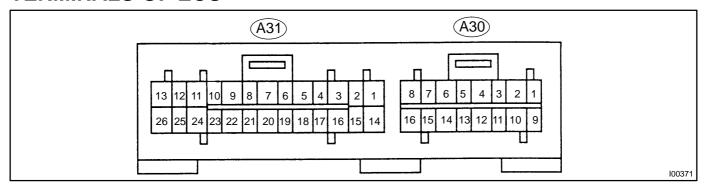
## DI3VW-08

## **TERMINALS OF ECU**



Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
		IG ON. Ambient temp.: 25 °C (77 °F)	1.35 - 1.75 V
TAM (A30 - 3) - SG (A31 - 1)	B-L - GR	IG ON. Ambient temp.: 40 °C (104 °F)	0.85 - 1.25 V
		IG ON. Ambient temp.: 25 °C (77 °F) IG ON. Ambient temp.: 40 °C (104 °F) IG ON. Room temp.: 25 °C (77 °F) IG ON. Room temp.: 25 °C (77 °F) IG ON. Sensor subjected to electrical light. IG ON. Sensor covered by cloth IG ON. Evaporator temp.: 0 °C (32 °F) IG ON. Evaporator temp.: 15 °C (59 °F) IG ON. Push REC switch IG ON. Push FRS switch Set temp.: Max. Cool Set temp.: Max. Hot IG ON. IG ON. Disconnect the pressure switch connector. Start the Engine (Idling). Operate the compressor Start the Engine (Idling). Do not operate compressor IG ON. Start the engine, AUTO switch ON and magnetic clutch ON. Start the engine, AUTO switch ON and magnetic clutch OFF. IG ON. Operate the blower motor  Always IG ON. Air Flow: FACE IG ON. IG ON. Do not operate the blower motor IG ON. Do not operate the blower motor IG ON. Solar sensor subjected to electrical light. IG ON. Solar sensor covered by a cloth. IG OFF.	1.8 - 2.2 V
TR (A30 - 4) - SG (A31 - 1)	B-Y - GR		1.2 - 1.6 V
		IG ON. Ambient temp.: 25 °C (77 °F) IG ON. Ambient temp.: 40 °C (104 °F) IG ON. Room temp.: 25 °C (77 °F) IG ON. Room temp.: 25 °C (77 °F) IG ON. Sensor subjected to electrical light. IG ON. Sensor covered by cloth IG ON. Evaporator temp.: 0 °C (32 °F) IG ON. Evaporator temp.: 15 °C (59 °F) IG ON. Push REC switch IG ON. Push FRS switch Set temp.: Max. Cool Set temp.: Max. Hot IG ON. IG ON. Disconnect the pressure switch connector. Start the Engine (Idling). Operate the compressor Start the Engine (Idling). Do not operate compressor IG ON. Start the engine, AUTO switch ON and magnetic clutch ON. Start the engine, AUTO switch ON and magnetic clutch OFF. IG ON. Operate the blower motor  Always IG ON. Air Flow: FACE IG ON. IG ON. Do not operate the blower motor IG ON. Solar sensor subjected to electrical light. IG ON. Solar sensor covered by a cloth. IG OFF.	1.0 V or more
TS (A30 - 5) - SG (A31 - 1)	P - GR		Below 1.0 V
		IG ON. Ambient temp.: 25 °C (77 °F) IG ON. Ambient temp.: 40 °C (104 °F) IG ON. Room temp.: 25 °C (77 °F) IG ON. Room temp.: 25 °C (77 °F) IG ON. Room temp.: 25 °C (77 °F) IG ON. Sensor subjected to electrical light. IG ON. Sensor covered by cloth IG ON. Evaporator temp.: 0 °C (32 °F) IG ON. Evaporator temp.: 15 °C (59 °F) IG ON. Push REC switch IG ON. Push FRS switch Set temp.: Max. Cool Set temp.: Max. Hot IG ON. IG ON. Disconnect the pressure switch connector. Start the Engine (Idling). Operate the compressor Start the Engine (Idling). Do not operate compressor IG ON. Start the engine, AUTO switch ON and magnetic clutch ON. Start the engine, AUTO switch ON and magnetic clutch OFF. IG ON. Operate the blower motor  Always IG ON. Air Flow: FACE IG ON. IG ON. Do not operate the blower motor IG ON. Do not operate the blower motor IG ON. Solar sensor subjected to electrical light. IG ON. Solar sensor covered by a cloth. IG OFF.	2.0 - 2.4 V
TE (A30 - 6) - SG (A31 - 1)	W-R - GR	IG ON. Evaporator temp.: 15 °C (59 °F)	1.4 - 1.8 V
		IG ON. Push REC switch	3.5 - 4.5 V
TPI (A30 - 7) - SG (A31 - 1)	V - GR	IG ON. Push FRS switch	0.5 - 1.8 V
<b></b> (100 0) 00 (101 1)		IG ON. Ambient temp.: 40 °C (104 °F) IG ON. Room temp.: 25 °C (77 °F) IG ON. Room temp.: 40 °C (104 °F) IG ON. Sensor subjected to electrical light. IG ON. Sensor covered by cloth IG ON. Evaporator temp.: 0 °C (32 °F) IG ON. Evaporator temp.: 15 °C (59 °F) IG ON. Push REC switch IG ON. Push FRS switch Set temp.: Max. Cool Set temp.: Max. Hot IG ON. Disconnect the pressure switch connector. Start the Engine (Idling). Operate the compressor Start the Engine (Idling). Do not operate compressor IG ON. Start the engine, AUTO switch ON and magnetic clutch ON. Start the engine, AUTO switch ON and magnetic clutch OFF. IG ON. Operate the blower motor Always IG ON. Air Flow: FACE IG ON. IG ON. Operate the blower motor IG ON. Do not operate the blower motor IG ON. Solar sensor subjected to electrical light.	3.5 - 4.5 V
TP (A30 - 8) - SG (A31 - 1)	B - GR	Set temp.: Max. Hot	0.5 - 1.8 V
DOW(400 0) OND (404 44)	O - W-B	IG ON.	Below 1.0 V
PSW(A30-9) - GND (A31-14)		IG ON. Disconnect the pressure switch connector.	10 - 14 V
AOT (AOO 40) OND (AO4 44)		Start the Engine (Idling). Operate the compressor	10 - 14 V
ACT (A30-10) - GND (A31-14)	L-B - W-B	Start the Engine (Idling). Do not operate compressor	Below 1.5 V
VER1 (A30-11) - GND (A31-14)	W-B - W-B	IG ON.	Below 1.0 V
	L-Y - W-B	Start the engine, AUTO switch ON and magnetic clutch ON.	Below 1.0 V
AC1 (A30-13) - GND (A31-14)		Start the engine, AUTO switch ON and magnetic clutch OFF.	10 - 14 V
BLW (A30-16) - GND (A31-14)	R-W - W-B	IG ON. Operate the blower motor	Below 1.5 V
SG (A31-1) - Body Ground	GR - Body Ground	Always	1 Ω or less
FACE (A31-4) - GND (A31-14)	G-B - W-B	IG ON. Air Flow: FACE	Below 1.0 V
AIF (A31-6) - AIR - (A31-7)	Y-G - R-G	IG ON.	No voltage
AMC (A31-8) - AMH (A31-9)	W - R	IG ON.	13 - 19 Ω
		IG ON. Operate the blower motor	Below 1.0 V
HR (A31-10) - GND (A31-14)	Y-R - W-B	IG ON. Do not operate the blower motor	10 - 14 V
S5 (A31-11) - SG (A31-1)	Y - GR	IG ON.	4 - 6 V
05 (104 44) = 70 (100 5)	Y - P	IG ON. Solar sensor subjected to electrical light.	Below 4.0 V
S5 (A31-11) - TS (A30-5)		IG ON. Solar sensor covered by a cloth.	4.0 - 4.5 V
B (A31-13) - GND (A31-14)	L-R - W-B	IG OFF.	10 - 14 V
GND (A31-14) - Body Ground	W-B - Body Ground	Always	1 Ω or less
SPD (A31-15) - GND (A31-14)	G-O - W-B	Turn propeller shaft slowly	Pulse

2002 4RUNNER (RM887U)

Author: Date: 760

## DIAGNOSTICS - AIR CONDITIONING SYSTEM

B/L (A31-17) - GND (A31-14)	G-W - W-B	IG ON. Air Flow: BI-LEVEL.	Below 1.0 V
FOOT (A31-18) - GND (A31-14)	R-L - W-B	IG ON. Air Flow: FOOT.	Below 1.0 V
F/D (A31-19) - GND (A31-14)	P-B - W-B	IG ON. Air Flow: FOOT/DEF	Below 1.0 V
DEF (A31-20) - GND (A31-14)	Y-B - W-B	IG ON. Air Flow: DEF	Below 1.0 V
ED (404.00) OND (404.44)	5.V. W.5	IG ON. Operate blower motor	Below 1.0 V
FR (A31-23) - GND (A31-14)	R-Y - W-B	IG ON. Operate blower motor  IG ON. Do not operate blower motor	10 - 14 V
IG+ (A31-26) - GND (A31-14)	B-Y - W-B	IG ON.	10 - 14 V

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Author: Date: 761