TOYOTA

REPAIR MANUAL

5FBE10-18

CE306

MidWestTech | Toyota 5FBE10-18 Forklift Service Manual | Publication CE306

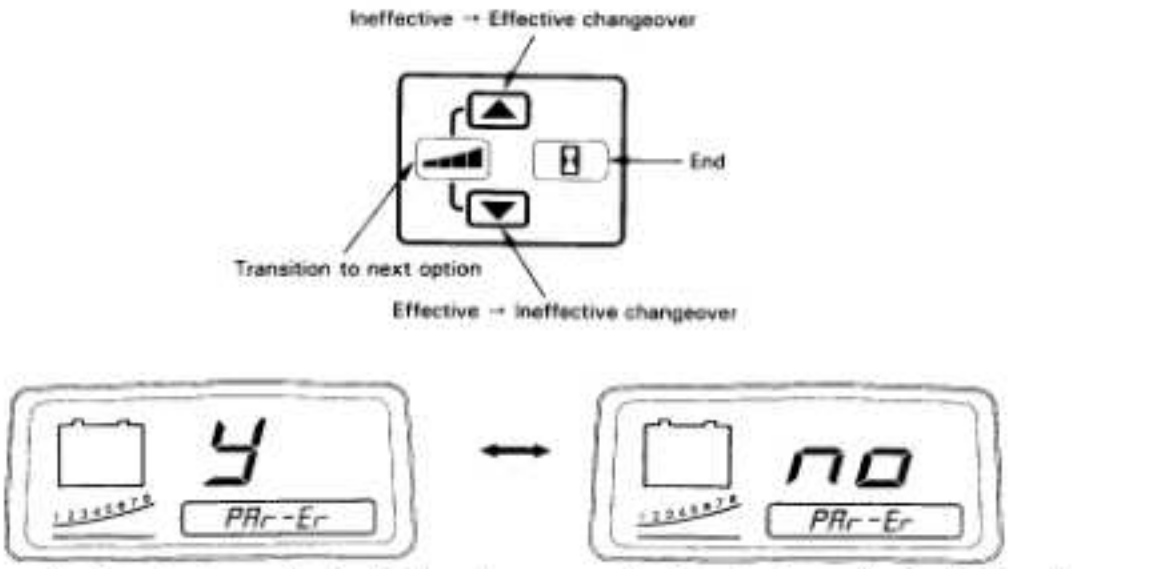
Order the manual at mid-west-tech.com >

GENERAL

	Page
EXTERIOR VIEWS	0-2
VEHICLE MODEL	0-3
FRAME NUMBER	0-3
HOW TO READ THIS MANUAL	0-4
EXPLANATION METHOD	0-4
TERMINOLOGY	0-5
ABBREVIATIONS	0-5
LIST OF ABBREVIATIONS AND SYMBOLS	0-6
OPERATIONAL TIPS	0-7
CIRCUIT TESTER	0-8
STANDARD BOLT & NUT TIGHTENING TORQUE	0-10
BOLT STRENGTH TYPE IDENTIFICATION METHOD	0-10
TIGHTENING TORQUE TABLE	0-11
PRECOAT BOLTS	0-12
HIGH PRESSURE HOSE FITTING TIGHTENING TORQUE	0-12
WIRE ROPE SUSPENSION ANGLE LIST	0-13
SAFE LOAD FOR EACH WIRE ROPE SUSPENSION ANGLE	0-13
COMPONENTS WEIGHT	0-14
RECOMMENDED LUBRICANTS AND CAPACITIES	0-15
LUBRICATION CHART	0-16
PERIODIC MAINTENANCE	0-17
PERIODIC REPLACEMENT OF PARTS AND LUBRICANTS	0-22

Order the manual at mid-west-tech.com >

(2) Parking brake application failure warning effective/ineffective selection

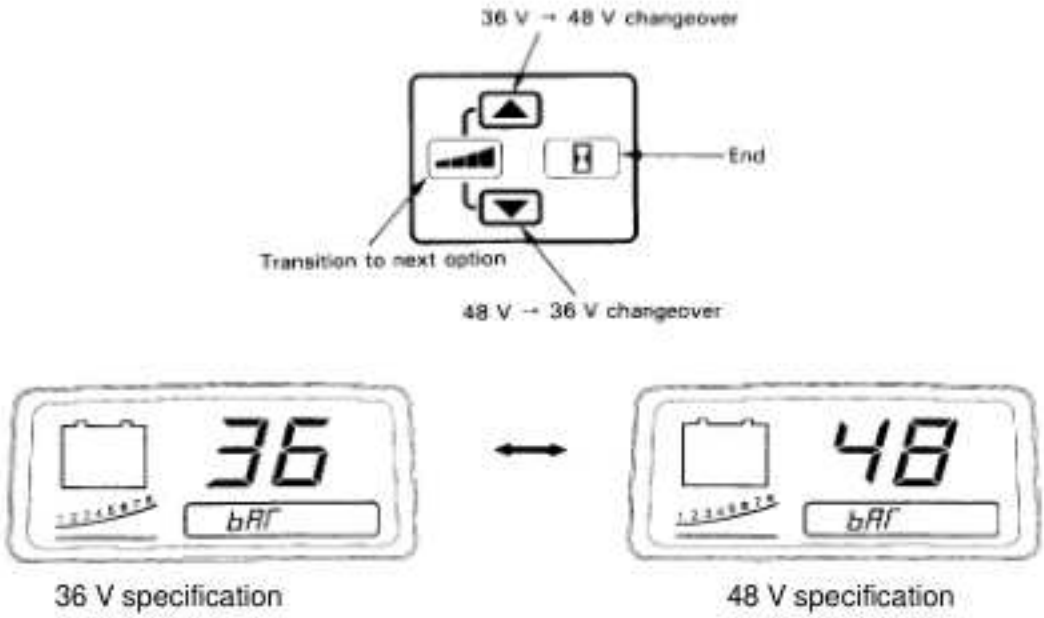


Parking brake application failure alarm : Effective Ineffective

Parking brake application failure alarm :

(Note) Keep the setting at Effective as the ineffective specification is not provided as the vehicle specification.

(3) Voltage selection



36 V specification

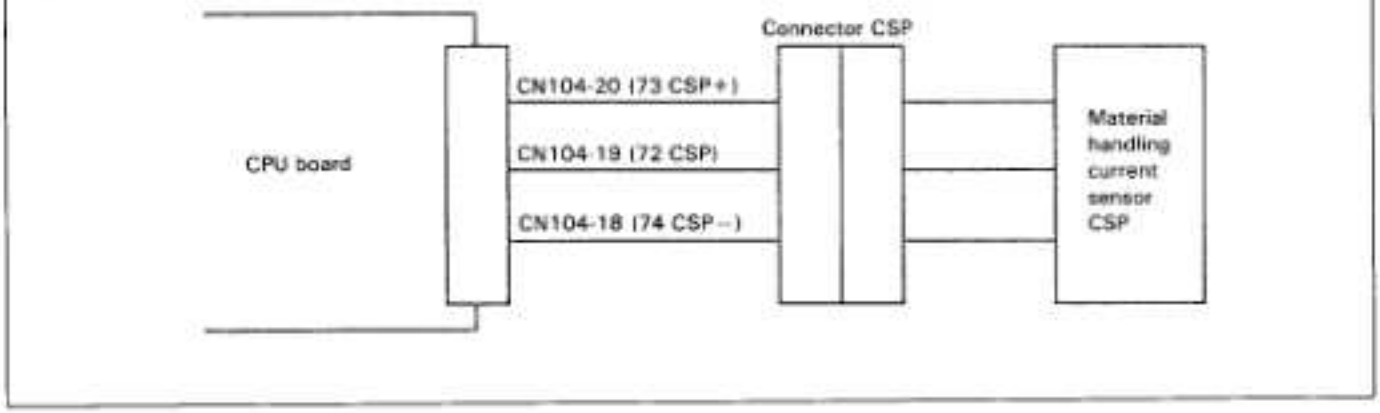
48 V specification

(Note) As 36V specification is not provided as the vehicle specification.
Keep this setting at 48V.

Order the manual at mid-west-tech.com >

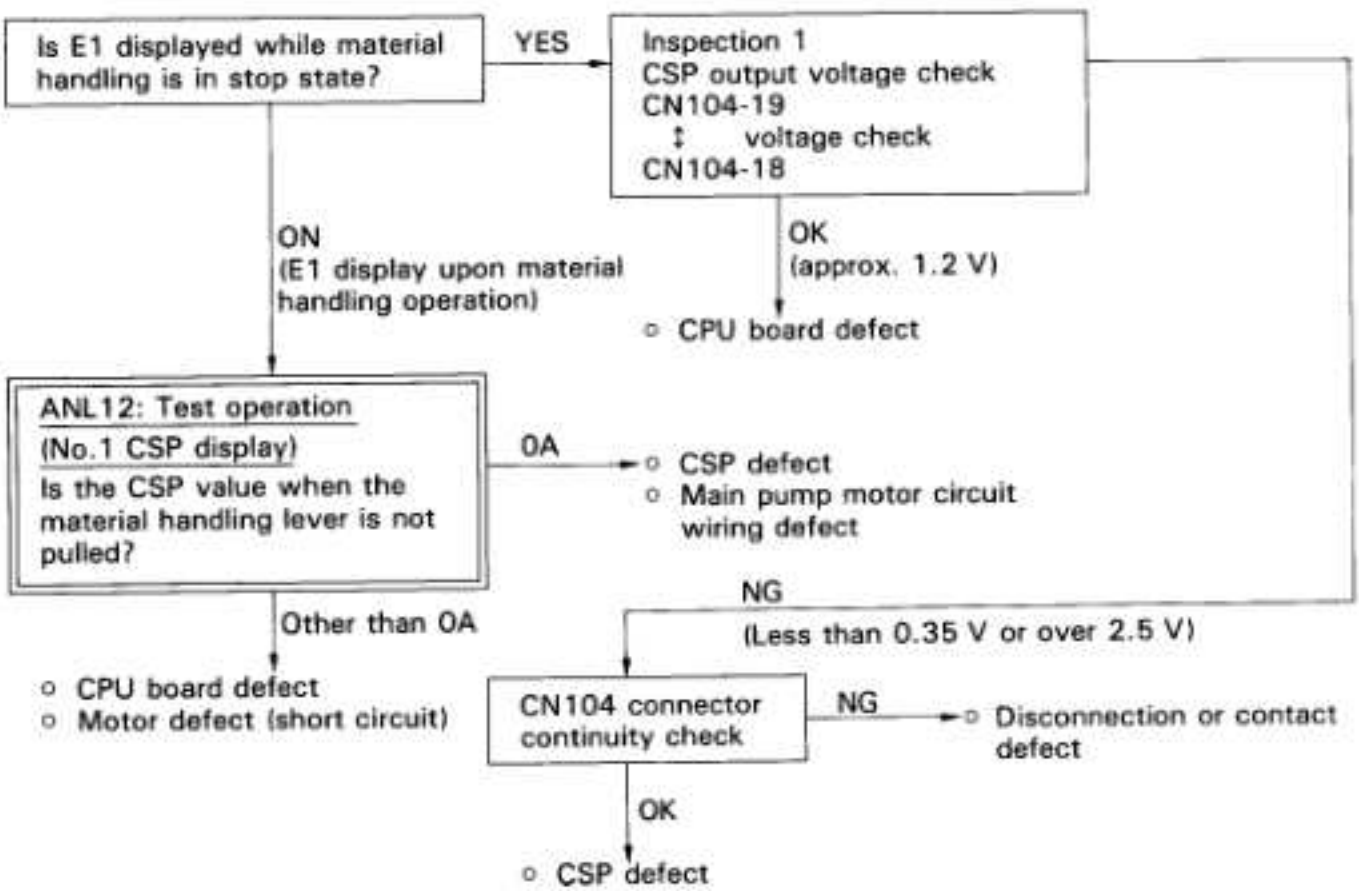
ERROR CODE E1: MAIN MATERIAL HANDLING CIRCUIT CURRENT SENSOR ABNORMALITY

Related portion



Estimated causes

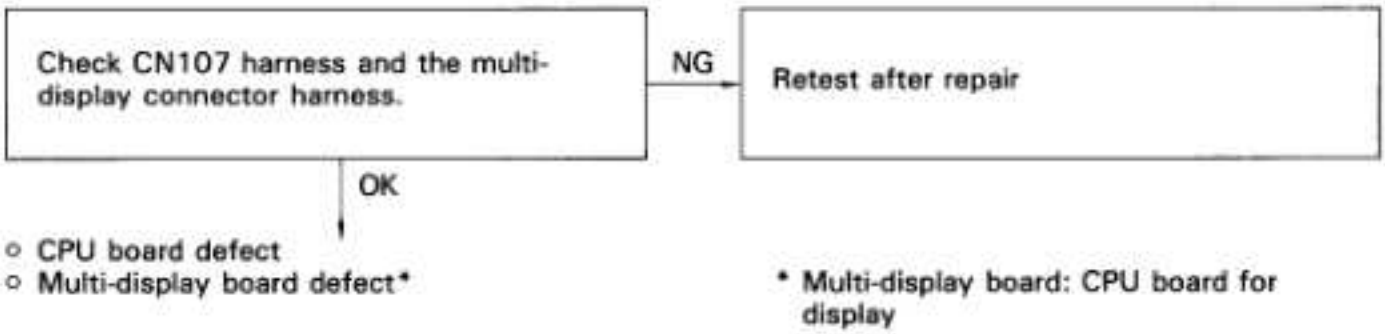
1. Material handling current sensor defect
2. Defective contact between CN104 and connector CSP
3. TMP short circuit
4. CPU board defect



Order the manual at mid-west-tech.com >

TROUBLESHOOTING RELATED TO MULTI-DISPLAY AND MCS COMMUNICATION SYSTEM

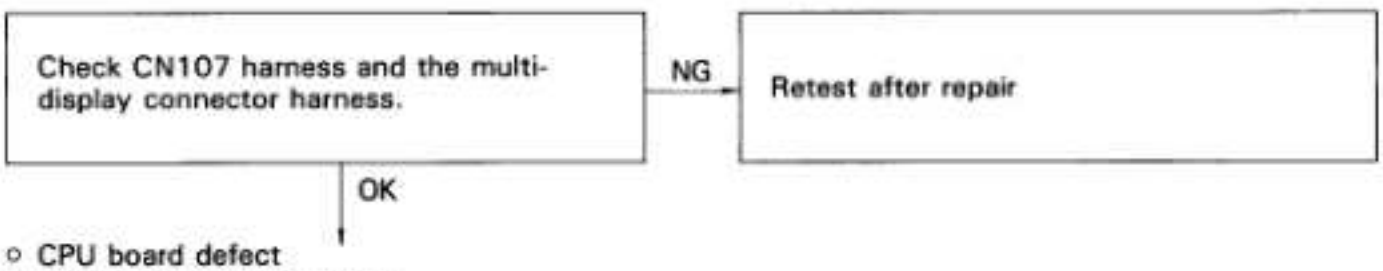
ERROR CODE F1: FAILURE IN COMMUNICATION BETWEEN MULTI-DISPLAY AND MCS



- CPU board defect
- Multi-display board defect*

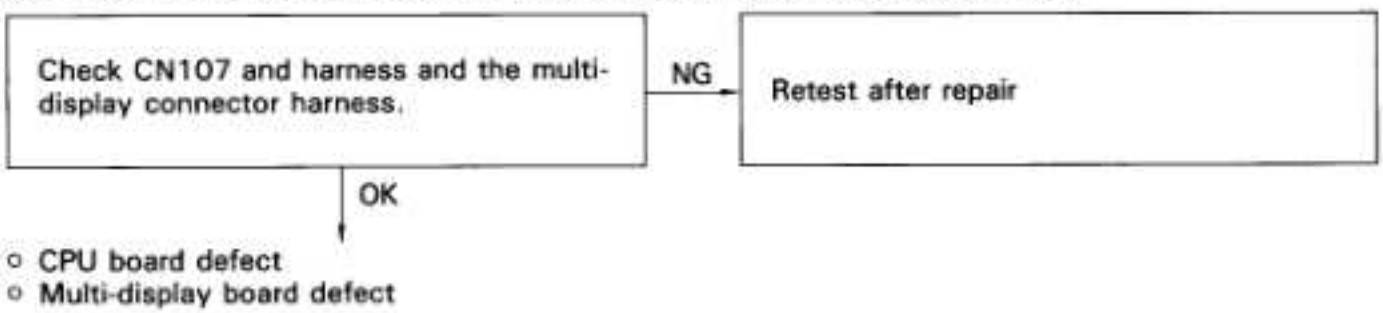
* Multi-display board: CPU board for display

ERROR CODE F2: FAILURE IN COMMUNICATION BETWEEN MULTI-DISPLAY AND MCS



- CPU board defect
- Multi-display board defect

ERROR CODE F3: POWER CONTROLLER MEMORY VALUE INCONSISTENCY

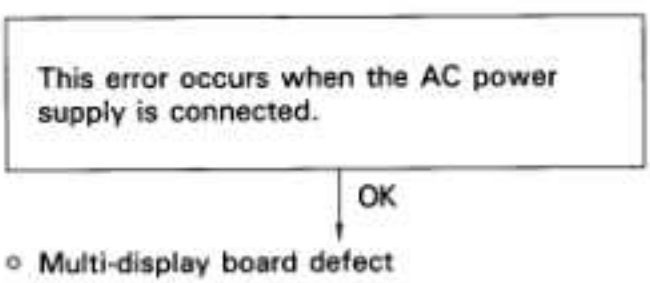


- CPU board defect
- Multi-display board defect

ERROR CODE F4: POWER CONTROLLER MEMORY VALUE ABNORMALITY

- Multi-display board defect

ERROR CODE F5: CHARGING TIMER MEMORY ABNORMALITY



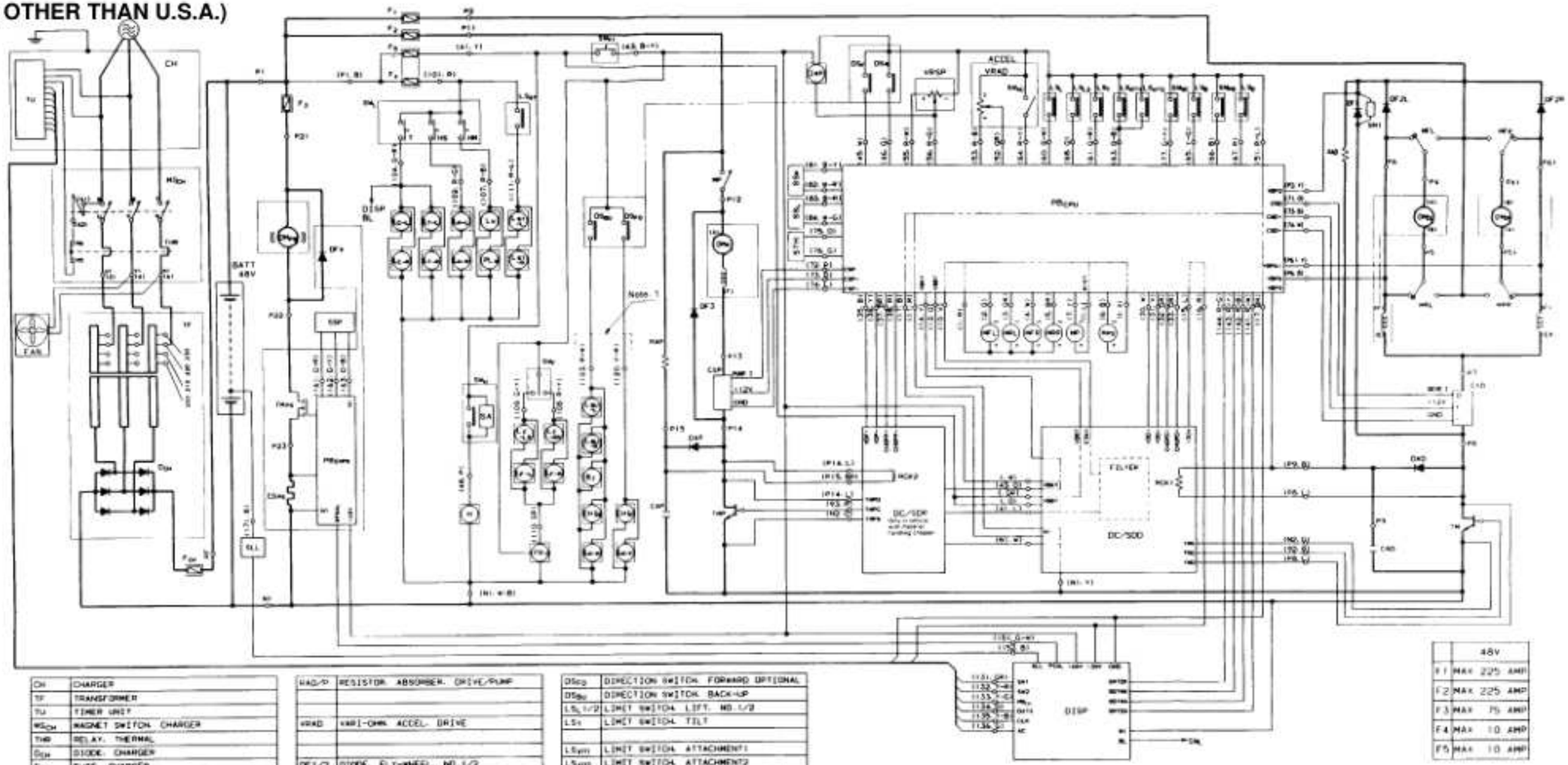
- Multi-display board defect

Note

Even if error code F5 is displayed when the AC power is connected, charging is possible by pressing the CHARGE switch. As the count memory for automatic equalized charging is abnormal, automatic equalized charging fails.

Order the manual at mid-west-tech.com >

WIRING DIAGRAM (FOR OTHER THAN U.S.A.)



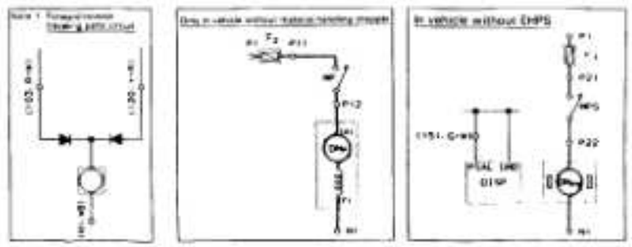
CH	CHARGER
TF	TRANSFORMER
TU	TIMER UNIT
MS_{CH}	MAGNET SWITCH, CHARGER
THR	RELAY, THERMAL
D_{CH}	DIODE, CHARGER
F_{CH}	FUSE, CHARGER
FAN	FAN, CHARGER
BATT	BATTERY
F1	FUSE, DRIVE
F2	FUSE, PUMP
F3	FUSE, POWER STEERING
F4	FUSE, LAMP
F5	FUSE, CONTROL CIRCUIT
PB_{CPU}	PRINT BOARD, COMPUTER
DC-SDD	DC-DC CONVERTER/ASSIST DRIVE (DRIVE)
DC-SDP	DC-DC CONVERTER/ASSIST DRIVE (PUMP)
PB_{EHPS}	PRINT BOARD, EHPS
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

RAD/P	RESISTOR, ABSORBER, DRIVE/PUMP
VRAD	VARI-OHM, ACCEL, DRIVE
DF1/2	DIODE, FLY-WHEEL, NO.1/2
DF3	DIODE, FLY-WHEEL, NO.3
DAD/P	DIODE, ABSORBER, DRIVE/PUMP
CAD/P	CAPACITOR, ABSORBER, DRIVE/PUMP
CSD/P	CURRENT SENSOR, DRIVE/PUMP
CS_{EPS}	CURRENT SENSOR, POWER STEERING
SSR	SENSOR, SPEED RIGHT
SSL	SENSOR, SPEED LEFT
SSP	SENSOR, STEERING PRESSURE
STH	SENSOR, THERMO
SLL	SENSOR, LIQUID LEVEL
MF_R	CONTACTOR, FORWARD RIGHT
MF_L	CONTACTOR, FORWARD LEFT
MR_R	CONTACTOR, REVERSE RIGHT
MR_L	CONTACTOR, REVERSE LEFT
MP	CONTACTOR, PUMP
MPS	CONTACTOR, POWER STEERING
DS_F	DIRECTION SWITCH, FORWARD
DS_R	DIRECTION SWITCH, REVERSE

DS_{FO}	DIRECTION SWITCH, FORWARD OPTIONAL
DS_{BU}	DIRECTION SWITCH, BACK-UP
$LS_{L1/2}$	LIMIT SWITCH, LIFT, NO.1/2
LS_T	LIMIT SWITCH, TILT
LS_{ATT1}	LIMIT SWITCH, ATTACHMENT1
LS_{ATT2}	LIMIT SWITCH, ATTACHMENT2
LS_{ST}	LIMIT SWITCH, STOP LAMP
LS_B	LIMIT SWITCH, BRAKE
SW_{PB}	LIMIT SWITCH, PARKING BRAKE
LS_D	LIMIT SWITCH, DEAD MAN
SW_{AC}	SWITCH, ACCEL
SW_{KY}	SWITCH, KEY
SW_L	SWITCH, LIGHT
SW_F	SWITCH, FLASHER
SW_H	SWITCH, HORN
SW_{SC}	SWITCH, SPEED CONTROL
PL_W	PILOT LAMP, WORKING
L_{H-L}	LAMP, HEAD LH
L_{H-R}	LAMP, HEAD RH
L_{C-L}	LAMP, CLEARANCE LH
L_{C-R}	LAMP, CLEARANCE RH
L_{T-L}	LAMP, TAIL LH
L_{T-R}	LAMP, TAIL RH
L_W	LAMP, WORKING
L_{F-LR}	LAMP, FLASHER LH (REAR)
L_{F-RR}	LAMP, FLASHER RH (REAR)
L_{F-L}	LAMP, FLASHER LH
L_{F-R}	LAMP, FLASHER RH

L_{ST-L}	LAMP, STOP LH
L_{ST-R}	LAMP, STOP RH
L_{R-F}	LAMP, ROTARY FORWARD
L_{R-R}	LAMP, ROTARY REVERSE
L_{BU-L}	LAMP, BACK-UP LH
L_{BU-R}	LAMP, BACK-UP RH
B_Z	BUZZER
CH_{IF}	CHIME, FORWARD
CH_{IR}	CHIME, REVERSE
H	HORN
FR_Y	RELAY, FLASHER
SA	SURGE ABSORBER
SN1	SNUBBER, NO.1
RCH1/2	RESISTOR, CHECK 1/2
IWP	INDICATOR, WHEEL POSITION
VRSP	VARI-OHM STERRING POSITION

	48V
F1	MAX 225 AMP
F2	MAX 225 AMP
F3	MAX 75 AMP
F4	MAX 10 AMP
F5	MAX 10 AMP



Order the manual at mid-west-tech.com >