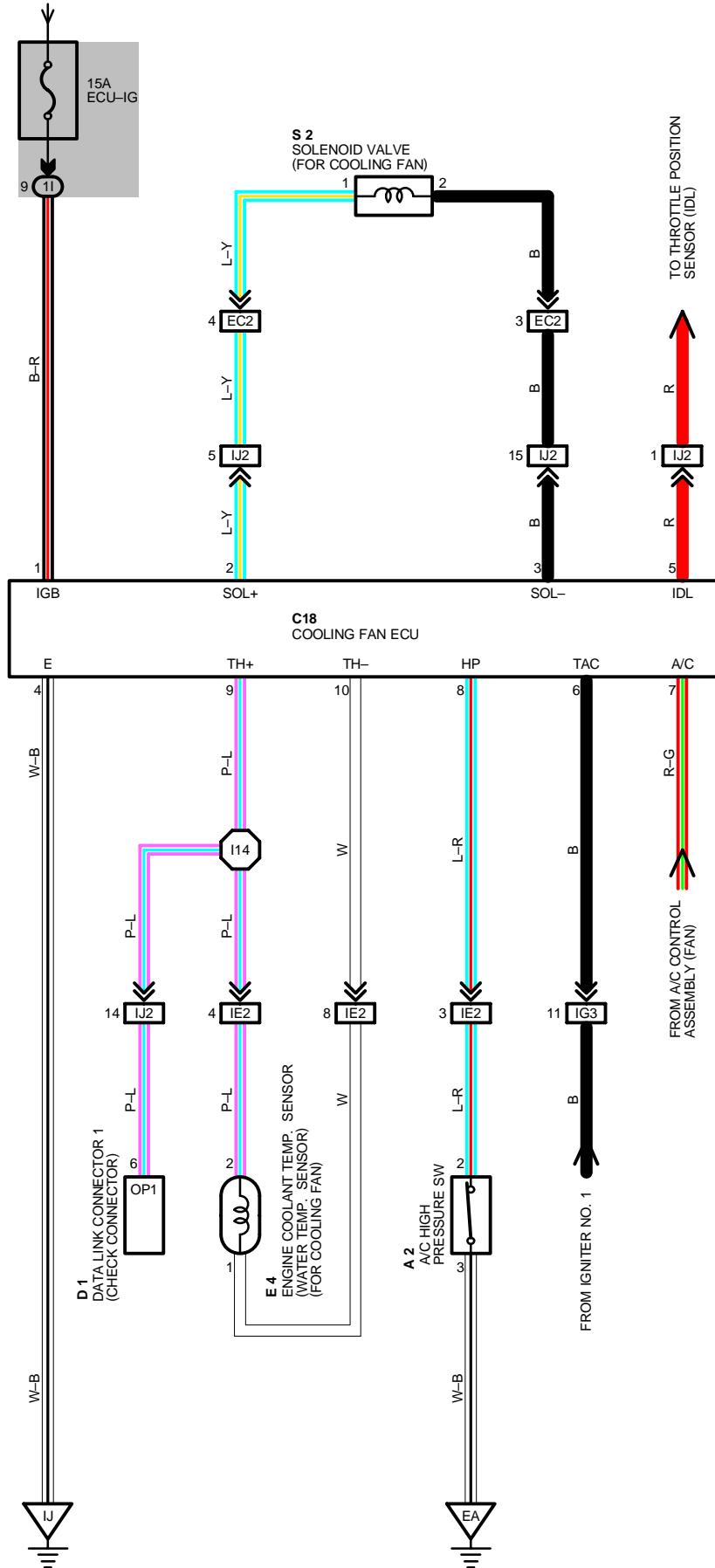


ELECTRONICALLY CONTROLLED HYDRAULIC COOLING FAN (SC400)

FROM POWER SOURCE SYSTEM (SEE PAGE 60)



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 (WATER TEMP. SENSOR (FOR COOLING FAN)), A/C REFRIGERANT PRESSURE SIGNAL FROM A/C HIGH 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 COOLING 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 (WATER TEMP. SENSOR (FOR COOLING FAN)) OR THE SOLENOID VALVE, THE FAIL-SAFE FUNCTION OF THE COOLING FAN ECU RELIES ON THE DATA STORED IN ITS 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 THE IGNITION SW ON
9-10: 2.5 VOLTS AT 20°C (68°F) AND IGNITION SW ON
1.2 VOLTS AT 80°C (176°F) AND 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 (WATER TEMP. SENSOR) (FOR COOLING FAN)

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

○ : PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
A 2	26 (1UZ-FE), 28 (2JZ-FE)	D 1	26 (1UZ-FE), 28 (2JZ-FE)	S 2	26 (1UZ-FE), 28 (2JZ-FE)
C18	30	E 4	26 (1UZ-FE), 28 (2JZ-FE)		

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
11	20	COWL WIRE

□ : 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)

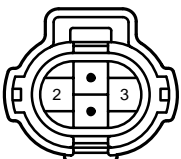
▽ : GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
EA	36 (1UZ-FE)	FRONT SIDE OF RIGHT FENDER
IJ	40	RIGHT KICK PANEL

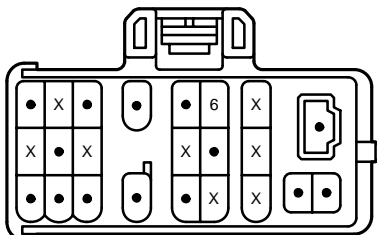
○ : SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I14	42	COWL WIRE			

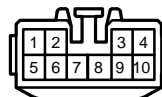
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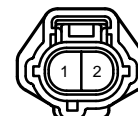
D 1 BLACK



C18 GRAY



E 4 BROWN



S 2 GRAY

