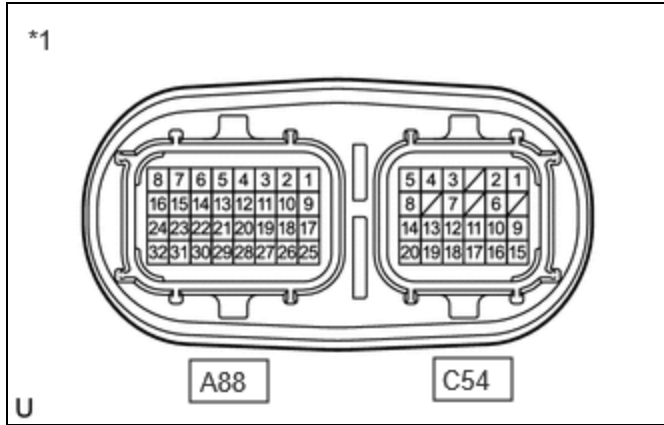


<b>Last Modified:</b> 12-04-2024	6.11:8.1.0	<b>Doc ID:</b> RM100000028ZWS
<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> HYBRID / BATTERY CONTROL: MOTOR GENERATOR CONTROL SYSTEM (for M20A-FXS): TERMINALS OF ECU; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

## TERMINALS OF ECU



*1	Inverter with Converter Assembly
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**HINT:**

Since the inverter with converter assembly uses waterproof connectors, the voltage and waveforms cannot be inspected directly. Standard voltage readings and waveforms are indicated for reference only.

### Inverter with Converter Assembly

CONNECTOR CODE	TERMINAL NO.	SYMBOL	TERMINAL DESCRIPTION
A88	1	IGC1	Motor generator control ECU (MG ECU) power source
	2	NE	Crankshaft position sensor signal
	3	CALH	CAN communication signal
	4	GND1	Ground
	5	CANH	CAN communication signal
	6	CANL	CAN communication signal
	7	RRFG*1	Rear motor resolver reference signal ground
	8	RRF*1	Rear motor resolver reference signal
	9	IGC2	Motor generator control ECU (MG ECU) power source
	10	GI	Camshaft position sensor signal
	11	CALL	CAN communication signal
	12	GND2	Ground
	13	CADH	CAN communication signal
	14	CADL	CAN communication signal
	15	DRN7*1	Ground for shield
	16	-	-

CONNECTOR CODE	TERMINAL NO.	SYMBOL	TERMINAL DESCRIPTION
	17	-	-
	18	-	-
	19	DRN5	Ground for shield
	20	DRN1	Ground for shield
	21	-	-
	22	-	-
	23	RCSG*1	Rear motor resolver signal ground
	24	RCS*1	Rear motor resolver signal
	25	-	-
	26	HSDN	MG shutdown signal
	27	DRN2	Ground for shield
	28	-	-
	29	HMCH	Communication signal
	30	HMCL	Communication signal
	31	RSNG*1	Rear motor resolver signal ground
	32	RSN*1	Rear motor resolver signal
C54	1	MRF	Motor resolver reference signal
	2	MRFG	Motor resolver reference signal ground
	3	GRF	Generator resolver reference signal
	4	GRFG	Generator resolver reference signal ground
	5	MMT	Motor temperature sensor
	6	DRN6	Ground for shield
	7	DRN3	Ground for shield
	8	MMTG	Motor temperature sensor ground
	9	MSN	Motor resolver signal
	10	MSNG	Motor resolver signal ground
	11	TTAG	Transmission fluid temperature sensor ground
	12	GSNG	Generator resolver signal ground
	13	GSN	Generator resolver signal
	14	GMTG	Generator temperature sensor ground
	15	MCS	Motor resolver signal
	16	MCSG	Motor resolver signal ground
	17	TTA	Transmission fluid temperature sensor
	18	GCSG	Generator resolver signal ground
	19	GCS	Generator resolver signal

CONNECTOR CODE	TERMINAL NO.	SYMBOL	TERMINAL DESCRIPTION
	20	GMT	Generator temperature sensor

\*1: for 4WD

**NOTICE:**

Do not measure the voltage or waveform on the sealed side of the inverter with converter assembly connector. Doing so may damage the connector because the connector is waterproof.

