TOYOTA

REPAIR MANUAL

VOLUMES 1 & 2

7FBCU15-55 / 7FBCHU25
30-7FBCU15-55 / 30-7FBCHU25

CU321 / CU322

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5. SST11 setting method for troubleshooting for "Error code CB-1, CB-2, EO-1, E0-4" and complete failure of moving the vehicle

(1) Jack up the front side of the vehicle until the drive wheels float.

(2) Disconnect the battery plug.

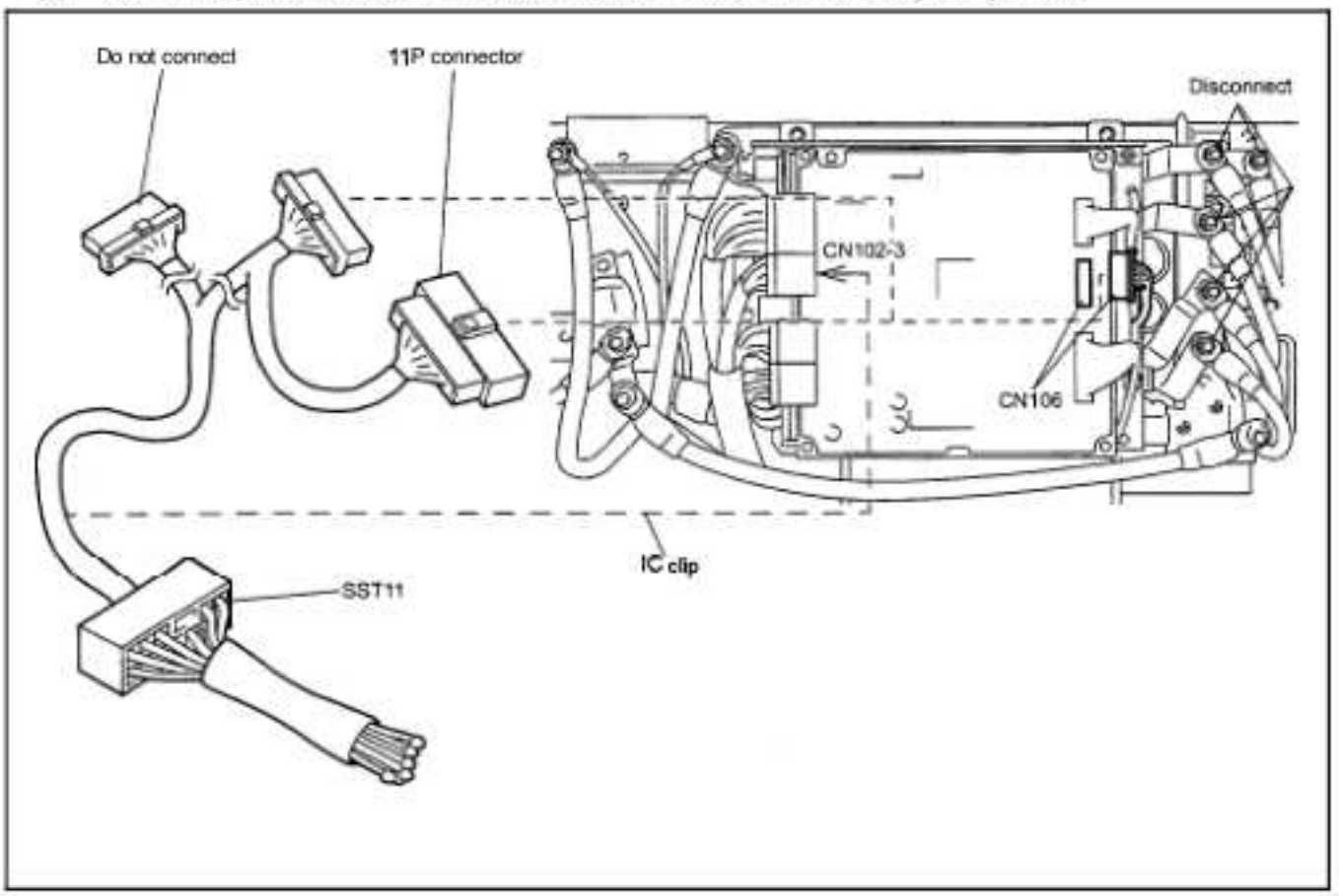
(3) Disconnect the drive motor cables (P7, P8 and P9) and the pump motor cables (P14 and P15).

(4) Disconnect CN106 on the CPU board and connect SST11.

(5) Connect the battery plug.

For error code EO-4, make sure that "EO-4" disappears then.

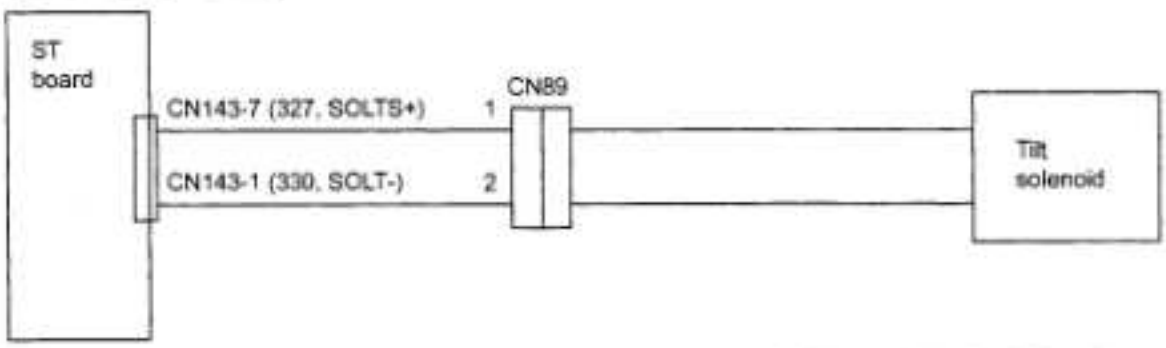
(6) Turn the key switch ON, and make sure that LED No. 1 or No. 6 lights up then.



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65-1, 2	Tilt solenoid abnormality

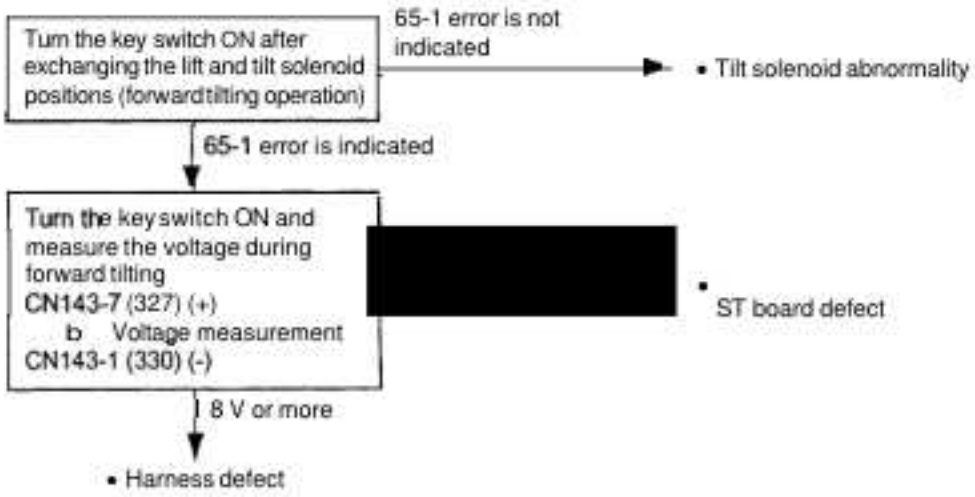
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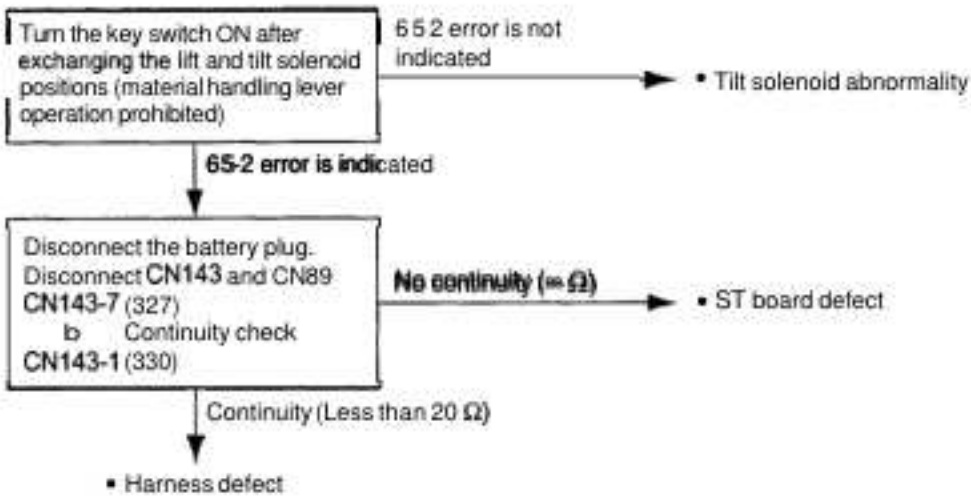
Condition for error detection

Output if the tilt solenoid line from the ST board to the tilt solenoid is open or shorted.
65-1 Tilt solenoid open-circuit defect
65-2 Tilt solenoid OCL defect

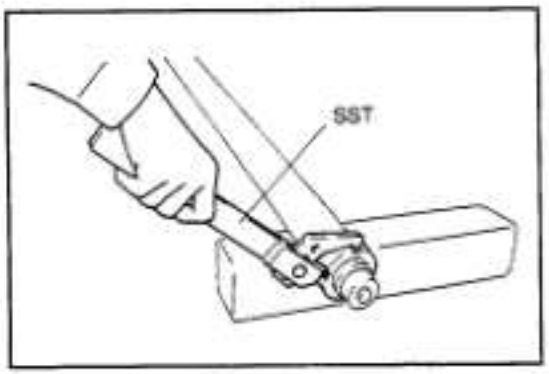
- **65-1**



- **65-2**



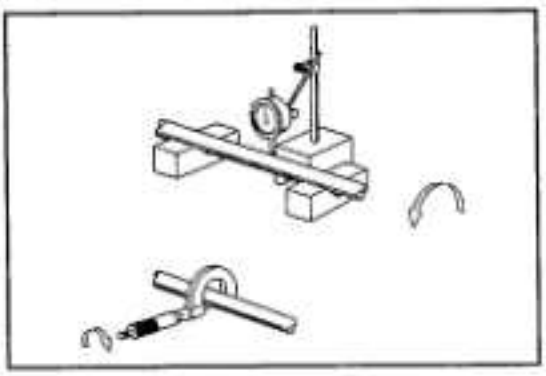
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Point Operations

[Point 1]

Disassembly·Reassembly:
SST 09620-10100-71



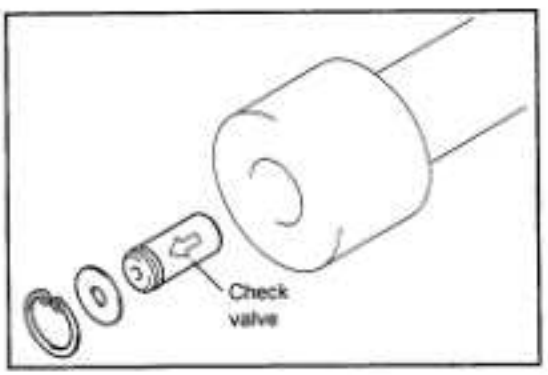
[Point 2]

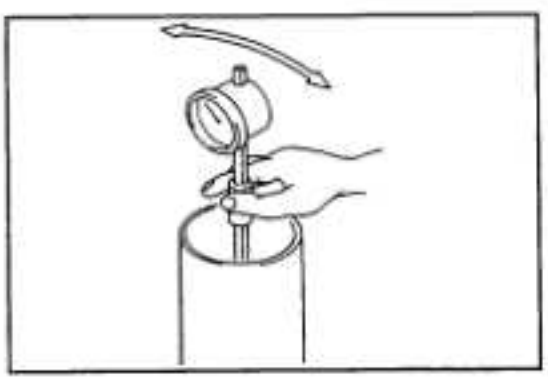
Inspection:
Measure the piston rod outside diameter.

35·45 model
Standard: 50.8 mm (2.00 in)
Limit: 50.72 mm (1.9969 in)
55 model
Standard: 55 mm (2.17 in)
Limit: 54.91 mm (2.1618 in)

Inspection:
Measure the piston rod bend.

Limit: 2.0 mm (0.079 in)





[Point 3]

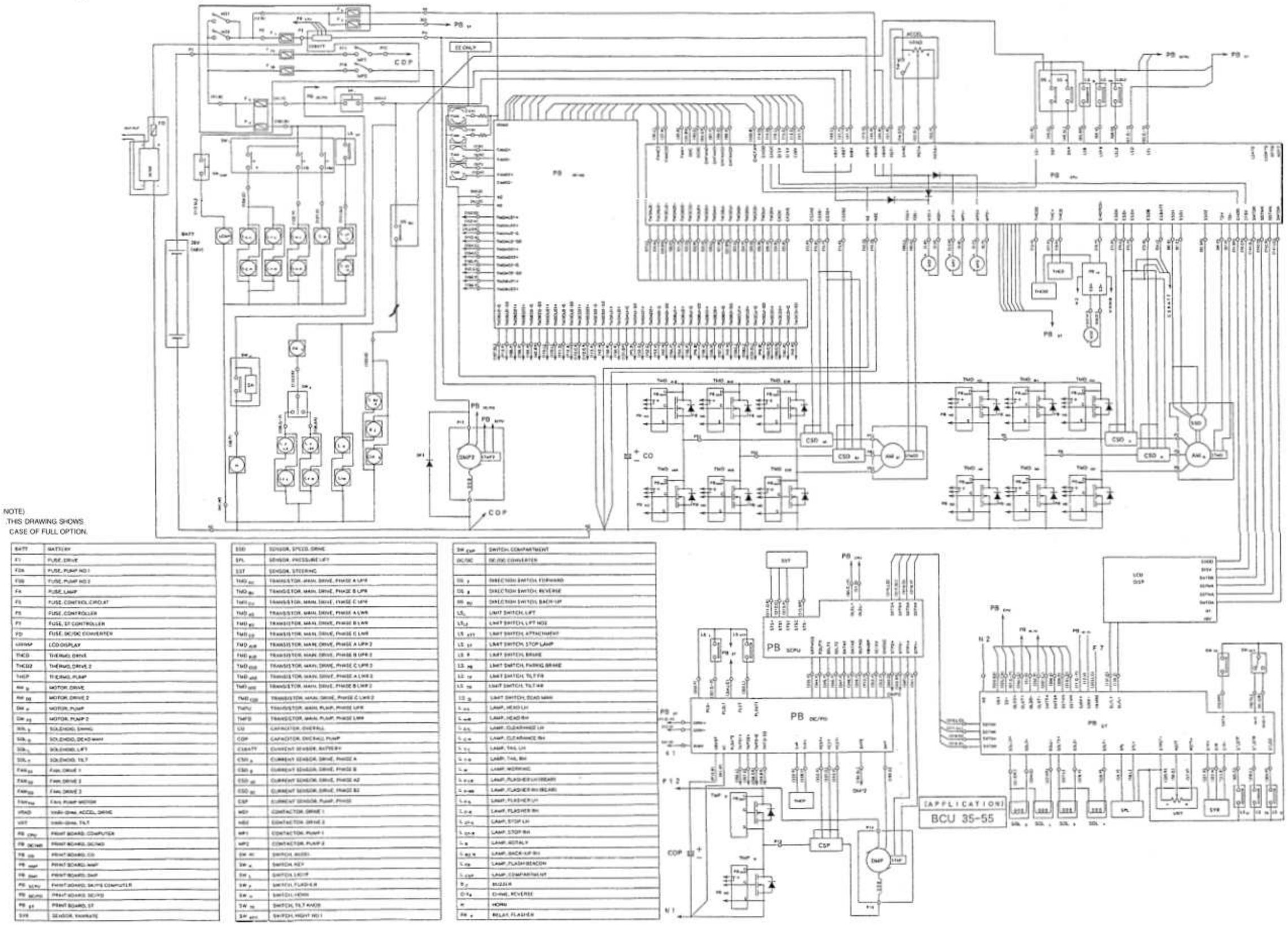
Reassembly:
Install the check valve arrow pointing to the lower side of the cylinder.

Inspection:
Measure the cylinder bore.

35 model
Standard: 65 mm (2.56 in)
Limit: 65.35 mm (2.5728 in)
45 model
Standard: 70 mm (2.76 in)
Limit: 70.35 mm (2.7697 in)
55 model
Standard: 75 mm (2.95 in)
Limit: 75.35 mm (2.9665 in)

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WIRING DIAGRAM *(35 ~ 55 MODEL)*



NOTE)
THIS DRAWING SHOWS
CASE OF FULL OPTION.

BATT	BATTERY
F1	FUSE, DRIVE
F2A	FUSE, PUMP MOT
F2B	FUSE, PUMP MOT
F4	FUSE, LAMP
F5	FUSE, CONTROL CIRCUIT
F6	FUSE, CONTROLLER
F7	FUSE, ST CONTROLLER
F8	FUSE, DC/DC CONVERTER
LCDDISP	LCD DISPLAY
THCD	THERMO, DRIVE
THCD2	THERMO, DRIVE 2
THCP	THERMO, PUMP
MM	MOTOR, DRIVE
MM 2	MOTOR, DRIVE 2
MP	MOTOR, PUMP
MP 2	MOTOR, PUMP 2
SOL	SOLENOID, STEER
SOL	SOLENOID, DEAD MAN
SOL	SOLENOID, LIFT
SOL	SOLENOID, TILT
FAN	FAN, DRIVE 1
FAN	FAN, DRIVE 2
FAN	FAN, DRIVE 3
FANM	FAN, PUMP MOTOR
VRAD	VARI-SPEED ACCEL, DRIVE
VST	VARI-SPEED TILT
PB	PRINT BOARD, COMPUTER
PB	PRINT BOARD, DC/DC
PB	PRINT BOARD, CO
PB	PRINT BOARD, MAP
PB	PRINT BOARD, DMP
PB	PRINT BOARD, SKYPE COMPUTER
PB	PRINT BOARD, SC/PU
PB	PRINT BOARD, ST
SYR	SENSOR, YAWRATE

SSD	SENSOR, SPEED, DRIVE
SPL	SENSOR, PRESSURE LIFT
SST	SENSOR, STEERING
THD	TRANSISTOR, MAIN, DRIVE, PHASE A UPP
THD	TRANSISTOR, MAIN, DRIVE, PHASE B UPP
THD	TRANSISTOR, MAIN, DRIVE, PHASE C UPP
THD	TRANSISTOR, MAIN, DRIVE, PHASE A LWR
THD	TRANSISTOR, MAIN, DRIVE, PHASE B LWR
THD	TRANSISTOR, MAIN, DRIVE, PHASE C LWR
THD	TRANSISTOR, MAIN, DRIVE, PHASE A UPP 2
THD	TRANSISTOR, MAIN, DRIVE, PHASE B UPP 2
THD	TRANSISTOR, MAIN, DRIVE, PHASE C UPP 2
THD	TRANSISTOR, MAIN, DRIVE, PHASE A LWR 2
THD	TRANSISTOR, MAIN, DRIVE, PHASE B LWR 2
THD	TRANSISTOR, MAIN, DRIVE, PHASE C LWR 2
THPU	TRANSISTOR, MAIN, PUMP, PHASE UPP
THPD	TRANSISTOR, MAIN, PUMP, PHASE LWR
CU	CAPACITOR, OVERALL
COP	CAPACITOR, OVERALL PUMP
CSBATT	CURRENT SENSOR, BATTERY
CSD	CURRENT SENSOR, DRIVE, PHASE A
CSD	CURRENT SENSOR, DRIVE, PHASE B
CSD	CURRENT SENSOR, DRIVE, PHASE A2
CSD	CURRENT SENSOR, DRIVE, PHASE B2
CSP	CURRENT SENSOR, PUMP, PHASE
MC1	CONTACTOR, DRIVE 1
MC2	CONTACTOR, DRIVE 2
MP1	CONTACTOR, PUMP 1
MP2	CONTACTOR, PUMP 2
SW	SWITCH,
SW	SWITCH, KEY
SW	SWITCH, LIGHT
SW	SWITCH, FLASHER
SW	SWITCH, HORN
SW	SWITCH, TILT RATIO
SW	SWITCH, HIGHT RD 1

SW	SWITCH, COMPARTMENT
DC/DC	DC/DC CONVERTER
DS	DIRECTION SWITCH, FORWARD
DS	DIRECTION SWITCH, REVERSE
DS	DIRECTION SWITCH, BACK-UP
LS	LIMIT SWITCH, LIFT
LS	LIMIT SWITCH, LIFT KDI
LS	LIMIT SWITCH, ATTACHMENT
LS	LIMIT SWITCH, STOP LAMP
LS	LIMIT SWITCH, BRAKE
LS	LIMIT SWITCH, PARKING BRAKE
LS	LIMIT SWITCH, TILT FR
LS	LIMIT SWITCH, TILT RR
LS	LIMIT SWITCH, DEAD MAN
L	LAMP, HEAD LH
L	LAMP, HEAD RH
L	LAMP, CLEARANCE LH
L	LAMP, CLEARANCE RH
L	LAMP, TAIL LH
L	LAMP, TAIL RH
L	LAMP, WORKING
L	LAMP, FLASHER LH (REAR)
L	LAMP, FLASHER RH (REAR)
L	LAMP, FLASHER LH
L	LAMP, FLASHER RH
L	LAMP, STOP LH
L	LAMP, STOP RH
L	LAMP, ROTALY
L	LAMP, BACK-UP RH
L	LAMP, FLASH BEACON
L	LAMP, COMPARTMENT
B	BUZZER
CN	CONN, REVERSE
H	HORN
RY	RELAY, FLASHER

[APPLICATION]
BCU 35-55

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