CASE

PROFESSIONAL PARTNER

REPAIR MANUAL

CRAWLER EXCAVATOR

CX460
TIER 3

87686892 NA

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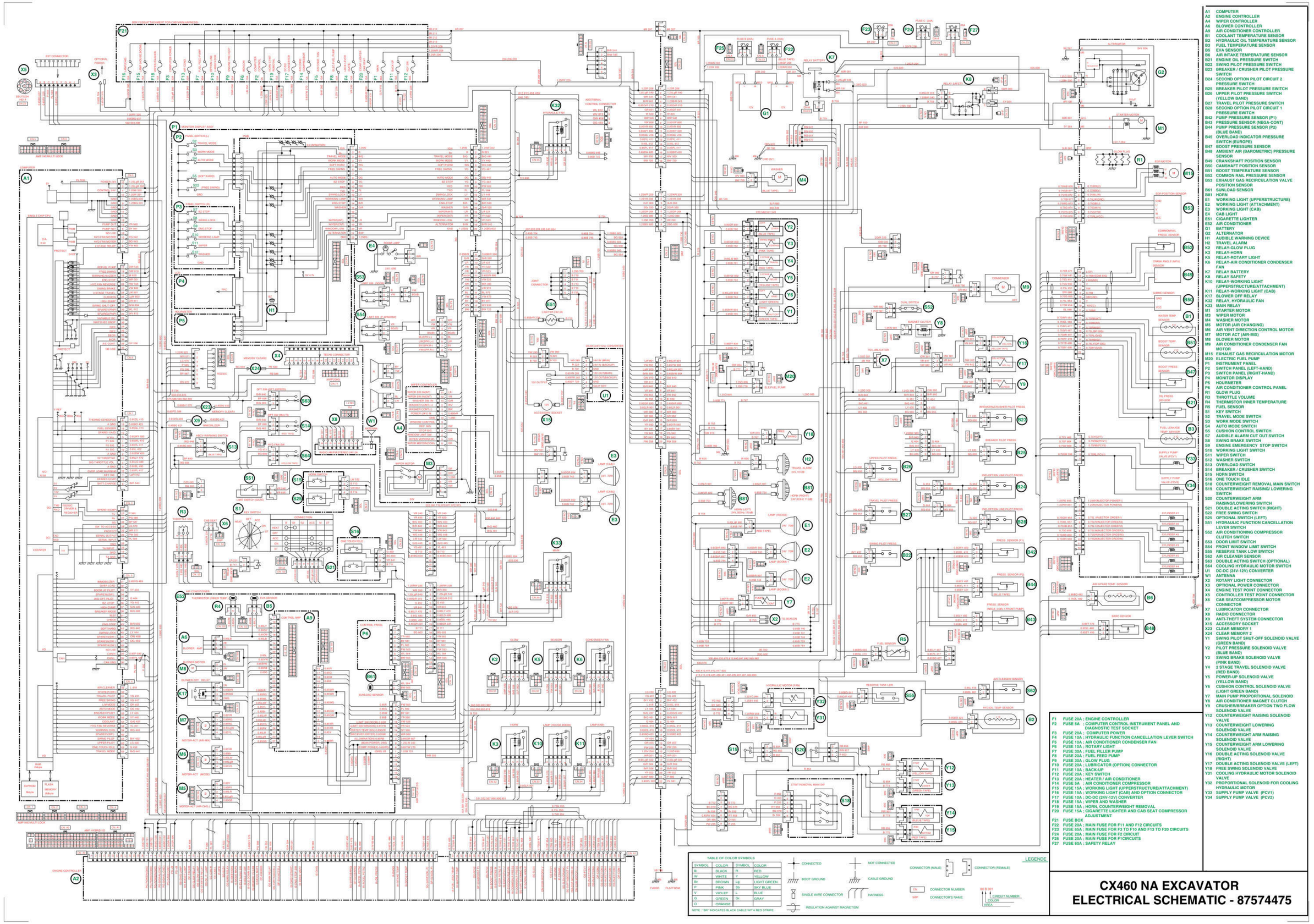
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WARNING : *This symbol is used in this manual to indicate important safety messages. Whenever you see this symbol, carefully read the message that follows, as there is a risk of serious injury.*

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A1	COMPUTER
A2	ENGINE CONTROLLER
A4	WIPER CONTROLLER
A6	BLOWER CONTROLLER
A9	AIR CONDITIONER CONTROLLER
B1	COOLANT TEMPERATURE SENSOR
B2	HYDRAULIC OIL TEMPERATURE SENSOR
B3	FUEL TEMPERATURE SENSOR
B5	EVA SENSOR
B6	AIR INTAKE TEMPERATURE SENSOR
B21	ENGINE OIL PRESSURE SWITCH
B22	SWING PILOT PRESSURE SWITCH
B23	BREAKER / CRUSHER PILOT PRESSURE SWITCH
B24	SECOND OPTION PILOT CIRCUIT 2 PRESSURE SWITCH
B25	BREAKER PILOT PRESSURE SWITCH
B26	UPPER PILOT PRESSURE SWITCH (YELLOW BAND)
B27	TRAVEL PILOT PRESSURE SWITCH
B28	SECOND OPTION PILOT CIRCUIT 1 PRESSURE SWITCH
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B48	AMBIENT AIR (BAROMETRIC) PRESSURE SENSOR
B49	CRANKSHAFT POSITION SENSOR
B50	CAMSHAFT POSITION SENSOR
B51	BOOST TEMPERATURE SENSOR
B52	COMMON RAIL PRESSURE SENSOR
B53	EXHAUST GAS RECIRCULATION VALVE POSITION SENSOR
B61	SUNLOAD SENSOR
B81	HORN
E1	WORKING LIGHT (UPPERSTRUCTURE)
E2	WORKING LIGHT (ATTACHMENT)
E3	WORKING LIGHT (CAB)
E4	CAB LIGHT
E51	CIGARETTE LIGHTER
E52	AIR CONDITIONER
G1	BATTERY
G2	ALTERNATOR
H1	AUDIBLE WARNING DEVICE
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K2	RELAY-GLOW PLUG
K3	RELAY-HORN
K5	RELAY-ROTARY LIGHT
K6	RELAY-AIR CONDITIONER CONDENSER FAN
K7	RELAY BATTERY
K8	RELAY SAFETY
K10	RELAY-WORKING LIGHT (UPPERSTRUCTURE/ATTACHMENT)
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K33	MAIN RELAY
M1	STARTER MOTOR
M3	WIPER MOTOR
M4	WASHER MOTOR
M5	MOTOR (AIR CHANGING)
M6	AIR VENT DIRECTION CONTROL MOTOR
M7	MOTOR ACT (AIR-MIX)
M8	BLOWER MOTOR
M9	AIR CONDITIONER CONDENSER FAN MOTOR
M15	EXHAUST GAS RECIRCULATION MOTOR
M20	ELECTRIC FUEL PUMP
P1	INSTRUMENT PANEL
P2	SWITCH PANEL (LEFT-HAND)
P3	SWITCH PANEL (RIGHT-HAND)
P4	MONITOR DISPLAY
P5	HOURMETER
P6	AIR CONDITIONER CONTROL PANEL
R1	GLOW PLUG
R3	THROTTLE VOLUME
R4	THERMISTOR INNER TEMPERATURE
R5	FUEL SENSOR
S1	KEY SWITCH
S2	TRAVEL MODE SWITCH
S3	WORK MODE SWITCH
S4	AUTO MODE SWITCH
S5	CUSHION CONTROL SWITCH
S7	AUDIBLE ALARM CUT OUT SWITCH
S8	SWING BRAKE SWITCH
S9	ENGINE EMERGENCY STOP SWITCH
S10	WORKING LIGHT SWITCH
S11	WIPER SWITCH
S12	WASHER SWITCH
S13	OVERLOAD SWITCH
S14	BREAKER / CRUSHER SWITCH
S15	HORN SWITCH
S16	ONE TOUCH IDLE
S18	COUNTERWEIGHT REMOVAL MAIN SWITCH
S19	COUNTERWEIGHT RAISING/ LOWERING SWITCH
S20	COUNTERWEIGHT ARM RAISING/LOWERING SWITCH
S21	DOUBLE ACTING SWITCH (RIGHT)
S22	FREE SWING SWITCH
S25	OPTIONAL SWITCH (LEFT)
S51	HYDRAULIC FUNCTION CANCELLATION LEVER SWITCH
S52	AIR CONDITIONING COMPRESSOR CLUTCH SWITCH
S53	DOOR LIMIT SWITCH
S54	FRONT WINDOW LIMIT SWITCH
S55	RESERVE TANK LOW SWITCH
S62	AIR CLEANER SENSOR
S63	DOUBLE ACTING SWITCH (OPTIONAL)
S64	COOLING HYDRAULIC MOTOR SWITCH
U1	DC-DC (24V-12V) CONVERTER
W1	ANTENNA
X2	ROTARY LIGHT CONNECTOR
X3	OPTIONAL POWER CONNECTOR
X4	ENGINE TEST POINT CONNECTOR
X5	CONTROLLER TEST POINT CONNECTOR
X6	CAB SEATCOMPRESSOR MOTOR CONNECTOR
X7	LUBRICATOR CONNECTOR
X8	RADIO CONNECTOR
X9	ANTI-THEFT SYSTEM CONNECTOR
X15	ACCESSORY SOCKET
X23	CLEAR MEMORY 1
X24	CLEAR MEMORY 2
Y1	SWING PILOT SHUT-OFF SOLENOID VALVE (GREEN BAND)
Y2	PILOT PRESSURE SOLENOID VALVE (BLUE BAND)
Y3	SWING BRAKE SOLENOID VALVE (PINK BAND)
Y4	2 STAGE TRAVEL SOLENOID VALVE (RED BAND)
Y5	POWER-UP SOLENOID VALVE (YELLOW BAND)
Y6	CUSHION CONTROL SOLENOID VALVE (LIGHT GREEN BAND)
Y7	MAIN PUMP PROPORTIONAL SOLENOID
Y8	AIR CONDITIONER MAGNET CLUTCH
Y9	CRUSHER/BREAKER OPTION TWO FLOW SOLENOID VALVE
Y12	COUNTERWEIGHT RAISING SOLENOID VALVE
Y13	COUNTERWEIGHT LOWERING SOLENOID VALVE
Y14	COUNTERWEIGHT ARM RAISING SOLENOID VALVE
Y15	COUNTERWEIGHT ARM LOWERING SOLENOID VALVE
Y16	DOUBLE ACTING SOLENOID VALVE (RIGHT)
Y17	DOUBLE ACTING SOLENOID VALVE (LEFT)
Y18	FREE SWING SOLENOID VALVE
Y31	COOLING HYDRAULIC MOTOR SOLENOID VALVE
Y32	PROPORTIONAL SOLENOID FOR COOLING HYDRAULIC MOTOR
Y33	SUPPLY PUMP VALVE (PCV1)
Y34	SUPPLY PUMP VALVE (PCV2)

F1	FUSE 20A ; ENGINE CONTROLLER
F2	FUSE 5A ; COMPUTER CONTROL INSTRUMENT PANEL AND DIAGNOSTIC TEST SOCKET
F3	FUSE 20A ; COMPUTER POWER
F4	FUSE 10A ; HYDRAULIC FUNCTION CANCELLATION LEVER SWITCH
F5	FUSE 10A ; AIR CONDITIONER CONDENSER FAN
F6	FUSE 10A ; ROTARY LIGHT
F7	FUSE 30A ; FUEL FILLER PUMP
F8	FUSE 20A ; FUEL FEED PUMP
F9	FUSE 30A ; GLOW PLUG
F10	FUSE 20A ; LUBRICATOR (OPTION) CONNECTOR
F11	FUSE 15A ; BACK-UP
F12	FUSE 20A ; KEY SWITCH
F13	FUSE 20A ; HEATER / AIR CONDITIONER
F14	FUSE 5A ; AIR CONDITIONER COMPRESSOR
F15	FUSE 15A ; WORKING LIGHT (UPPERSTRUCTURE/ATTACHMENT)
F16	FUSE 15A ; WORKING LIGHT (CAB) AND OPTION CONNECTOR
F17	FUSE 10A ; DC-DC (24V-12V) CONVERTER
F18	FUSE 15A ; WIPER AND WASHER
F19	FUSE 15A ; HORN, COUNTERWEIGHT REMOVAL
F20	FUSE 15A ; CIGARETTE LIGHTER AND CAB SEAT COMPRESSOR ADJUSTMENT
F21	FUSE BOX
F22	FUSE 20A ; MAIN FUSE FOR F11 AND F12 CIRCUITS
F23	FUSE 65A ; MAIN FUSE FOR F3 TO F10 AND F13 TO F20 CIRCUITS
F24	FUSE 20A ; MAIN FUSE FOR F2 CIRCUIT
F25	FUSE 20A ; MAIN FUSE FOR F1CIRCUITS
F27	FUSE 60A ; SAFETY RELAY

TABLE OF COLOR SYMBOLS

SYMBOL	COLOR	SYMBOL	COLOR
B	BLACK	R	RED
W	WHITE	Y	YELLOW
Br	BROWN	Lg	LIGHT GREEN
P	PINK	Sb	SKY BLUE
V	VIOLET	L	BLUE
G	GREEN	Gr	GRAY
O	ORANGE		

NOTE : "Bk" INDICATES BLACK CABLE WITH RED STRIPE.

LEGEND

CONNECTED · NOT CONNECTED · CONNECTOR (MALE) · CONNECTOR (FEMALE)
BOOT GROUND · CABLE GROUND · CN. CONNECTOR NUMBER
SINGLE WIRE CONNECTOR · HARNESS · SWP. CONNECTOR'S NAME
INSULATION AGAINST MAGNETISM · 80 B 001 (CIRCUIT NUMBER / COLOR / AREA)

CX460 NA EXCAVATOR
ELECTRICAL SCHEMATIC - 87574475

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