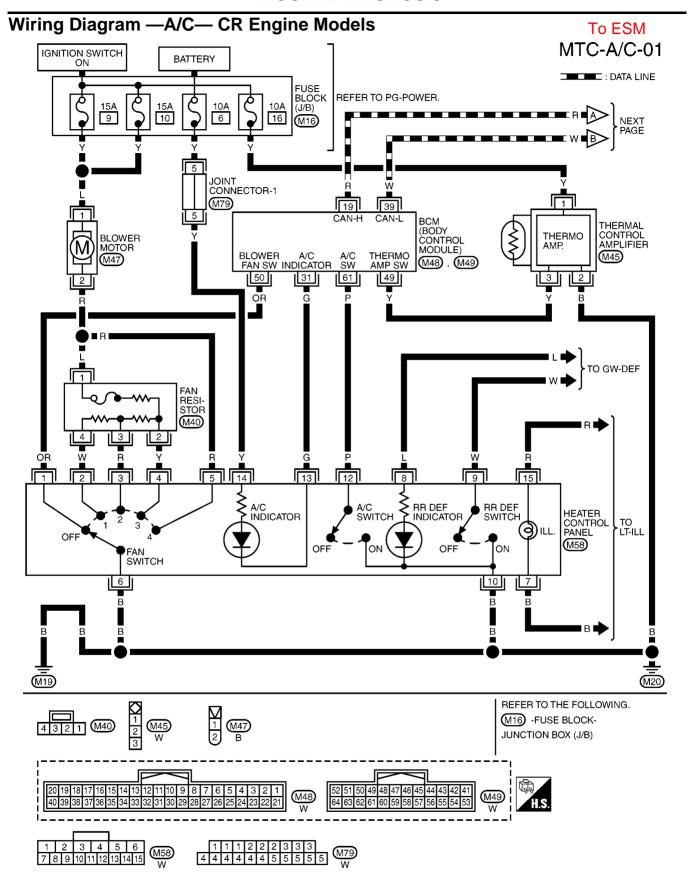
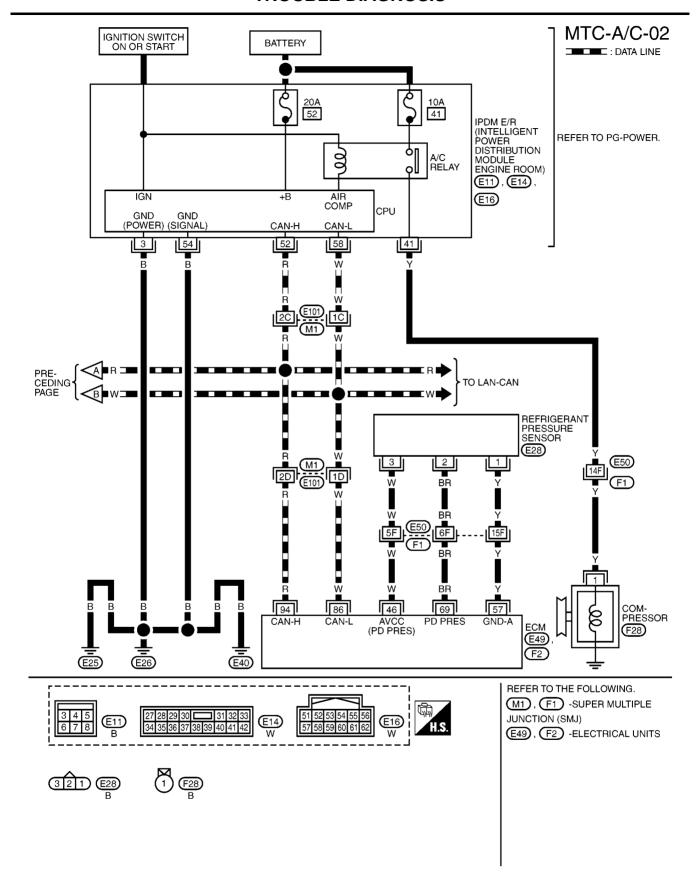
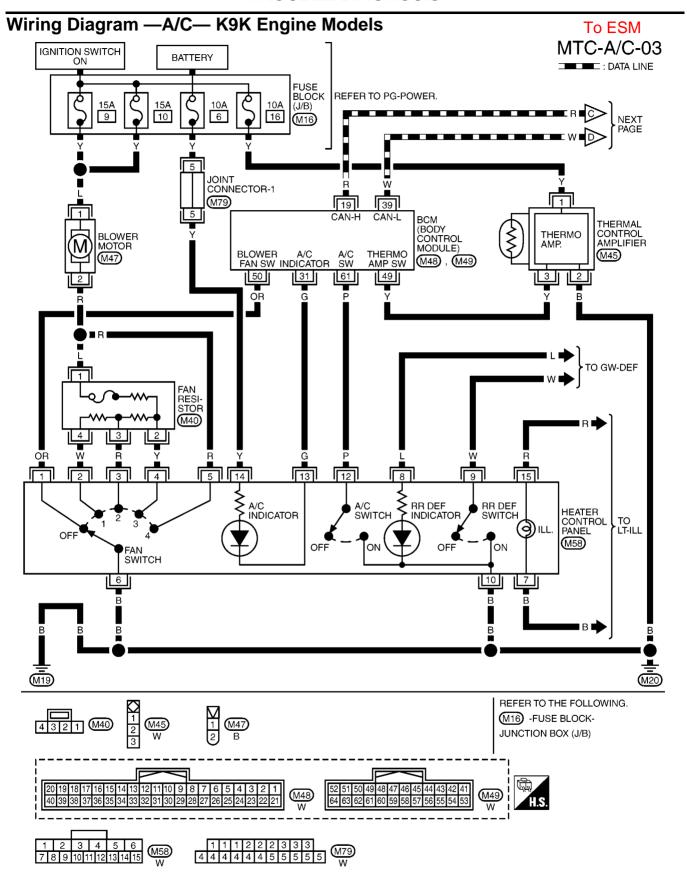
TROUBLE DIAGNOSIS Wiring Diagram —HEATER— To ESM MTC-HEATER-01 IGNITION SWITCH ON FUSE BLOCK (J/B) REFER TO PG-POWER. 15A 9 15A 10 (M16) П BCM (BODY CONTROL MODULE) BLOWER MOTOR BLOWER FAN SW (M47) (M49) OR TO GW-DEF FAN RESISTOR (M40) OR 1 15 8 RR DEF INDICATOR RR DEF SWITCH HEATER CONTROL PANEL TO LT-ILL **(3**) ILL. OFF (M58) OFF ON FAN SWITCH 10 6 В В В M19 REFER TO THE FOLLOWING. M16 -FUSE BLOCK-52 51 50 49 48 47 46 45 44 43 42 41 64 63 62 61 60 59 58 57 56 55 54 53 (M49) JUNCTION BOX (J/B) 3 4



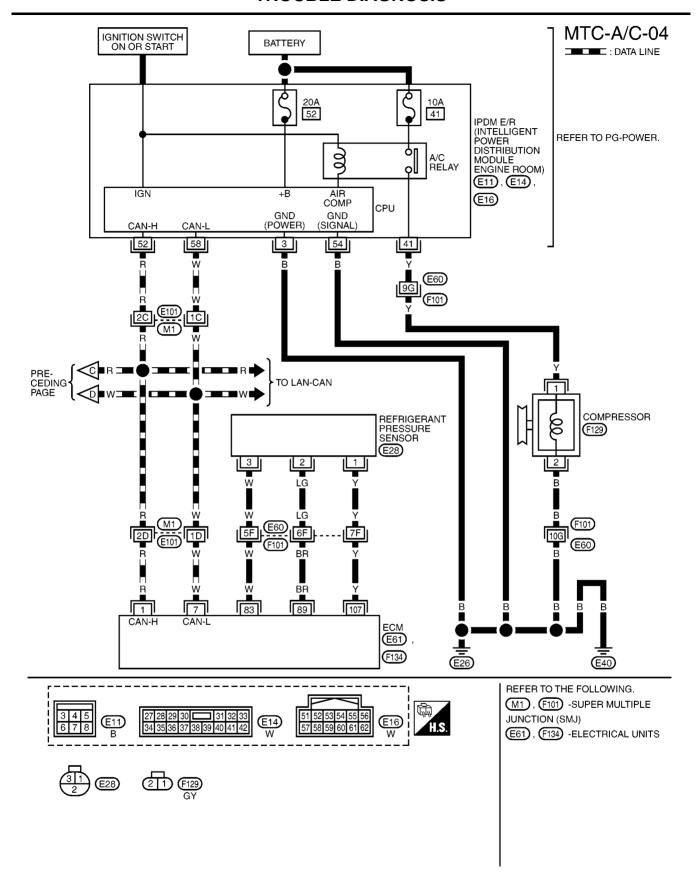
MJWA0115E



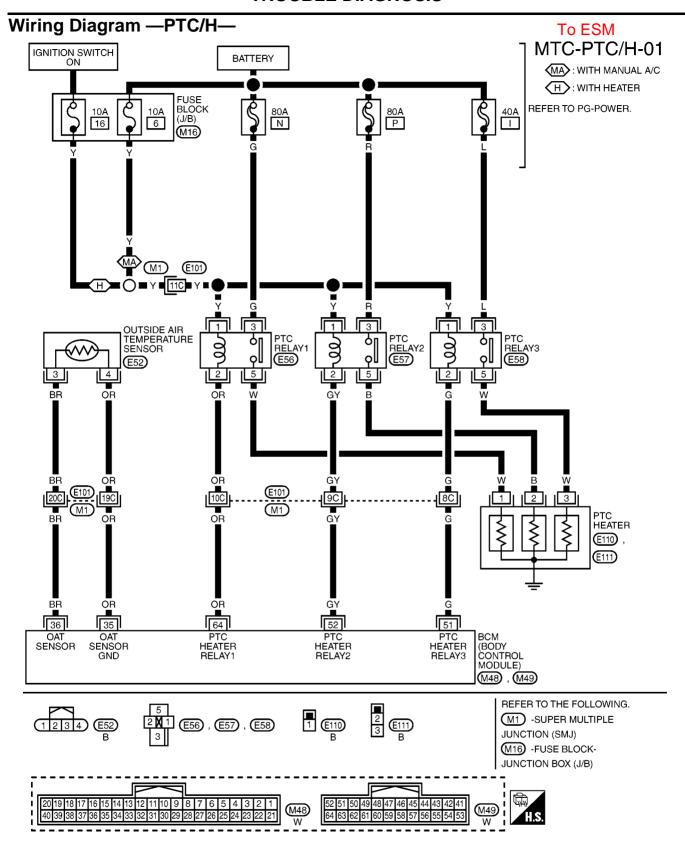
MJWA0019E



MJWA0116E



MJWA0042E



MJWA0145E

PTC heater function is intended to improve the heating performance with CTP electrical system for air heating system which is broken down into several stages controlled by relays.

Blower Fan Motor System INSPECTION PROCEDURE

To ESM

Symptom: Blower fan motor does not operate.

1. START INSPECTION

Check blower fan motor operation at each fan speed.

1 : Blower fan motor does not operate at all.

2 : Blower fan motor does not operate at one of speeds 1 - 4.

Do inspection results indicate 1 or 2 above?

1 >> GO TO 2.

2 >> GO TO 6.

2. CHECK POWER SUPPLY CIRCUIT

Disconnect blower fan motor connector, turn ignition switch ON, and check voltage between blower fan motor connector terminal and ground.

Connector terminal		Voltage
Blower fan motor	Ground	Battery voltage
1		

OK or NG

OK >> GO TO 3.

NG >>

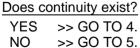
- >> Check power supply circuit and 15A fuses [Nos. 9 and 10, located in the fuse block (J/B)]. Refer to PG-4, "POWER SUPPLY ROUTING" on ESM..
 - If OK, check for open circuit in wiring harness. Repair or replace as necessary.
 - If NG, replace fuse and check wiring harness for short circuit. Repair or replace as necessary.

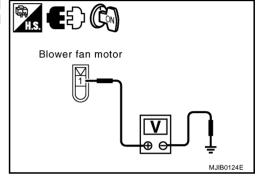
3. CHECK CIRCUIT CONTINUITY

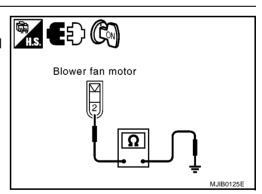
- 1. Turn the fan setting dial (fan switch) to any position except OFF.
- 2. Check continuity between blower fan motor connector terminal and ground.

Connector terminal		Continuity
Blower fan motor		
2 (Without air conditioner)	Ground	Yes
1 (With air conditioner)		









4. CHECK BLOWER FAN MOTOR

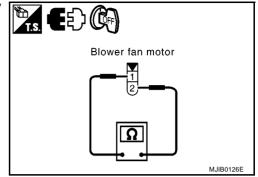
Disconnect the blower fan motor connector, and check continuity between blower fan motor terminals 1 and 2.

Connector terminal		Continuity
Blower fan motor		
1	2	Yes

Does continuity exist?

YES >> End of trouble diagnosis

NO >> Replace the blower fan motor.



5. CHECK CIRCUIT CONTINUITY

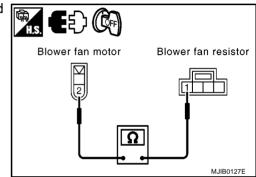
Check continuity between blower fan motor connector terminal and blower fan resistor terminal 1.

Connector terminal		
Blower fan motor	Blower fan Resistor	Continuity
2	1	Yes

Does continuity exist?

YES >> GO TO 6.

NO >> Repair harness or connector.



6. CHECK BLOWER FAN RESISTOR

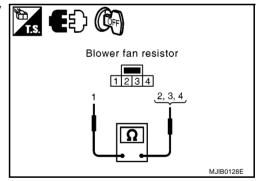
Disconnect blower fan resistor connector, and check continuity between blower fan resistor terminals 1 and 2, 3, 4.

Connector terminal Blower fan resistor		- Continuity
1	3	Approx. 1.4Ω
	4	Approx. 2.7Ω

Does continuity exist?

YES >> GO TO 7.

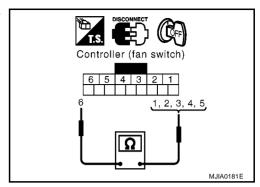
NO >> Replace blower fan resistor.



7. CHECK FAN SWITCH

Disconnect controller connector, and check continuity between controller terminals 1 and 2, 3, 4, 5, 6.

Connecto	or terminal	Condition	Continuity	
Con	troller	Condition	Continuity	
	1	Fan: OFF		
6	5	Fan: Speed 4		
	4	Fan: Speed 3	Yes	
	3	Fan: Speed 2		
	2	Fan: Speed 1		



OK or NG

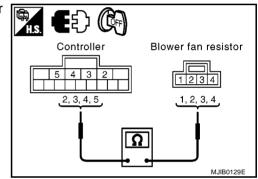
OK >> GO TO 8.

NG >> Replace controller.

8. CHECK CIRCUIT CONTINUITY

Check continuity between the controller and the blower fan resistor terminals.

Connector terminal			
Controller	Blower fan Resistor	Continuity	
5	1		
4	2	Yes	
3	3		
2	4		



Does continuity exist?

YES >> GO TO 9.

NO >> Repair harness or connector.

9. CHECK FAN SWITCH GROUND CIRCUIT

Check continuity between controller terminal 6 and ground.

Connector terminal		Continuity
Controller	Ground	Yes
6		165

Does continuity exist?

YES >> End of trouble diagnosis

NO >> Repair harness or connector.

