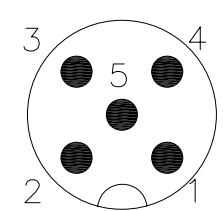
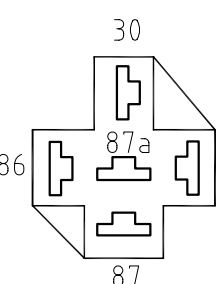


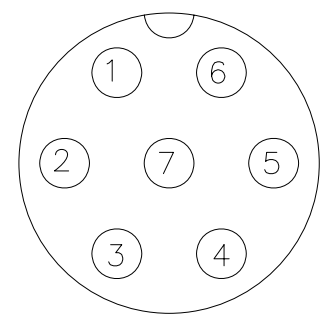
ANGLE SENSOR
M12 FEMALE SOCKET



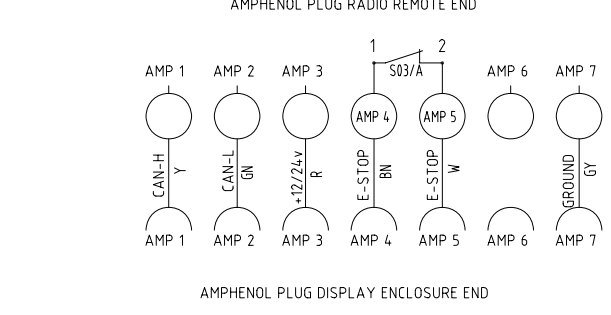
1 BROWN = NOT CONNECTED
2 WHITE = X-AXIS
3 BLUE = Y-AXIS
4 BLACK = POWER
5 GN/Y = GROUND



PCB MOUNTED
HELLA RELAY
BASE

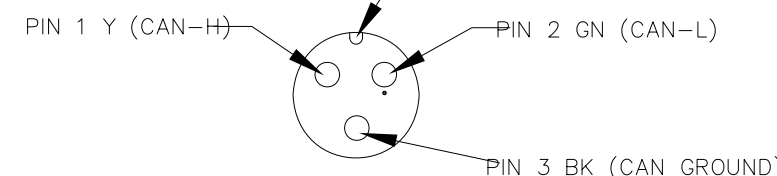


VIEW - CONTACT
SIDE OF PLUG

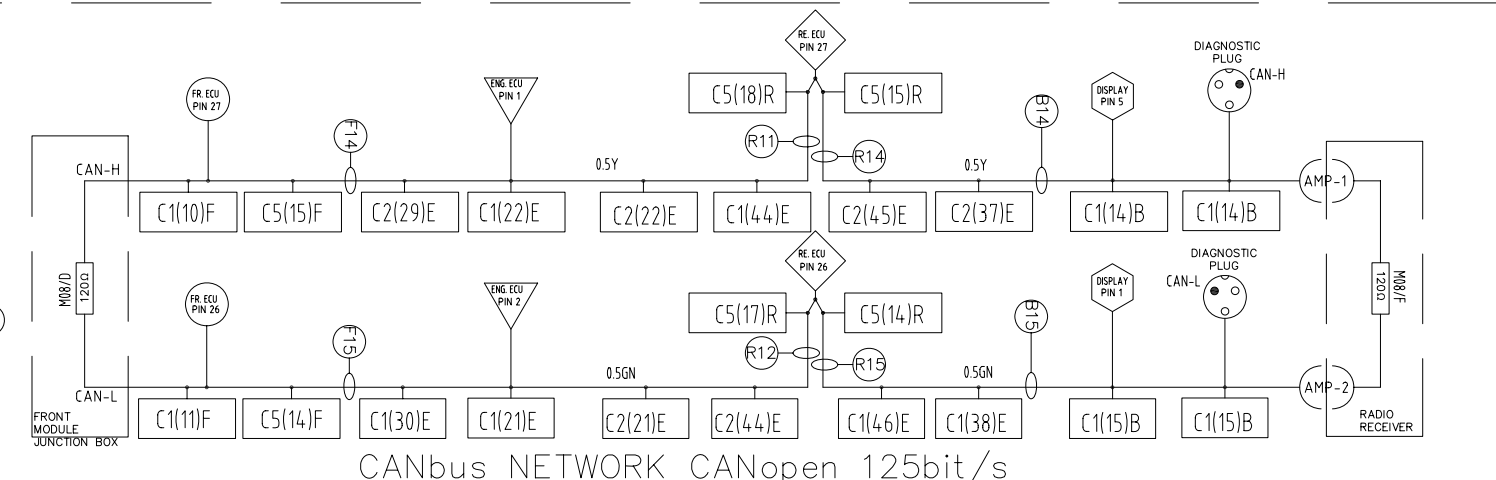


RADIO RECEIVER PLUG / SOCKET

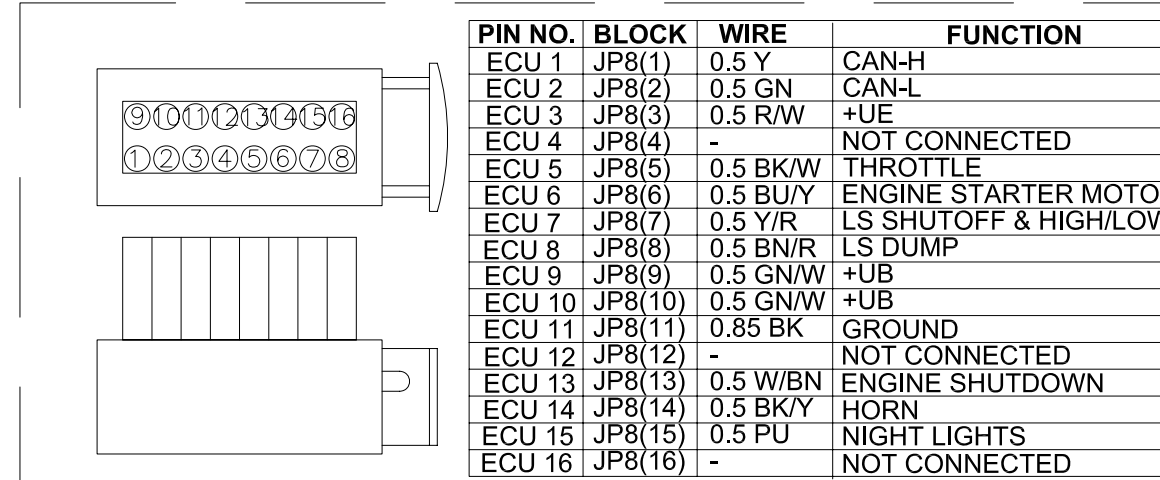
DIAGNOSTIC PLUG



WIRE SIDE VIEW
ENCLOSURE B
DIAGNOSTIC PLUG



ENCLOSURE 'E' ENGINE ECU PLUG



PIN NO.	BLOCK	WIRE	FUNCTION
ECU 1	JP8(1)	0.5 Y	CAN-H
ECU 2	JP8(2)	0.5 GN	CAN-L
ECU 3	JP8(3)	0.5 R/W	+UE
ECU 4	JP8(4)	-	NOT CONNECTED
ECU 5	JP8(5)	0.5 BK/W	THROTTLE
ECU 6	JP8(6)	0.5 BU/Y	ENGINE STARTER MOTOR
ECU 7	JP8(7)	0.5 Y/R	LS SHUTOFF & HIGH/LOW SP.
ECU 8	JP8(8)	0.5 BN/R	LS DUMP
ECU 9	JP8(9)	0.5 BK/Y	HORN
ECU 10	JP8(10)	0.5 GN/W	+UB
ECU 11	JP8(11)	0.85 BK	GROUND
ECU 12	JP8(12)	-	NOT CONNECTED
ECU 13	JP8(13)	0.5 W/BN	ENGINE SHUTDOWN
ECU 14	JP8(14)	0.5 BK/Y	HORN
ECU 15	JP8(15)	0.5 PU	NIGHT LIGHTS
ECU 16	JP8(16)	-	NOT CONNECTED

CONNECTOR BLOCK CODE
BLOCK (NUMBER) / LOCATION
eg C12/E

COLOUR ABBREVIATION
RED R
WHITE W
PURPLE PU
YELLOW Y
BROWN BN
BLUE BU
BLACK BK
GREY GY
GREEN GN
PINK PK
ORANGE O

LAMPS
L01 - WORKLAMP
L02 - ENGINE GLOW PLUG LAMP (AMBER)
L03 - E-STOP CIRCUIT LAMP (GREEN)
L04 - SMARTLIFT WARNING LED RED
L05 - CONTAINER POSITION SENSOR-ON LAMP
L06 - CONTAINER POSITION LAMP
L07 - FRONT BEACON STROBE (OPTIONAL)
L08 - REAR BEACON STROBE (OPTIONAL)
L09 - CLEARANCE LAMP (CRANE)

SENSORS
S01 - FRONT TOP ARM ANGLE SENSOR
S02 - REAR TOP ARM ANGLE SENSOR
S03 - FRONT BOTTOM ARM ANGLE SENSOR
S04 - REAR BOTTOM ARM ANGLE SENSOR
S05 - FRONT STABILISER ANGLE SENSOR
S06 - REAR STABILISER ANGLE SENSOR
S07 - FRONT TOP ARM CYLINDER PRESSURE SENSOR
S08 - REAR TOP ARM CYLINDER PRESSURE SENSOR
S09 - FRONT OPTICAL SENSOR (STABILISER EXTENSION)
S10 - REAR OPTICAL SENSOR (STABILISER EXTENSION)
S11 - FRONT MAGNETIC SENSOR (STABILISER EXTENSION)
S12 - REAR MAGNETIC SENSOR (STABILISER EXTENSION)
S13 - FRONT OPTICAL CONTAINER DETECTION SENSOR
S14 - FRONT MODULE CAMBER / ELEVATION ANGLE SENSOR
S15 - REAR MODULE CAMBER / ELEVATION ANGLE SENSOR
S16 - REAR BANDY LEG RETRACTED PROXIMITY SENSOR
S17 - FRONT BANDY LEG RETRACTED PROXIMITY SENSOR
S18 - REAR BANDY LEG EXTENDED PROXIMITY SENSOR
S19 - FRONT BANDY LEG EXTENDED PROXIMITY SENSOR

SWITCHES
S01 - CHASSIS, FRONT E-STOP BUTTON
S02 - START KEY ENCLOSURE E-STOP BUTTON
S03 - PENDANT E-STOP BUTTON
S04 - VOLTMETER TOGGLE SWITCH
S05 - ENGINE OIL PRESSURE SWITCH
S06 - ENGINE WATER TEMPERATURE SWITCH
S07 - WORKLAMP BUTTON
S08 - ENGINE START BUTTON
S09 - HI / LOW SWITCH
S10 - MODE SELECT SWITCH
S11 - E-STOP CIRCUIT BYPASS PUSHBUTTON SWITCH
S12 - FRONT STABILISER DOWN LIMIT SWITCH
S13 - REAR STABILISER DOWN LIMIT SWITCH
S14 - TRAILER PARK BRAKE SENSOR

KEY SWITCH
K30 - PERMANENT BATTERY SUPPLY
K58 - Not connected
K15/54 - IGNITION / ECU ON
K19 - GLOW PLUGS
K17 - GLOW PLUGS
K50 - STARTER MOTOR

LOCATION
A = PENDANT REMOTE CONTROL
B = REAR DISPLAY ENCLOSURE
E = START KEY JUNCTION BOX
F = FRONT CRANE JUNCTION BOX
G = STABILISER EXTENSION SENSOR JIB
H = HIGH/LOW SPEED VALVE BLOCK
I = TRAILER PLUG JIB
J = ENGINE FRAME ECU BATTERY BOX
L = ENGINE
M1-M6 = TOP LIFT FRAME JIB'S 1 - 6
X = RADIO RECEIVER ENCLOSURE
R = REAR CRANE JUNCTION BOX
U = TOP LIFT FRAME WARNING LIGHT JIB
W = TOP LIFT FRAME
X = REAR CRANE MODULE
Y = FRONT CRANE MODULE
Z = TRAILER CHASSIS

MISCELLANEOUS
M01 - 70A DIODE
M02 - RADIO REMOTE BATTERY CHARGER
M03 - KUBOTA ENGINE TEMPERATURE SENDER
M04 - GLOW PLUG TIMER
M05 - KUBOTA ENGINE GLOW PLUG
M06 - KUBOTA ENGINE ALTERNATOR
M07 - KUBOTA ENGINE STARTER MOTOR
M08 - 120 OHM RESISTOR
M09 - MOTORCYCLE 12 VOLT BATTERY
M10 - KUBOTA ENGINE MAIN 12 VOLT BATTERY
M11 - KUBOTA ENGINE THROTTLE SOLENOID
M12 - KUBOTA ENGINE RUN/STOP SOLENOID
M13 - HIGH/LOW SPEED SOLENOID
M14 - LOADSENSE SHUTOFF SOLENOID
M15 - HORN
M16 - LOADSENSE DUMP SOLENOID
M17 - VOLTMETER

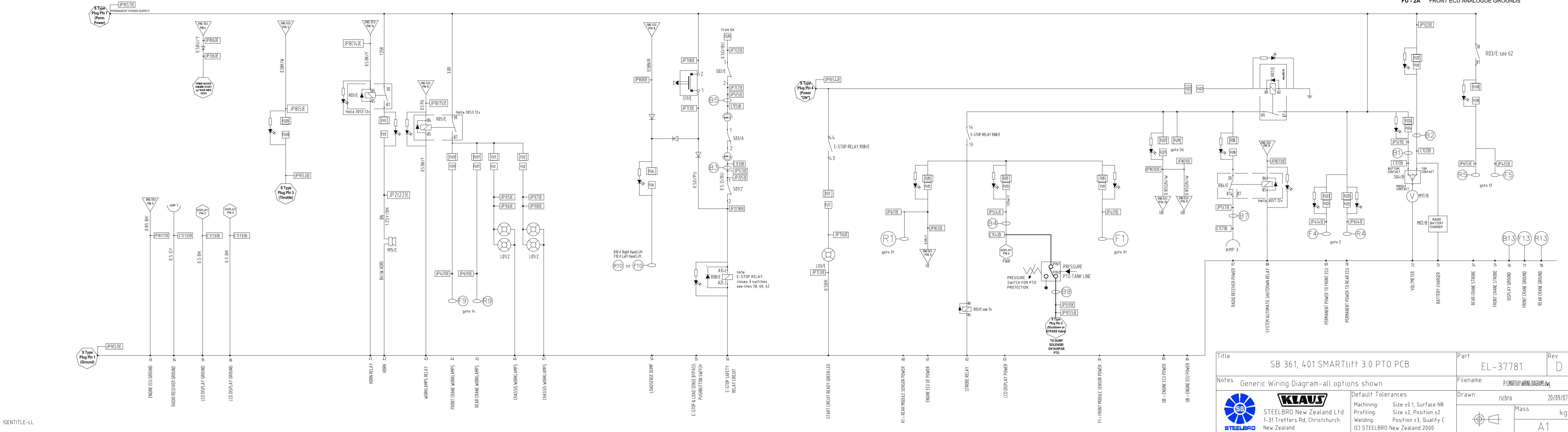
RELAYS
R01 - HORN
R02 - HIGH / LOW SPEED & LOAD SENSE SHUT-OFF RELAY
R03 - STROBE RELAY
R04 - ENGINE SHUTDOWN RELAY
R05 - WORKLAMP RELAY
R06 - STARTER MOTOR RELAY
R07 - ECU BATTERY ISOLATION RELAY
R08 - E-STOP RELAY (3 POLE)

FUSES (KEY SWITCH JUNCTION BOX)
LOCATION E
FU01 - 10A WORKLAMPS, FAR CHASSIS
FU02 - 10A WORKLAMPS, NEAR CHASSIS
FU03 - 7.5A HORN
FU04 - 5A LOAD SENSE SHUTOFF SOLENOID
FU05 - 5A HIGH / LOW SPEED SOLENOID
FU06 - 4A LOAD SENSE DUMP
FU07 - 5A ENGINE RUN/STOP
FU08 - 3A ALTERNATOR REGULATOR
FU09 - 4A FRONT CRANE ECU D+ AND SENSOR POWER
FU10 - 10A STROBE
FU11 - 10A WORKLAMPS, FRONT CRANE
FU12 - 3A REAR VOLTMETER, MAIN BATTERY
FU13 - 4A DISPLAY POWER
FU14 - 3A REVERSE GEAR (PTO ONLY)
FU15 - 4A REAR CRANE ECU D+ AND SENSOR POWER
FU16 - 7.5A MODULE MARKER LAMPS
FU17 - 10A WORKLAMPS, REAR CRANE
FU18 - 5A RADIO RECEIVER POWER
FU19 - 3A E-STOP CIRCUIT FUSE
FU20 - 4A THROTTLE
FU21 - 7.5A ENGINE ECU UB
FU22 - 3A MAIN BATTERY REVERSE POLARITY
FU23 - 10A ECU, FRONT UE & UB POWER
FU24 - 3A REAR VOLTMETER, ECU BATTERY
FU25 - 10A ECU, REAR UE & UB POWER
LOCATION C
FU - 2A REAR ECU UE PERMANENT POWER
FU - 2A REAR ECU ANALOGUE GROUNDS
LOCATION D
FU - 2A FRONT ECU UE PERMANENT POWER
FU - 2A FRONT ECU ANALOGUE GROUNDS

REAR MODULE JUNCTION BOX ONLY

FRONT AND REAR MODULE JUNCTION BOXES

FRONT MODULE JUNCTION BOX ONLY



Title SB 361, 401 SMARTlift 3.0 PTO PCB		Part EL-37781	Rev D
Notes Generic Wiring Diagram-all options shown		Filename P:\CONTRIBUTING\DIAGRAMS\G	
Default Tolerances Machining Size ±0.1, Surface N8 Profiling Size ±2, Position ±2 Welding Position ±3, Quality C		Drawn nrbro	20/09/07
Steelbro New Zealand Ltd 1-31 Treffers Rd, Christchurch New Zealand		Mass	kg
		A1	