



F1	PANEL SUPPLY FUSE	BUSS	ABC 3	10A
F2	LAMP TEST SUPPLY FUSE	BUSS	ABC 3	10A
F3	CRANKCASE EXHAUST MOTOR FUSE	BUSS	KTG 3	15A
PB1	START PUSH BUTTON	CUTLER HAMMER	E22PGCD	GREEN
PB2	STOP PUSH BUTTON	CUTLER HAMMER	E22PGCD	RED
PB3	EMERGENCY STOP PUSH BUTTON	CUTLER HAMMER	E22GBRC6	RED MUSHROOM HEAD
PB4	INTENTIONAL STOP PUSH BUTTON	CUTLER HAMMER	E22PBCB	BLACK
PB5	ALARM RESET PUSH BUTTON	CUTLER HAMMER	E22PVC1	BLUE
SSV1	LOCAL/REMOTE SELECTOR SWITCH	CUTLER HAMMER	E22VAM2AC29C9	
SS1	SPEED SWITCH	NDRIS	RU465	150 RPM
SS2	SPEED SWITCH	NDRIS	RU465	1050 RPM
SS3	SPEED SWITCH	NDRIS	RU465	350 RPM
SS4	SPEED SWITCH	NDRIS	RU465	750 RPM
M1	CRANKCASE EXHAUST MOTOR STARTER	M.T.E.	01/410/60/120	
ETM	ENGINE OPERATION HOUR COUNTER	CROMPTON	077-156A-PNZH	0-99999.9
PL1	REMOTE CONTROL INDICATOR	CUTLER HAMMER	E22TAP120	MBER
PL2	LOCAL CONTROL INDICATOR	CUTLER HAMMER	E22TAP120	AMBER
PL3	ENGINE RUNNING INDICATOR	CUTLER HAMMER	E22TAP120	GREEN
PL4	OVERSPEED ALARM INDICATOR	CUTLER HAMMER	E22TAP120	RED
PL5	OVERCRANK ALARM INDICATOR	CUTLER HAMMER	E22TAP120	RED
PL6	HIGH LUB OIL TEMP INDICATOR	CUTLER HAMMER	E22TAP120	RED
PL7	HIGH JACKET WATER TEMP INDICATOR	CUTLER HAMMER	E22TAP120	RED
PL8	CRANKCASE EXHT MTR FAILURE IND	CUTLER HAMMER	E22TAP120	RED
PL9	LOW LO PRESSURE ALARM INDICATOR	CUTLER HAMMER	E22TAP120	RED
PL10	LOCKOUT ACT ALARM INDICATOR	CUTLER HAMMER	E22TAP120	RED
T1	CRANK TIMER	AGASTAT	SSC12ADA	2-60 SEC (SET 6)
T2	REST TIMER	AGASTAT	SSC12ACA	1-30 SEC (SET 6)
T3	OVERCRANK TIMER	AGASTAT	SSC12AEA	2-120 SEC (SET 36)
T4	COOL DOWN TIMER	AGASTAT	SSC12AMA	30SEC-15MIN (SET 5MIN)
T5	STOP SOL HOLD IN TIMER	AGASTAT	SSC12ADA	2-60 SEC (SET 40)
T6	LOW LO PRESS ALARM DELAY TIMER	AGASTAT	SSC12ADA	1-30 SEC (SET 15)
T7	LO SHUTDOWN INTERRUPT ON STR UP	CNS TIMER	CNS-35-72	0-100 SEC (SET 15)
T8	FLASHER FOR DIESEL CLDOWN PERIOD	CNS TIMER	CNS-35-72	0-100 SEC (SET 2)
R0	LOSS OF CONTROL VOLT RELAY	STRUTHERS-DUNN	219DXP	
R1	REMOTE START INHB RELAY	STRUTHERS-DUNN	219DXP	
R2	START CIRCUIT CONTROL RELAY	STRUTHERS-DUNN	219DXP	
R3	CRANK RELAY	STRUTHERS-DUNN	219DXP	
R4	STOP CONTROL RELAY	STRUTHERS-DUNN	219DXP	
R5	CRANK TERMINATE RELAY	STRUTHERS-DUNN	219DXP	
R6	ENGINE RUN RELAY	STRUTHERS-DUNN	219DXP	
R7	ENGINE RUN AUX RELAY	STRUTHERS-DUNN	219DXP	
R8	BARRING GEAR ENGAGED - START INHB	STRUTHERS-DUNN	219DXP	
R9	STOP SOLENOID RELAY	STRUTHERS-DUNN	219DXP	
R10	EMERGENCY STOP RELAY	STRUTHERS-DUNN	219DXP	
R11	OVERSPEED ALARM RELAY	STRUTHERS-DUNN	219DXP	
R12	OVERCRANK ALARM RELAY	STRUTHERS-DUNN	219DXP	
R13	HIGH LO ALARM TEMP RELAY	STRUTHERS-DUNN	219DXP	
R14	HIGH JW TEMP ALARM RELAY	STRUTHERS-DUNN	219DXP	
R15	CRKCASE EXHST MTR FAIL ALARM RELAY	STRUTHERS-DUNN	219DXP	
R16	350 RPM SPEED SIGNAL RELAY	STRUTHERS-DUNN	219DXP	
R17	LOW LO PRESSURE ALARM RELAY	STRUTHERS-DUNN	219DXP	
R18	750 RPM SPEED SIGNAL RELAY	STRUTHERS-DUNN	219DXP	
R19	COMMOM ALARM RELAY	STRUTHERS-DUNN	219DXP	
R20	86 LOCKOUT ALARM RELAY	STRUTHERS-DUNN	219DXP	
	INTERNAL WIRING TERMINALS	WEIDMULLER	SAK2-5	
	CUSTOMER TERMINALS	WEIDMULLER	DK4	
	MOTOR STARTER TERMINALS	WEIDMULLER	SAK4	
	MOTOR STARTER TERMINALS	WEIDMULLER	SAK4	

NOTE #1: T8 WAS ADDED TO GENERATE A FLASHING SIGNAL THAT COULD BE USED TO LET THE ENGINEER KNOW WHEN A MAIN DIESEL WAS IN THE COOL DOWN MODE. EXISTING WIRING WAS USED TO COMPLETE THE JOB. A CONSOLE RESET (CR) AND LOCAL RESET (LR) CONTACT WAS ALSO INSTALLED SO THAT SHOULD THE ENGINEER REQUIRE THE DIESELS AGAIN WHILE THEY WERE IN THE COOLDOWN MODE HE COULD SIMPLY PUSH THE RESET AND ABORT THE COOL DOWN TIMER. THE FOLLOWING CONDUCTORS WERE USED TO COMPLETE THE INSTALLATION: GEN#1 - P-0601-16 TO P-0601-14 (7-8X7-8) GEN#2 - P-0602-16 TO P-0602-14 (7-8X7-8) GEN#3 - P-0603-16 TO P-0603-14 (7-8X7-8)

FISHERIES and OCEANS CANADA		PÊCHES ET OcéANS CANADA	
COAST GUARD MARITIMES		GARDÉ CÔTIÈRE MARITIMES	
VESSEL: CCGS EDWARD CORNWALLIS CCGS SIR WILLIAM ALEXANDER			
TITLE: ENGINE CONTROL PANEL 1100 NAVADA VESSEL			
AGENCY	REPRESENT	DATE	DATE
CCG	-	DD/MM/YY	DD/MM/YY
TC	-	DD/MM/YY	CHECKED
CLASS	-	DD/MM/YY	DATE
OTHER	-	DD/MM/YY	SCALE
SHIPING DOW NO: C34-037311		SHIPARD: BOMBARDIER INC.	
SIZE	CCG DWG NO: C34-037311	REV	SHEET
		3	1