CASE CONSTRUCTION

SERVICE MANUAL

CRAWLER EXCAVATOR

CX135SR
TIER 3

84187486A NA

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SERVICE MANUAL

TABLE OF CONTENTS

DIVISION/SECTION		SECTION N°	REFERENCE N°
1	**GENERAL INFORMATION**		
	Safety, general information and standard torque data	1001	7-27691NA
	General specifications and special torque setting	1002	SC135SR1002-1NA
2	**ENGINE**		
	Removal and installation of the engine	2000	SM135SR2000-0EN
	Engine specifications	*	
	Disassembly and assembly of the engine	*	
3	**FUEL SYSTEM**		
	Removal and installation of the fuel tank	3001	SM135SR3001-0EN
	Fuel engine system	*	
4	**ELECTRICAL SYSTEM**		
	Electrical and engine functions and service support	4001	SC135SR4001-1NA
5	**UNDERCARRIAGE**		
	Removal and installation of tracks	5001	SM75SR5001-0EN
	Rollers	5003	SM135SR5003-0EN
	Take-up roller	5005	SM135SR5005-0EN
6	**DRIVE TRAIN**		
	Removal and installation of the drive motor and final drive transmission	6001	SM135SR6001-0EN
	Disassembly and assembly of the drive motor and final drive transmission	6002	SM135SR6002-0EN
	Removal and installation of the swing motor and swing reduction gear	6003	SM135SR6003-0EN
	Disassembly and assembly of the swing reduction gear	6004	SM135SR6004-0EN
7	**UNDERCARRIAGE HYDRAULICS**		

* *Consult the Engine Service Manual*

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DIVISION/SECTION	SECTION N°	REFERENCE N°
8 UPPERSTRUCTURE HYDRAULICS		
Specifications, troubleshooting, checks and hydraulic pressure settings	8001	SC135SR8001-1NA
Removal and installation of the hydraulic reservoir	8002	SM135SR8002-0EN
Removal and installation of the main hydraulic pump	8003	SM135SR8003-0EN
Removal and installation of the main hydraulic control valve	8004	SM135SR8004-0EN
Removal and installation of the attachment cylinders	8005	SM135SR8005-0EN
Removal and installation of the hydraulic swivel	8006	SM135SR8006-0EN
Removal and installation of the pilot blocs	8007	SM75SR8007-0EN
Disassembly and assembly of the main hydraulic pump	8010	SM135SR8010-0EN
Disassembly and assembly of the main hydraulic control valve	8011	SM135SR8011-0EN
Disassembly and assembly of the attachment cylinders	8012	SM135SR8012-0EN
Disassembly and assembly of the hand control levers	8013	SM75SR8013-0EN
Disassembly and assembly of the foot control levers	8014	SM135SR8014-0EN
Disassembly and assembly of the solenoid valve block	8015	SM75SR8015-0EN
Disassembly and assembly of the cushion valve	8016	SM135SR8016-0EN
Disassembly and assembly of the hydraulic swivel	8018	SM135SR8018-0EN
Disassembly and assembly of the swing motor	8019	SM135SR8019-0EN
Hydraulic functions	8020	SC135SR8020-0NA
Hydraulic component functions	8030	SC135SR8030-0NA
9 UPPERSTRUCTURE		
Air conditioning unit	9007	SM75SR9007-0EN
Large size hydraulic schematics	Pocket	87746261A
Large size electrical schematics	Pocket	87746254A

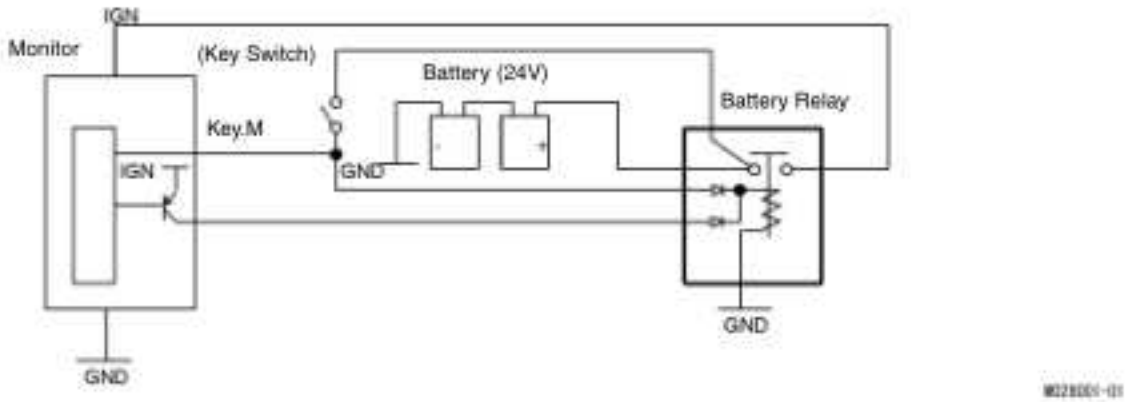
NOTE: CNH Company reserves the right to make changes in the specification and design of the machine without prior notice and without incurring any obligation to modify units previously sold.

The description of the models shown in this manual has been made in accordance with the technical specifications known as of the date of design of this document.

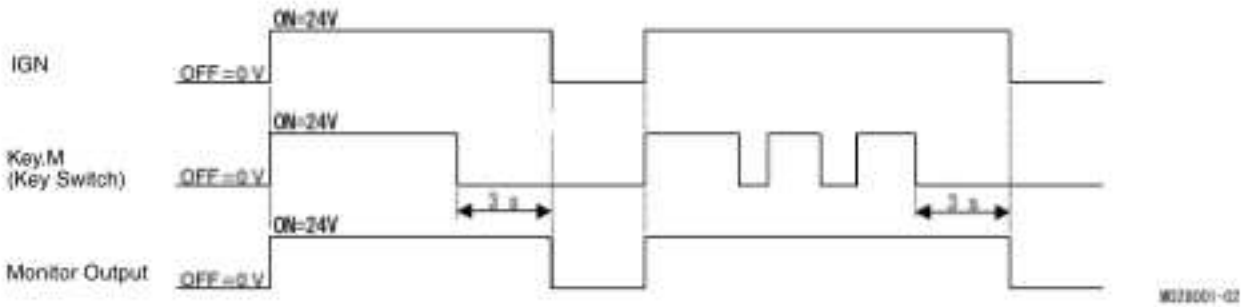
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6. Power Cut Delay

[1] Configuration



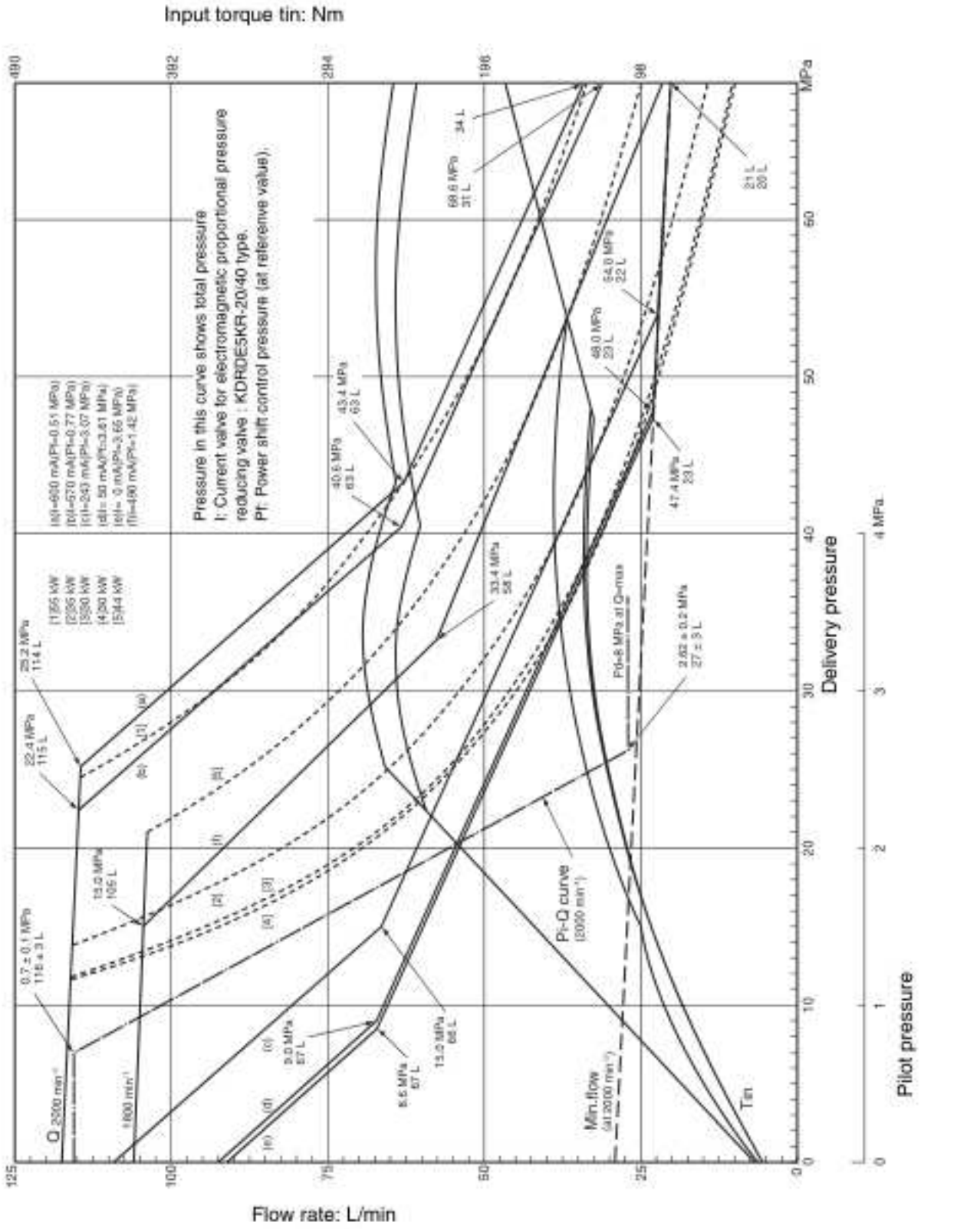
[2] Operation



Due to the overcurrent protection circuit provided in the monitor output, the monitor will not be damaged in the event that a short circuit occurs in the harness or in the battery relay coil.

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FLOW CURVE



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Item	Symptom	Related parts	Error item	Preventive/remedy measures
1	Oil leakage on piston rod sliding section	Rod packing (buffer ring and U-ring)	Packing has lost rubber elasticity and is crumbling. The whole lip is also missing.	1) Replace. 2) The life of the packing or hydraulic oil deterioration or high temperature may e the cause. 1. Change hydraulic oil. 2. Check hydraulic oil temperature. (The oil temperature should be 80 °C or less.) 3. Check for uneven hot temperatures.
			Heel part of the packing. Too much extrusion.	1) Replace. 2) Abnormal high pressure may act on the packing. 1. Check the pressure when starting operation. 2. Abnormality in the buffer ring if the buffer ring is attached. Inspect buffer rings.
		Backup ring	Visible distortion	1) Change rod packings together, as a general rule. (Buffer rings should be replaced at the same time if attached). 2) Abnormally high pressure may have caused this. In this case, check it by following the same steps described above for the packing heel extrusion.
		Wiper ring	Foreign substances engaged in the lip	Remove foreign substances.
			The lip is damaged. Other abnormal damages	Replace.
		Bearing material (Bushing)	Extreme wear, the clearance with piston rod exceeds the allowable maximum value (see 5-3. Maintenance reference)	Replace.
			Significant damage in sliding surfaces	1) Replace. 2) Inspect the piston rod.
		Cylinder head	Scratches or rust in seal fitting area.	1) Remove scratches and rust with an oil stone. 2) If repair is not possible, replace the cylinder head
2	Oil leakage from cylinder head fitting section	O-ring	Foreign substances on the inside and outside surfaces Damaged O-ring	1) Remove foreign substances. 2) If O-ring is damaged, replace it. 3) Inspect the tube inside: If scratches and rust are found, smooth the surfaces with oil-stone. 4) Check O-ring grooves in the cylinder head: Same as above 5) Check backup rings:If distortion or extrusion is found, replace it. Change O-rings after confirming items above.

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[14]Install the push rod sub assemblies assembled in the previous steps 10), 11), 12), and 13) into the casing (102).



MG25001-045

[15]Place cover (201) on a level surface. Using special jig 1, push down bushing (414) against the cover and lightly tap it with a hammer to press fit.
Be careful that the ends of the bushings do not stick out from within the cover.



MG25001-046

[16]Secure the lower cover assembly, assembled in steps 1 through 5, in a vise and install the upper cover assembly, assembled in steps 6 through 14, onto it.
Assemble it in the same position as before disassembly.



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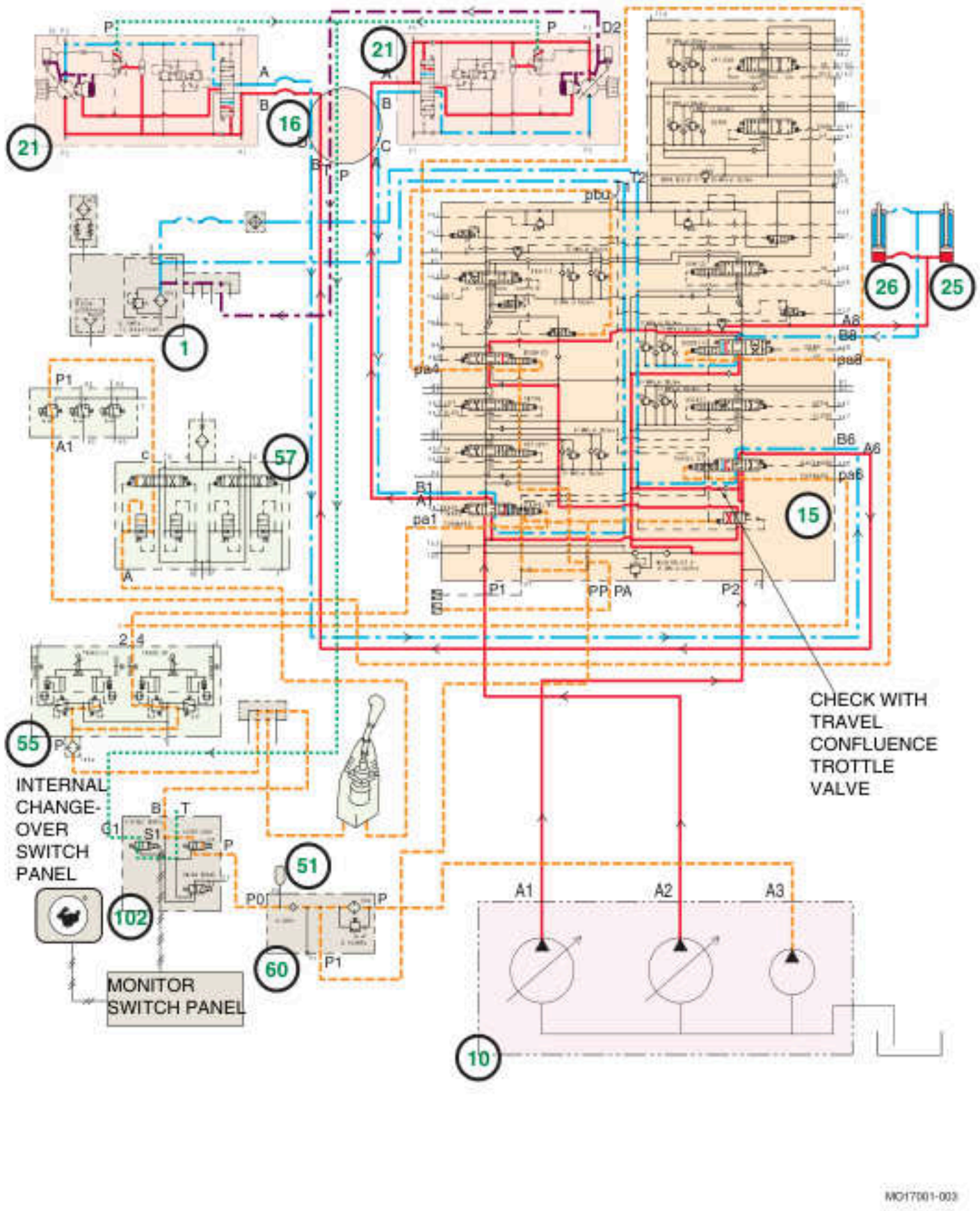
[17]Install the covers (201) on the casing (102).
Install them in the positions they were in before disassembly.
Be careful of the cover rising up due to the damping springs (336).



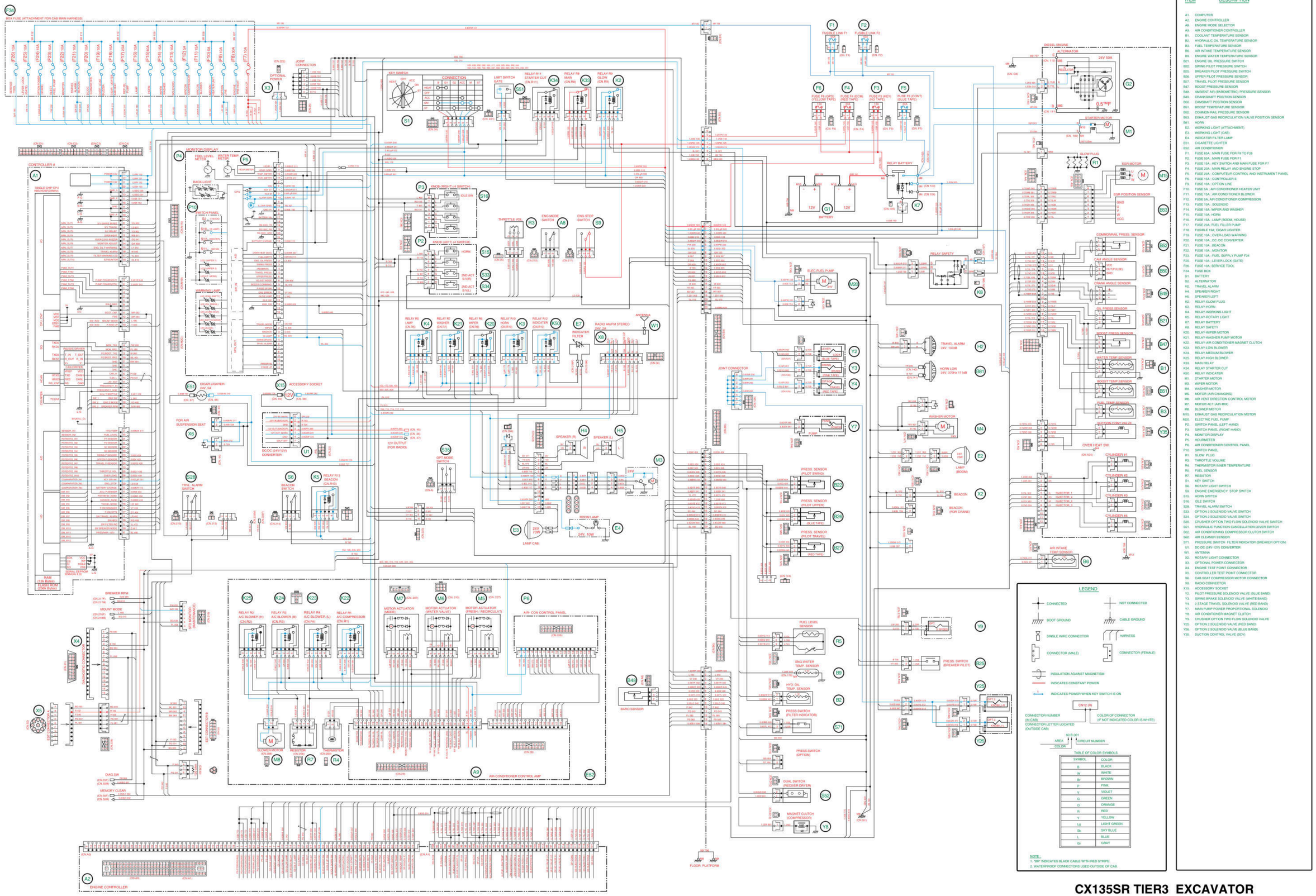
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Straight Travel Circuit (simultaneous operation of travel forward and boom-up)



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F34
BOX FUSE (ATTACHMENT FOR CAB MAIN HARNESS)
(F26) 10A
(F25) 10A
(F24) 10A
(F23) 20A
(F22) 20A
(F21) 10A
(F20) 10A
(F19) 10A
(F18) 10A
(F17) 20A
(F16) 10A
(F15) 10A
(F14) 10A
(F13) 10A
(F12) 10A
(F11) 10A
(F10) 10A
(F9) 10A
(F8) 30A
(F7) 10A
SPARE
SPARE
LEVER LOCK SOL
SPARE
OPTION POWER
SPARE
TRAVEL ALARM
PILOT PUMP
SPARE
TRAVEL ALARM
ACCESSORY
SPARE
CIGAR LIGHTER
SPARE
WIPER
SPARE
WASHER
BLOWER
SPARE
SPARE
WIPER
SPARE
WASHER
SPARE
SPARE
POWER
SPARE
HEAD LAMP
SPARE
JOINT CONNECTOR
OPTIONAL POWER
X3
KEY SWITCH
OFF ACC
HEAT ON
START
CONNECTION
B S1 S2 ACC M ST
HEAT
OFF
ACC
ON
ST
S1
LIMIT SWITCH (GATE)
SS1
RELAY R11 STARTER CUT (CN.R11)
K34
RELAY R8 MAIN (CN.R8)
K33
RELAY R9 GLOW (CN.R9)
K2
F1
FUSIBLE LINK F1
F2
FUSIBLE LINK F2
F6
FUSE F6 (GPS) (YELLOW TAPE)
F4
FUSE F4 (ECM) (RED TAPE)
F3
FUSE F3 (KEY) (NO TAPE)
F5
FUSE F5 (CONT) (BLUE TAPE)
RELAY BATTERY
K7
BATTERY
G1
12V
12V
DIESEL ENGINE
ALTERNATOR
24V 50A
G2
REGULATOR
0.5㎟
STARTER MOTOR
M1
GLOW PLUG
P1
EGR MOTOR
M10
EGR POSITION SENSOR
S53
GND
U
V
W
VCC
COMMONRAIL PRESS. SENSOR
S52
CAM ANGLE SENSOR
S51
VCC
OUT(PULSE)
GND
CRANK ANGLE SENSOR
S40
OIL PRESS SENSOR
S21
BOOST PRESS SENSOR
S47
WATER TEMP SENSOR
B1
BOOST TEMP SENSOR
S51
FUEL TEMP SENSOR
B3
SUCTION CONT VALVE
Y35
OVER HEAT SW.
(ON A34)
CYLINDER #1
CYLINDER #2
CYLINDER #3
CYLINDER #4
INJECTOR 1
INJECTOR 2
INJECTOR 3
INJECTOR 4
AIR INTAKE TEMP. SENSOR
B6
M12
CONTROLLER A
A1
SINGLE CHIP CPU H8S/2323F-CP(ROM)
RAM (12k Bytes) FLASH ROM (256k Bytes)
SERIAL EEPROM (32Kbit X 8)
MONITOR DISPLAY
P4
FUEL LEVEL METER
WATER TEMP METER
P5
HOURMETER
BACK LIGHT
SWITCH PANEL
P10
CPU
WORKING LAMP
KNOB (RIGHT) (4 SWITCH)
P3
IDLE SW
S16
KNOB (LEFT) (4 SWITCH)
P2
HORN
S15
2ND ACT S(VSS)
S35
2ND ACT S(S1)
S34
THROTTLE VOL.
R3
ENG.MODE SWITCH
A8
ENG.STOP SWITCH
S9
RELAY R6 LAMP (CN.R6)
K4
RELAY R7 WASHER (CN.R7)
K21
RELAY R5 WIPER (CN.R5)
K20
RELAY R10 HORN (CN.R10)
K3
RELAY R12 INDICATER (CN.R12)
K5
INDICATER FILTER
E7
RADIO AM/FM STEREO 24V 4W
X8
ANTENNA
W1
ELEC.FUEL PUMP
M2
RELAY SAFETY
K8
TRAVEL ALARM 24V, 107dB
H2
HORN LOW 24V, 109Hz 111dB
S61
WASHER MOTOR
M4
LAMP (BOOM)
E2
BEACON
X2
BEACON (FOR CRANE)
JOINT CONNECTOR
Y2
Y3
Y4
Y7
Y35
Y9
B25
Y25
Y26
PRESS. SENSOR (PILOT SWING)
B23
PRESS. SENSOR (PILOT UPPER)
B26
PRESS. SENSOR (PILOT TRAVEL)
B27
(ON G16)
FUEL LEVEL SENSOR
R5
ENG.WATER TEMP. SENSOR
B9
HYD. OIL TEMP. SENSOR
B2
PRESS.SWITCH (FILTER INDICATOR)
S71
PRESS.SWITCH (OPTION)
DUAL SWITCH (RECIVER DRYER)
S32
MAGNET CLUTCH (COMPRESSOR)
Y6
(ON G11)
FLOOR PLATFORM
CONTROLLER B
A2
ENGINE CONTROLLER
(CN.A3)
(CN.A4)
(CN.A5)
(CN.A6)
(CN.A7)
(CN.A8)
(CN.A9)
(CN.A41)
ESC CONTROLLER
X5
BREAKER RPM
(CN.217F)
(CN.217M)
MOUNT MODE
(CN.216F)
(CN.216M)
DIAG.SW
(CN.104F)
(CN.104M)
MEMORY CLEAR
(CN.94F)
(CN.94M)
CIGAR LIGHTER 24V, 5A
ES1
(CN. 67)
(CN. 68)
FOR AIR SUSPENSION SEAT
X6
ACCESSORY SOCKET
X15
12V
(CN. 66)
(CN. 46)
DC/DC (24V/12V) CONVERTER
U1
12V OUTPUT (FOR RADIO)
(CN. 45)
(CN. 46)
(CN. 47)
TRVL. ALARM SWITCH
S28
(CN.215)
(CN.214)
BEACON SWITCH
S6
RELAY R13 BEACON (CN.R13)
K5
OPT MODE SWITCH
S35
(CN-A)
SPEAKER (R)
H4
SPEAKER (L)
H5
24V
M3
ROOM LAMP
24V, 10W
E4
24V 70W
LAMP CAB.
E3
RELAY R2 A/C BLOWER (H) (CN.R2)
K26
RELAY R3 A/C BLOWER (M) (CN.R3)
K24
RELAY R4 A/C BLOWER (L) (CN.R4)
K25
RELAY R1 A/C COMPRESSOR (CN.R1)
K22
MOTOR ACTUATOR (MODE)
M7
(CN. 207)
MOTOR ACTUATOR (WATER VALVE)
M6
(CN. 210)
MOTOR ACTUATOR (FRESH / RECIRCULAT)
M5
(CN. 227)
A/C- CON CONTROL PANEL
P6
(CN.228)
BLOWER MOTOR
(CN.229)
M8
RESISTOR
R7
THERMISTOR
R4
(CN.39)
A9
AIR-CONDITIONER CONTROL AMP.
E52
BARO SENSOR
B48
(CN.A6)
(CN.A7)
(CN.A8)
(CN.A9)
(CN.A41)
(CN.A5)
(CN.A3)
(CN.A4)