown in the chart below.

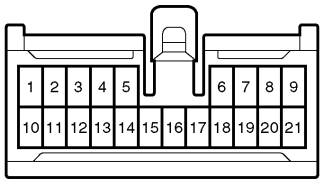
Test condition:

Turn the ignition switch to ON

Wire harness side



Connector ”A”



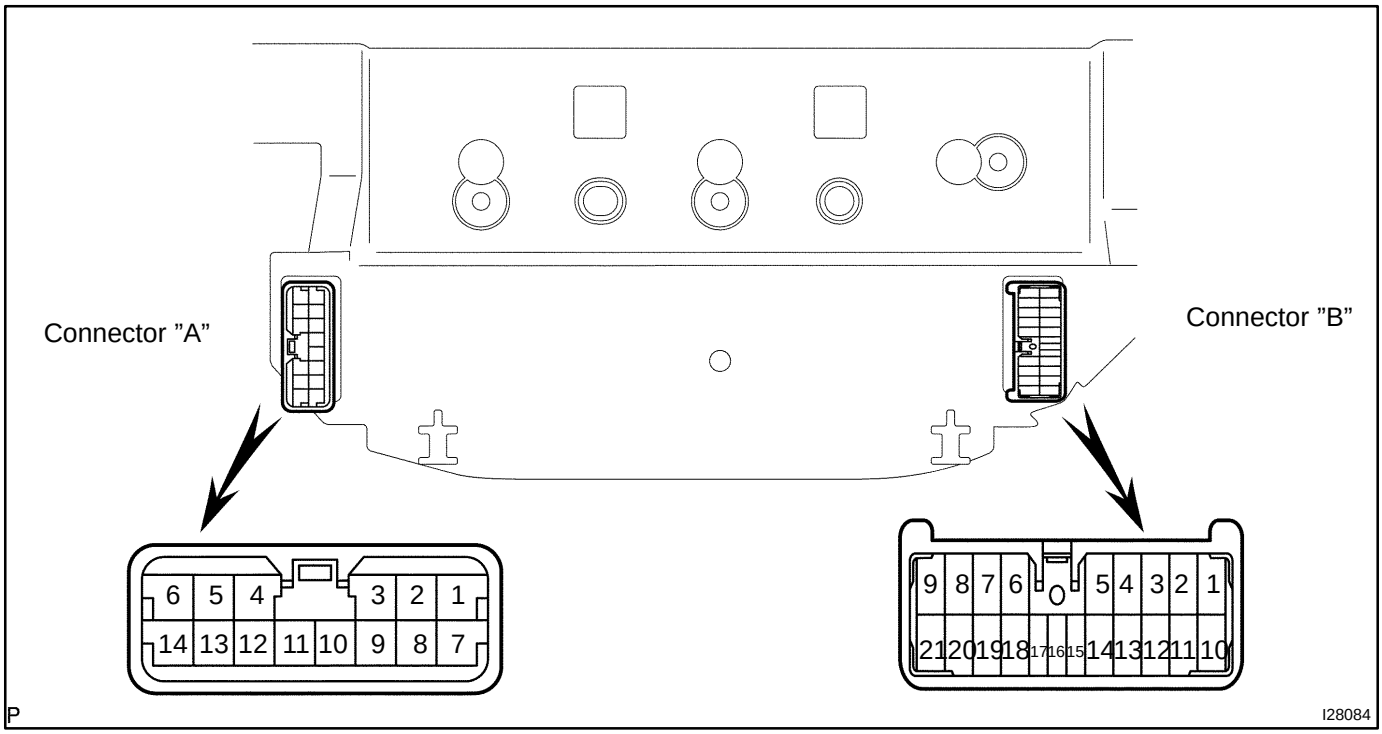
Connector ”B”

I11149
I11150
I11198

Tester connection	Condition	Specified condition
A1 – Ground	Constant	Continuity
A4 – Ground	Turn ignition switch to ON	Battery positive voltage
	Turn ignition switch OFF	No voltage
A5 – Ground	Constant	Battery positive voltage
A13 – Ground	Turn ignition switch to ACC	Battery positive voltage
	Turn ignition switch OFF	No voltage
B11 – Ground (5VZ–FE engine)	Constant	Continuity
B20 – B10	Evaporator temperature at 25°C (77°F)	1.5 kΩ

If the result is as specified, replace the amplifier with a new one.
If the result is not as specified, inspect the circuits connected to other parts.

(b) Connect the connectors to the A/C control assembly and inspect the connectors on the wire harness side from the back side, as shown in the chart below.
Test condition:
- Run the engine at idle speed
- Set the manifold gauge set



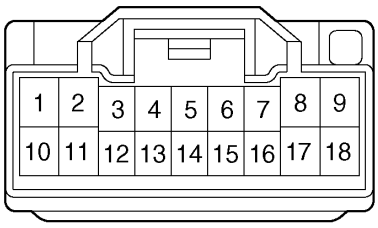
Tester connection	Condition	Specified condition
B1 − Ground	Constant	Continuity
B8 − Ground	Magnetic clutch is engaged	Battery positive voltage
	Magnetic clutch is not engaged	Below 1.0 V
B13 − Ground	Air inlet switch ”FRESH”	Below 1.0 V
	Air inlet switch ”RECIRC”	Battery positive voltage
B15 − Ground	Air inlet switch ”RECIRC”	Below 1.0 V
	Air inlet switch ”FRESH”	Battery positive voltage
B19 − Ground	A/C switch ON	Below 1.0 V
	A/C switch OFF	Battery positive voltage

If the result is as specified, replace the amplifier with a new one.
If the result is not as specified, inspect the circuits connected to other parts.

3. Double cab:
INSPECT A/C CONTROL ASSEMBLY CIRCUIT

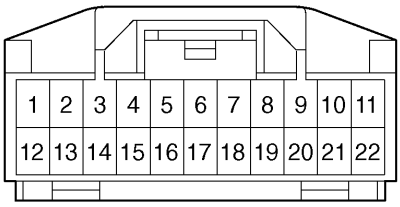
(a) Disconnect the connectors from the A/C control assembly and inspect the connectors on the wire harness side, as shown in the chart below.
Test condition:
Turn the ignition switch to ON

Wire harness side



I27444
I27431

Connector ”A”



Connector ”B”

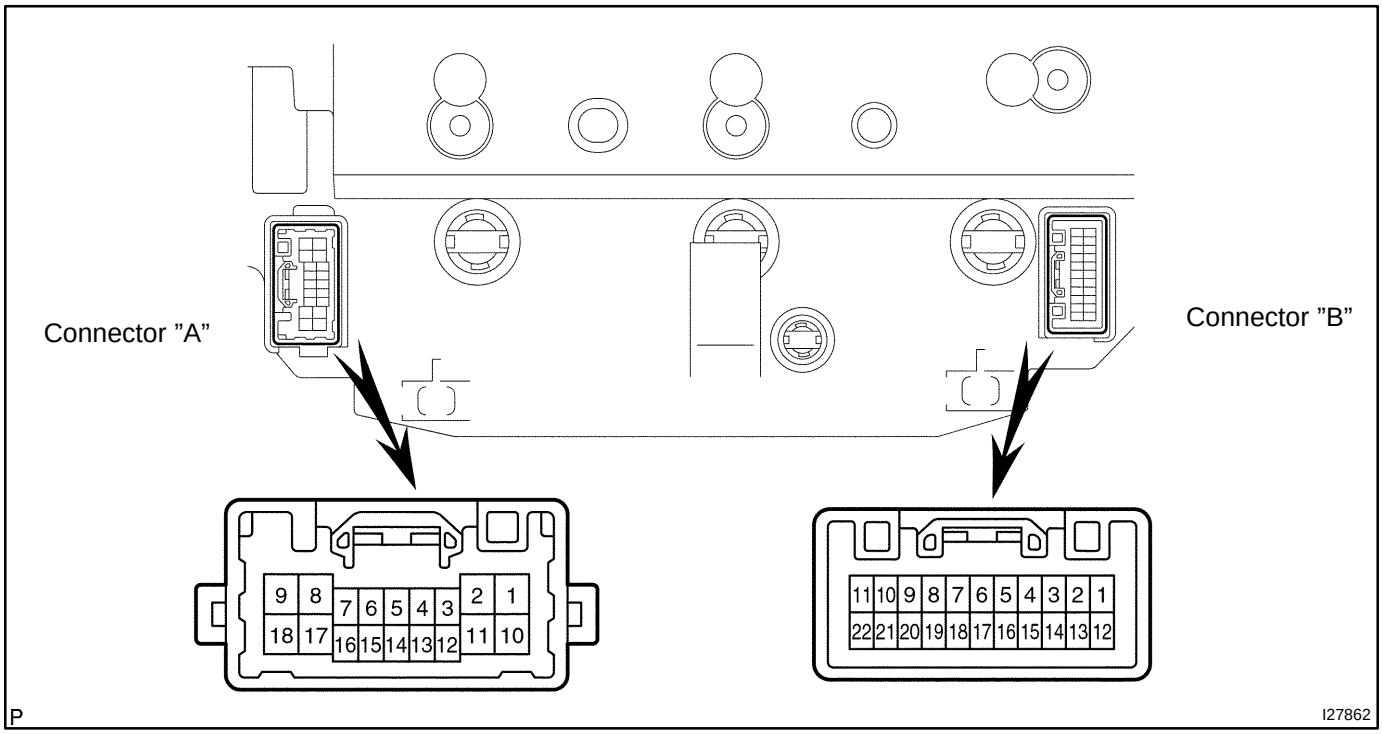
I28026

Tester connection	Condition	Specified condition
A10 − Ground	Constant	Continuity
A14 − Ground	Turn ignition switch ON	Battery positive voltage
	Turn ignition switch OFF	No voltage
A15 − Ground	Constant	Battery positive voltage
A9 − Ground	Turn ignition switch to ACC	Battery positive voltage
	Turn ignition switch OFF	No voltage

If the result is as specified, replace the amplifier with a new one.
If the result is not as specified, inspect the circuits connected to other parts.

(b) Connect the connectors to the A/C control assembly and inspect the connectors on the wire harness side from the back side, as shown in the chart below.
Test condition:

- Run the engine at idle speed
- Set the manifold gauge set



Tester connection	Condition	Specified condition
A10 − Ground	Constant	Continuity
A18 − Ground	Magnetic clutch is engaged	Battery positive voltage
	Magnetic clutch is not engaged	Below 1.0 V
B8 − Ground	Air inlet switch ”FRESH”	Battery positive voltage
	Air inlet switch ”RECIRC”	Below 1.0 V
B7 − Ground	Air inlet switch ”RECIRC”	Battery positive voltage
	Air inlet switch ”FRESH”	Below 1.0 V
B12 − Ground	A/C switch ON	9.0 V
	A/C switch OFF	Below 1.0 V

If the result is as specified, replace the amplifier with a new one.
If the result is not as specified, inspect the circuits connected to other parts.