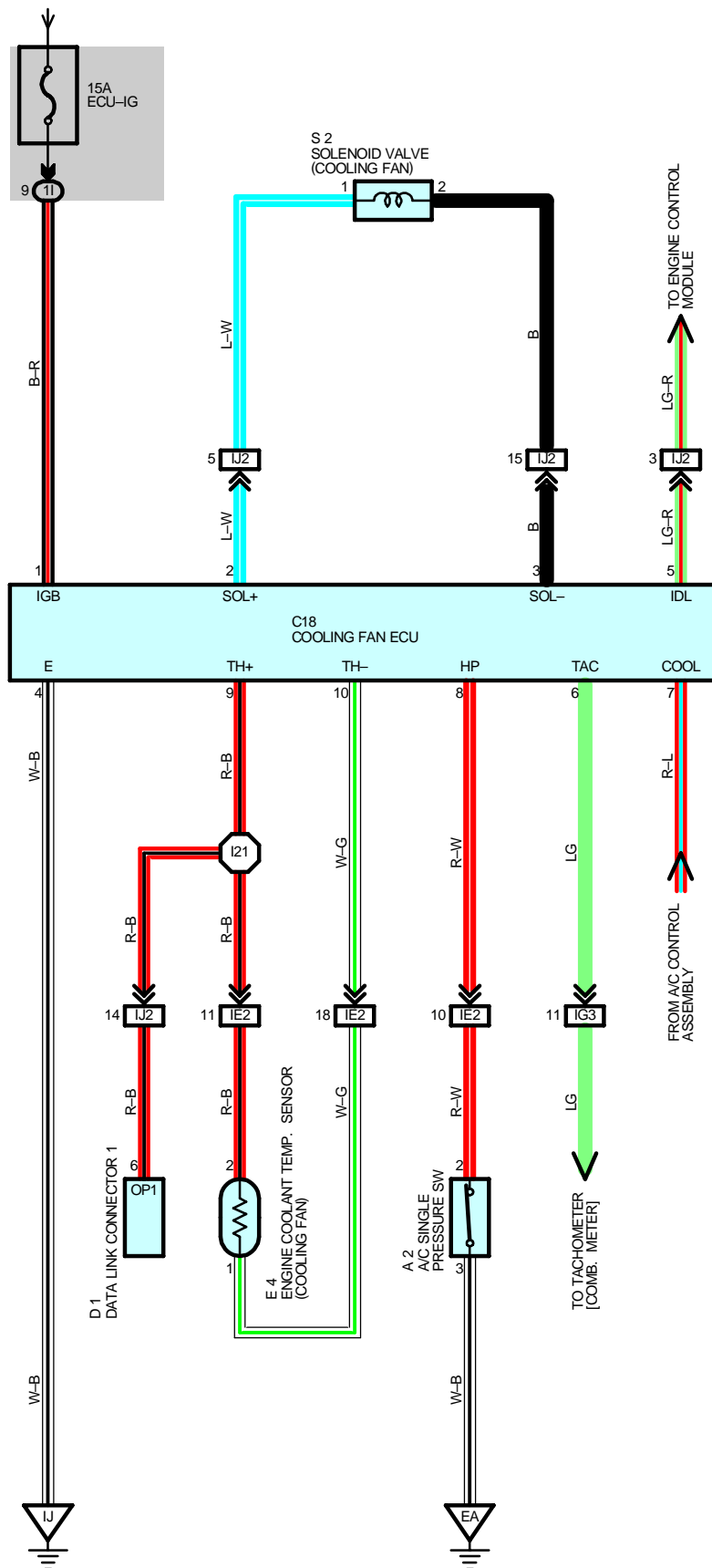


# ELECTRONICALLY CONTROLLED HYDRAULIC COOLING FAN

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 (Cooling fan), A/C refrigerant pressure signal from A/C single 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 (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

### A2 A/C SINGLE PRESSURE SW

- 2-3 : Open above approx. **1323 kpa (192 psi, 13.5 kgf/cm<sup>2</sup>)**  
 Closed below approx. **980 kpa (142 psi, 10 kgf/cm<sup>2</sup>)**

### 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-GROUND : **10-14** volts at A/C single pressure SW on (Open)  
                   **0-3** volts at A/C single pressure SW off (Closed)  
 4-GROUND : Always continuity

### E4 ENGINE COOLANT TEMP. SENSOR (COOLING FAN)

- 1-2 : **1.5 kΩ** at **80°C (176°F)**  
       **0.7 kΩ** at **110°C (230°F)**

## ○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A2	<a href="#">26 (1UZ-FE)</a>	D1	<a href="#">26 (1UZ-FE)</a>	S2	<a href="#">27 (1UZ-FE)</a>
C18	<a href="#">30</a>	E4	<a href="#">26 (1UZ-FE)</a>		

## □ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
11	<a href="#">20</a>	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)
IE2	<a href="#">40</a>	Engine Room Main Wire and Cowl Wire (Behind Glove Box)
IG3	<a href="#">40</a>	Instrument Panel Wire and Cowl Wire (Right Kick Panel)
IJ2	<a href="#">40</a>	Engine Wire and Cowl Wire (Right Kick Panel)

## ▽ : GROUND POINTS

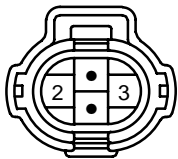
Code	See Page	Ground Points Location
EA	<a href="#">36 (1UZ-FE)</a>	Front Side of Right Fender
IJ	<a href="#">40</a>	Right Kick Panel

## ○ : SPLICE POINTS

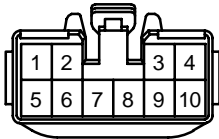
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I21	<a href="#">42</a>	Cowl Wire			

# ELECTRONICALLY CONTROLLED HYDRAULIC COOLING FAN

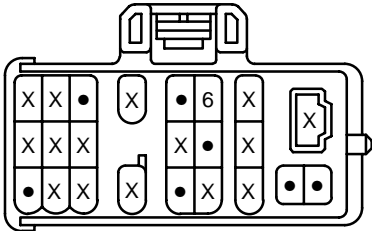
A2 BLACK



C18 GRAY



D1 BLACK



E4 BROWN



S2 GRAY



