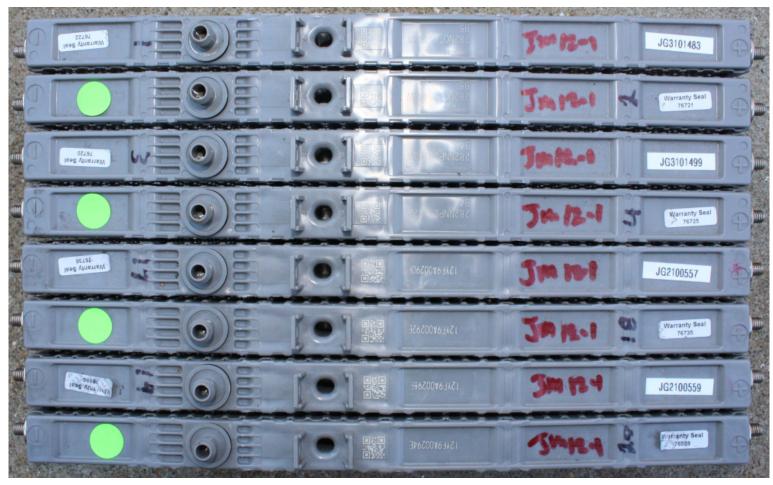
2007 Toyota Prius Main Battery Replacement



8 Battery Modules for Replacement (Up to bottom; N1, N2, N3, N4, N5, N6, N7, N8)



Main HV Battery Body Exposed



Main HV Battery Casing Removed (Battery modules are placed next to controller block, #1, to the far end, #28)

Main HV (High Voltage or Hybrid Vehicle) battery consists of 14 banks.

Each bank consists of two battery modules.

Total 28 battery modules are serially connected to provide high DC (Direct Current) voltage of 220V to 240V capable of flowing big current to DC motors for driving tires.



8 Battery Modules for Replacement (Left; N7, N5, N6, N1, N2, N3, N4, N8) vs. Target (Right; #1 – #28) (Both up to bottom)

A summary chart at last page clarifies the relationship and each voltages.

Before Replacement				After Replacement				
	Dia	agnostic Code:				Diagnostic Code:		
		Code	Description			Code Description		
	83	P0A80	Replace Hybrid Battery	Pack		None		
	Γ	P3018	Battery Block 8 Becom	es Weak				
		P3019	Battery Block 9 Becom	es Weak				
	83	P3020	Battery Block 10 Becon	nes Weak				
		P3021	Battery Block 11 Becon	nes Weak				
	-		+		Diagnos	Lic Result		
1	_	Parameter		Value				
Batt Block Min	imu	n Vol		14.15	V	Parameter	Value	Unit
Battery Block				15.34	v	Batt Block Max Vol	16.71	V
Battery Block Vol -V02			15.53	V	Battery Block Vol -V01	16.67	V	
Battery Block Vol -V02			15.57	v	Battery Block Vol -V02	16.67	V	
Battery Block Vol -V04			15.48	v	Battery Block Vol -V03	16.69	V	
Battery Block Vol -V05			15.55	V	Battery Block Vol -V04	16.59	V	
Battery Block Vol - V06			15.54	V	Battery Block Vol -V05	16.71	V	
			15.56	V	Battery Block Vol -V06	16.67	V	
			14.19	V	Battery Block Vol -V07	16.68	V	
Battery Block				15.57	V	Battery Block Vol -V08	16.61	V
Battery Block				14.15	V	Battery Block Vol -V09	16.69	V
Battery Block	Vol -	V11		15.53	V	Battery Block Vol -V10	16.64	V
Battery Block	Vol -	V12		15.50	V	Battery Block Vol -V11	16.66	V
Battery Block	Vol -	V13		15.56	V	Battery Block Vol -V12	16.61	V
Battery Block				15.29	V	Battery Block Vol -V13	16.69	V
Max Battery B				3		Battery Block Vol -V14	16.65	V
Minimum Batt	Bloc	k No		10				
				Voltage	Measurem	ent by Tech Stream		

(1) High voltage went up from 214.36V to 233.23V, around 20V (10%) up. (2) Battery block voltage became averaged (16.66 V \pm 0.05V).

These facts certify that weakening battery modules were properly identified and replaced.

		OBDII	Tech Stream	Measurement		OBDII	Tech Stream
Block #	Module #		Before replac	Module Assignment	After replacement		
1	1		15.34 V	7.43 V	N7		16 67 1
	2			7.72 V			16.67 V
2	3			7.73 V			16 67 1/
	4		15.53 V	7.72 V			16.67 V
3	5		15.57 V	7.71 V			16.69 V
	6			7.71 V			
	7		15.48 V	7.71 V			16.59 V
4	8			7.72 V			
F	9		15.55 V	7.71 V			16 71 \/
5	10			6.47 V	N5		16.71 V
6	11		15.54 V	7.73 V			16.67 V
	12			7.73 V			
7	13		15.56 V	6.48 V	N6		16.68 V
/	14			7.73 V			10.00 V
8	15	P3018	14.19 V	7.73 V	N1		16.61 V
0	16			7.74 V	N2		10.01 V
9	17	P3019	15.57 V	7.73 V			16.69 V
9	18			7.73 V			
10	19	P3020	14.15 V	7.72 V	N3		16.64 V
10	20			7.72 V	N4		10.04 V
11	21	P3021	15.53 V	7.69 V			16.66 V
11	22			7.70 V			
12	23		15.50 V	7.74 V			16.61 V
12	24			7.74 V			
13	25		15.56 V	7.72 V			16.69 V
	26			7.74 V			
14	27		15.29 V	7.71 V			16.65 V
14	28			7.46 V	N8		
High Voltage			214.36 V				233.23 V

2007 Prius (Gen2) HV Battery Module Replacement

Replacement Module (Refurbished)	Measurement
N1	7.94 V
N2	7.94 V
N3	7.95 V
N4	7.95 V
N5	7.94 V
N6	7.94 V
N7	7.92 V
N8	7.89 V