



COOLING FAN (1UZ-FE)

SYSTEM OUTLINE

THE COOLING FAN ECU RECEIVES VARIOUS SIGNALS, I.E. THE ENGINE RPM SIGNAL FROM THE IGNITER, THROTTLE POSITION SIGNAL FROM THROTTLE POSITION SENSOR, ENGINE COOLANT TEMPERATURE SIGNAL FROM ENGINE COOLANT TEMP. SENSOR (COOLING FAN), A/C REFRIGERANT PRESSURE SIGNAL FROM A/C SIGNAL PRESSURE SW AND A/C OPERATED CONDITION (A/C COMPRESSOR'S OPERATION AND THE REQUIRED AIR TEMPERATURE) SIGNAL FROM A/C ECU (BUILT IN A/C CONTROL ASSEMBLY).
THE COOLANT FAN ECU JUDGES THE ENGINE AND A/C CONDITION BASED ON THE ABOVE-MENTIONED SIGNALS, DRIVES THE SOLENOID VALVE AND CONTROLS THE SPEED OF THE COOLING FAN STEPLESSLY.

FAIL-SAFE FUNCTION

WHEN A MALFUNCTION IS DETECTED BY THE ENGINE COOLANT TEMP. SENSOR (COOLING FAN) OR THE SOLENOID VALVE, THE FAIL-SAFE FUNCTION OF THE COOLING FAN ECU RELIES ON THE DATA STORED IN THE MEMORY TO ALLOW THE COOLING SYSTEM TO CONTINUE OPERATING.

SERVICE HINTS

A 2 A/C SINGLE PRESSURE SW

2-3: OPEN ABOVE APPROX. 1323 KPA (192 PSI, 13.5 KG/CM²)
CLOSED BELOW APPROX. 980 KPA (142 PSI, 10 KG/CM²)

C18 COOLING FAN ECU

1- 4: 10-14 VOLTS WITH IGNITION SW ON
9-10: 2.5 VOLTS AT 20°C (68°F) AND THE IGNITION SW ON
1.2 VOLTS AT 80°C (176°F) AND THE IGNITION SW ON
8- 4: 10-14 VOLTS AT A/C HIGH PRESSURE SW ON (OPEN)
0- 3 VOLTS AT A/C HIGH PRESSURE SW OFF (CLOSED)

4-GROUND: ALWAYS CONTINUITY

E 4 ENGINE COOLANT TEMP. SENSOR (COOLING FAN)

1-2: 1.5 K Ω AT 80°C (176°F)
0.7 K Ω AT 110°C (230°F)



: PARTS LOCATION

| CODE | SEE PAGE | CODE | SEE PAGE | CODE | SEE PAGE |
|------|----------|------|----------|------|----------|
| A 2 | 26 | D 1 | 26 | S 2 | 27 |
| C18 | 30 | E 4 | 26 | | |



: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

| CODE | SEE PAGE | JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION) |
|------|----------|--|
| 11 | 20 | COWL WIRE AND J/B NO.1 (LeFT KICK PANEL) |



: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

| CODE | SEE PAGE | JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION) |
|------|------------|--|
| EC2 | 36(1UZ-FE) | ENGINE WIRE AND ENGINE NO. 4 WIRE (FRONT SIDE OF CYLINDER HEAD COVER LH) |
| IE2 | 40 | ENGINE ROOM MAIN WIRE AND COWL WIRE (BEHIND GLOVE BOX) |
| IG3 | 40 | INSTRUMENT PANEL WIRE AND COWL WIRE (RIGHT KICK PANEL) |
| IJ2 | 40 | ENGINE WIRE AND COWL WIRE (RIGHT KICK PANEL) |



: GROUND POINTS

| CODE | SEE PAGE | GROUND POINTS LOCATION |
|------|-----------|----------------------------|
| EA | 36(UZ-FE) | FRONT SIDE OF RIGHT FENDER |
| IJ | 40 | RIGHT KICK PANEL |



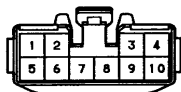
: SPLICE POINTS

| CODE | SEE PAGE | WIRE HARNESS WITH SPLICE POINTS | CODE | SEE PAGE | WIRE HARNESS WITH SPLICE POINTS |
|------|----------|---------------------------------|------|----------|---------------------------------|
| I21 | 42 | COWL WIRE | | | |

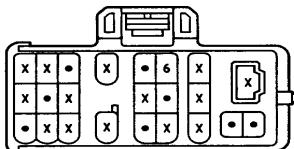
A 2 BLACK



C18 GRAY



D 1 BLACK



E 4 BROWN



S 2 GRAY

