TOYOTA

REPAIR MANUAL

5FBCU15-30

CU305

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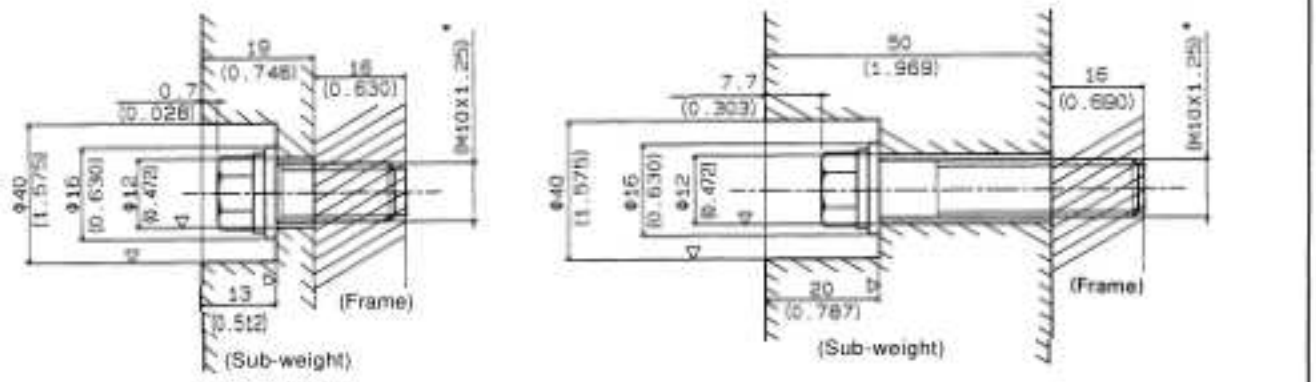
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2. Mounting method

Unit: mm (in)



A-A section for T 19 mm (0.748) sub-weight

A-A section for T 50 mm (1.969 in) sub-weight

* Tapped holes were already bored in frame.

3. Principal Battery Sub-weight and Required Weight.

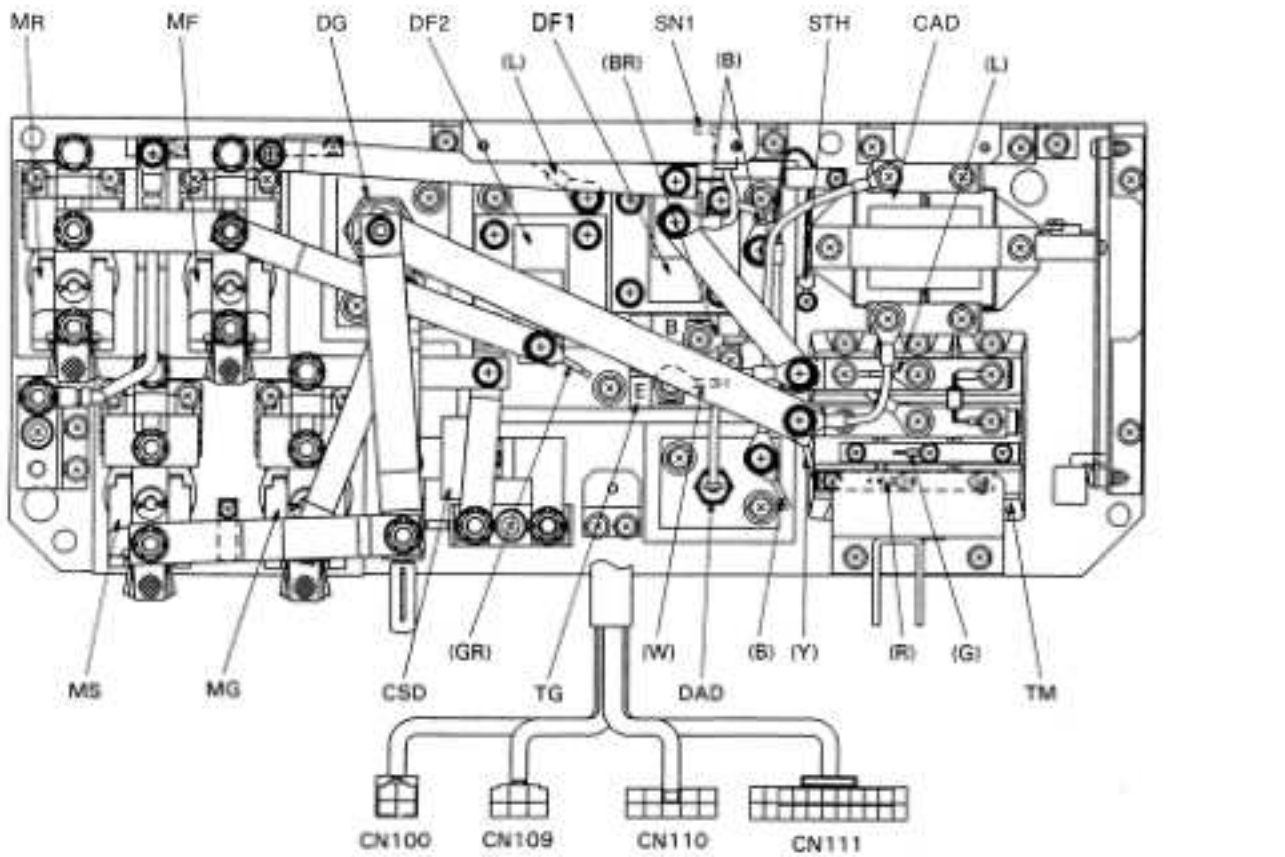
A: T19 mm (0.748 in) 72 kg (158.76 lb)
B: T50 mm (1.969 in) 192 kg (423.36 lb)

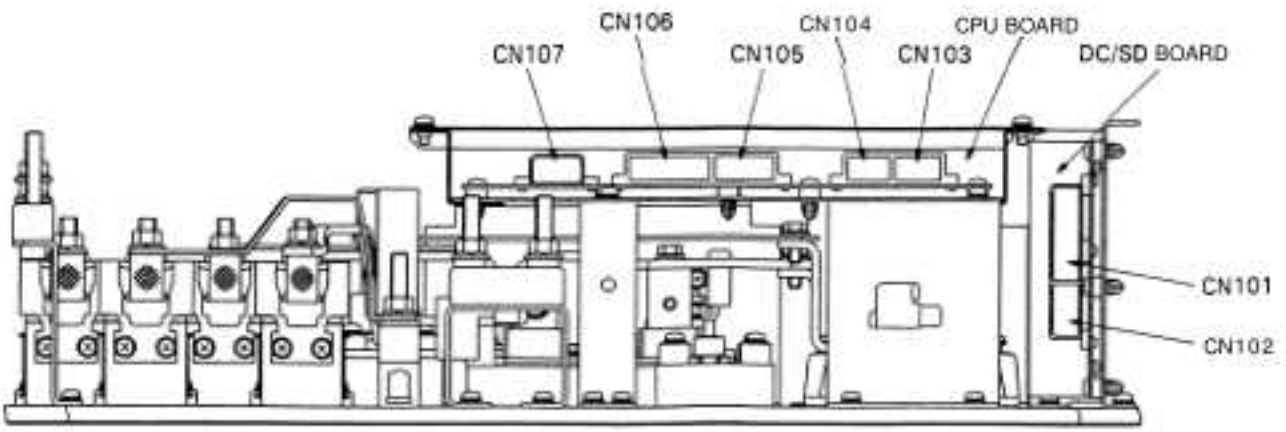
Vehicle type	Minimum battery weight kg (lbs)	Battery Compartment Size W×L×H mm (W×L×H in)	Mounted-Battery (Subweight required)					Weight lacking kg (lbs)	Loadable subweight width mm (in)	
			Manufacturer	Voltage (V)	Battery type	Battery Case Size W×L×H mm (W×L×H in)	Weight kg (lbs)			
5FBCU15 30-5FBCU15	830 (1840)	876×680×585 (34.57×26.77×23.03)	GNB	36	18-75C-15	811×597×575 (31.93×23.50×22.64)	725 (1598)	105 (231)	83 (3.27)	B
					18-85C-15	811×597×575 (31.93×23.50×22.64)	790 (1741)	40 (88)	83 (3.27)	A
					18-75B-15	811×597×575 (31.93×23.50×22.64)	725 (1598)	105 (231)	83 (3.27)	B
				48	24-85C-11	685×648×575 (26.18×25.51×22.64)	778 (1716)	52 (114)	32 (1.26)	A
5FBCU18 30-5FBCU18	910 (2000)	892×710×585 (39.06×27.95×23.03)	GNB	36	18-85C-17	970×508×575 (38.19×20.00×22.64)	899 (1981)	11 (24)	100 (3.94)	A
5FBCU20 30-5FBCU20 5FBCU25 30-5FBCU25	1090 (2400)	892×710×585 (39.06×27.95×23.03)	GNB	36	18-85C-17	970×508×575 (38.19×20.00×22.64)	899 (1981)	191 (420)	100 (3.94)	B
					18-75C-19	973×568×575 (38.31×22.36×22.64)	938 (2069)	152 (334)	76 (2.99)	B
					18-85C-19	973×568×575 (38.31×22.36×22.64)	1023 (2256)	67 (147)	76 (2.99)	A
					18-75B-19	973×568×575 (38.31×22.36×22.64)	938 (2069)	152 (334)	76 (2.99)	B
					18-75C-21	973×629×575 (38.31×24.76×22.64)	1041 (2294)	49 (108)	45.5 (1.79)	A
					18-75B-21	973×629×575 (38.31×24.76×22.64)	1041 (2294)	49 (108)	45.5 (1.79)	A
				48	24-75C-15	970×597×575 (38.19×23.50×22.64)	958 (2111)	132 (290)	61.5 (2.42)	B
					24-85C-15	970×597×575 (38.19×23.50×22.64)	1044 (2302)	46 (101)	61.5 (2.42)	A
					24-75B-15	970×597×575 (38.19×23.50×22.64)	958 (2111)	132 (290)	61.5 (2.42)	B

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Control Panel Internal Wiring Diagrams

"Code in ( ) indicates wire color





Drive Control Panel Internal Wiring Diagram

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TROUBLESHOOTING RELATED TO MULTI-DISPLAY AND MCS COMMUNICATION SYSTEM

ERROR CODE F1: FAILURE IN COMMUNICATION BETWEEN MULTIDISPLAY AND MCS

Check CN107 and harness.
Check the multidisplay connector and harness.
Page 2-27

NG → Retest after repair

OK ↓

- CPU board defect
- Multidisplay or controller defect

ERROR CODE F2: FAILURE IN COMMUNICATION BETWEEN MULTIDISPLAY AND MCS

Check CN107 and harness.
Check the rnultidisplay connector and harness.
Page 2-27

NG → Retest after repair

OK ↓

- CPU board defect
- Multidisplay or controller defect

ERROR CODE F3: POWER CONTROLLER MEMORY VALUE IN CONSISTENCY

Check CN107 and harness.
Check the multidisplay connector and harness.
Page 2-27

NG → Retest after repair

OK ↓

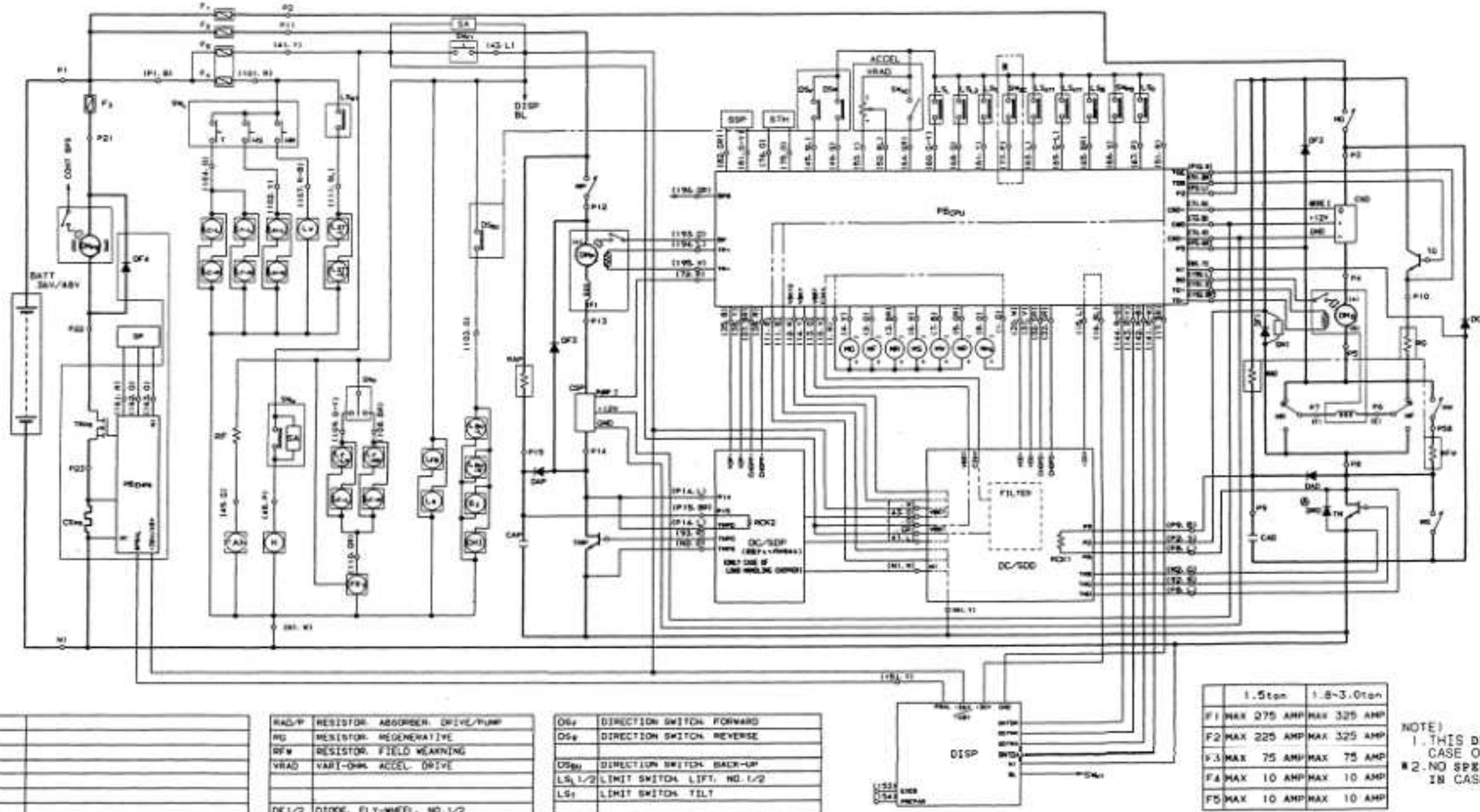
- CPU board defect
- Multidisplay or controller defect

ERROR CODE F4: POWER CONTROLLER MEMORY VALUE ABNORMALITY

- Multidisplay controller defect

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WIRING DIAGRAM



BATT	BATTERY
F1	FUSE. DRIVE
F2	FUSE. PUMP
F3	FUSE. POWER STEERING
F4	FUSE. LAMP
F5	FUSE. CONTROL CIRCUIT
PB_{CPU}	PRINT BOARD. COMPUTER
DC-SDD	DC-DC CONVERTER+SIT DRIVE(DRIVE)
DC-SDP	DC-DC CONVERTER+SIT DRIVE(PUMP)
PB_{EPS}	PRINT BOARD. EHPS
SDD	SIT DRIVER. DRIVE
SDP	SIT DRIVER. PUMP
DISP	DISPLAY
$DM_{D/P}$	MOTOR. DRIVE/PUMP
DM_{PS}	MOTOR. POWER STEERING
TM	TRANSISTOR. MAIN
TMP	TRANSISTOR. MAIN. PUMP
TM_{PS}	TRANSISTOR. MAIN. POWER STEERING
TG	TRANSISTOR. REGENERATIVE

RAD/P	RESISTOR. ABSORBER. DRIVE/PUMP
RG	RESISTOR. REGENERATIVE
RFW	RESISTOR. FIELD WEAKNING
VRAD	VARI-OHM. ACCEL. DRIVE
DF1/2	DIODE. FLY-WHEEL. NO.1/2
DF3/4	DIODE. FLY-WHEEL. NO.3/4
⑤ DAD/P	DIODE. ABSORBER. DRIVE/PUMP
DG	DIODE. REGENERATIVE
⑤ DRG	DIODE. REVERSE. DRIVE
CAD/P	CAPACITOR. ABSORBER. DRIVE/PUMP
CSD/P	CURRENT SENSOR. DRIVE/PUMP
CS_{PS}	CURRENT SENSOR. POWER STEERING
SSP	SENSOR. SPEED
SP	SENSOR. STEERING PRESSURE
STH	SENSOR. THERMO
MF	CONTACTOR. FORWARD
MR	CONTACTOR. REVERSE
MP	CONTACTOR. PUMP
MC	CONTACTOR. REGENERATIVE
MS	CONTACTOR. SHORT
M_{PS}	CONTACTOR. POWER STEERING
MW	CONTACTOR. FIELD WEAKNING

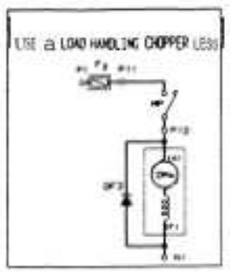
OS_F	DIRECTION SWITCH. FORWARD
OS_R	DIRECTION SWITCH. REVERSE
OS_{BU}	DIRECTION SWITCH. BACK-UP
$LS_{L1/2}$	LIMIT SWITCH. LIFT. NO.1/2
LS_T	LIMIT SWITCH. TILT
$LS_{ATT1/2}$	LIMIT SWITCH. ATTACHMENT. NO.1/2
LS_{ST}	LIMIT SWITCH. STOP LAMP
LS_B	LIMIT SWITCH. BRAKE
LS_{PB}	LIMIT SWITCH. PARKING BRAKE
LS_D	LIMIT SWITCH. DEAD MAN
SW_{AC}	SWITCH. ACCEL
SW_{KY}	SWITCH. KEY
SW_L	SWITCH. LIGHT
SW_H	SWITCH. FLASHER
SW_{HN}	SWITCH. HORN
SW_{SC}	SWITCH. SPEED CONTROL
L_{HL}	LAMP. HEAD LH
L_{HR}	LAMP. HEAD RH
L_{CL}	LAMP. CLEARANCE LH
L_{CR}	LAMP. CLEARANCE RH
L_{TL}	LAMP. TAIL LH
L_{TR}	LAMP. TAIL RH
L_W	LAMP. WORKING
L_{FLR}	LAMP. FLASHER LH (REAR)
L_{FRR}	LAMP. FLASHER RH (REAR)
L_{FL}	LAMP. FLASHER LH
L_{FR}	LAMP. FLASHER RH

L_{ST-L}	LAMP. STOP LH
L_{ST-R}	LAMP. STOP RH
L_{FB}	LAMP. FLASH BEACON
L_R	LAMP. ROTARY
L_{BU-L}	LAMP. BACK-UP LH
L_{BU-R}	LAMP. BACK-UP RH
B_Z	BUZZER
CH	CHIME
H	HORN
FR_H	RELAY. FLASHER
SA	SURGE ABSORBER
SN	SNUBBER NO.1
RF	RESISTOR. FAN

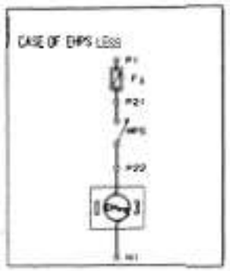
	1.5ton	1.8~3.0ton
F1	MAX 275 AMP	MAX 325 AMP
F2	MAX 225 AMP	MAX 325 AMP
F3	MAX 75 AMP	MAX 75 AMP
F4	MAX 10 AMP	MAX 10 AMP
F5	MAX 10 AMP	MAX 10 AMP

NOTE)
1. THIS DRAWING SHOWS CASE OF FULL OPTION
*2. NO SPEED CONTROL SWITCH IN CASE OF USA(UL).

USE a LOAD HANDLING CHOPPER LESS



CASE OF EHPS LESS



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