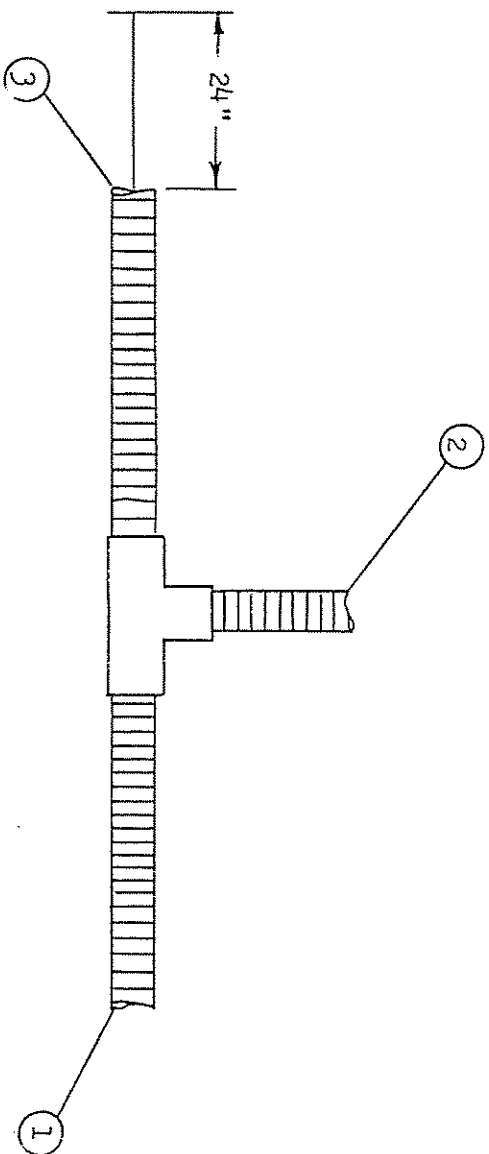


30" CABIN LTS 2
16ga
5' BLUE/BLACK 1 5' 1



24"	25'	25'
V-BERTH T.V.*	10ga	RED/BLACK
3	1	1
TYP. ROUTING DIRECTION →		

HOLDING LENGTH	TOTAL WIRE LENGTH	
WIRE DESCRIPTION	WIRE GAUGE	WIRE COLOR
STARTING POINT	DESTINATION POINT	

NOTE: RED/BLACK INDICATES 1 WIRE TWO COLORS

RED, BLACK INDICATES TWO SEPARATE WIRES

WHEN PULLING WIRE THROUGH DESIGNATED ROUTING, HOLD (24" EX.) FROM STARTING END OF CONDUIT OR E. BOX. THE REMAINING WIRE IS THEN LEFT HANGING AT ITS DESTINATION POINT.

(*) REPRESENTS OPTIONAL FEATURES



SEA RAY®

PRODUCT DEVELOPMENT
AND ENGINEERING

TITLE TYPICAL CONDUIT WIRE PULL GUIDE

MODEL 390EC

DATE 10-31-88

SCALE

DRAWN BY C. CIEMNY

CHECKED BY

APPROVED BY

REVISION NO.

ECN NO. 5837

DRAWING NO. 00-500

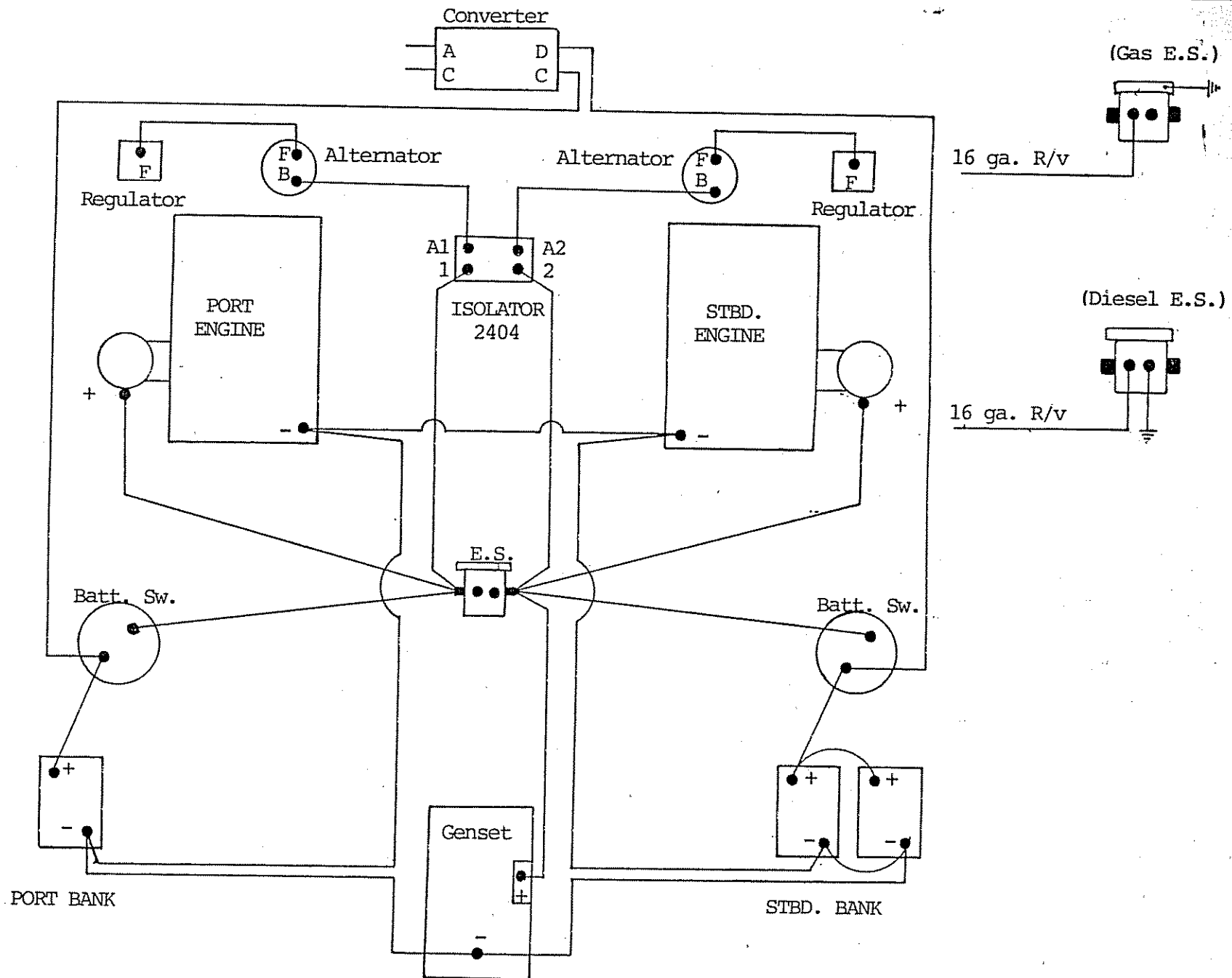
BOAT	ENGINE TYPE	LOWER STATION				UPPER STATION				FEET TO INCHES	
		PT	ST	PS	SS	PT	ST	PS	SS	10	120
390 EC	ALL GAS ENGINES	26	20	26	20	--	--	--	--	11	132
		17	12	24	20	--	--	--	--	12	144
	DIESEL									13	156
										14	168
										15	180
390 SDSF	ALL GAS ENGINES	19	26	22	26	26	26	24	28	16	192
BRIDGE	CATERPILLAR	12	17	19	26	30	28	28	26	17	204
PLAN A	PERKINS, DDSS	19	26	22	26	26	26	24	28	18	216
										19	228
390 SDSF	ALL GAS ENGINES	20	26	22	26	22	22	24	24	20	240
BRIDGE	CATERPILLAR	12	17	19	26	28	26	24	24	21	252
PLAN B	PERKINS, DDSS	20	26	22	26	22	22	24	24	22	264
										23	276
										24	288
390 SDSF	ALL GAS ENGINES	17	14	17	14					25	300
COCKPIT	DIESEL	22	17	17	14					26	312
CONTROL										27	324
										28	336
										29	348
										30	360
										31	372
										32	384
										33	396

CABLES MARKED ON BOTH ENDS

BOOT TAPE DENOTES PORT, BLACK TAPE DENOTES THROTTLE

INCH MEASUREMENTS ON CABLE GO TO ENGINE SIDE

DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
D. Alms	RG 8/23/84	Control Cable Listing	390's	2399	1 14 AUG. 84	05 02



DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
D. Alms		Battery Wiring Diagram	All		2 7/9/84	09-016

TERMINAL STRIP CONNECTIONS

DRAWING NO. 09-022

1. LOWER STATION WIPER SWITCH (STB)
2. STB. WIPER MOTOR
3. LOWER STATION WIPER SWITCH (MID)
4. MID. WIPER MOTOR
5. LOWER STATION WIPER SWITCH (PORT)
6. PORT WIPER MOTOR
7. EMERGENCY START: FROM SOLENOID AND LOWER STATION
8. EMERGENCY START, UPPER STATION
9. RUNNING LIGHTS: SIDE LTS. AND LOWER STATION
10. RUNNING LIGHTS: STERN LTS. AND UPPER STATION
11. FWD. MAST LIGHTS, LOWER STATION
12. FWD. MAST LIGHTS, UPPER STATION
13. AFT MAST LIGHTS, LOWER STATION
14. AFT MAST LIGHTS, UPPER STATION
15. STB. BLOWER: LOWER STATION AND BLOWER MOTOR
16. STB BLOWER UPPER STATION SWITCH
17. PORT BLOWER: LOWER STATION AND BLOWER MOTOR
18. PORT BLOWER UPPER STATION SWITCH
19. BILGE AND ACCESSORY RM. LIGHTS
20. BILGE LIGHT SWITCH
21. COCKPIT LIGHTS (NOT USED ON 390 SF)
22. COCKPIT LIGHT SWITCH (NOT USED ON 390 SF)
23. STEP LIGHTS AND INDIRECT LIGHTS
24. INDIRECT LIGHT SWITCH
25. FWD. CABIN LIGHTS: HEAD AND FWD STATE RM. (GUNWALE)
GALLEY AND STB. STATE RM. (MIDSHIP)
26. FWD. CABIN LIGHT BREAKER ON M.D.P.
27. AFT CABIN LIGHT SWITCH FEEDS INDIRECT, COCKPIT, AND BILGE LIGHTS
28. AFT CABIN LIGHT BREAKER ON M.D.P.
29. FWD. BILGE PUMP AUTO: FROM BILGE BREAKER AND LOWER STATION SWITCH
30. FWD. BILGE PUMP AUTO: FROM BILGE PUMP AND UPPER STATION SWITCH
31. FWD. BILGE PUMP MANUAL FROM LOWER STATION SWITCH
32. FWD. BILGE PUMP MANUAL FROM UPPER STATION SWITCH
33. AFT BILGE PUMP AUTO: FROM BILGE BREAKER AND LOWER STATION SWITCH
34. AFT BILGE PUMP AUTO: FROM BILGE PUMP AND UPPER STATION
35. AFT BILGE PUMP MANUAL FROM LOWER STATION SWITCH
36. AFT BILGE PUMP MANUAL FROM UPPER STATION SWITCH
37. HORN, UPPER STATION
38. HORN LOWER STATION
39. BONDING WIRE, UPPER STATION
40. BONDING WIRE, LOWER STATION AND M.D.P.
41. HELM MAIN: FROM UPPER STATION AND M.D.P.
42. HELM MAIN: FEOM LOWER STATION AND BILGE BREAKER
43. SPOTLIGHT, UPPER STATION SWITCH
44. SPOTLIGHT, LOWER STATION SWITCH
45. THROUGH 53. TRIM TABS, FROM UPPER STATION SWITCH
46. THROUGH 54. TRIM TABS, FROM BILGE AND LOWER STATION
55. HIGH WATER BILGE ALARM, LOWER STATION
56. HIGH WATER BILGE ALARM, UPPER STATION AND BILGE SWITCH
57. AND 59. ELECTRONIC CIRCUIT FROM UPPER STATION
58. AND 60. ELECTRONIC CIRCUIT FROM BILGE BREAKER
61. GROUND BUSS, COMMON FOR ALL ABOVE CIRCUITS INCLUDE GROUNDS FROM BILGE & M.D.P.

STBD. WIPER

MID. WIPER

PORT WIPER

EMERGENCY START

RUNNING LIGHTS

FWD. MAST LIGHT

AFT MAST LIGHT

STBD. BLOWER

PORT BLOWER

BILGE LIGHTS

COCKPIT LIGHTS

INDIRECT LIGHTS

FWD. CABIN LIGHTS

AFT CABIN LIGHTS

FWD. BILGE PUMP AUTO

FWD. BILGE PUMP MANUAL

AFT BILGE PUMP AUTO

AFT BILGE PUMP MANUAL

BONDING WIRE

HELM MAIN

SPOTLIGHT 10GA. RED

TRIM TABS 10GA. RED

BLUE

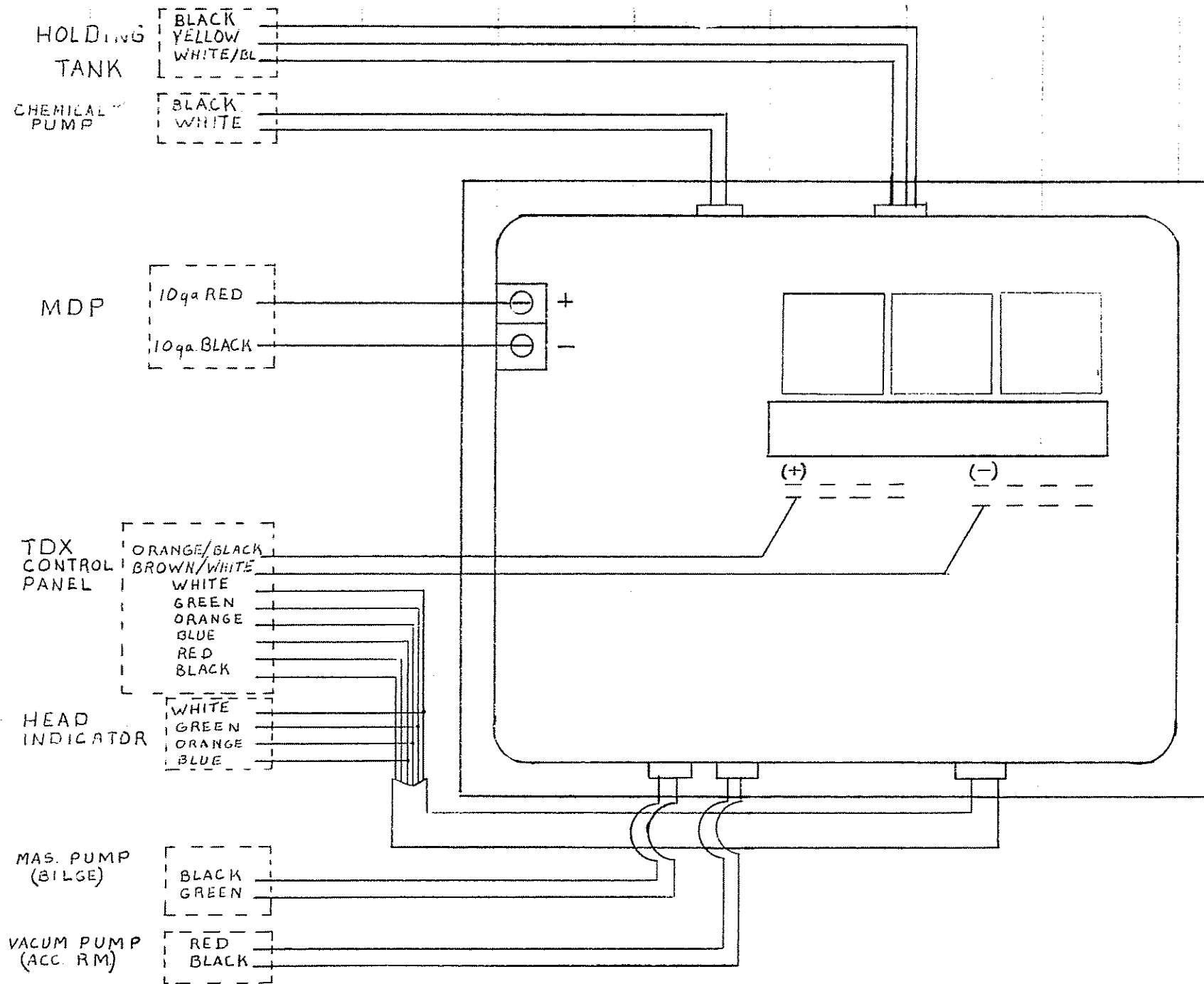
GREEN

RED

YELLOW

DRAWING NO. 09-023

360SDSF, 355SD, 355AC



DRAWN BY
[Signature]

APPROV BY
RG 4/17/84

TITLE
TDX MODULE WIRING DIAGRAM

MODEL
ALL BOATS

ECN NO.
2189

REV NO.
1 4/17/84

DWG NO.
09-041

2-CIRCUIT
START SW.

IGNITION

10

10

BLOWERS

2-CIRCUIT START SW.

DPST
MOM
ON

IGNITION

EMERGENCY
START

AUTO
PILOT

SPOT
LIGHT

TRIM
TABS

ACC.

○

○

○

○

BLANK
(20A)

10

30

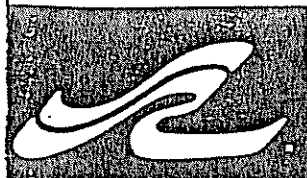
BLANK

HALON SYSTEM

STBD IGNITION ON

1. LIGHT ON UNIT CHARGED.
2. LIGHT OUT UNIT DISCHARGED.
3. IF SYSTEM DISCHARGES
SHUT DOWN ENGINES,
BLOWERS, ELECTRICAL SYSTEMS.

NOTE:
1) ACC. HOLE TO BE USED
FOR GLENDINNING OPT. (15A)



SEA RAY®
PRODUCT DEVELOPMENT
AND ENGINEERING

TITLE PORT SWITCH PANEL

MODEL 390EC

DATE 10-19-88

SCALE FULL

DRAWN BY B. WISHNESKI

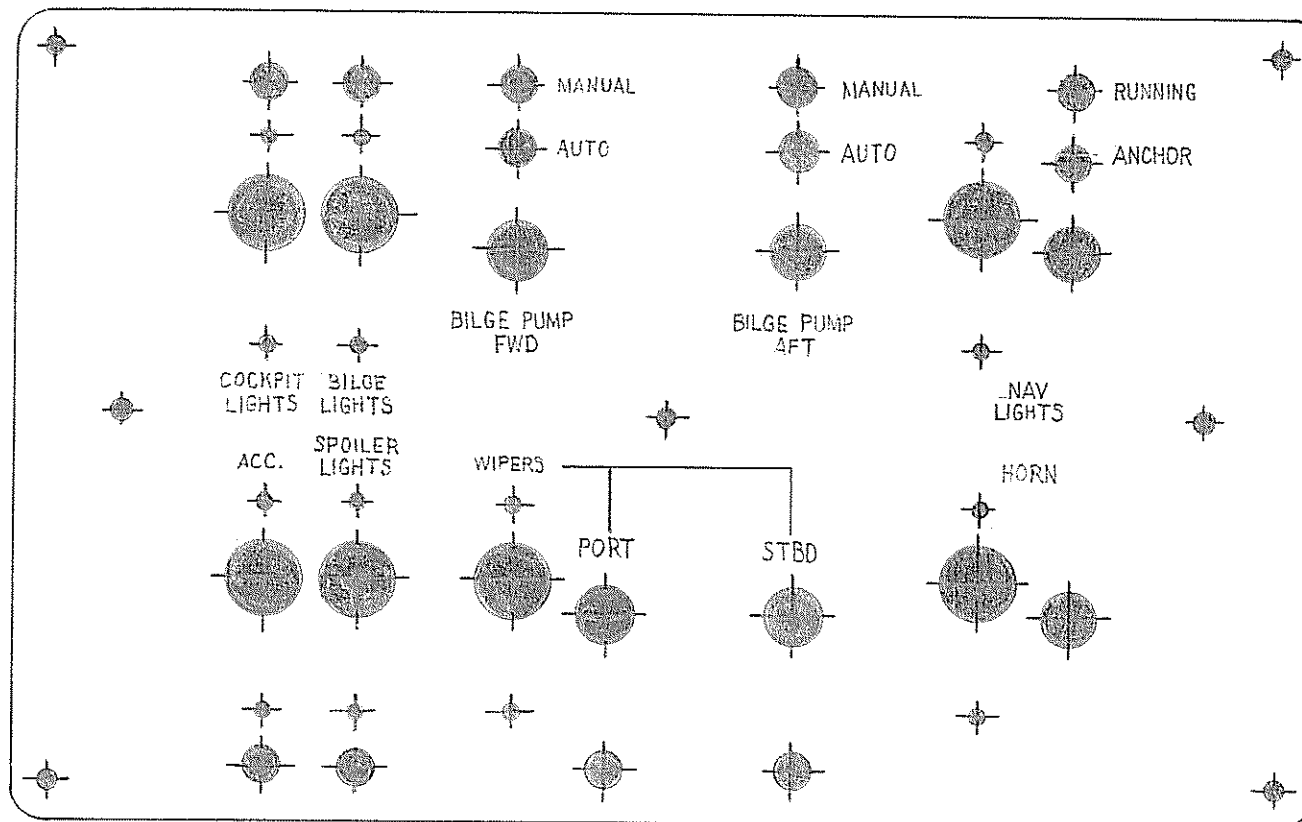
CHECKED BY

APPROVED BY

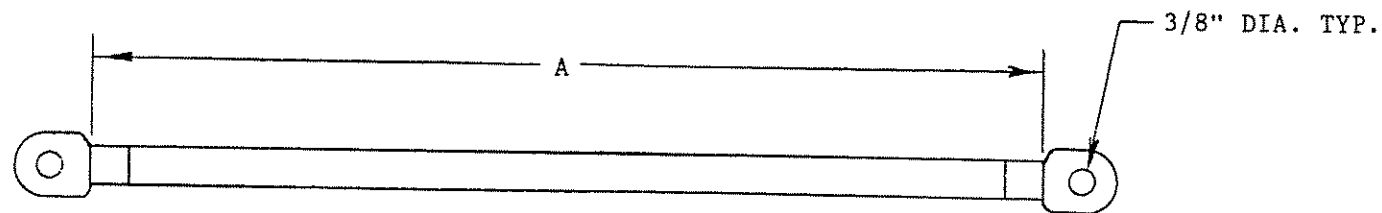
REVISION NO. 6 2-27-89

ECN NO. 5991

DRAWING NO. 09-131



DRAWN BY BRADY, BRIAN D.	APPROV BY RG 7/27/84	TITLE STBD SWITCH PANEL	MODEL 390 EC	ECN NO. 2380	REV NO. 1	DWG NO. 09-132
-----------------------------	-------------------------	----------------------------	-----------------	-----------------	--------------	-------------------



BATTERY PARALLEL CABLE

DIESEL ENGINES

DIM. A=7" (2) 4/0 AWG RED
19½" (2) 4/0 AWG BLACK

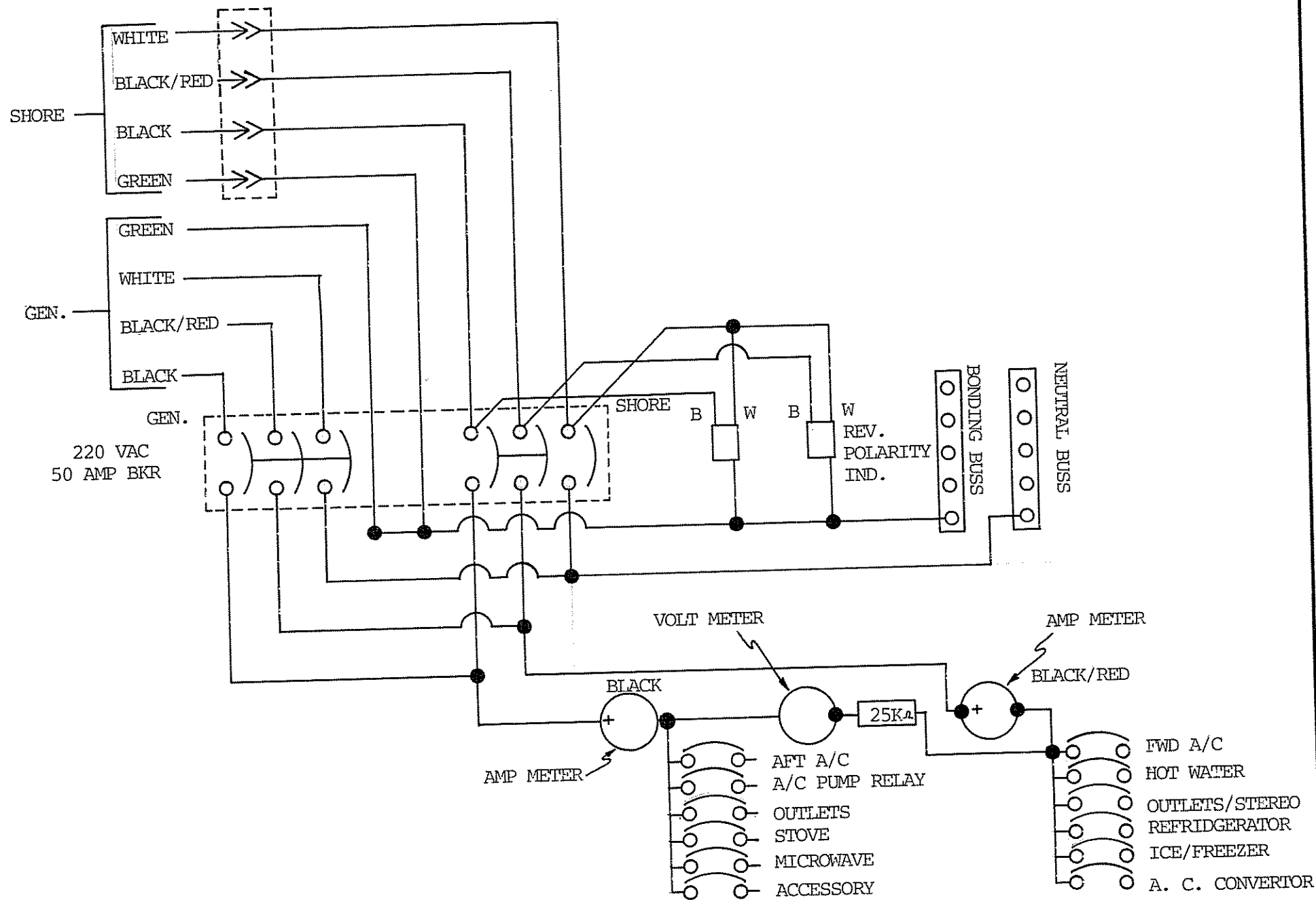
GAS ENGINES

DIM. A=12" (1) 2GA. RED
42" (1) 2GA. BLACK



SEA RAY®
PRODUCT DEVELOPMENT
AND ENGINEERING

TITLE BATTERY PARALLEL CABLES		
MODEL 390EC	DRAWN BY B. WISHNESKI	REVISION NO. 1 10-17-88
DATE 4-28-87	CHECKED BY <i>[Signature]</i>	ECN NO. 5837
SCALE	APPROVED BY <i>[Signature]</i>	DRAWING NO. 09-140



DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
BRADY, BRIAN D.	RG 5/8/85	MAIN POWER SUPPLY SCHEMATIC	390 EC/SF 360 AC		1	09-150

NOTE: GENERAL INSTUCTIONS FOR 340 - 360 - 390 SERIES

1. WHEN DIESEL ENGINES ARE ORDERED DO NOT DRILL TRANSMISSION INDICATOR.
2. IF THE OPTIONAL GEN. SET IS NOT ORDERED DO NOT DRILL GENERATOR INDICATOR.

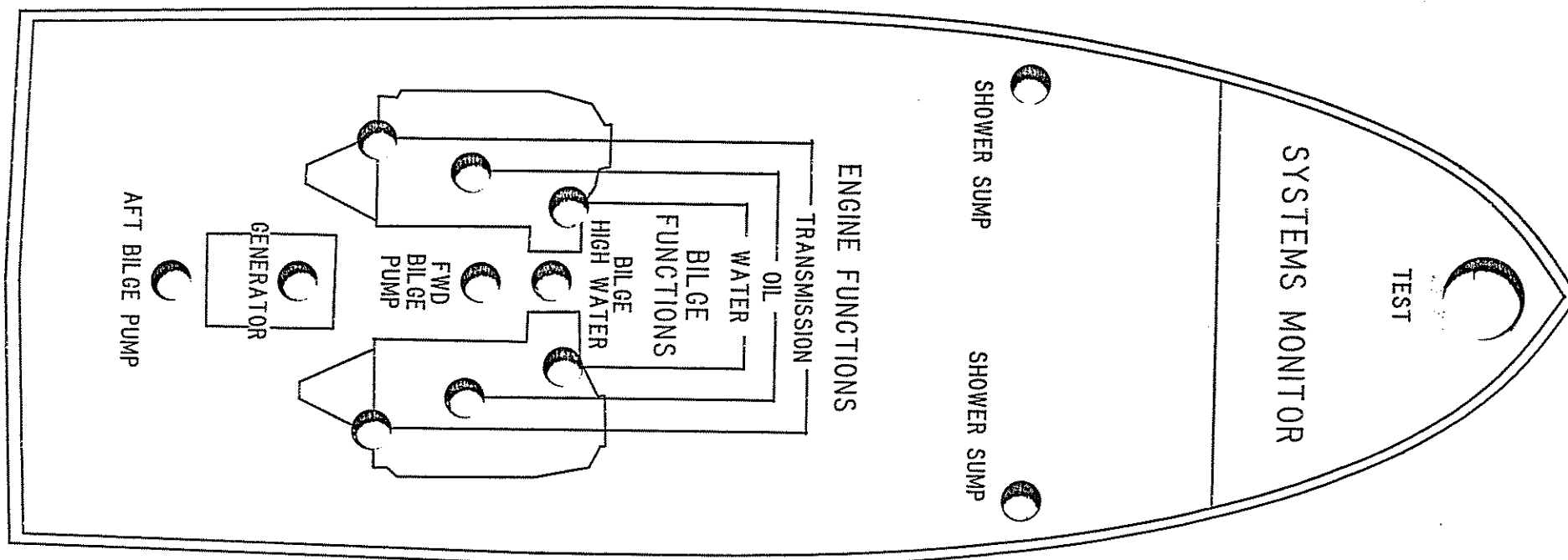
SPECIFIC INSTUCTIONS FOR EACH MODEL

340 SERIES

1. DO NOT DRILL SHOWER SUMP INDICATORS.

360 - 390 SERIES

1. DO NOT DRILL STB'D SHOWER SUMP INDICATOR.



DRAWN BY
RMH

APPROV BY
RG 5/14/85

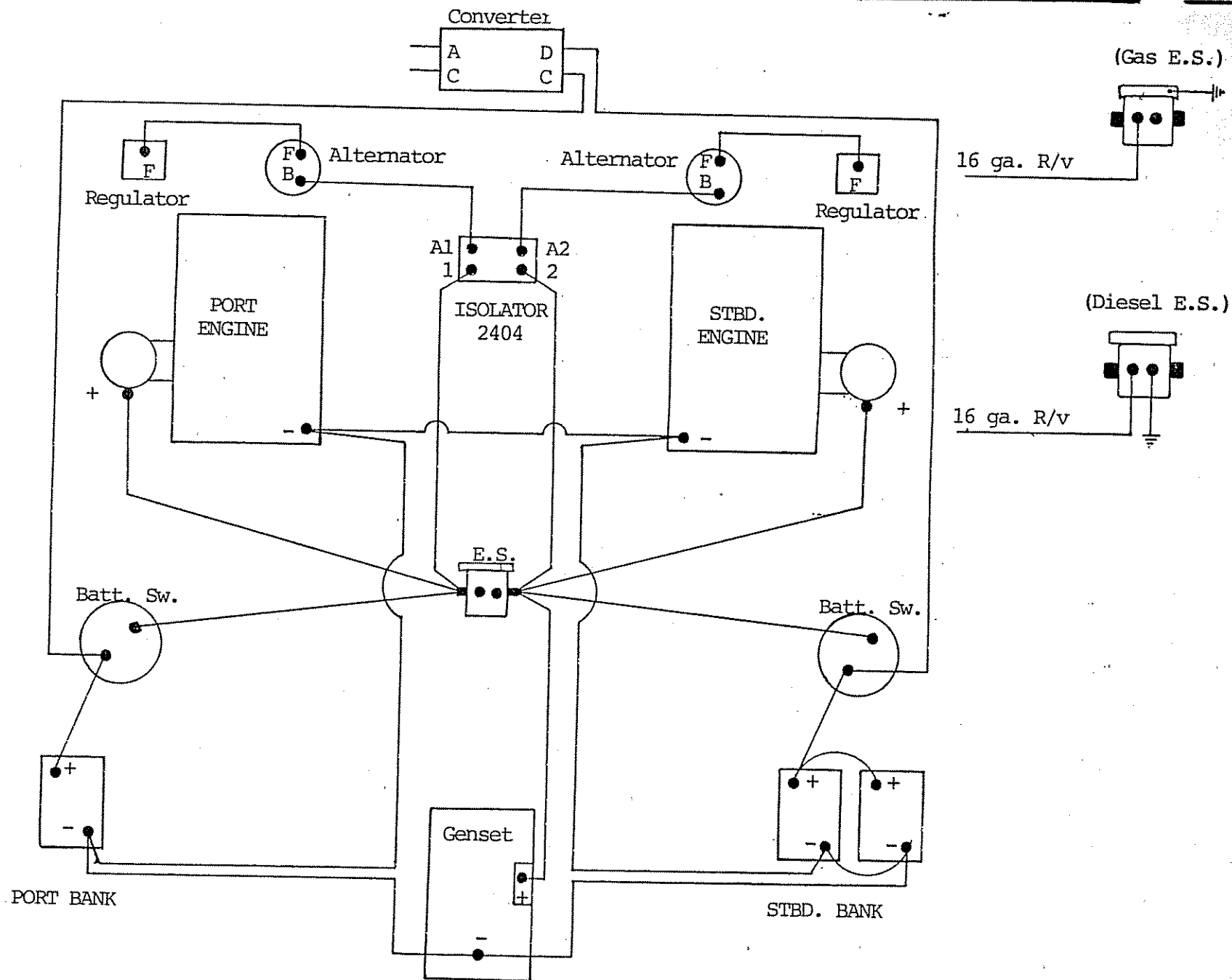
TITLE
SYSTEMS MONITOR INDICATOR PANAL

MODEL
ALL

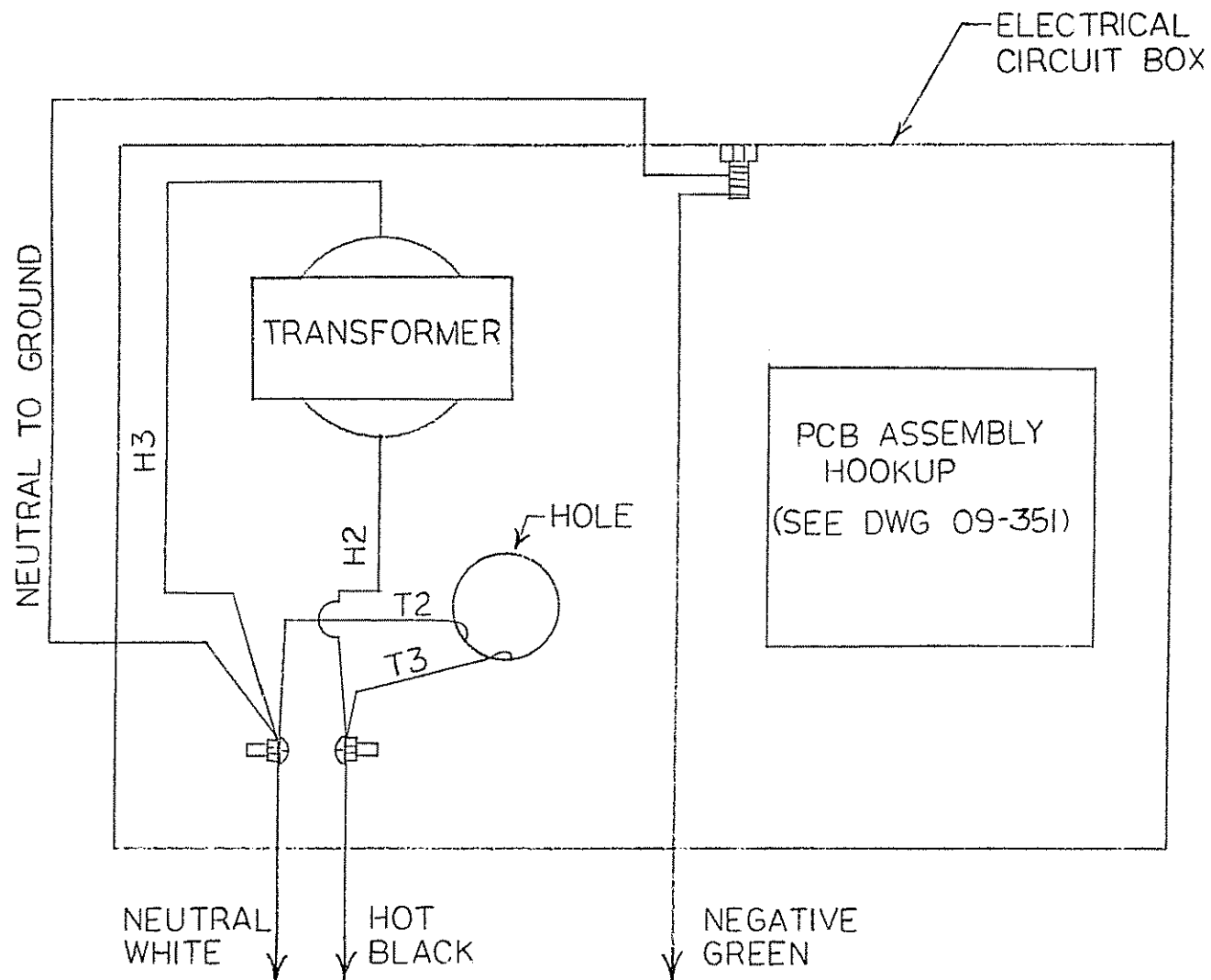
ECN NO.
2635

REV NO.
1

DWG NO.
09-220

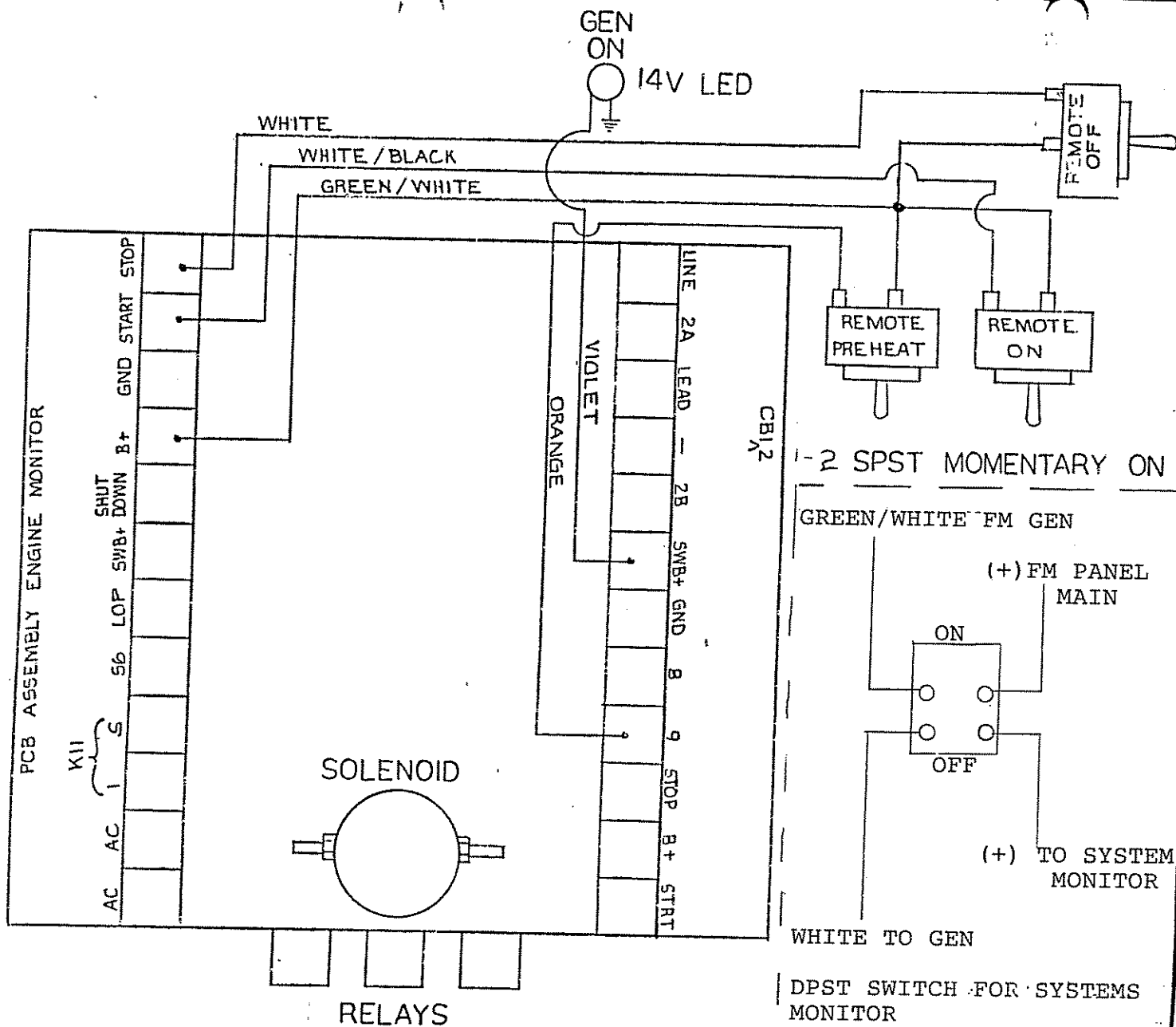


DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
D. Alms	RG 8/23/84	Battery Wiring Diagram	All	2399	3 14 AUG 84	1 301



DRAWN BY JBN	APPROV BY RG 2/21/84	TITLE 110V FEED WIRE SCHEMATIC FOR ONAN 4.0 & 8.0 KW GENERATORS	MODEL ALL (EXCEPT SDA)	ECN NO. 2399	REV NO. 2 14 AUG 84	DWG NO. 09-350
-----------------	-------------------------	--	------------------------------	-----------------	---------------------------	-------------------

ENGINE
↑
GEN SET
↓



NOTE: ONAN 4.0 & 8.0 KW AVAILABLE WITH DIESEL ENGINES ONLY.

DRAWN BY
JBN

APPROV BY
RG 5/14/85

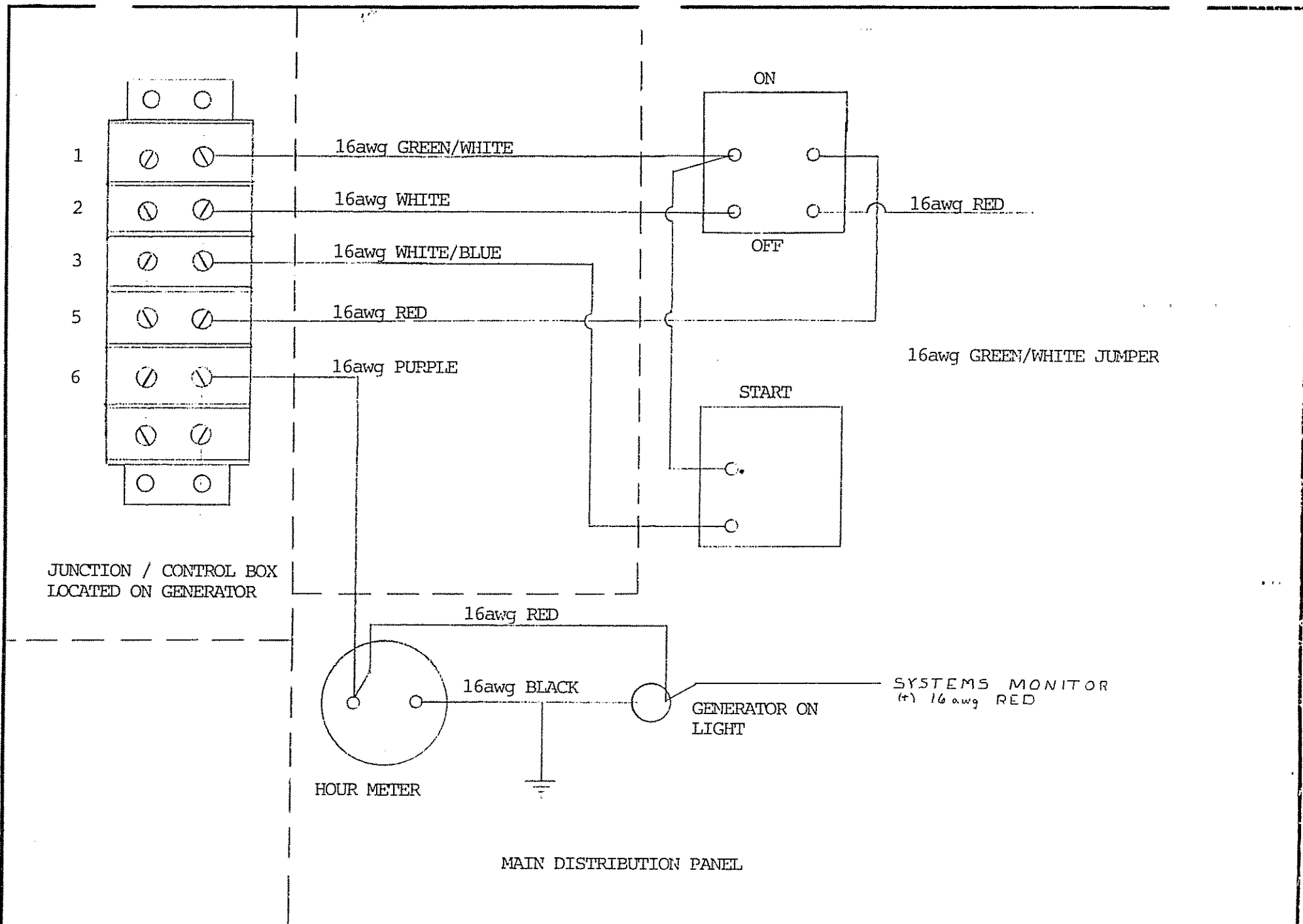
TITLE REMOTE SWITCH WIRING FOR
ONAN MDKD & MDKC 4.0 & 8.0 KW

MODEL
ALL
(EXCEPT SDA)

ECN NO.
2635

REV NO.
6

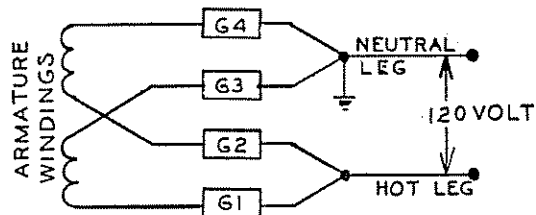
DWG NO.
09-351



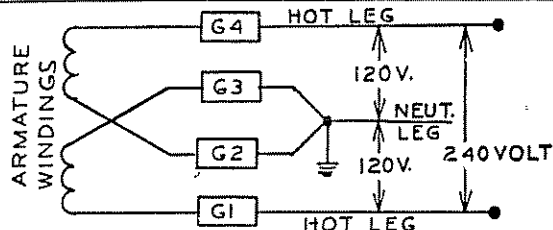
DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
	RG 5/14/85	GAS ONAN GENERATOR REMOTE START WIRING	340/390		2	09-353

4 WIRE

1. WHEN THE ELECTRICAL SYSTEM IS A TWO WIRE TYPE REQUIRING ONLY 120 VOLTS:



2. WHEN THE ELECTRICAL SYSTEM IS A THREE WIRE TYPE REQUIRING 120V. OR 120/240VOLTS:



This is a single phase, 4 lead reconnectable generator with voltage combinations of 120 volt, two wire, or 120/240 volt, 3 wire.

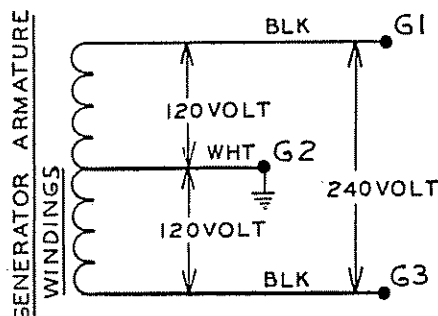
All 120 volt devices must be connected to one of the two 120 volt sources and all 240 volt devices must be connected to the 240 volt source.

For all 120 volt loads, half of the generator's rated capacity may be taken from leads G1 and G2/G3 and half from G4 and G2/G3.

240 Volt loads are connected to G1 and G4 at full generator rated capacity.

CAUTION: ALL 120 VOLT LOADS MUST BE DIVIDED UP AND CONNECTED IN SUCH A MANNER THAT CURRENT FLOWING IN ANY OF THE THREE LEGS (G1, G4, G2/G3) DOES NOT EXCEED THE LOWEST AMPERAGE RATING ON THE NAME TAG.

3 WIRE



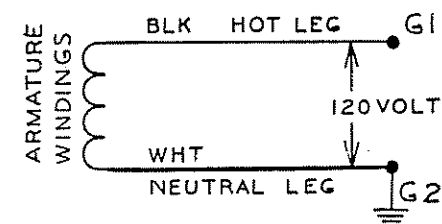
This is a 3 wire, single phase generator set which provides three separate sources of power at two different voltages.

All 120 volt devices must be connected to one of the two 120 volt sources and all 240 volt devices must be connected to the 240 volt source.

For 120 volt loads, half of the total capacity may be taken from leads G1 and G2, and half from leads G2 and G3. 240 volt loads are connected to G1 and G3.

CAUTION: All loads must be divided up and connected in such a manner that the current flowing in any one lead (G1, G2, G3) does not exceed the lowest amperage rating on the name tag.

2 WIRE



TWO WIRE SYSTEM FOR 120 VOLT OUTPUT ONLY.

TOLERANCES (EXCEPT AS NOTED)		J. H. WESTERBEKE CORP AVON, MA. 02322	
DECIMAL		SCALE	DRAWN BY
± ~		NONE	Stouffer J. Sigak
FRACTIONAL		TITLE	
± ~		AC WIRING DIAGRAM, SINGLE PHASE GENSETS. 15 SERIES	
ANGULAR		DATE	DRAWING NUMBER
± ~		5-14-81	30762

DRAWN BY
MSM

APPROV BY
RG 8/23/84

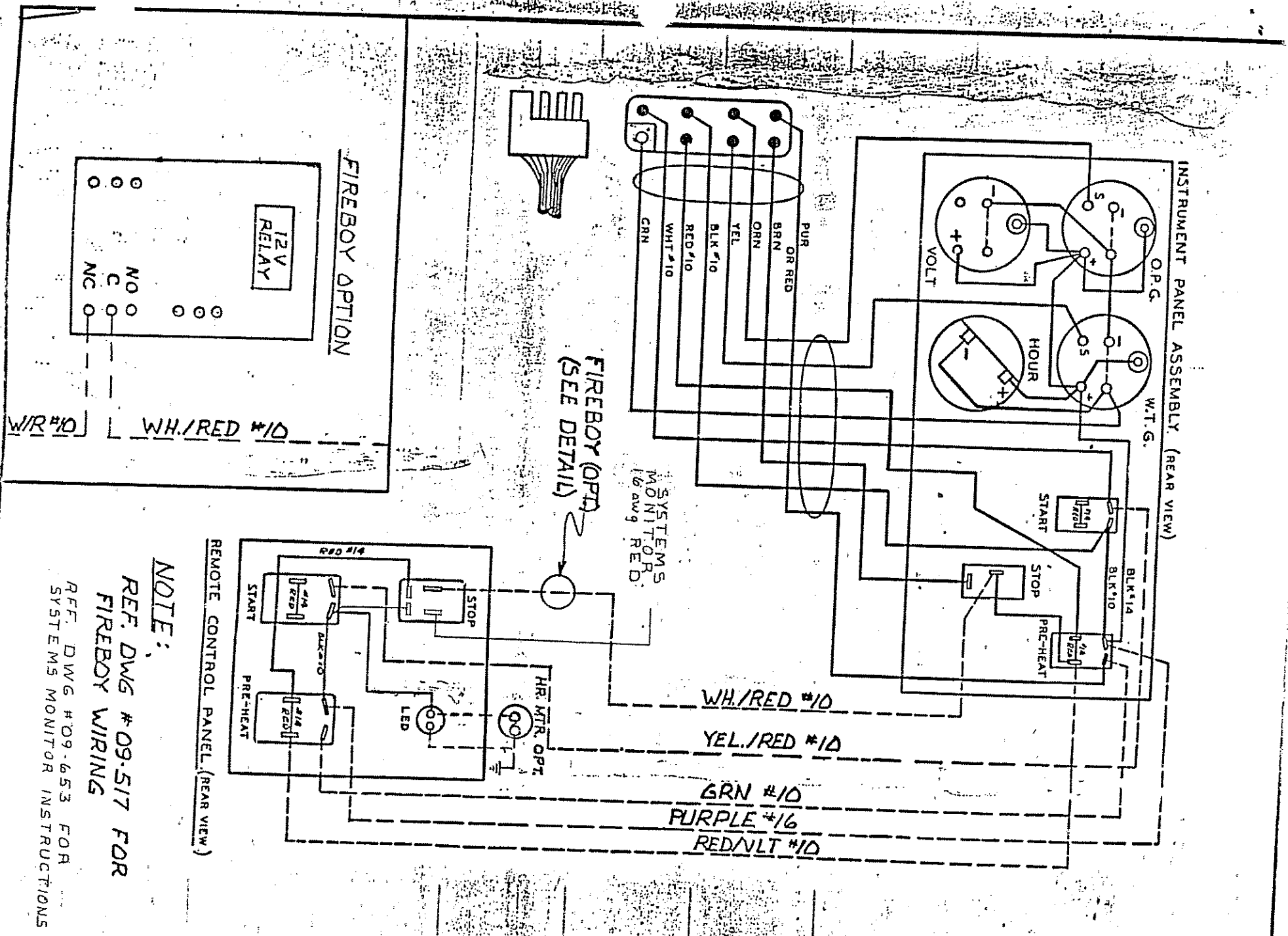
TITLE
WESTERBEKE HIGH VOLTAGE WIRING

MODEL
ALL

ECN NO.
2399

REV NO.
1 14 AUG
84

DWG NO.
09-360

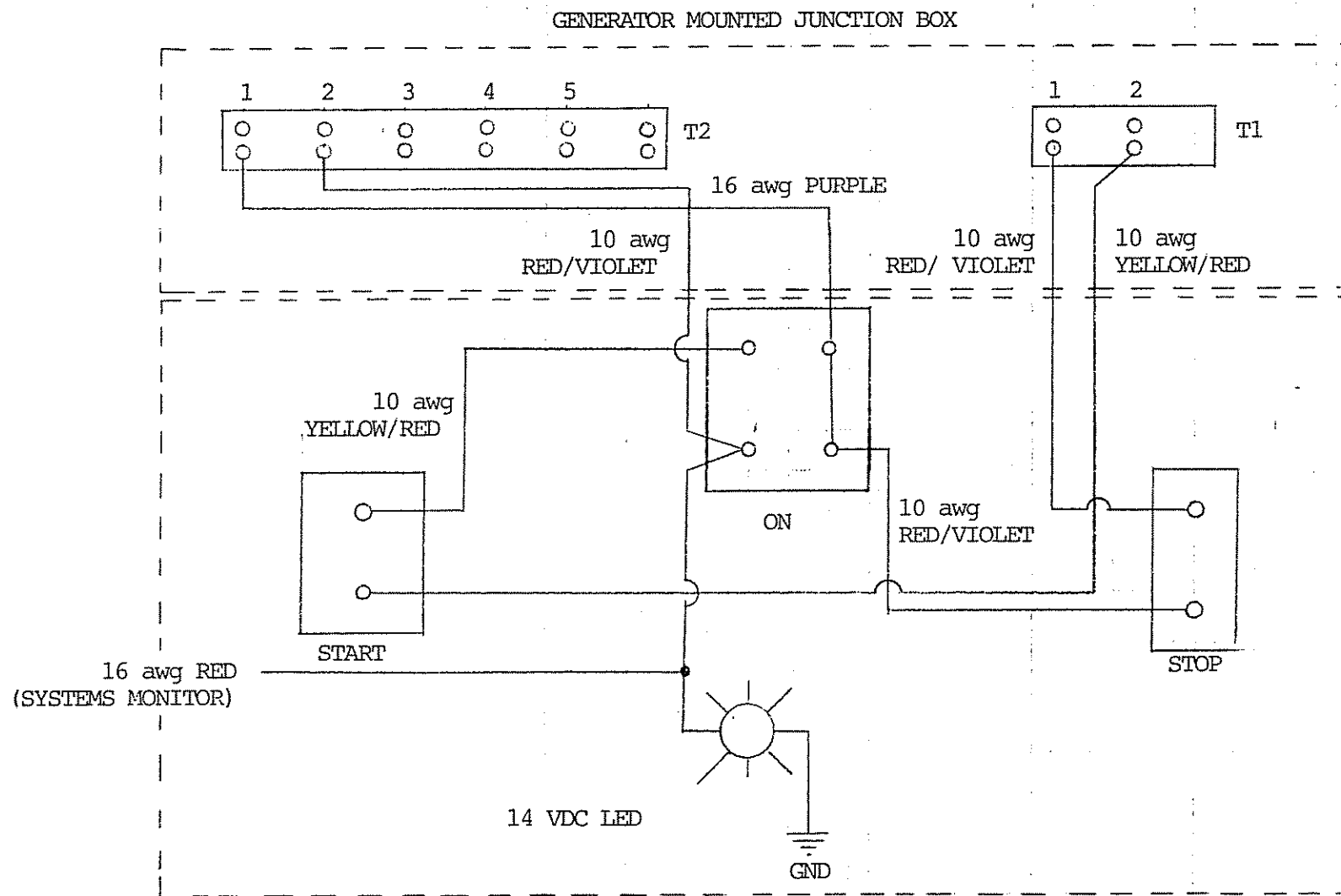


NOTE:

REF. DWG #09-517 FOR
FIREBOY WIRING

REF. DWG #09-653 FOR
SYSTEMS MONITOR INSTRUCTIONS

DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
Michael S. K. Brown	RG 5/14/85	(DIESEL ONLY) WESTERBEKE REMOTE WIRING	ALL		4	00-361



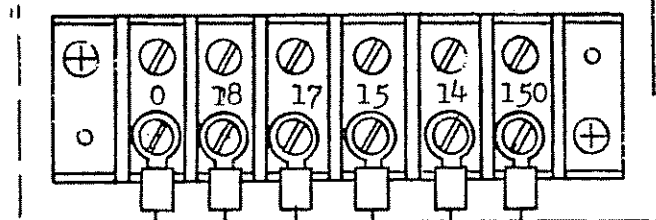
REMOTE START / STOP (MDP)

NOTE: FOR GAS WESTERBEKE ONLY! SWITCH CHARACTERISTICS
 START SWITCH; SPST MOMENTARY - NORMALLY OPEN
 STOP SWITCH; SPST MOMENTARY - NORMALLY CLOSED
 ON SWITCH; DPST MOMENTARY - NORMALLY OPEN

DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
Michael S. Morgan	RG 5/14/85	GAS WESTERBEKE REMOTE WIRING	ALL		1	09-302

10 amp. E-T-A
CIRCUIT BREAKER
EMERGENCY STOP

- #0) COMMON GND
- #14) ON LAMP & HOUR METER
- #15) POWER TO PREHEAT
- #17) START
- #18) STOP
- #150) PREHEAT



20 AMP. FUSE
AND HOLDER

BROWN

REMOVE BROWN
WIRE AND BUTT
INTO WT./RED TRAC.
& RED/VIOLET TRAC.

GENERATOR OIL
PRESSURE SWITCH

GND

ITEMS INSIDE
DASH LINES COME
INSTALLED ON
MERCURY GEN.

5amp FUSE
AND HOLDER

16ga
RED/VIOLET

SYSTEM
MONITOR

GEN
OIL
LIGHT

16ga BLK

16ga RED/VIOLET TRACER

10ga WT./RED TRACER

10ga WT./RED TRACER TO
FIREBOY

HOURMETER

GENERATOR
RUN LIGHT

GND

16ga GREEN (GEN. RUN 12+V)

16ga ORANGE (PREHEAT)

10ga WHITE (POWER TO PREHEAT)

10ga YELLOW/RED (START)

10ga GREEN/WHITE (STOP)

10ga BLACK (COMMON GND)

TOGGLE SWITCH
POSITION

CARLINGTON S.
#6GGC5BNBL8X
SR. PN.

START

GND

STOP

OFF

ON

SPST-M

10ga BLACK (COMMON GND)
10ga GREEN/WHITE (STOP)
10ga YELLOW/RED (START)
10ga WHITE (POWER TO PREHEAT)
16ga ORANGE (PREHEAT)

SEA RAY®

PRODUCT DEVELOPMENT
AND ENGINEERING

TITLE QUICK SILVER 8.0 DIESEL GENERATOR WIRING

MODEL 440CV, 390MC, 460MC

DATE 6-6-88

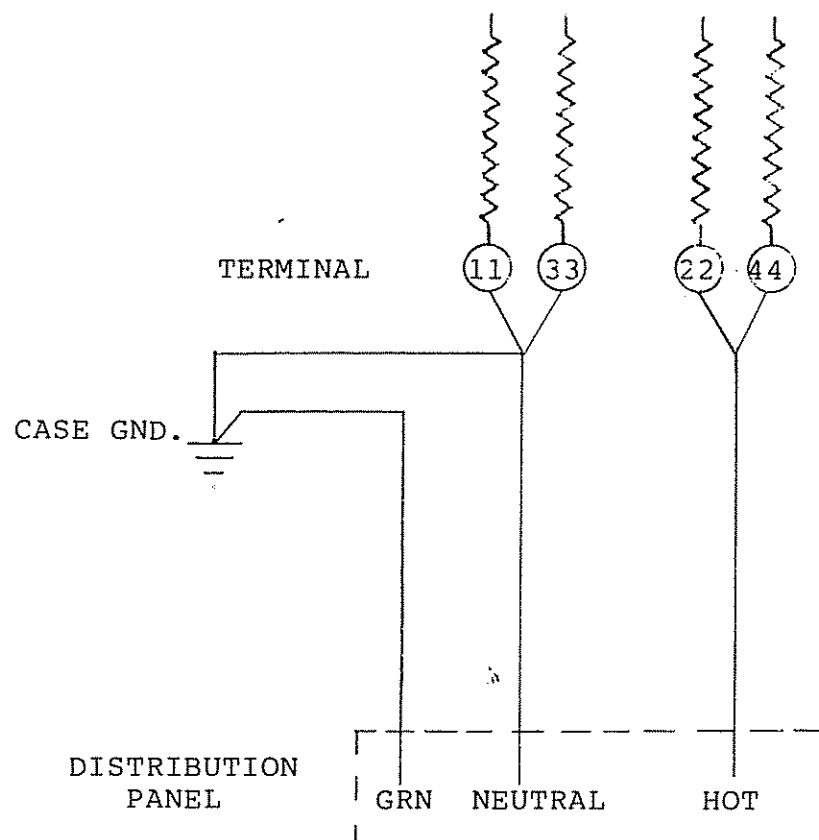
DRAWN BY C. CIEMNY

CHECKED BY

REVISION NO.

ECN NO. 5833

DRAWING NO. 09-370A



NOTES:

- 1) ADD JUMPER FROM TERMINAL 11 TO 33 AND TO CASE GROUND.
- 2) ADD JUMPER FROM 22 TO 44.



SEA RAY®

PRODUCT DEVELOPMENT
AND ENGINEERING

TITLE A.C. CONNECTIONS MERCURY GENERATOR SET WIRING (110V) OPTIONAL

MODEL S-25,270 THRU 410

DRAWN BY M. DUDASH

REVISION NO.

DATE 1-4-88

CHECKED BY *P. HEARN*

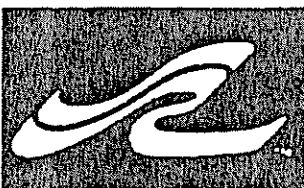
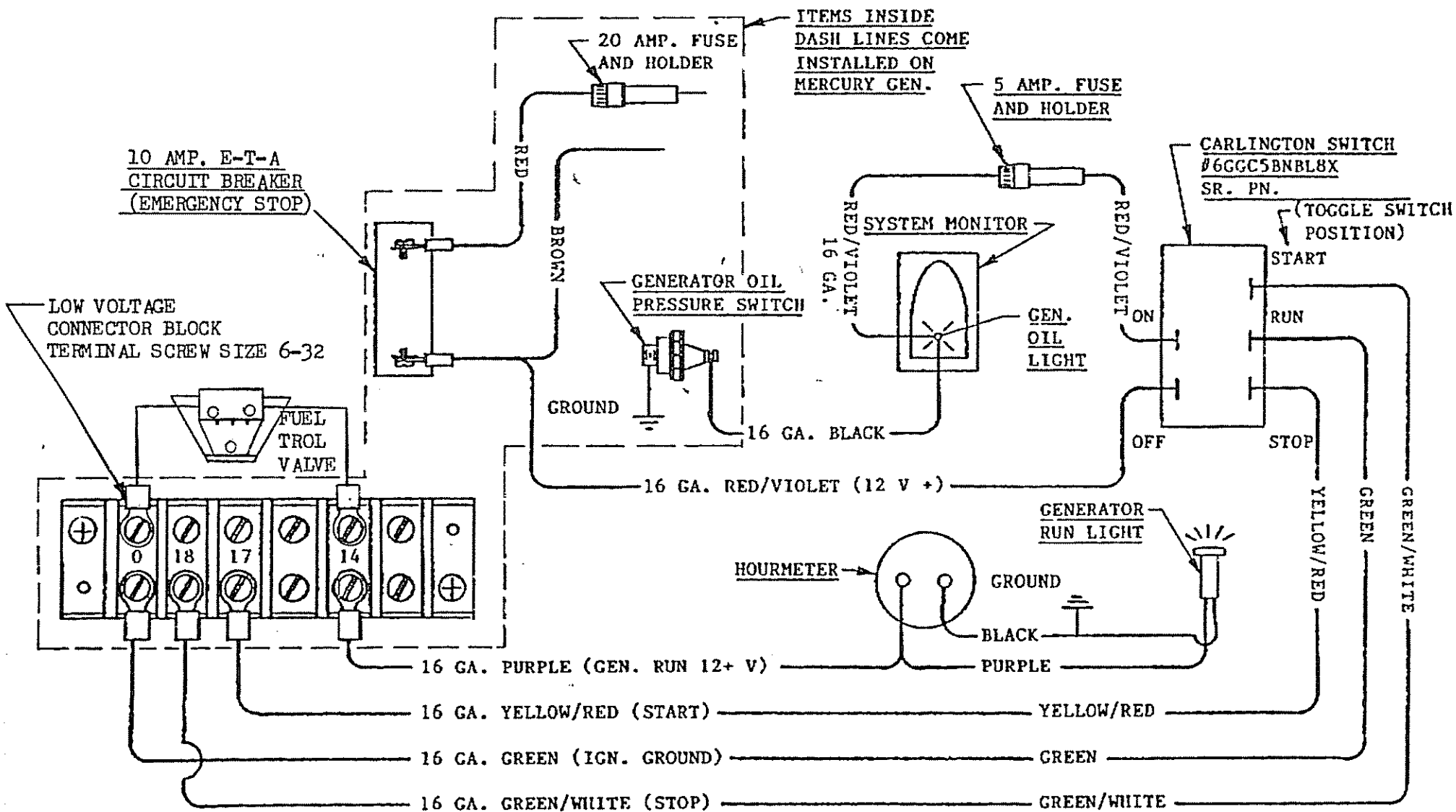
ECN NO.

54 ALL

APPROVED BY

DRAWING NO. 00 370

NOTE: REF. DWG. 09-372 FOR HIGH POWER WIRING.



SEA RAY®

PRODUCT DEVELOPMENT AND ENGINEERING

TITLE QUICKSILVER 6.5 & 8.0 (GAS) GENERATOR WIRING

MODEL 440CV.390EC

DATE 2-5-88

SCALE

DRAWN BY C. CIEMNY

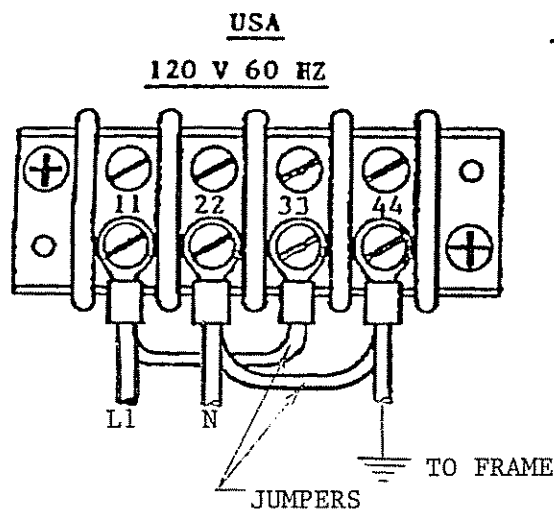
CHECKED BY

APPROVED BY

REVISION NO.

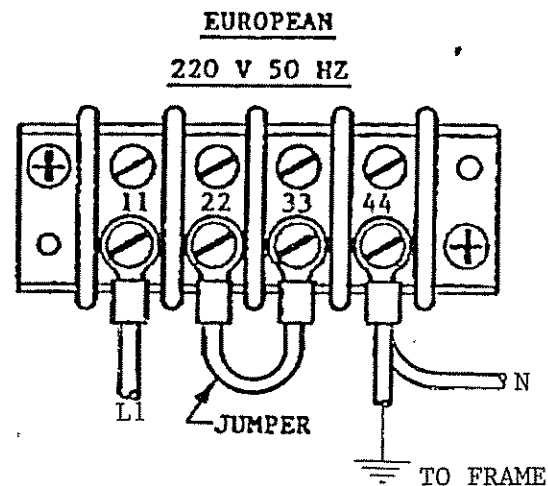
ECON NO. 5833

DRAWING NO. 09-371



AC VOLTAGE CONNECTIONS
AT CONNECTOR BLOCK

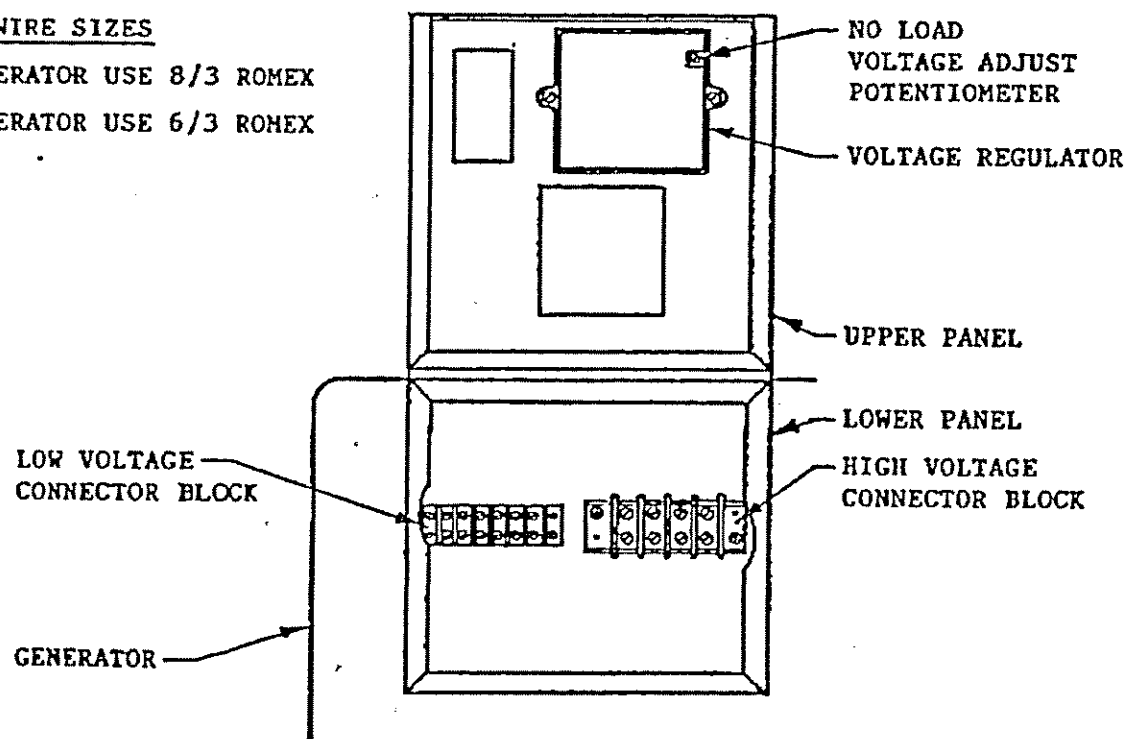
TERMINAL SCREW
SIZE 10-32



WIRE SIZES

6.5 GENERATOR USE 8/3 ROMEX

8.0 GENERATOR USE 6/3 ROMEX



NOTES:

1. 120 V 60 HZ: ADD A JUMPER WIRE FROM 11 TO 33; AND ADD A JUMPER WIRE FROM 22 TO 44.
2. 220 V 50 HZ: ADD A JUMPER WIRE FROM 22 TO 33.
3. ENGINE SPEED AT 50 HZ = 1500 RPM
ENGINE SPEED AT 60 HZ = 1800 RPM
4. IF OTHER VOLTAGES ARE NEEDED SEE THE MERCURY GENERATOR OPERATORS MANUAL.
5. N = NEUTRAL WIRE
L1 = LINE ONE WIRE (HOT)
⏏ = GROUND WIRE CONNECTION



SEA RAY

PRODUCT DEVELOPMENT
AND ENGINEERING

TITLE QUICKSILVER 6.5 & 8.0 (DIESEL & GAS) GENERATOR HIGH VOLTAGE WIRING

MODEL 440CV, 390EC

DRAWN BY C. CIEMNY, BAW

REVISION NO. 3

DATE 3-15-89

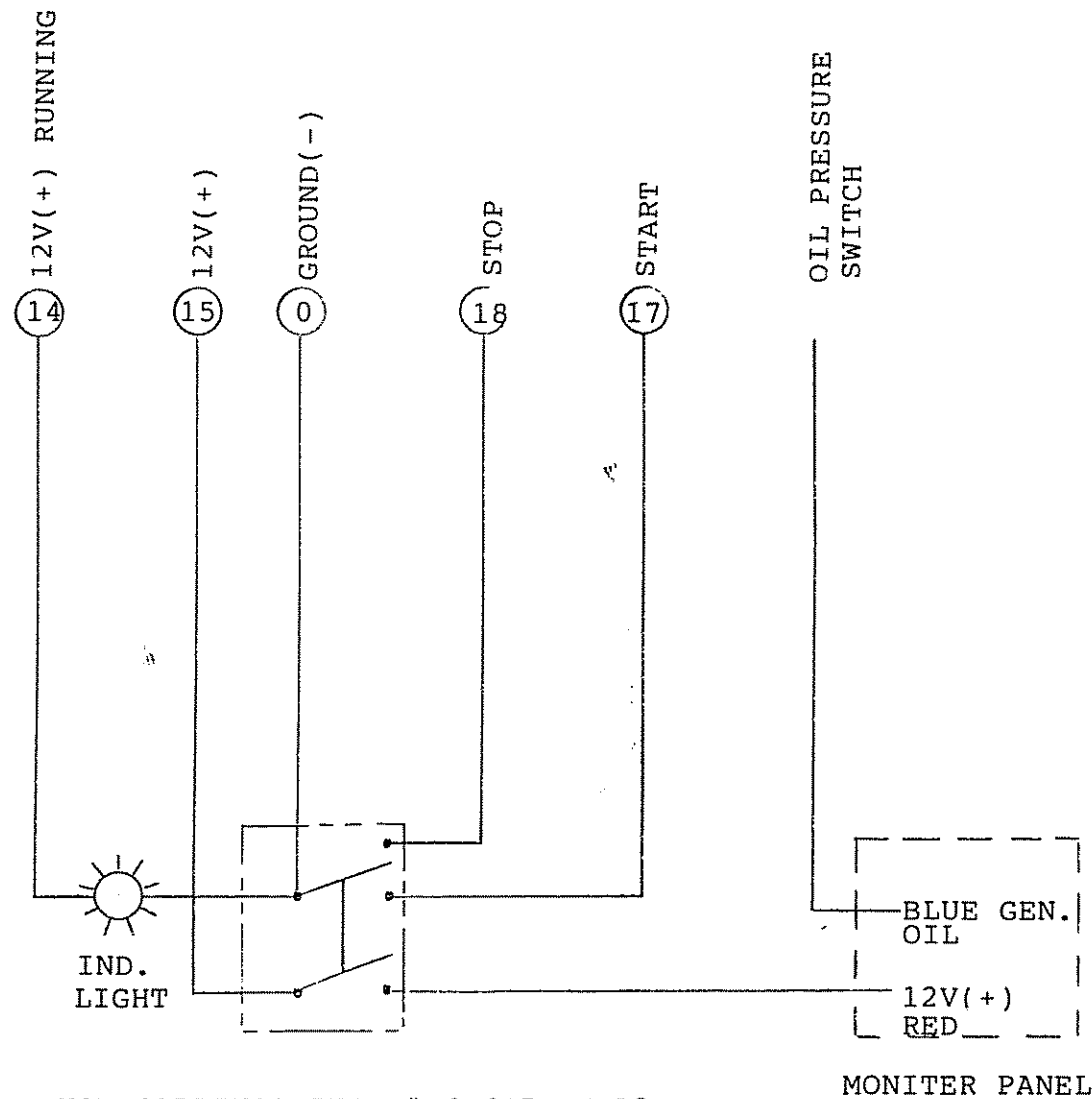
CHECKED BY *BC*

ECN NO. 5921

SCALE

APPROVED BY

DRAWING NO. 09-372



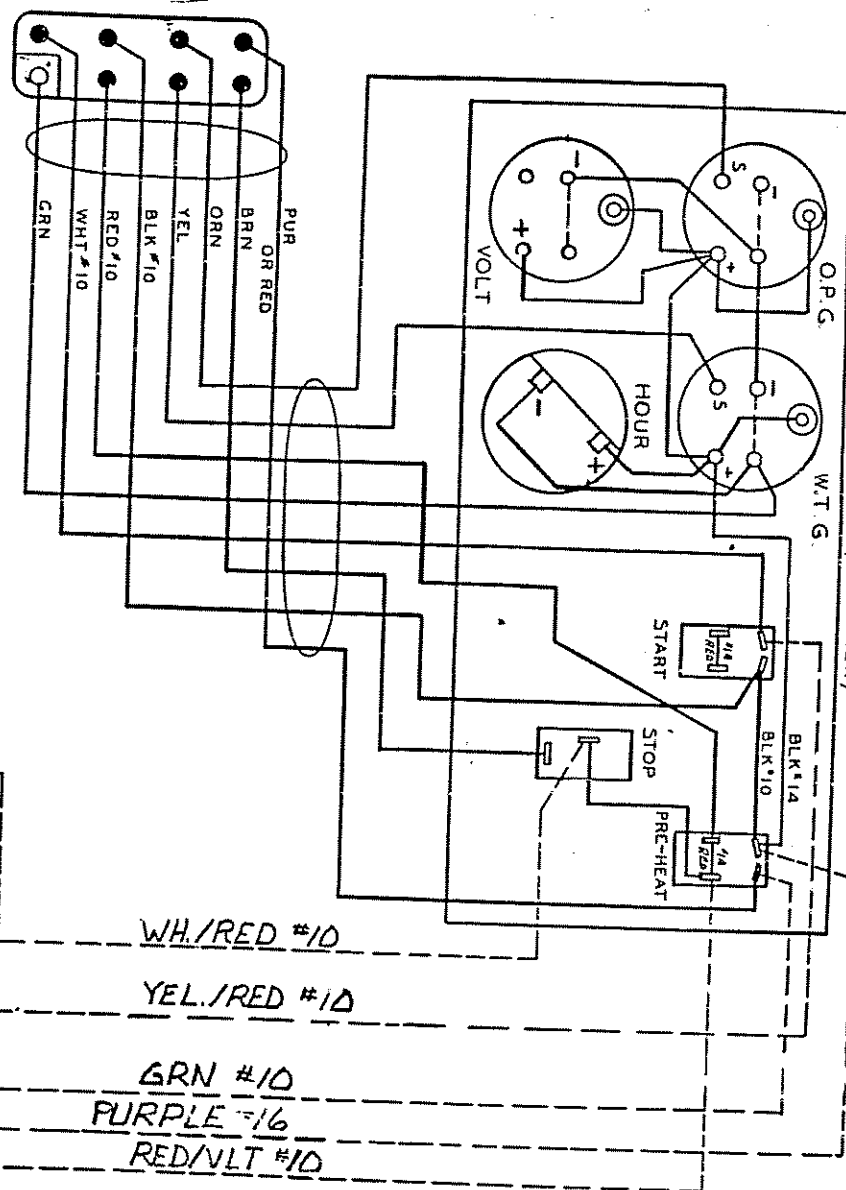
USE CARLINGSWITCH # 6G6C5B-NBL8X



SEA RAY®
PRODUCT DEVELOPMENT
AND ENGINEERING

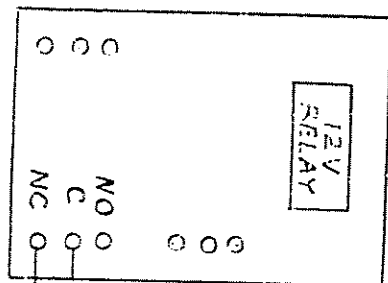
TITLE D.C. CONNECTIONS-REMOTE START MERCURY GENERATOR SET WIRING (OPT.)		
MODEL S-25,270 THRU 410	DRAWN BY M. DUDASH	REVISION NO.
DATE 1-4-88	CHECKED BY D. HENRICH	ICN NO.
SCALE	APPROVED BY	DRAWING NO. 09-372

INSTRUMENT PANEL ASSEMBLY (REAR VIEW)

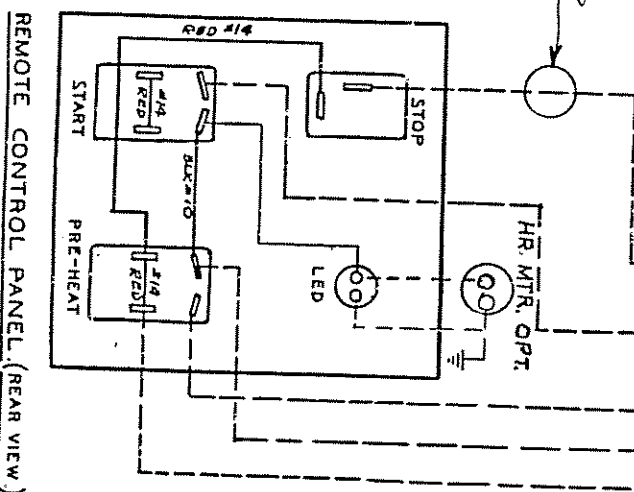


FIREBOY (OPT.)
(SEE DETAIL)

FIREBOY OPTION



W/R #10 W.H./RED #10

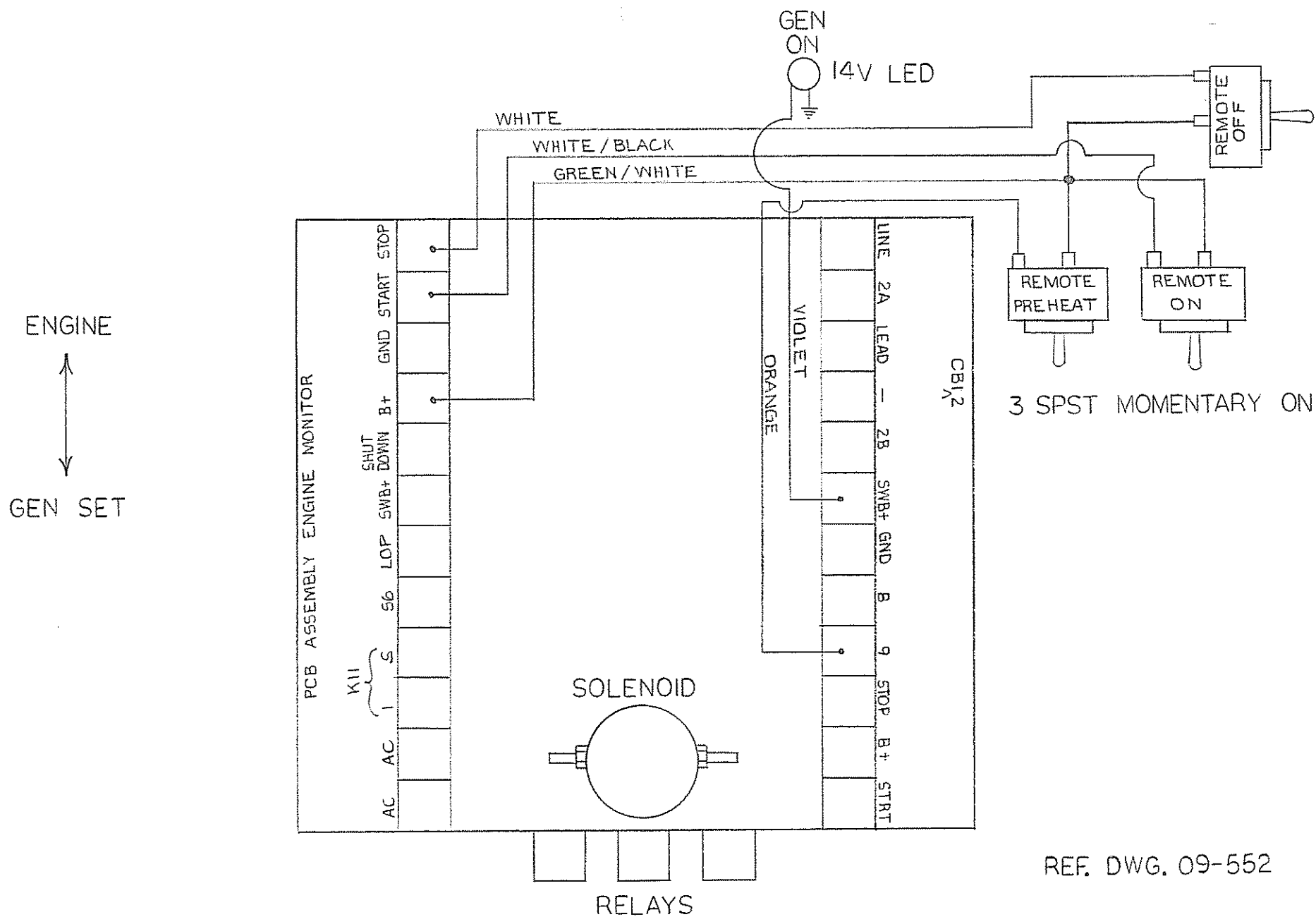


NOTE:

REF. DWG #09-517 FOR
FIREBOY WIRING

REMOTE CONTROL PANEL (REAR VIEW)

DRAWN BY 3-21-85	APPROV BY 3-22-85	TITLE (DIESEL ONLY) WESTERBEKE REMOTE WIRING	MODEL ALL	ECN NO. 2671	REV NO. 3 3-21-85	DWG NO. 09-550
---------------------	----------------------	--	--------------	-----------------	----------------------	-------------------



NOTE: ONAN 4.0 & 8.0 KW AVAILABLE WITH DIESEL ENGINES ONLY.

DRAWN BY
JBN

APPROV BY
RG 2/21/84

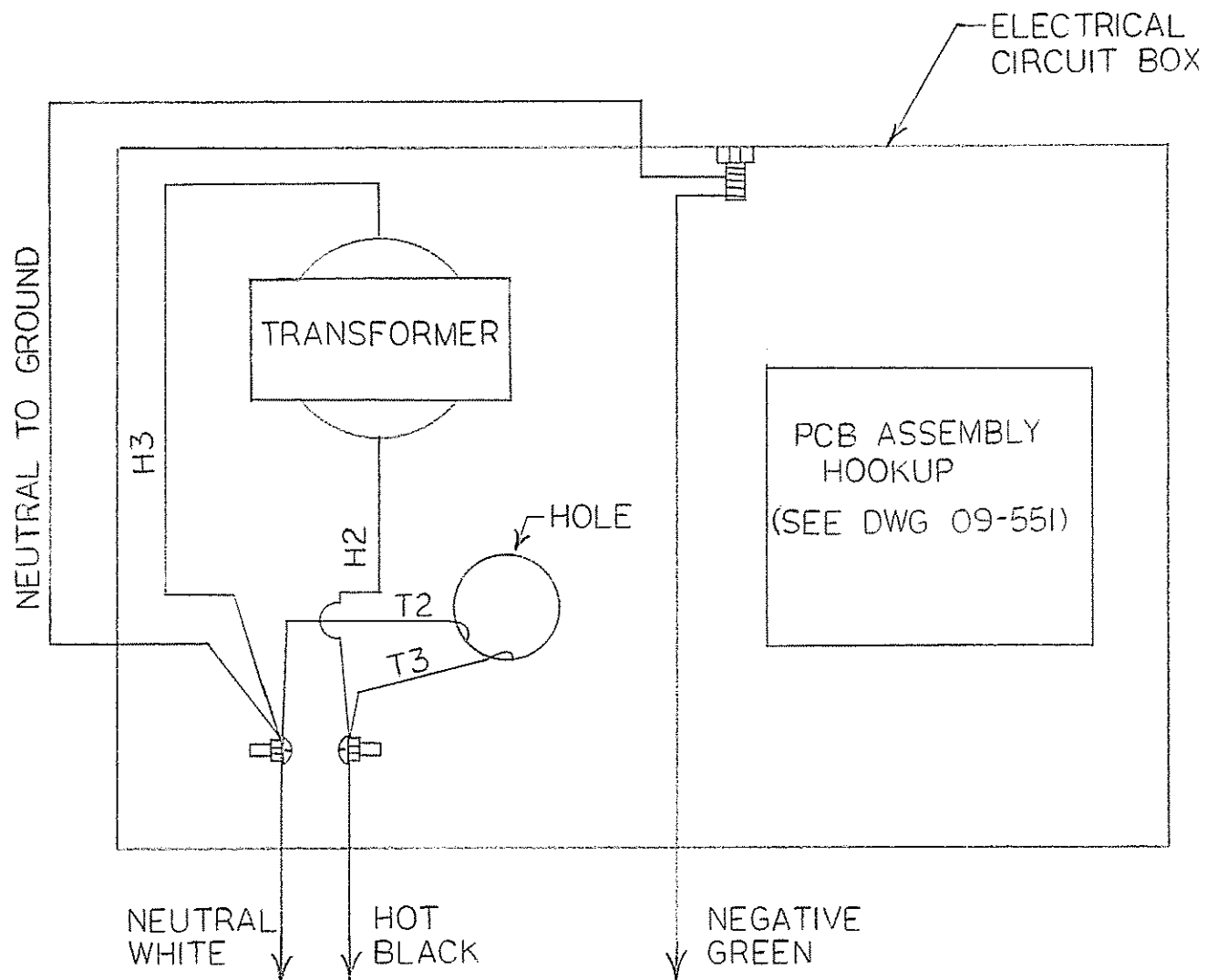
TITLE REMOTE SWITCH WIRING FOR
ONAN MDKD & MDKC 4.0 & 8.0 KW

MODEL
ALL
(EXCEPT SDA)

ECN NO.
2136

REV NO.
1 2/21/84

DWG
9-551



DRAWN BY
JBN

APPROV BY
RG 2/21/84

TITLE 110V FEED WIRE SCHEMATIC
FOR ONAN 4.0 & 8.0 KW GENERATORS

MODEL
ALL
(EXCEPT SDA)

ECN NO.
2136

REV NO.
1 2/21/84

DWG NO.
09-552

NOTE: VOLTAGE AND FREQUENCY MUST BE RE-ADJUSTED
 ACCORDING TO THE ADJUSTMENT SECTION OF THE
 QUICKSILVER INSTALLATION MANUAL.

TERMINAL



220V
HOT



JUMPERED



NEUTRAL

GROUND

CASE GROUND



SEA RAY®
 PRODUCT DEVELOPMENT
 AND ENGINEERING

TITLE 220V 50HZ EUROPEAN POWER MERCURY GENERATOR WIRING

MODEL 300 THRU 415 390

DRAWN BY AGG

REVISION NO.

DATE 01-26-88

CHECKED BY

D. Daniels

ECN NO.

5382

SCALE

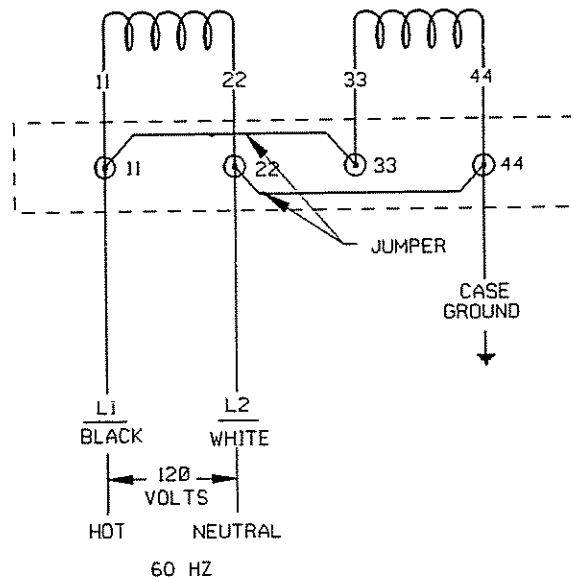
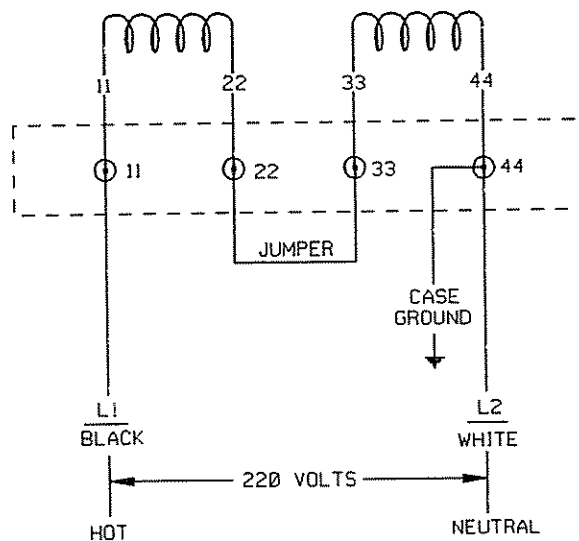
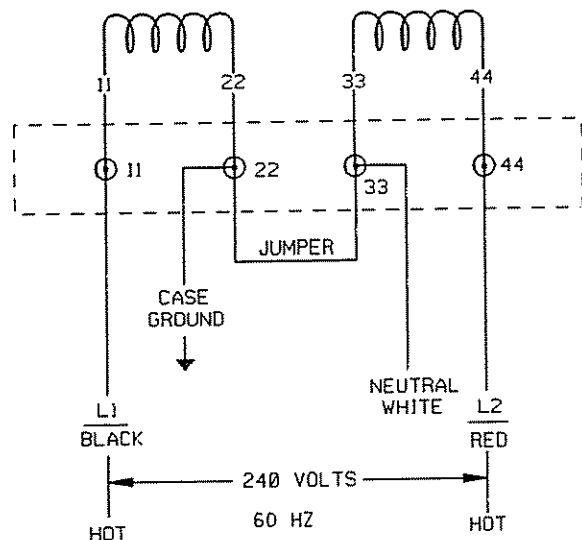
APPROVED BY

DRAWING NO. 09-610-B

THIS DRAWING
IS THE PROPERTY OF
SEA RAY BOATS, INC.

PROPRIETARY RIGHTS
THIS DRAWING IS THE PROPERTY OF SEA RAY BOATS, INC. PRODUCT DEVELOPMENT AND ENGINEERING DEPARTMENT.
FOR DRAWING AND INFORMATION CONTAINED HEREIN MAY NOT BE COPIED OR REPRODUCED
WITHOUT WRITTEN PERMISSION OF SEA RAY BOATS, INC.

C.A.D.D. DEPT.
DRAWING
NO MATERIAL REVISIONS PERMITTED



- NOTE:
- 1) ADJUST ENGINE SPEED TO 1500 RPM
 - 2) ADJUST GOVERNOR CONTROL ROD
 - 3) MAKE OVERSPEED ADJUSTMENT
 - 4) ADJUST VOLTAGE REGULATOR

EUROPEAN
50 HZ

USED ON: ALL MODELS WITH MERC. GEN. OPTION

USED ON:

FILE: I200-47MDIAALL.DGN

DRAWN BY: C. COBB

CHECKED BY: MIM

APPROVED BY:

SCALE: N/A

DATE:

02-27-89

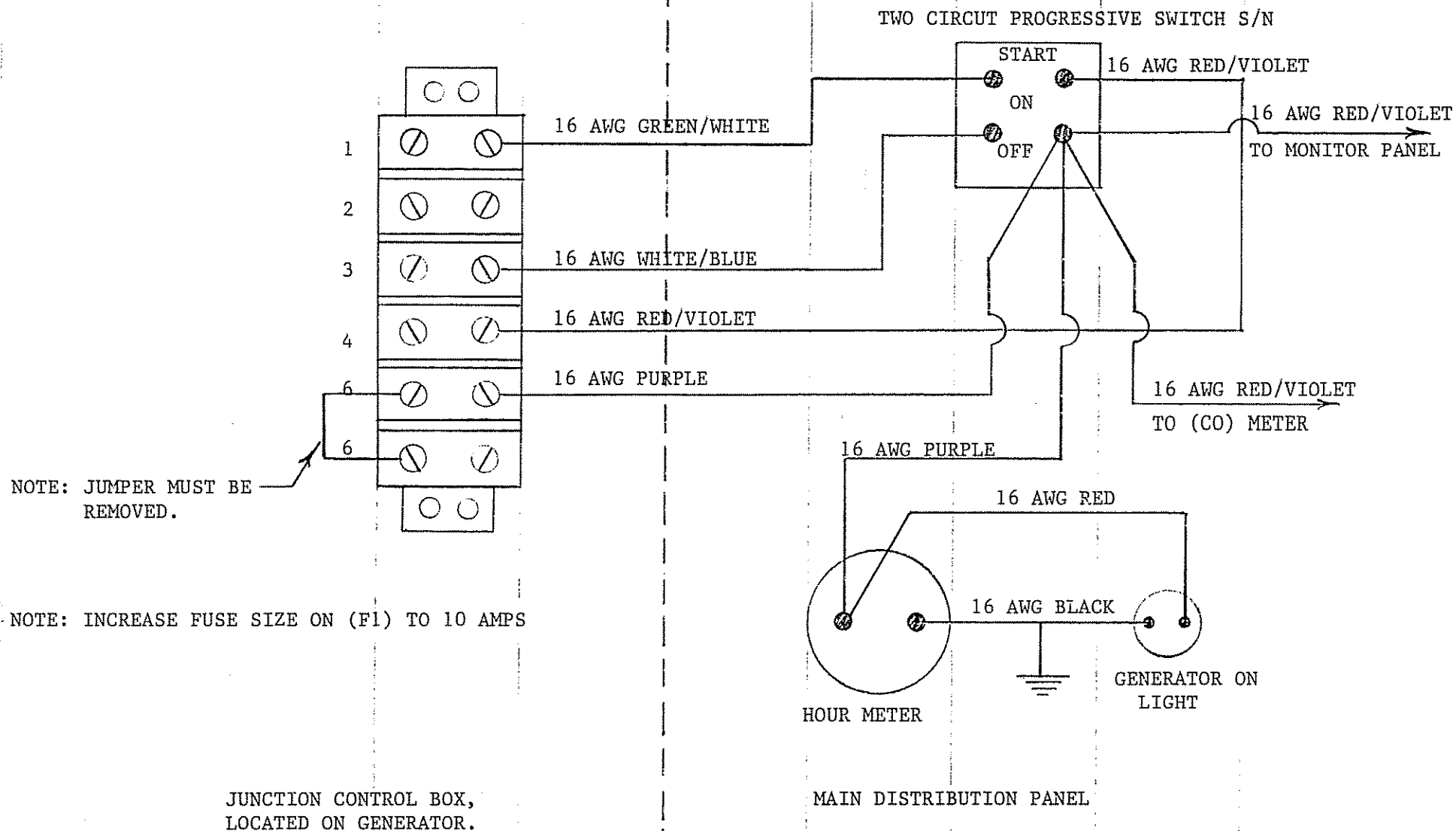
TITLE

MERCURY GENERATOR
HIGH VOLTAGE WIRING

DRAWING NO. 09-621

SHEET _ OF _

DRAWING NO. 09-621



DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
RORY H.		GAS-ONAN GENERATOR REMOTE WIRING	ALL	2899-Y	1	09-653

WIRE COLOR CODES

Engine harness

16 ga. Blue - oil pressure send
16 ga. Blue/brown - alarm send
16 ga. Gray - tach send
16 ga. Brown - temperature send
16 ga. Purple - ignition
16 ga. Yellow/red - start circuit
10 ga. Red - engine hot
10 ga. Black - engine ground

Trim tabs

16 ga. Red - port valve
16 ga. Green - stbd. valve
16 ga. Blue - pump pressure
16 ga. Yellow - pump retract
16 ga. Black - ground

Stereo

Brown - right positive
White - right negative
Yellow - left positive
Green - left negative
Red/violet - power
Black - ground

Converter Indicator

16 ga. Orange - charge ind. pos.
16 ga. Orange/black - charge ind. neg.
16 ga. Black - 110 ac hot
16 ga. White - 110 ac neutral

Spotlight

16 ga. Orange - high beam
16 ga. Gray - low beam
16 ga. Yellow - left
16 ga. Green - down
16 ga. Blue - right
16 ga. Purple - up
16 ga. Black - ground

TDX

10 ga. Red - discharge pump
10 ga. Green - maserator
10 ga. Black - ground
16 ga. White - chem. pump
16 ga. White/blue - level indicator
16 ga. Yellow - level indicator
16 ga. Black - ground

TDX control

16 ga. Red - treat & hold
16 ga. Black - treat & discharge
16 ga. Orange/black - power pos.
16 ga. Brown/white - power neg.
16 ga. White - power
16 ga. Blue - do not flush
16 ga. Green - 3/4
16 ga. Orange - full

Holding tank

16 ga. Green - full, do not flush
16 ga. White - 3/4
16 ga. Red - power

Westerbeke Genset

10 ga. Red - power
10 ga. Red/violet - start
10 ga. Green - preheat
16 ga. Orange - preheat
16 ga. White - stop

Onan Genset

16 ga. Green/white - switch ground
16 ga. White/blue - start circuit
16 ga. White - stop circuit
16 ga. Purple - on ind., hourmeter

Powerwinch

16 ga. Purple - fused hot
16 ga. Green - ground
16 ga. Brown - solenoid feed
16 ga. White - down
16 ga. Blue - up

DRAWN BY D. ALMS	APPROV BY	TITLE WIRE COLOR CODES	MODEL ALL	ECN NO.	REV NO. 1	DWG NO. 09-804
			7/9/84			

	LINE 1		GEN.	
	○	○	○	○
		○		○
	○	○	○	○
390EC STD. 8KW,30-30 AMP	30	30		25
390EC OPT. EURO	15			15
440CV STD. 8KW,50AMP 220V	50			25
" OPT. EURO	25			15
" OPT. 8KW,30-30 AMP	30	30		25
" OPT. 8KW,50-30 AMP	50	50		25
" OPT. 11KW,STD.50AMP 220V	50			35
" OPT. 11KW,30-30 AMP	30	30		35
" OPT. 11KW,50-30 AMP	50	50		35
460EC STD. 11KW,50 AMP 220V	50			35
" OPT. EURO	25			20
" OPT. 11KW,30-30 AMP	30	30		35
" OPT. 11KW,50-30 AMP	50	50		35

REAR VIEW OF BREAKERS

	LINE 2		GEN.	
	○	○	○	○
		○		○
	○	○	○	○
390EC STD. 8KW,30-30 AMP	30	30		25
390EC OPT. EURO	15			15
440CV STD. 8KW,50 AMP 220V	50			25
" OPT. EURO	25			15
" OPT. 8KW,30-30 AMP	30	30		25
" OPT. 8KW,50-30 AMP	30	30		25
" OPT.11KW,STD.50 AMP 220V	50			35
" OPT. 11KW,30-30 AMP	30	30		35
" OPT. 11KW,50-30 AMP	30	30		35
460EC STD. 11KW,50 AMP 220V	50			35
" OPT. EURO	25			20
" OPT. 11KW,30-30 AMP	30	30		35
" OPT. 11KW,50-30 AMP	30	30		35



SEA RAY®

PRODUCT DEVELOPMENT
AND ENGINEERING

TITLE MAIN BREAKER SPECIFICATIONS

MODEL 390EC,420DA,440CV,460EC DRAWN BY G. K.

DATE 10-27-88

CHECKED BY

SCALE

APPROVED BY

REVISION NO. D 10-27-88

ECN NO. 5843

DRAWING NO. 09-996

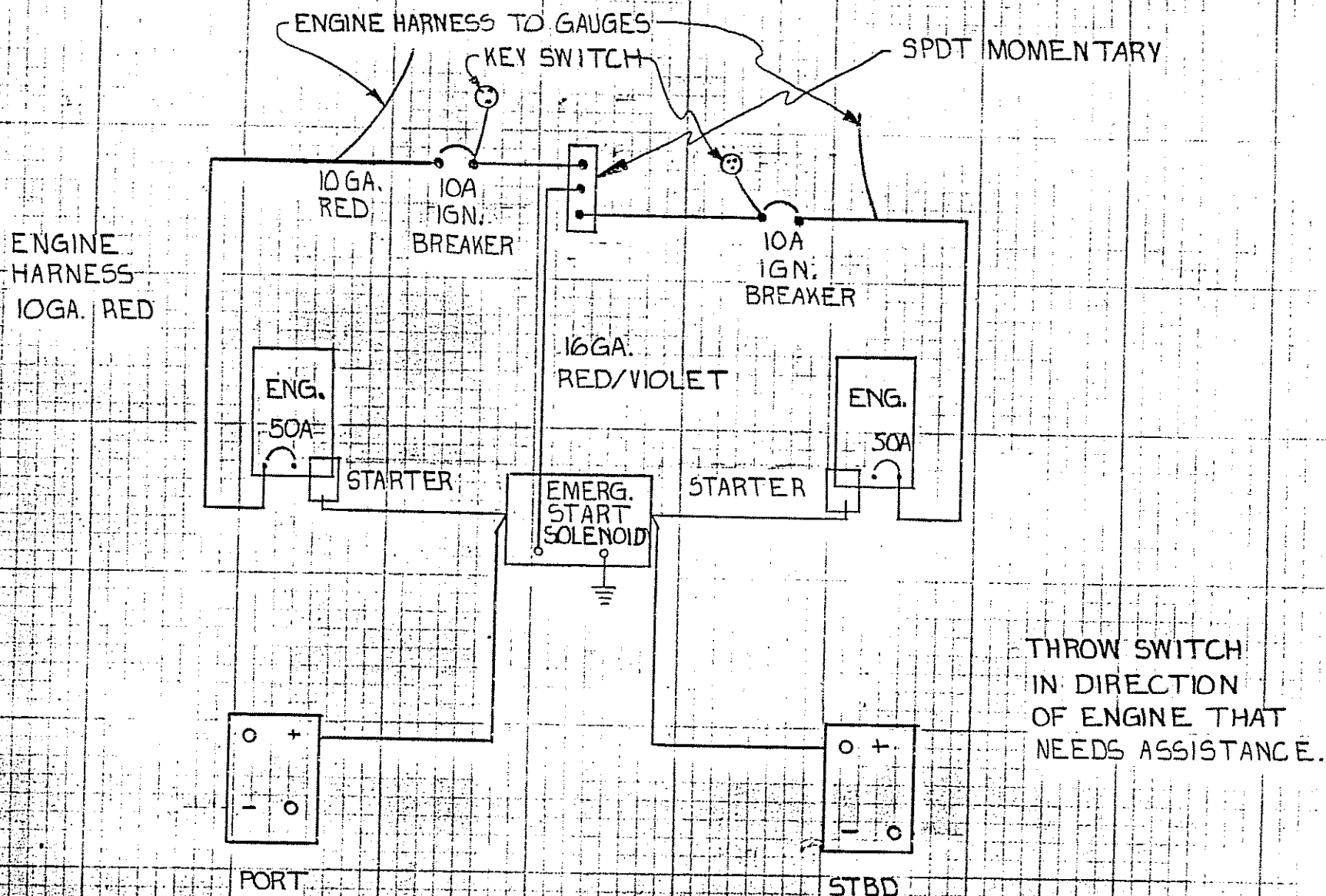
" BILGE PUMPS AND FLOAT SWITCH REQUIREMENTS "

MODEL	FWD BILGE SUMP	AFT BILGE SUMP	HIGH WATER PUMP
270 DA	N/A	RULE-1500	RULE-1500
300 WE	RULE-1500	RULE-1500	RULE-1500
300 SDA	RULE-1500	RULE-1500	RULE-1500
300 SDB	RULE-1500	RULE-1500	RULE-1500

NOTE: RULE MODEL 37M FLOAT SWITCH TO BE USED FOR ALL BILGE AND SUMP PUMPS.

ADJUST THRU-HULL SIZES AS REQUIRED.

RULE 800 PUMP AND 37M FLOAT SWITCH TO BE USED FOR ALL SHOWER SUMPS
AND AFT CABIN SUMPS.



DRAWN BY

JBN

APPROV. BY

M.W.K. 11/17/82

TITLE

EMERGENCY START SYSTEM

MODEL

ALL BOATS

ECN. NO.

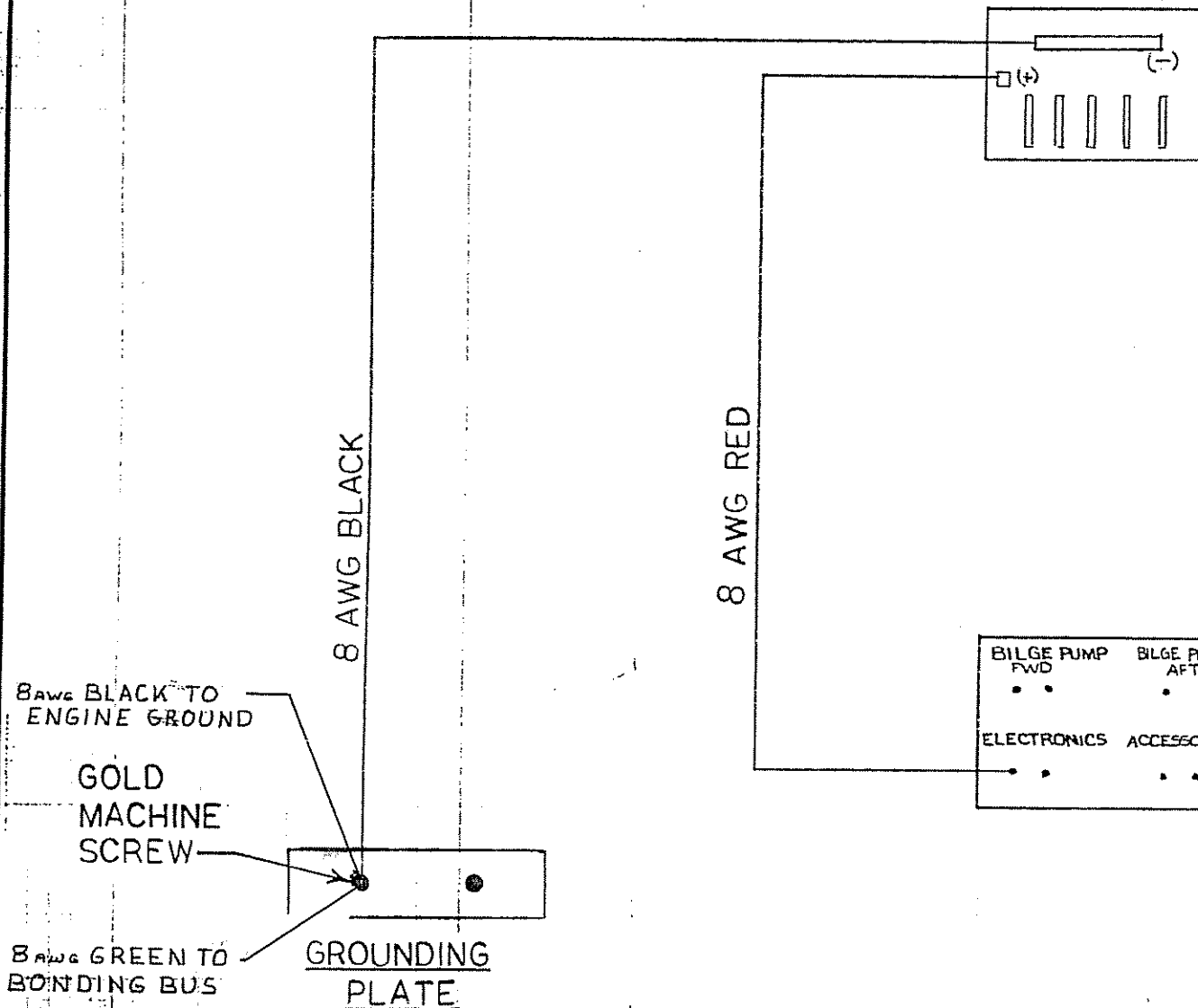
2399

REV. NO.

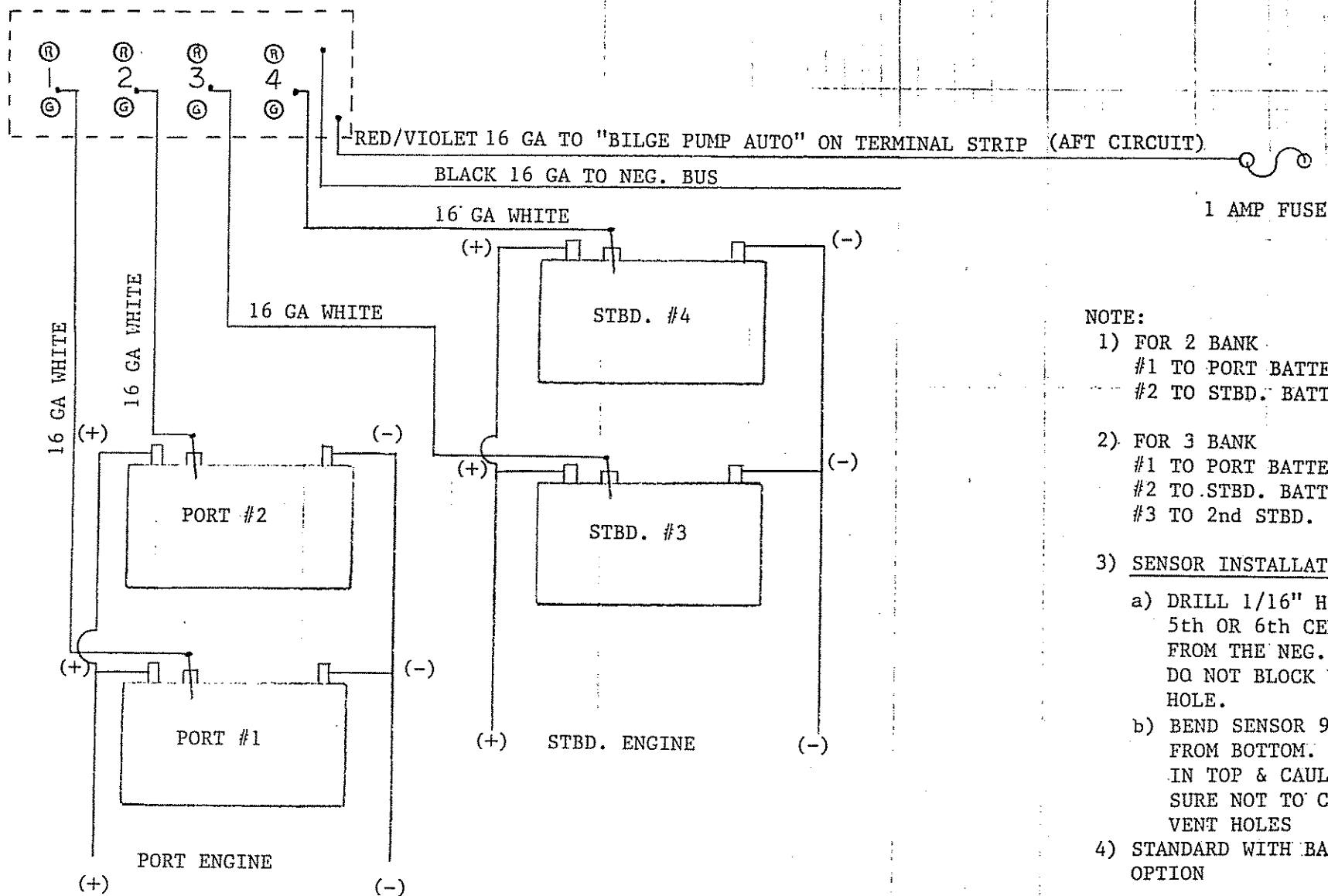
2 14 AUG 84

DWG. NO.

0 302



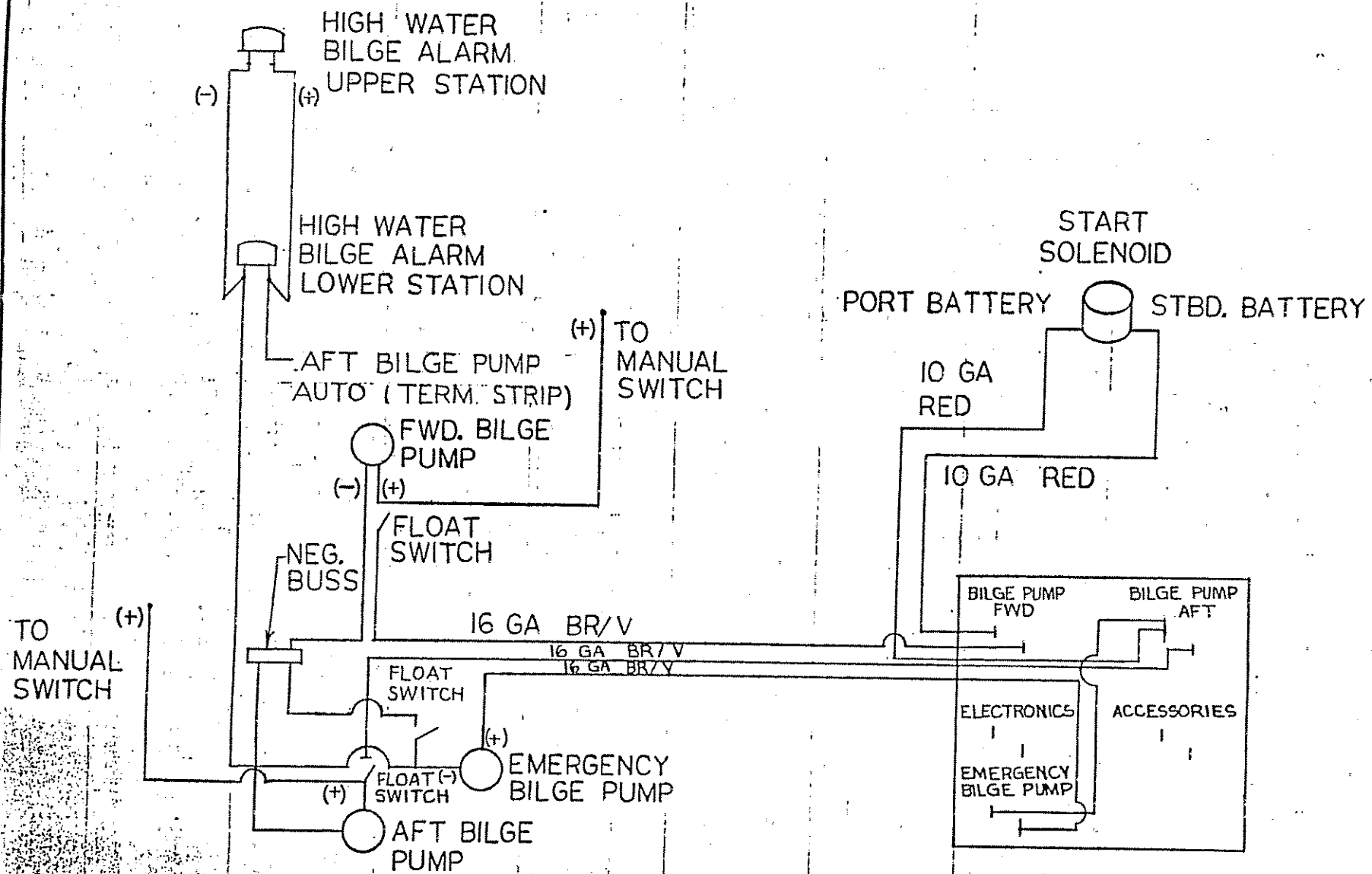
DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
JBN	RG 5/29/84	WIRING FOR GROUNDING PLATE OPT V	ALL	2399	2 14 AUG 84	C - 303



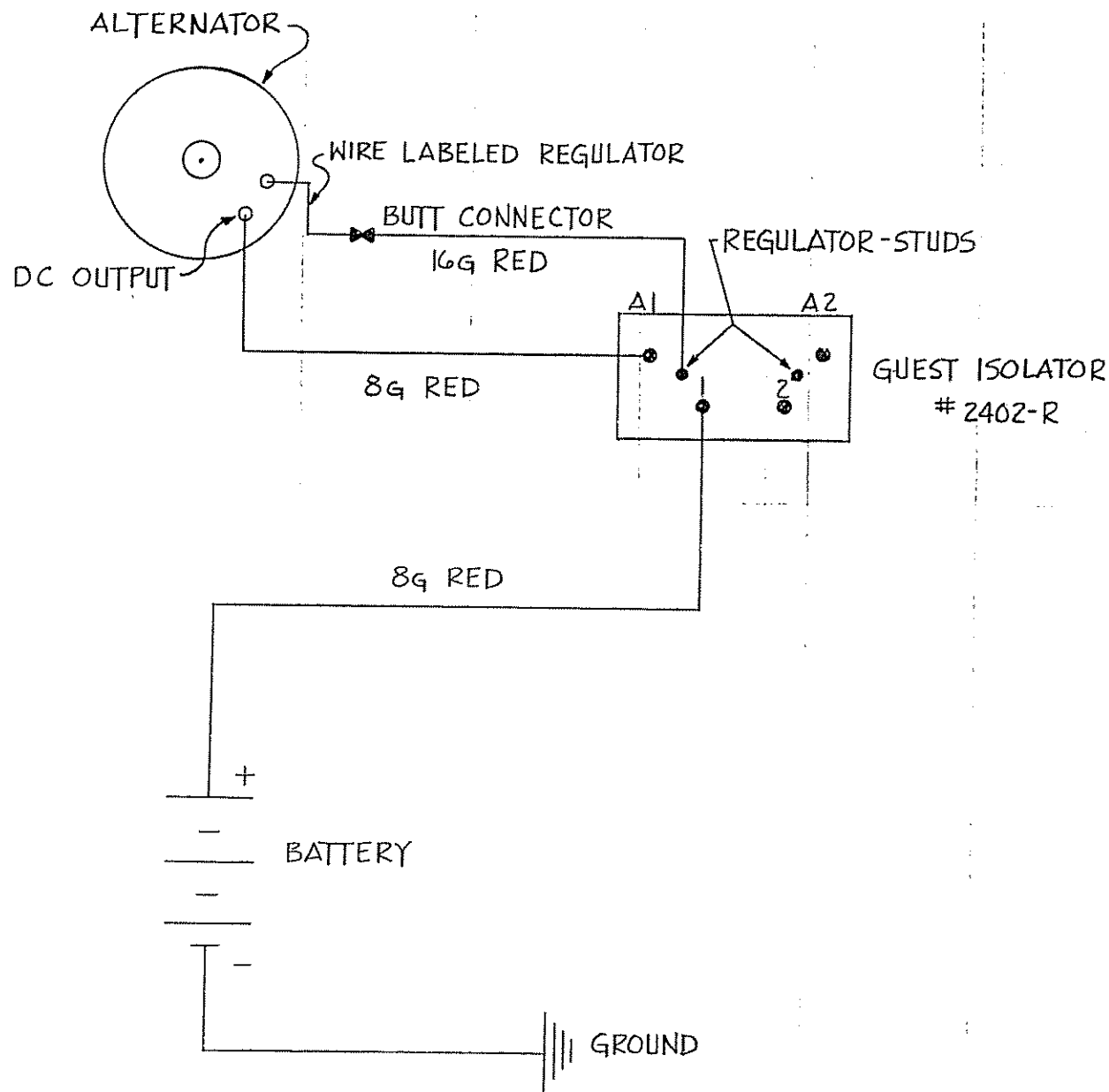
NOTE:

- 1) FOR 2 BANK
 - #1 TO PORT BATTERY
 - #2 TO STBD. BATTERY
- 2) FOR 3 BANK
 - #1 TO PORT BATTERY
 - #2 TO STBD. BATTERY
 - #3 TO 2nd STBD. BATTERY
- 3) SENSOR INSTALLATION
 - a) DRILL 1/16" HOLE IN 5th OR 6th CELL CAP FROM THE NEG. POST. DO NOT BLOCK VENT HOLE.
 - b) BEND SENSOR 90°, 2 1/8" FROM BOTTOM. INSERT IN TOP & CAULK. MAKE SURE NOT TO CAULK VENT HOLES
- 4) STANDARD WITH BATTERY OPTION

DRAWN BY JBN	APPROV BY RG 6/26/84	TITLE BATTERY WATER LEVEL MONITOR WIRING	MODEL ALL	ECN NO. 2399	REV NO. 3 14 AUG 84	DWG NO. 09-304
-----------------	-------------------------	---	--------------	-----------------	------------------------	-------------------



DRAWN BY BRADY, B.	APPROV BY RG 6/26/84	TITLE BILGE PUMP WIRING	MODEL ALL	ECN. NO. 2399	REV NO. 5 14 AUG 84	DWG NO. 09-305
-----------------------	-------------------------	----------------------------	--------------	------------------	------------------------	-------------------



DRAWN BY

T.D.L. 11/17/84

APPROV BY

[Signature] 1-17-84

TITLE CROSSOVER CHARGE (STD.)

S.S. CRUS. & PERKINS ENGINES

MODEL

ALL

ECN NO.

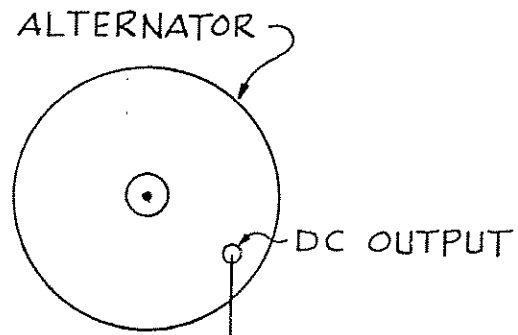
2399

REV NO.

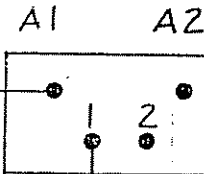
1 14 AUG 84

DWG NO.

306

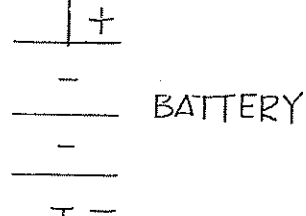


8g RED



GUEST ISOLATOR
2402

8g RED



GROUND

DRAWN BY
T.D.L. 1/17/84

APPROV BY
[Signature] 1-17-84

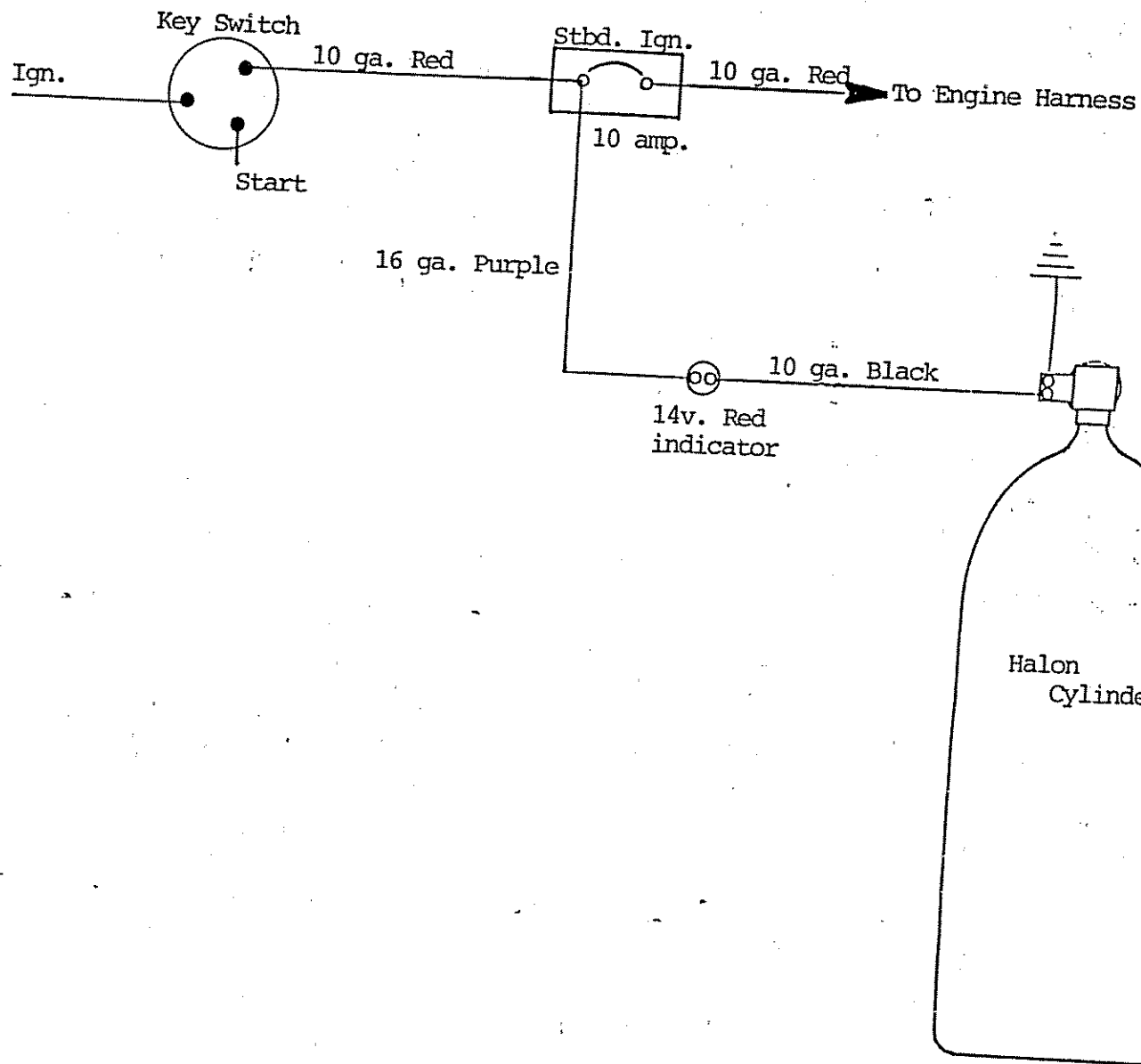
TITLE CROSSOVER CHARGE (STD.)
MERC. & CAT ENGINES

MODEL
ALL

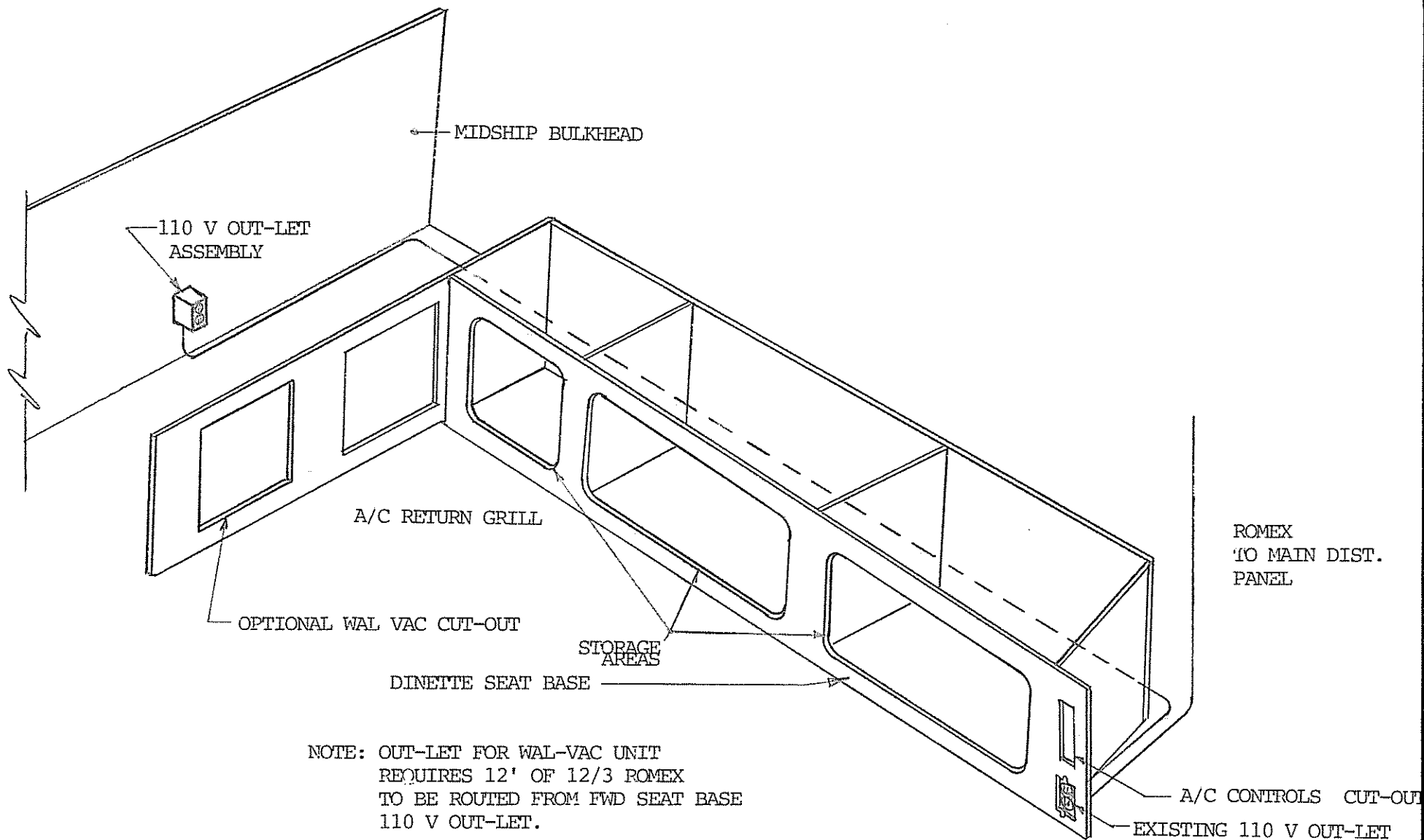
ECN NO.
2399

REV NO.
2 14 AUG
84

DWG NO.
C-307



DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO	DWG NO.
D. Alms	RG 8/23/84	Fireboy Wiring (Gas)	All	2399	3 14 AUG 84	09-309

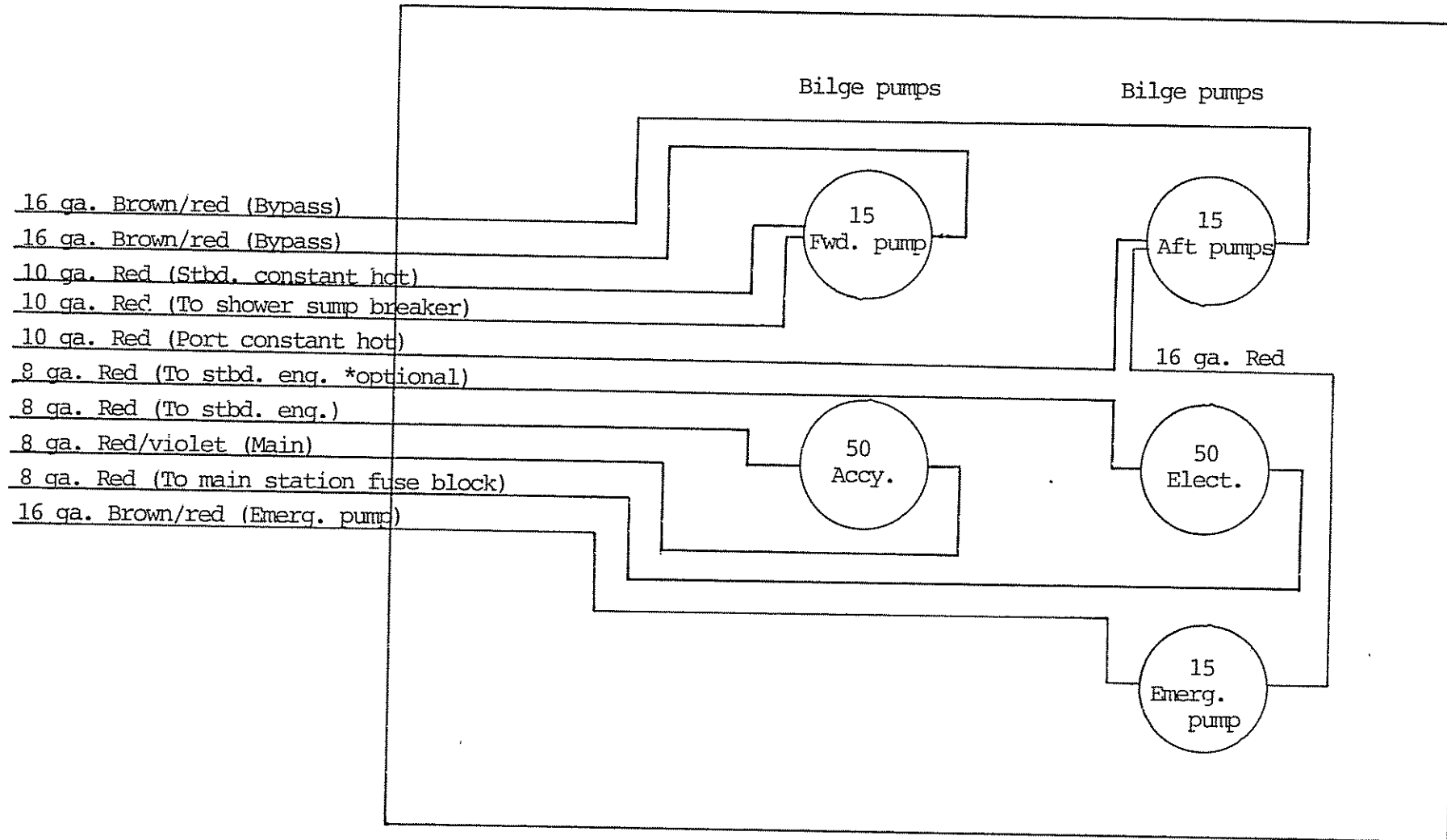


NOTE: OUT-LET FOR WAL-VAC UNIT
REQUIRES 12' OF 12/3 ROMEX
TO BE ROUTED FROM FWD SEAT BASE
110 V OUT-LET.

NOTE: ALL ELECTRICAL WIRES TO BE SECURED
@ 12" TO 14" APART. WITH TY-WRAPS.

DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
J.R.H.	RG 4/30/85	WAL-VAC OPTIONAL 110 V OUT-LET LOCATION	390-E.C.	2700	1	09-310

(BACK VIEW)



DRAWN BY

D. Alms

APPROV BY

RG 8/23/84

TITLE

Port Accy. Breaker Box

MODEL

390EC,SF

ECN NO.

2399

REV NO.

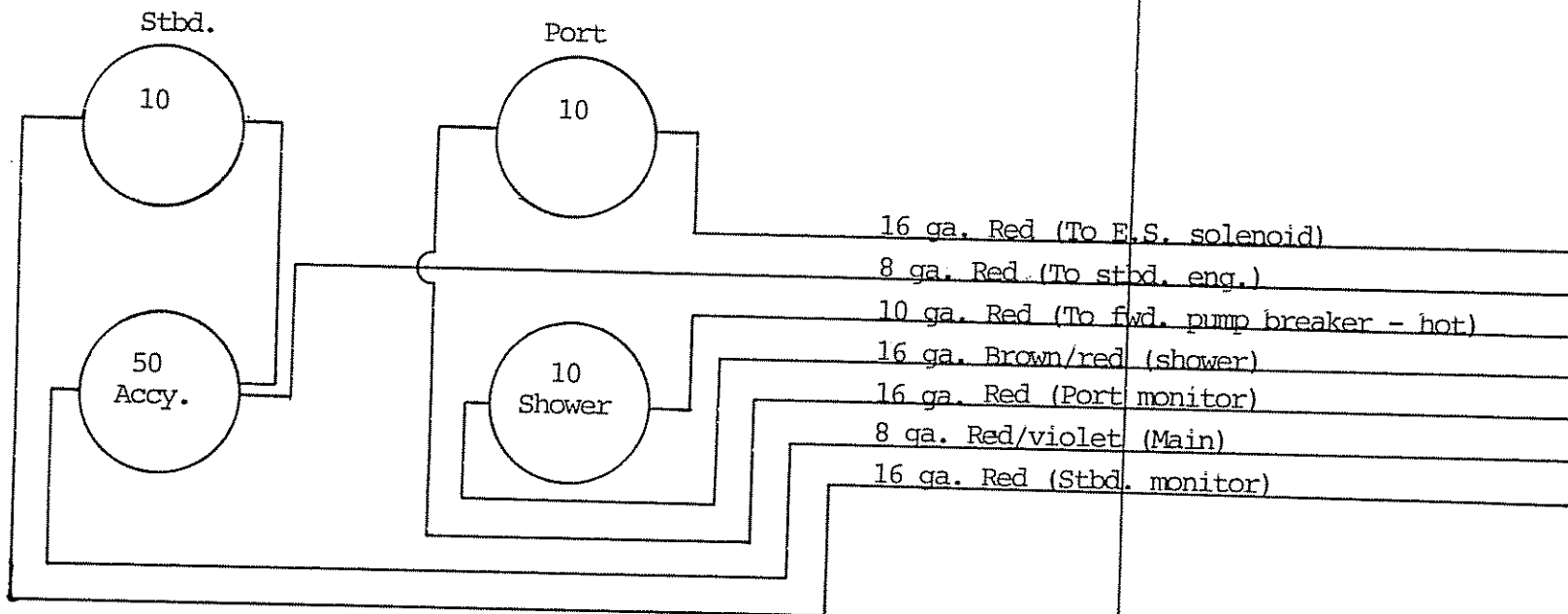
2 14 AUG 84

DWG NO.

09-312

(BACK VIEW)

Battery Condition



DRAWN BY

D. Alms

APPROV BY

RG 8/23/84

TITLE

Stbd. Accy. Breaker Box

MODEL

390EC,SF

ECN NO.

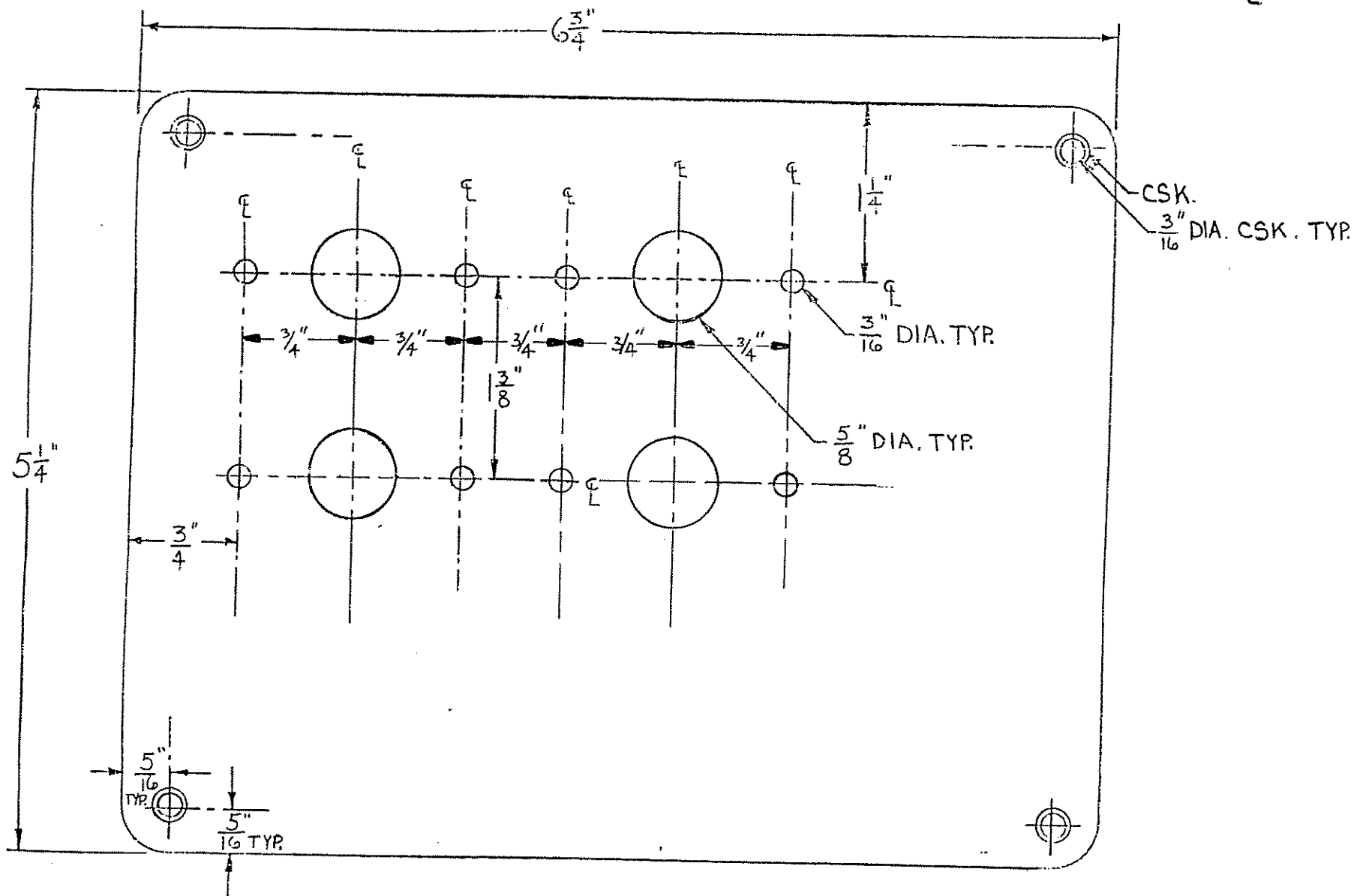
2399

REV NO.

2 14 AUG 84

DWG NO.

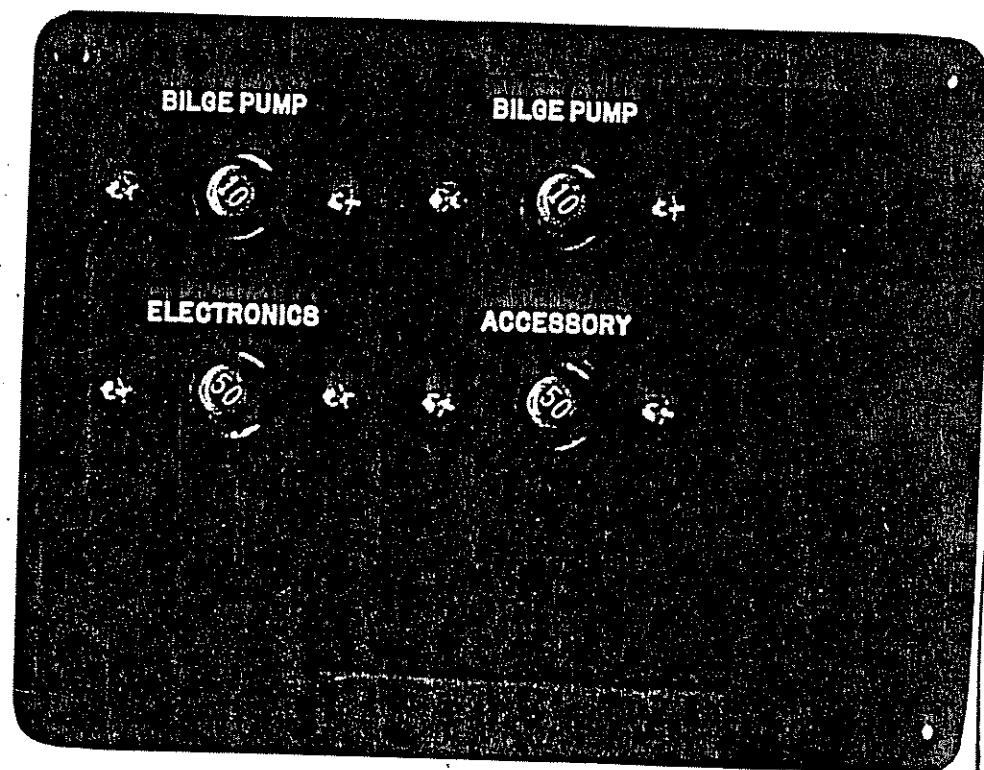
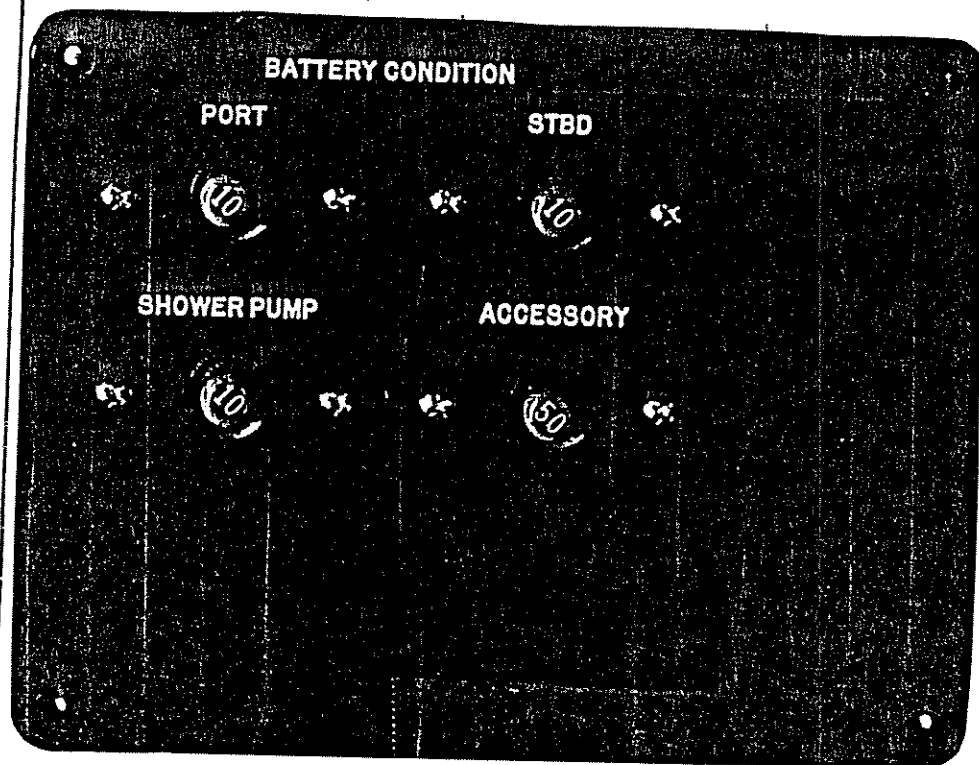
09-313



REF. DWG #09-331 FOR LABELING & USAGE.

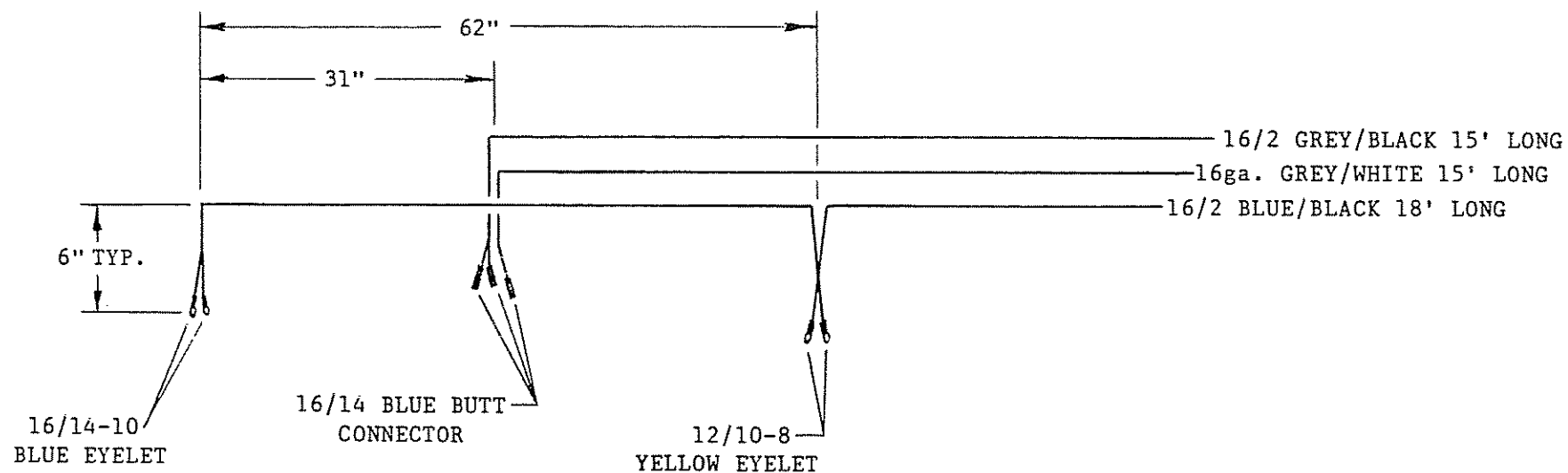
③ USE BLACK VINYL ON WHITE FOR CONSTRUCTION.

DRAWN BY	APPROV. BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
K.L.D 12/4/81	RG 8/22/83	BREAKER BOX FACEPLATE DIMENSIONS	ALL 390's, 360 AC, 340 SDD	1968	2 8/19/83	09-330



- PLUG ALL UNUSED OPTIONS.
- REF. #09-330 FOR DIMS.

DRAWN BY <i>[Signature]</i> 8/11/83	APPROV BY <i>RG</i> 8/22/83	TITLE BREAKER BOX FACEPLATES	MODEL ALL 370's 360 AC, 340 50B	ECN NO. 1968	REV NO. 2 8/19/83	DWG NO. 09-331
--	--------------------------------	------------------------------------	---------------------------------------	-----------------	----------------------	-------------------

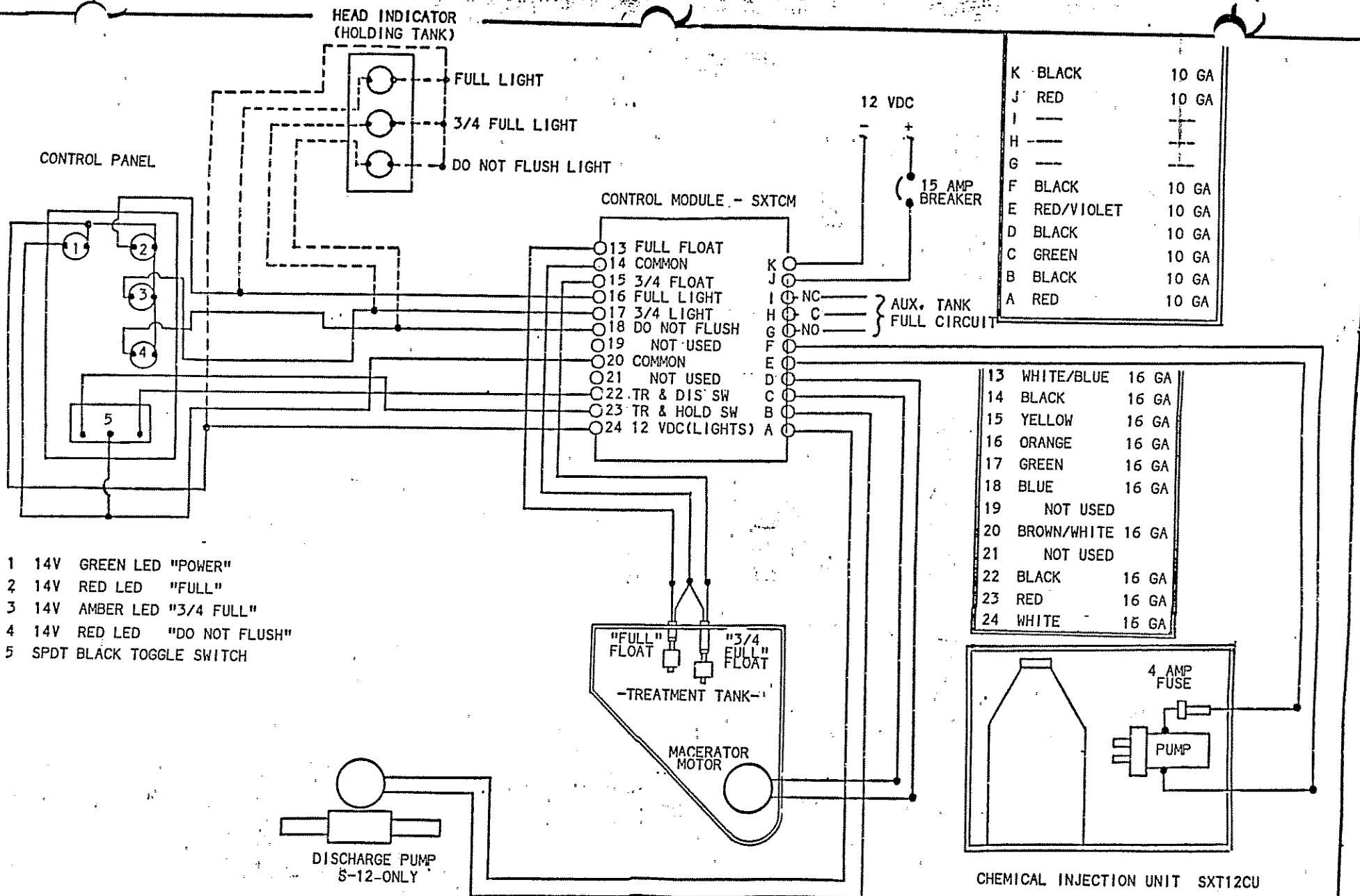


NOTE: TAPE WIRES AS SHOWN TO FORM HARNESS



SEA RAY®
PRODUCT DEVELOPMENT
AND ENGINEERING

TITLE 390EC ARCH WIRING HARNESS		
MODEL 390EC	DRAWN BY B. WISHNESKI	REVISION NO.
DATE 9-26-88	CHECKED BY <i>g. K.</i>	ECN NO. 5922
SCALE	APPROVED BY <i>QV</i>	DRAWING NO. 09-365



Sea Ray

MODEL ALL 340-410

TITLE SAN-X ONE WIRING

MATERIAL

LOCATION MERRITT ISLAND

DATE 11/07/86

DRAWN BY A. MOLLEUR

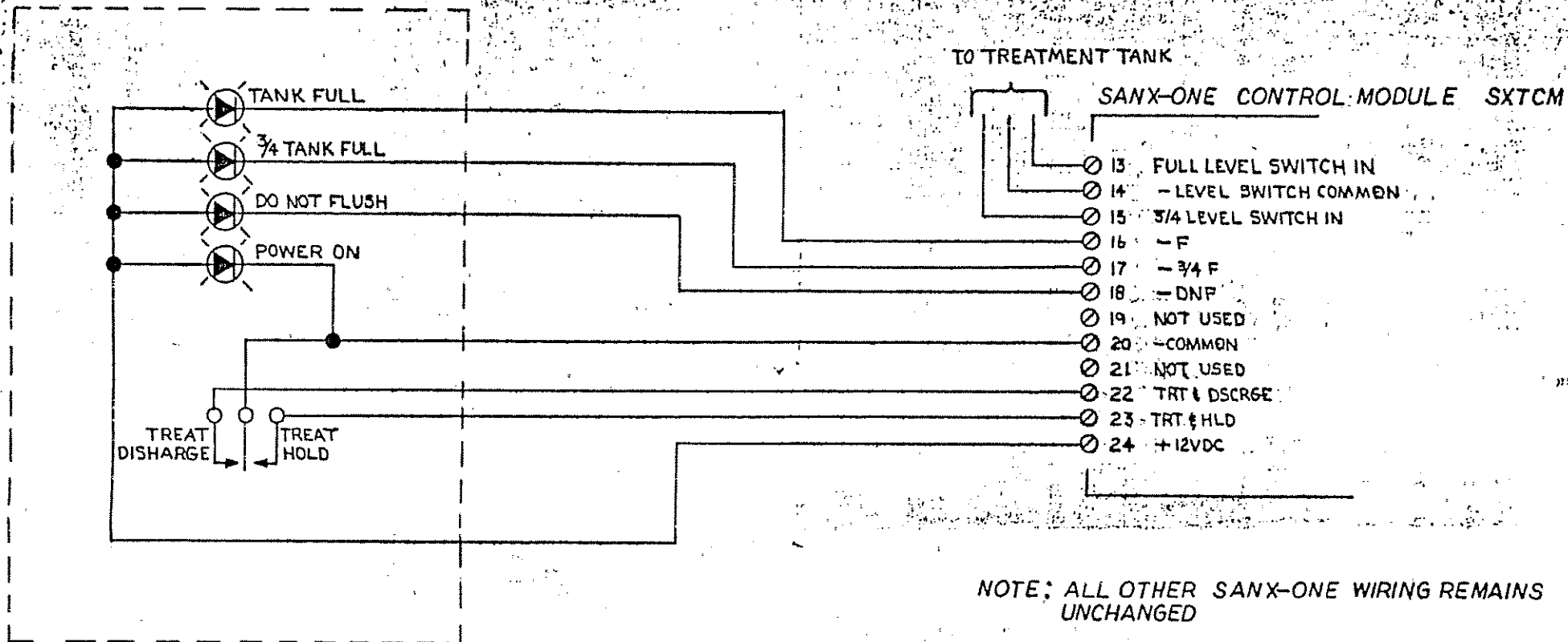
APPROVED BY

DRAWING NO 09-406

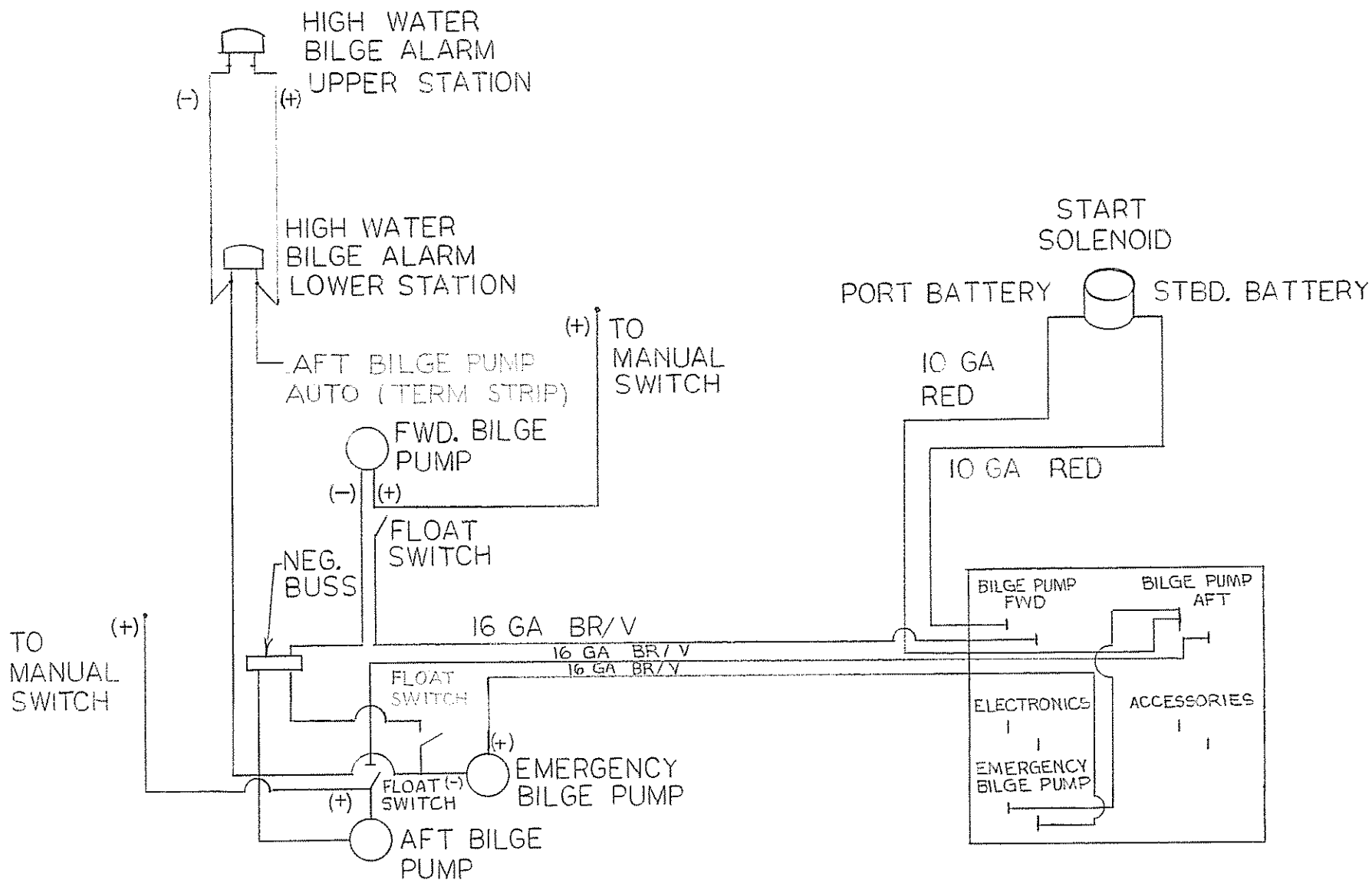
REVISION NO 4 (DTH)

28/1

SEA RAY CONTROL PANEL



					TOLERANCE: ±005 IN. AND ±1° UNLESS OTHERWISE SPECIFIED		Note: This drawing contains information prop Sealair Technology, Inc. Any unauthorized disch or reproduction is expressly prohibited except a Technology, Inc. may otherwise agree in writing.  Fourth Street, Bldg Prairie, OH 44
					DATE 11-7-86	APPR BY ✓	
					DRN BY JS	SCALE ✓	
					CHK'D BY ✓	MATL ✓	
NO.	DATE	CHANGES	C.O. NO.	BY	TITLE SEA RAY CONTROL PANEL—SANX ONE INTERFACE		DWG. NO. ECN #3681 NOV 7 1986



DRAWN BY
BRADY, P

APPROV BY
RG 6/26/84

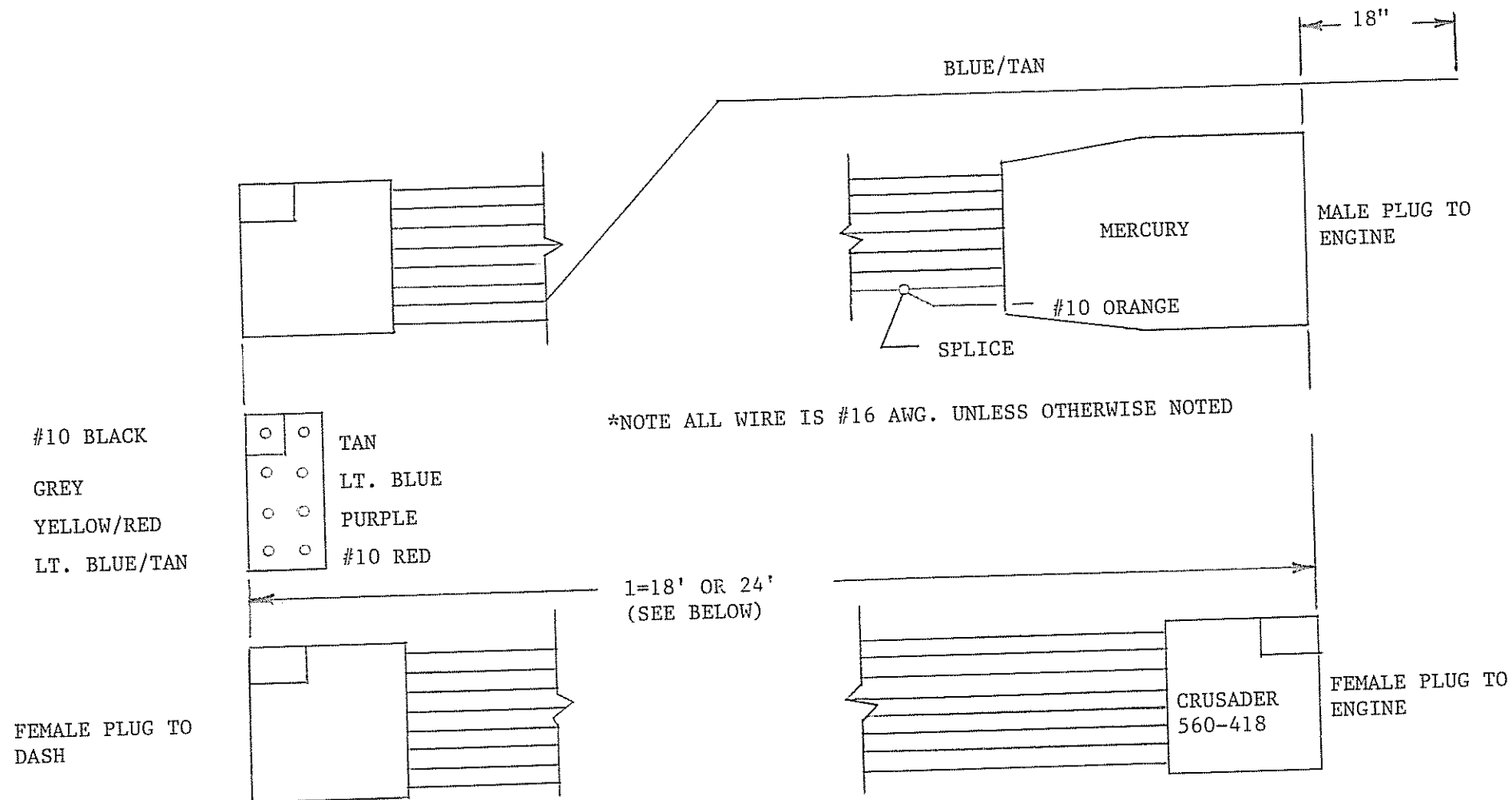
TITLE
BILGE PUMP WIRING

MODEL
ALL

ECN NO.
2265

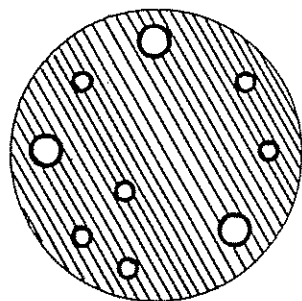
REV NO.
4 6/22/84

DWG NO.
09-431

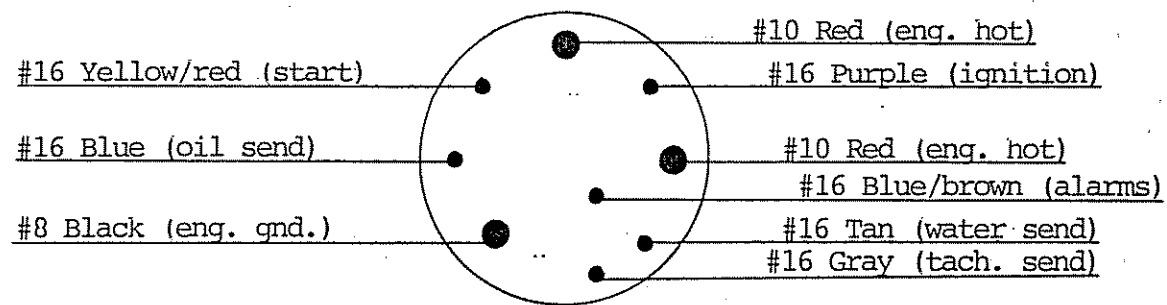


DRAWN BY BRADY, BRIAN D.	APPROV BY RG 8/23/84	TITLE ENGINE HARNESS FOR MERCURY & CRUSADER	MODEL ALL	ECN NO. 2399	REV NO. 2 14 AUG 84	DWG NO. 09-448
-----------------------------	-------------------------	--	--------------	-----------------	---------------------------	-------------------

Mercury Harness Plug



Mercury Engine Plug

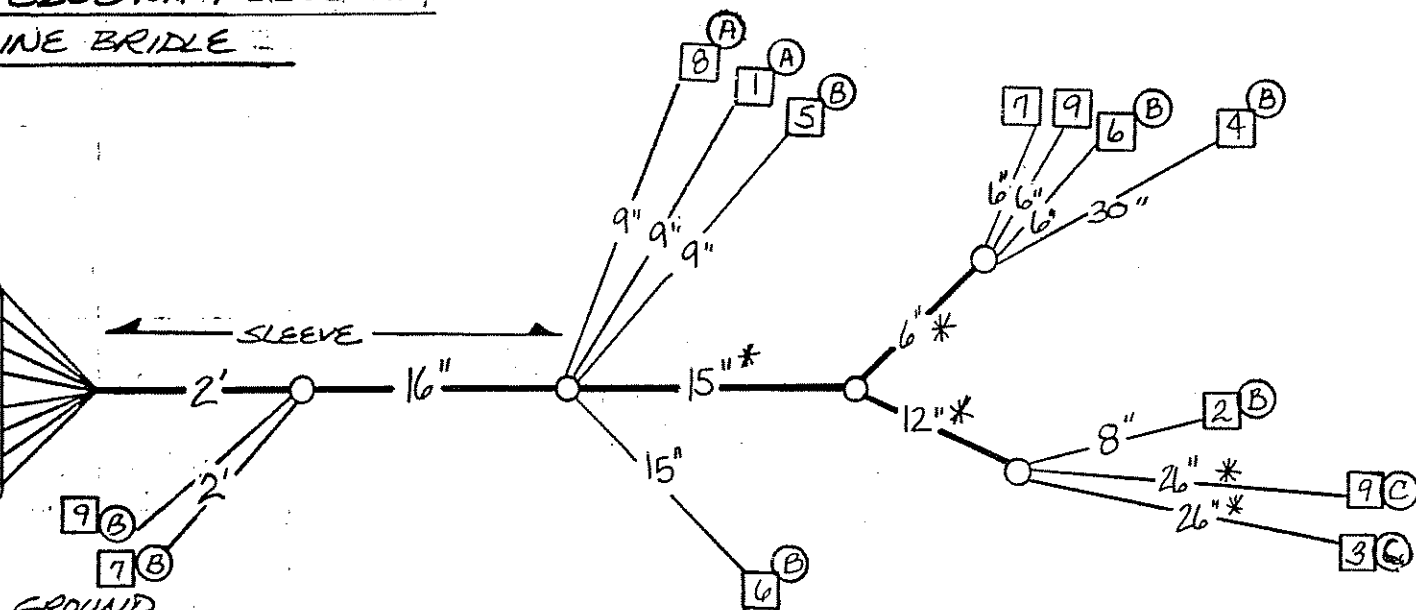
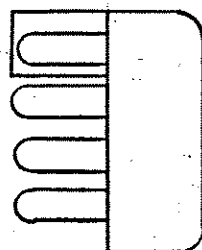
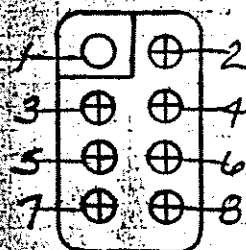


DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO
D. Alms	RG 8/23/84	Mercury Harness Plug Wiring Identification	All	2399	2 14 AUG 84	09-449

360 EC. &

360 SDSF CAT. 3208-NA & 3208-TA &

3208-T ENGINE BRIDLE



- | | | |
|---|--------|----------------|
| 1 | 10 GA. | BLACK |
| 2 | 16 GA. | BROWN |
| 3 | 16 GA. | GRAY |
| 4 | 16 GA. | LT. BLUE |
| 5 | 16 GA. | YELLOW / RED |
| 6 | 16 GA. | PURPLE |
| 7 | 16 GA. | LT. BLUE / TAN |
| 8 | 10 GA. | RED |
| 9 | 16 GA. | BLACK* |

GROUND

WATER TEMPERATURE

TACHOMETER

OIL PRESSURE

STARTER

IGNITION

ALARM

HOT

GROUND *(TIED INTO 10 GA. BLACK)

NOTE:

1. 2 PER BOAT.

2. BIA & C.G. STANDARDS COMPLIANCE REQ'D.

(* SPOT TAPE THESE AREAS)

(A) *10X12 DEVELET

(B) *10X16 DEVELET

(C) MALE INSULATED SPADE

DRAWN BY
MSM

APPROV BY
RG 8/23/87

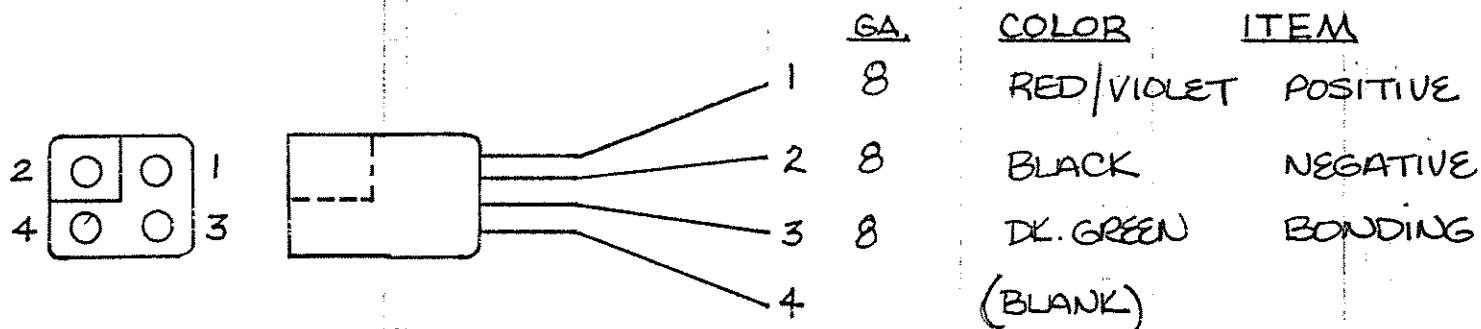
TITLE
CATERPILLAR 3208-NA & 3208
ENGINE HARNESS

MODEL
390 SF,
EC

ECN NO.
2399

REV NO.
2 14 AUG
84

DWG NO.
(30



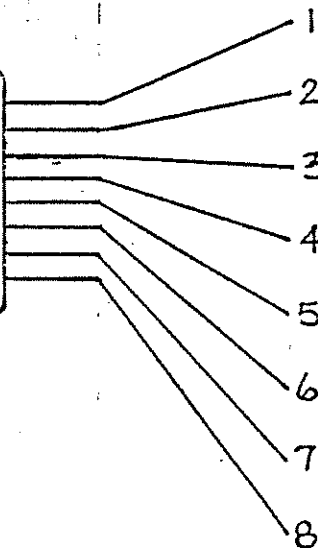
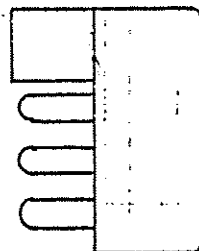
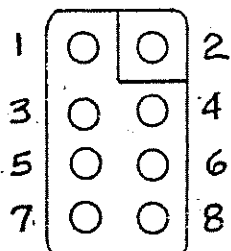
① FEMALE PLUG - 1 end.

① 28 FT. PIGTAIL

① SPOT TAPE WIRES

561-367

DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
KEK 3/18/81	11/11/81	MAIN HARNESS - STN./STN.	360SDSF		1	09-451



GA.

COLOR

ITEM

1 16

GRAY/WHITE

MASTLIGHT

2 16

GRAY

ANCHOR LIGHT

3 16

GRAY/RED

RUNNING LIGHTS

4 10

RED/VIOLET

HORN POSITIVE

5 16

ORANGE/GRAY

HORN SEND

6 16

PINK

FUEL - FWD

7 16

PINK

FUEL - AFT

8

(BLANK)

① 5 FT. PIGTAIL

② MALE PLUG - 1 end

③ SPOT TAPE WIRES

561-360

DRAWN BY

KEL 3/18/81

APPROV BY

MVK

TITLE

PORT SWITCH PANEL - DASH

MODEL

ALL

ECN NO.

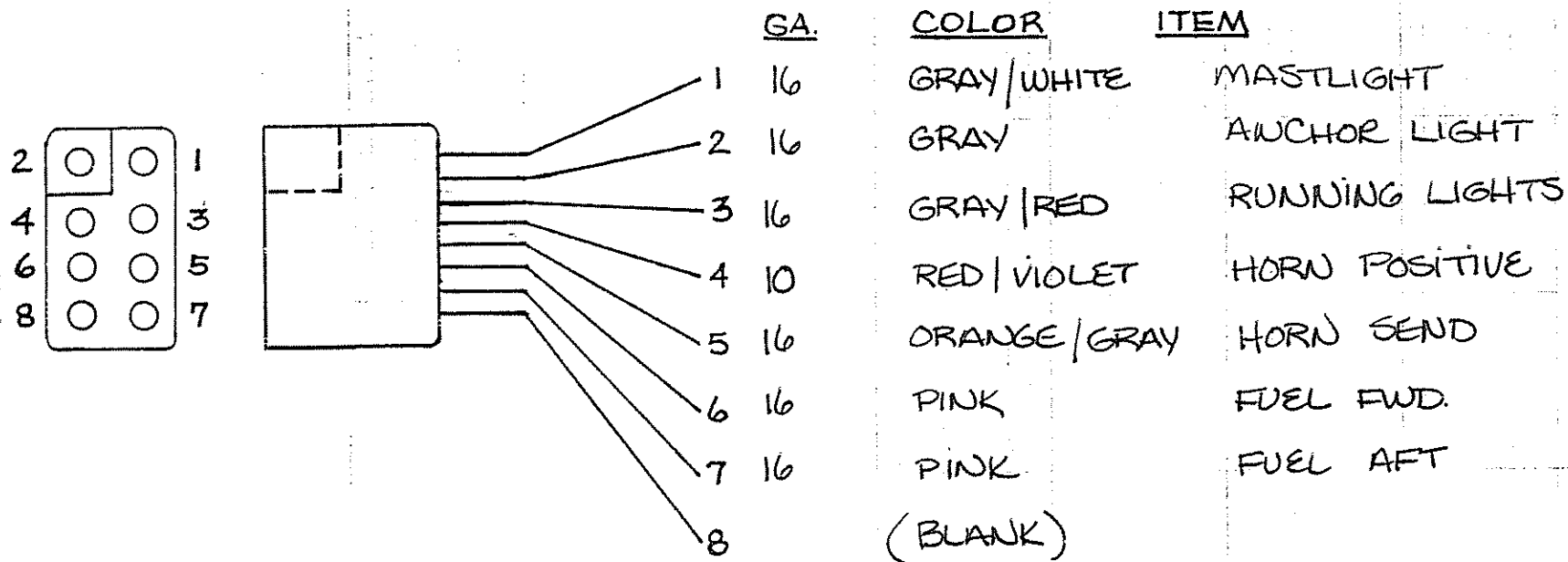
2399

REV. NO.

3 14 AUG 84

DWG NO.

09-452



- ① 28 FT. HARNESS
- ① FEMALE PLUG - 1 end
- ① SPOT TAPE WIRES.

561 368

DRAWN BY
KEK 3/18/81

APPROV BY
[Signature]

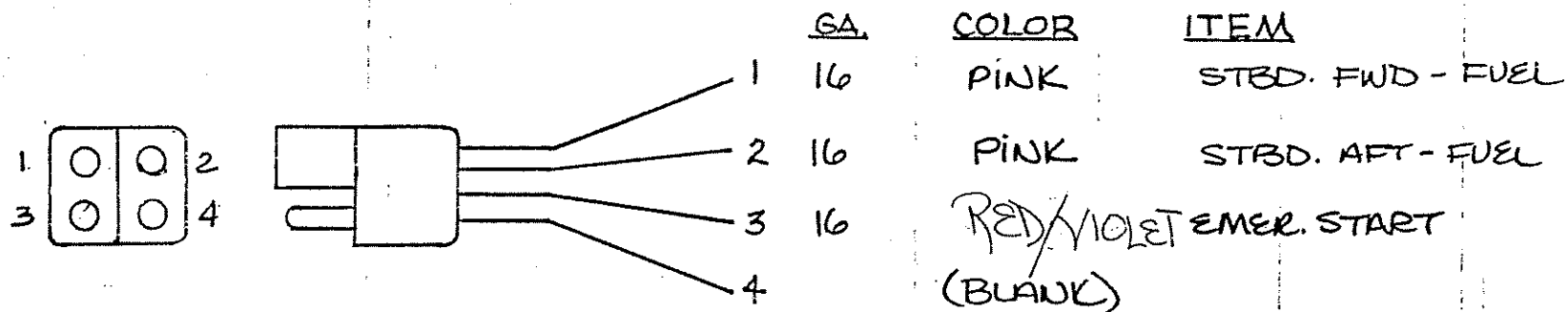
TITLE
PORT SWITCH PANEL - STN./STN.

MODEL
360SDSE

ECN NO.

REV NO.
1

DWG NO.
09-453



- ① 6 FT. PIGTAIL
- ① MALE PLUG - 1 end
- ① SPOT TAPE WIRES.

561 362

DRAWN BY
KEL 3/18/81

APPROV. BY
MK

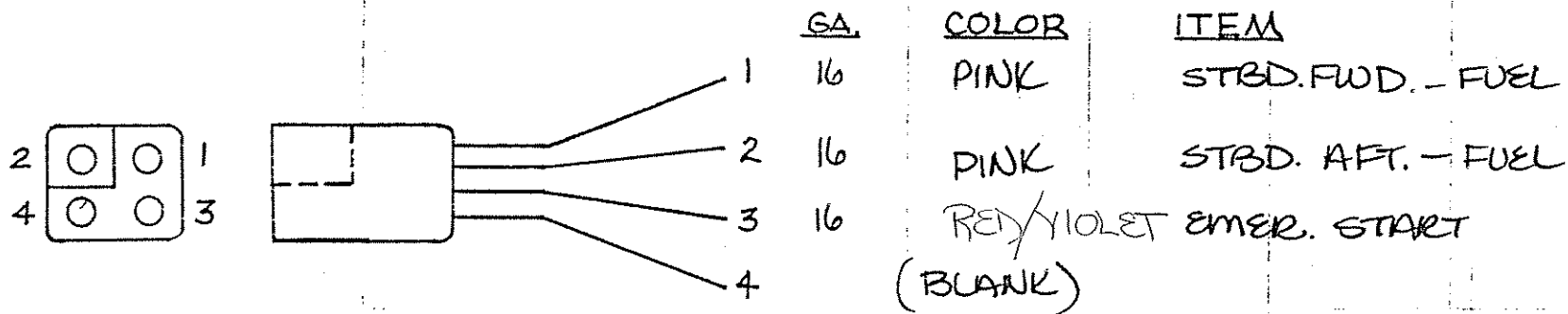
TITLE (SWITCH PANEL)
STBD. FUEL HARNESS DASH

MODEL
ALL

ECN NO.
2399

REV NO.
3 14 AUG 84

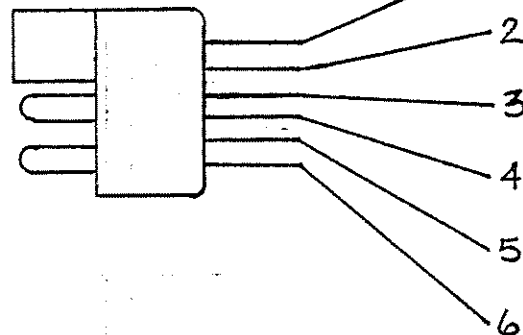
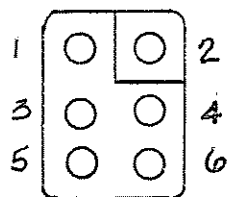
DWG NO.
09-456



- ⊙ 28 FT. PIGTAIL
- ⊙ FEMALE PLUG - 1 end
- ⊙ SPOT TAPE WIRES

561-363

DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
KEL 3/18/81	M/NK	STBD. FUEL HARNESS STN/STN	360SDSF	1828	2 1-17-83	09-457

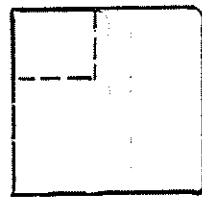
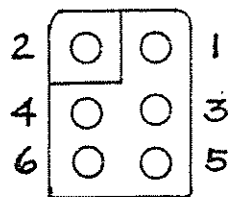


<u>GA.</u>	<u>COLOR</u>	<u>ITEM</u>
1 10	RED	
2 16	RED	
3 16	YELLOW	
4 16	BLUE	
5 16	GREEN	
6	(BLANK)	

- ② 4 FT. PIGTAIL
- ② MALE PLUG - 1 end
- ② SPOT TAPE WIRES

562-361

DRAWN BY KPK 3/17/81	APPROV BY MK	TITLE TRIM TABS HARNESS - STN./STN.	MODEL 360SDSF	ECN NO.	REV. NO. 1	DWG NO. 09-458
-------------------------	-----------------	--	------------------	---------	---------------	-------------------



GA.

COLOR

ITEM

10

RED

16

RED

16

YELLOW

16

BLUE

16

GREEN

(BLACK)

◎ 28 FT. PIGTAIL

◎ FEMALE PLUG - 1 end

◎ SPOT TAPE WIRES

502-362

DRAWN BY
KEL 3/18/01

APPROV BY
M/K

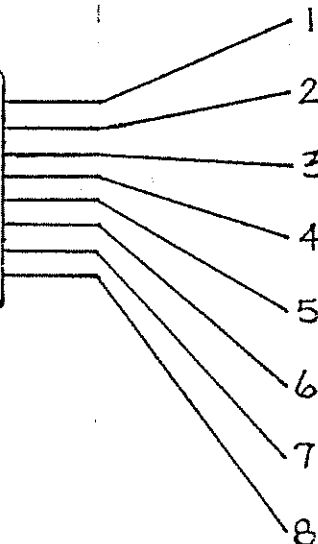
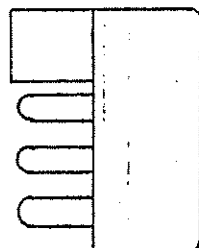
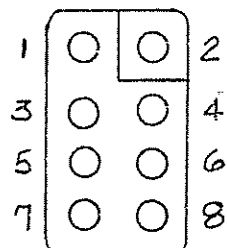
TITLE
TRIM TABS HARNESS - STN/STN.

MODEL
360SDSF

ECN NO.

REV. NO.

DWG NO.
09-459



GA.

COLOR

ITEM

10

RED

16

ORANGE

16

GRAY

16

BLACK

16

PURPLE

16

GREEN

16

YELLOW

16

BLUE

◎ 5 FT. PIGTAIL

◎ MALE PLUG - 1 end

◎ SPOT TAPE WIRES

563-362

DRAWN BY
KEL 3/17/81

APPROV BY
MVK

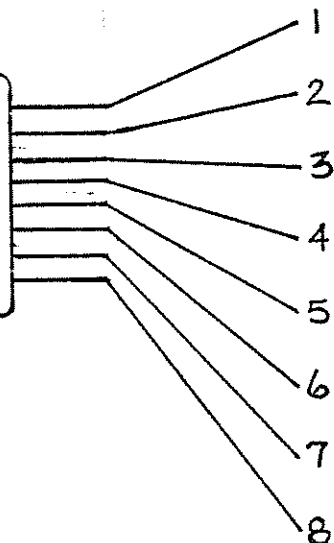
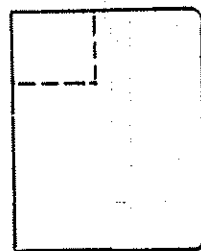
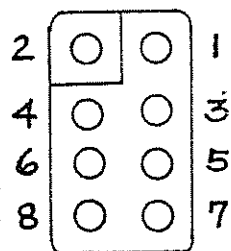
TITLE
SPOTLIGHT HARNESS-STN|STN

MODEL
360SDSF
34/2

ECN NO.

REV. NO.
2

DWG NO.
09-460

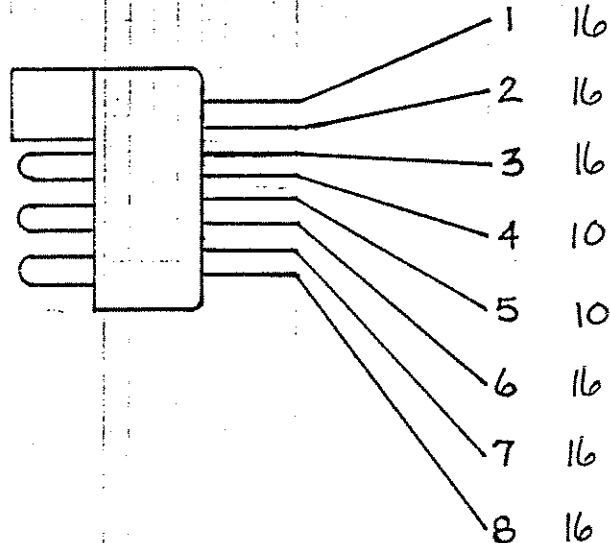
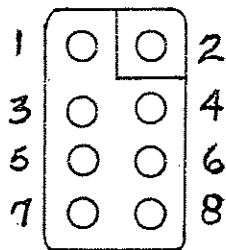


<u>GA.</u>	<u>COLOR</u>	<u>ITEM</u>
1 10	RED	
2 16	ORANGE	
3 16	GRAY	
4 16	BLACK	
5 16	PURPLE	
6 16	GREEN	
7 16	YELLOW	
8 16	BLUE	

- ◎ 28 FT. PIGTAIL
- ◎ FEMALE PLUG - 1 end.
- ◎ SPOT TAPE WIRES

563-364

DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
KEX 3/8/01	MWK	SPOTLIGHT HARNESS - STN/STN.	360SDSF		1	09-461



<u>GA.</u>	<u>COLOR</u>	<u>ITEM</u>
1 16	GRAY WHITE	MASTLIGHT
2 16	GRAY	ANCHOR LIGHT
3 16	BLACK	MASTLIGHT GROUND
4 10	RED/VIOLET	HORN POSITIVE
5 10	BLACK	HORN GROUND
6 16	ORANGE/GRAY	HORN SEND
7 16	BLUE	BRIDGE LIGHTS POSITIVE
8 16	BLACK	BRIDGE LIGHTS NEGATIVE

- ⊙ 9 FT. PIGTAIL
- ⊙ MALE PLUG - 1 end
- ⊙ SPOT TAPE WIRES

566-361

DRAWN BY
KOK 3/10/81

APPROV BY
M/K

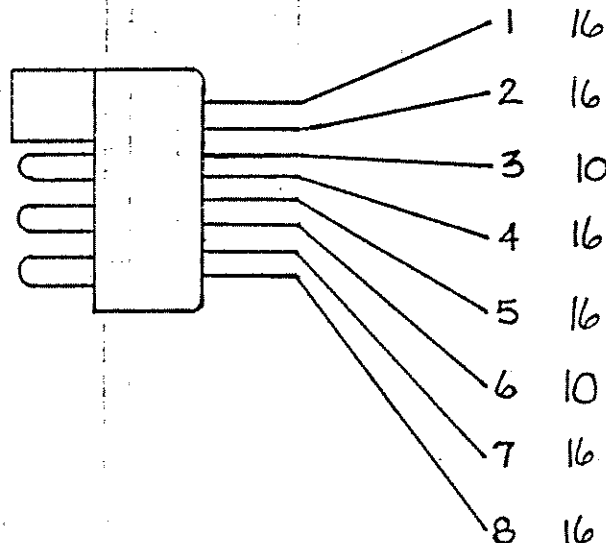
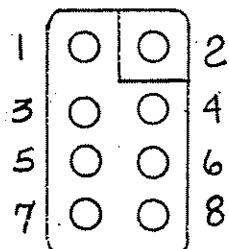
TITLE
SWITCH PANEL - DASH

MODFL
CALL

ECN NO.
23199

REV NO.
2 14 AUG
84

DWG NO.
09-462



GA.

COLOR

ITEM

16	BROWN	BILGE PUMP MAN. - FWD.
16	BROWN/RED	BILGE PUMP AUTO. - FWD.
10	RED	BILGE PUMP LINE - FWD.
16	BROWN	BILGE PUMP MAN. - AFT.
16	BROWN/RED	BILGE PUMP AUTO. - AFT.
10	RED	BILGE PUMP LINE - AFT.
16	YELLOW	BLOWER - FORT
16	YELLOW	BLOWER - STBD.

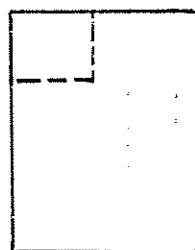
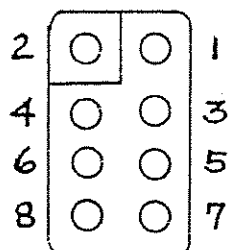
◎ 6 FT. PIGTAIL

◎ MALE PLUG - 1 end

◎ SPOT TAPE WIRES

561-361

DRAWN BY KEL 3/18/01	APPROV BY MANK	TITLE STBD. SWITCH PANEL - DASH	MODEL ALL	ECN NO. 2399	REV NO. 3 14 AUG 84	DWG NO. 09-454
-------------------------	-------------------	------------------------------------	--------------	-----------------	------------------------	-------------------



GA.

COLOR

ITEM

1 16
2 16
3 10
4 16
5 16
6 10
7 16
8 16

BROWN

BROWN/RED

RED

BROWN

BROWN/RED

RED

YELLOW

YELLOW

BILGE PUMP MAN. - FWD.

BILGE PUMP AUTO - FWD.

BILGE PUMP LINE - FWD.

BILGE PUMP MAN. - AFT

BILGE PUMP AUTO - AFT

BILGE PUMP LINE - AFT

BLOWER - PORT

BLOWER - STBD.

◎ 28 FT. PIGTAIL

◎ FEMALE PLUG - 1 end.

◎ SPOT TAPE WIRES

561 369

DRAWN BY
KEK 3/18/81

APPROV. BY
MVK

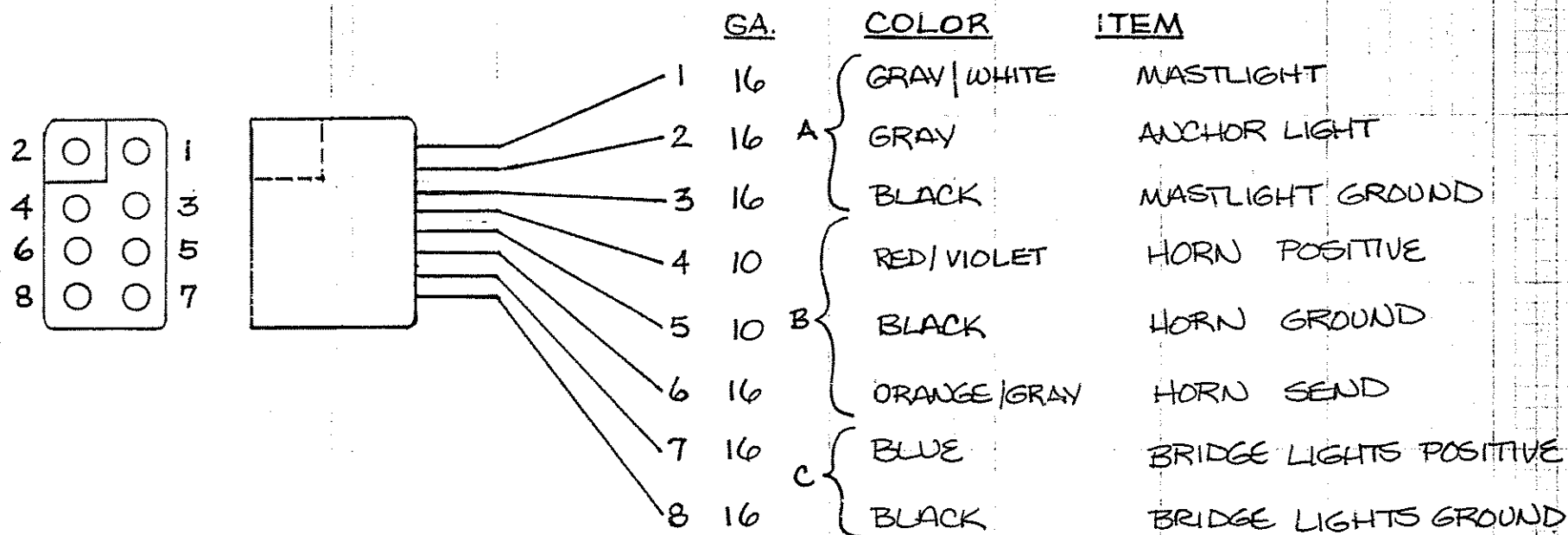
TITLE
STBD. SWITCH PANEL - STN/STN

MODEL
360SDSF

ECN NO.
1828

REV. NO.
2
1-17-85

DWG NO.
09-455



① FEMALE PLUG - 1 end

A) 14 FT. PIGTAIL

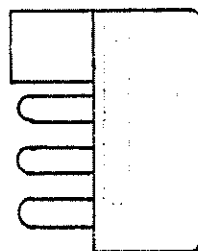
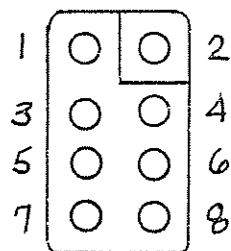
B) 9 FT. PIGTAIL

C) 25 FT. PIGTAIL

① SPOT TAPE WIRES

561-365

DRAWN BY 3/17/81 KKK	APPROV BY W/K	TITLE SWITCH PANEL - BRIDGE	MODEL 310SB, SDB 360SDBF	ECN NO.	REV NO. 1	DWG NO. 09-463
-------------------------	------------------	--------------------------------	--------------------------------	---------	--------------	-------------------



<u>GA.</u>	<u>COLOR</u>	<u>ITEM</u>
1 16	GRAY	
2 16	ORANGE	
3 16	BLACK	
4 16	PURPLE	
5 16	GREEN	
6 16	YELLOW	
7 16	BLUE	
8	(BLANK)	

- ① 9 FT. PIGTAIL
- ② MALE PLUG - 1 end.
- ③ SPOT TAPE WIRES.

563-361

DRAWN BY
KEK 3/10/01

APPROV BY
MK

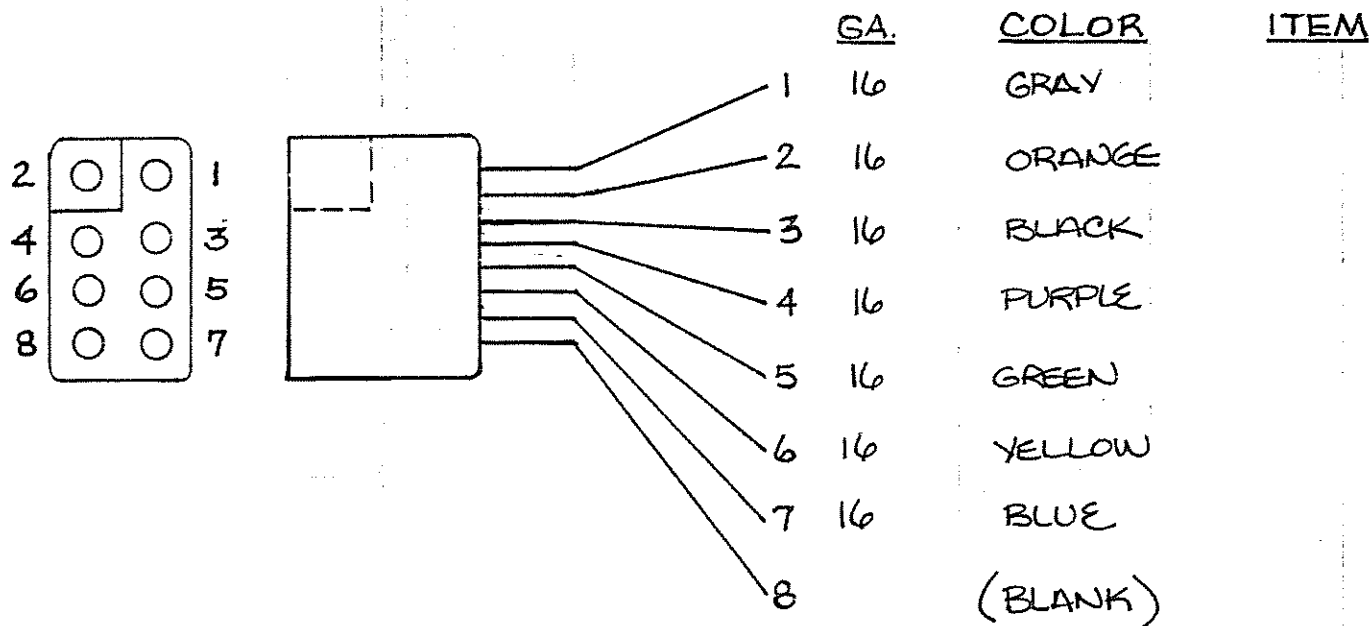
TITLE
SPOTLIGHT HARNESS - BRIDGE

MODEL
310SB/SBB
360SDSF

ECN NO.

REV. NO.
1

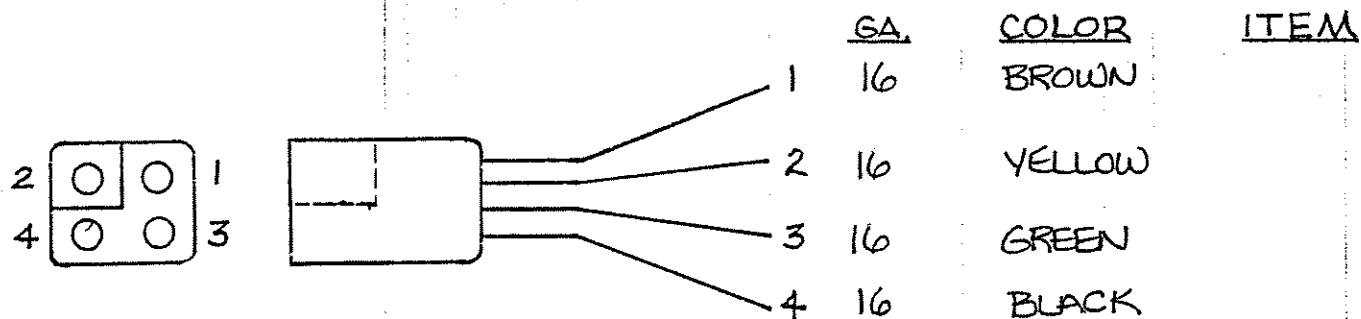
DWG NO.
09-464



- ① 14 FT. PIGTAIL
- ① FEMALE PLUG - 1 end.
- ① SPOT TAPE WIRES

561-370

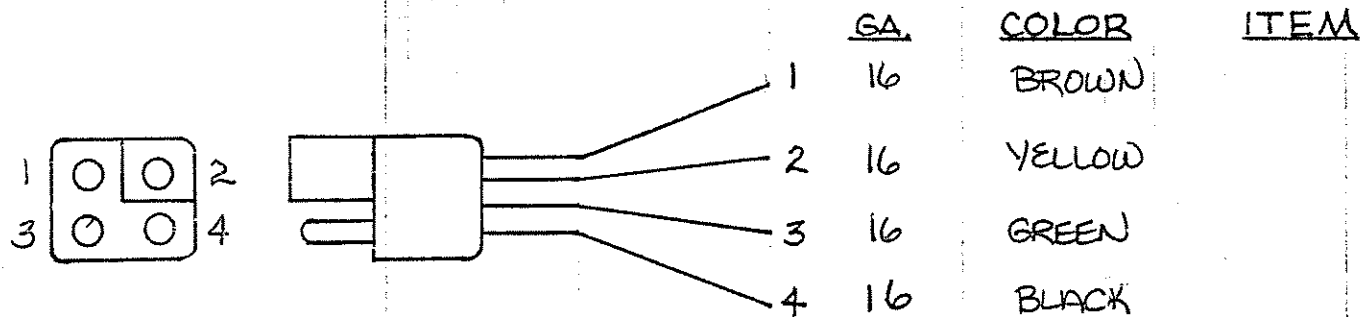
DRAWN BY REL 3/17/81	APPROV BY M/WK	TITLE SPOTLIGHT HARNESS-BRIDGE	MODEL 310SB, SDB 360 SDSF	ECN NO.	REV NO. 1	DWG NO. 09-465
-------------------------	-------------------	-----------------------------------	---------------------------------	---------	--------------	-------------------



- ⊙ FEMALE PLUG - 1 end
- ⊙ 25 FT. PIGTAIL
- ⊙ SPOT TAPE WIRES

564-362

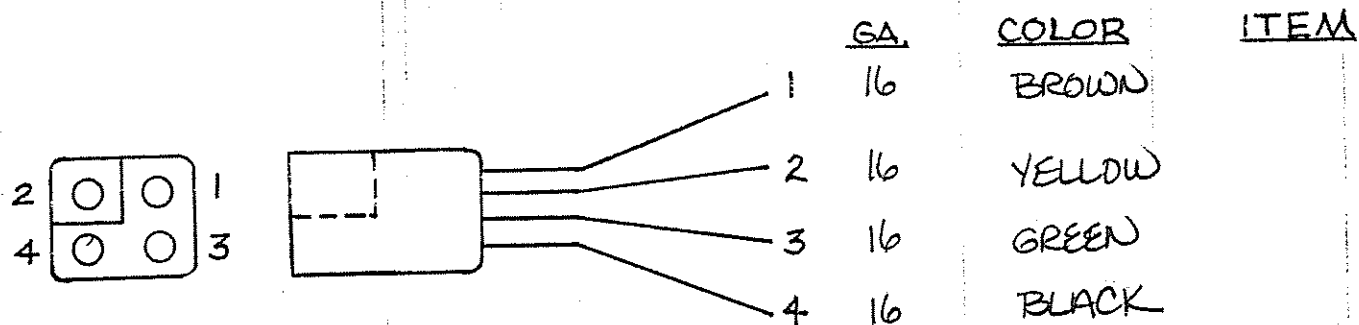
DRAWN BY KOL 3/17/81	APPROV BY M/WK	TITLE SPEAKER HARNESS - BRIDGE	MODEL 310SB, SDB 360SDSF	ECN NO.	REV NO. 1	DWG NO. 09-466
-------------------------	-------------------	-----------------------------------	--------------------------------	---------	--------------	-------------------



- ⊙ 6 FT. PIGTAIL
- ⊙ MALE PLUG - 1 @ each end - configuration typical @ both ends.
- ⊙ SPOT TAPE WIRES.

564-361

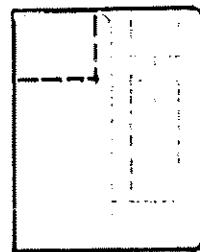
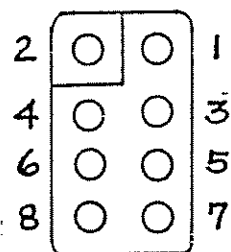
DRAWN BY KCK 3/18/81	APPROV BY MVK	TITLE SPEAKER HARNESS-BRIDGE	MODEL 360SDSF 310SB,SD3	ECN NO.	REV NO. 1	DWG NO. 09-467
-------------------------	------------------	---------------------------------	-------------------------------	---------	--------------	-------------------



- ⊙ 28 FT. PIGTAIL
- ⊙ FEMALE PLUG - 1 end
- ⊙ SPOT TAPE WIRES

564-363

DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
KEK 3/10/81	W/K	SPEAKER HARNESS-BRIDGE	310SB/SDB 360SDSF		1	09-468



GA.	COLOR	ITEM
1 16	GRAY/WHITE	MASTLIGHT
2 16	GRAY	ANCHOR LIGHT
3 16	BLACK	MASTLIGHT GROUND
4 10	RED/VIOLET	HORN POSITIVE
5 10	BLACK	HORN GROUND
6 16	ORANGE/GRAY	HORN SEND
7 16	BLUE	BRIDGE LIGHTS POSITIVE
8 16	BLACK	BRIDGE LIGHTS GROUND

① FEMALE PLUG - 1 end

A) 14 FT. PIGTAIL

B) 9 FT. PIGTAIL

C) 25 FT. PIGTAIL

② SPOT TAPE WIRES

561-365

DRAWN BY
3/17/81 KKK

APPROV BY
11/11/81

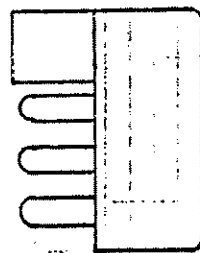
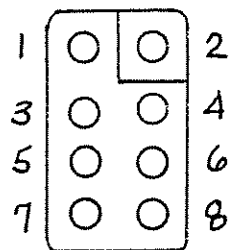
TITLE
SWITCH. PANEL - BRIDGE

MODEL
BRIDGE
BOATS

ECN NO.
2399

REV. NO.
2 14 AUG
84

DWG NO.
09-463



GA.

COLOR

ITEM

1 16
2 16
3 16
4 16
5 16
6 16
7 16
8

GRAY

ORANGE

BLACK

PURPLE

GREEN

YELLOW

BLUE

(BLANK)

- ① 9 FT. PIGTAIL
- ① MALE PLUG - 1 end.
- ① SPOT TAPE WIRES.

563-361

DRAWN BY
KEK 3/10/81

APPROV BY
MVK

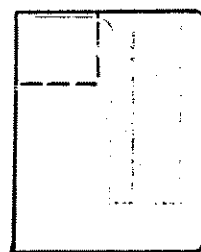
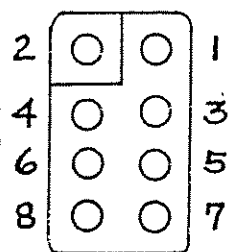
TITLE
SPOTLIGHT HARNESS - DASH

MODEL
BRIDGE
BOATS

ECN NO.
23199

REV NO.
2 14 AUG
84

DWG NO.
09-464



<u>GA.</u>	<u>COLOR</u>	<u>ITEM</u>
1 16	GRAY	
2 16	ORANGE	
3 16	BLACK	
4 16	PURPLE	
5 16	GREEN	
6 16	YELLOW	
7 16	BLUE	
8	(BLANK)	

- ◎ 14 FT. PIGTAIL
- ◎ FEMALE PLUG - 1 end.
- ◎ SPOT TAPE WIRES

561-370

DRAWN BY
KEL 3/17/81

APPROV BY
M/WK

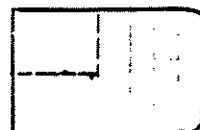
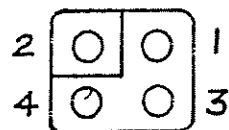
TITLE
SPOTLIGHT HARNESS - BRIDGE

MODEL
BRIDGE-
BOATS

ECN NO.
2399

REV NO.
2 14 AUG
84

DWG NO.
09-465

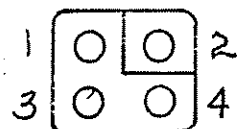


- ① FEMALE PLUG - 1 end
- ② 25 FT. PIGTAIL
- ③ SPOT TAPE WIRES

<u>GA.</u>	<u>COLOR</u>	<u>ITEM</u>
1 16	BROWN	
2 16	YELLOW	
3 16	GREEN	
4 16	BLACK	

564-362

DRAWN BY KOL 3/17/81	APPROV BY M/K	TITLE SPEAKER HARNESS - BRIDGE	MODEL BRIDGE BOATS	ECN NO. 2399	REV NO. 2 14 AUG 84	DWG NO. 09-466
-------------------------	------------------	-----------------------------------	--------------------------	-----------------	---------------------------	-------------------



<u>GA</u>	<u>COLOR</u>	<u>ITEM</u>
1 16	BROWN	
2 16	YELLOW	
3 16	GREEN	
4 16	BLACK	

- ① 6 FT. PIGTAIL
- ① MALE PLUG - 1 @ each end - configuration typical @ both ends.
- ① SPOT TAPE WIRES.

564-361

DRAWN BY
KCK 3/18/81

APPROV BY
MK

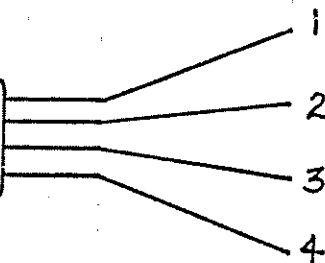
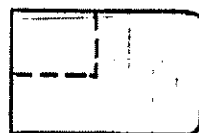
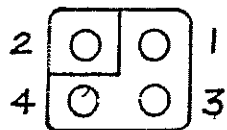
TITLE
SPEAKER HARNESS - DASH

MODEL
BRIDGE
BOATS

ECN NO.
2399

REV NO.
2 14 AUG
84

DWG NO.
09-467



GA.

COLOR

ITEM

1	16	BROWN
2	16	YELLOW
3	16	GREEN
4	16	BLACK

① 28 FT. PIGTAIL

② FEMALE PLUG - 1 end

③ SPOT TAPE WIRES

564-363

DRAWN BY
KEL 3/10/81

APPROV BY
MVK

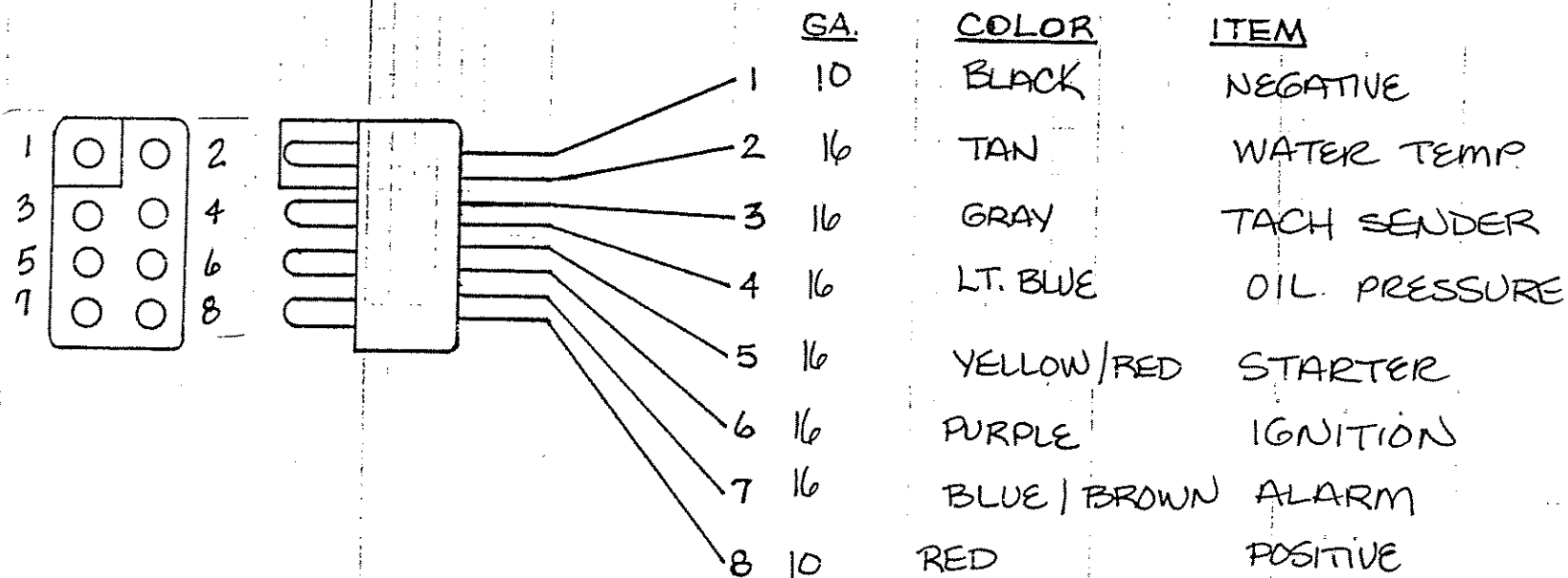
TITLE
SPEAKER HARNESS - STN/STN

MODEL
BRIDGE-
BOATS

ECN NO.
2399

REV NO.
2 14 AUG
84

DWG NO.
09-468

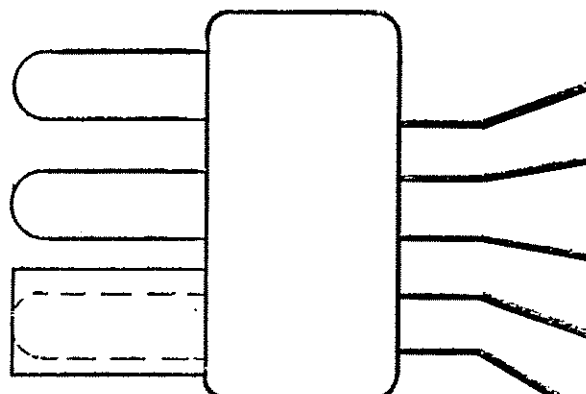
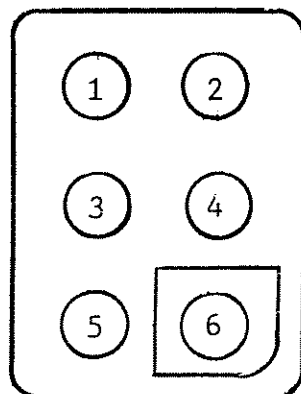


- ⊙ 7 FT. PIGTAIL
- ⊙ MALE PLUG - 1 end
- ⊙ SPOT TAPE WIRES

(2 per boat)

569-300

DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV. NO.	DWG NO.
KCK 3/30/81	RG 8/23/84	ENGINE HARNESS PIGTAIL - DASH	ALL	2399	2 14 AUG 84	09-469



	<u>GA.</u>	<u>COLOR</u>	<u>DESCRIPTION</u>
1	- - - - -	B L A N K	- - - - -
2	16	PURPLE	POWER
3	16	BLUE	UP
4	16	GREEN	GROUND
5	16	BROWN	LOCK/UNLOCK
6	16	WHITE	DOWN

NOTES:

- 1) MALE PLUG - ONE END
- 2) SPOT TAPE WIRES
- 3) 38 FEET

DRAWN BY/DATE
DJH 08-28-86

APPROVED BY
[Signature]

TITLE
STATION TO STATION
POWERWINCH® WINDLASS

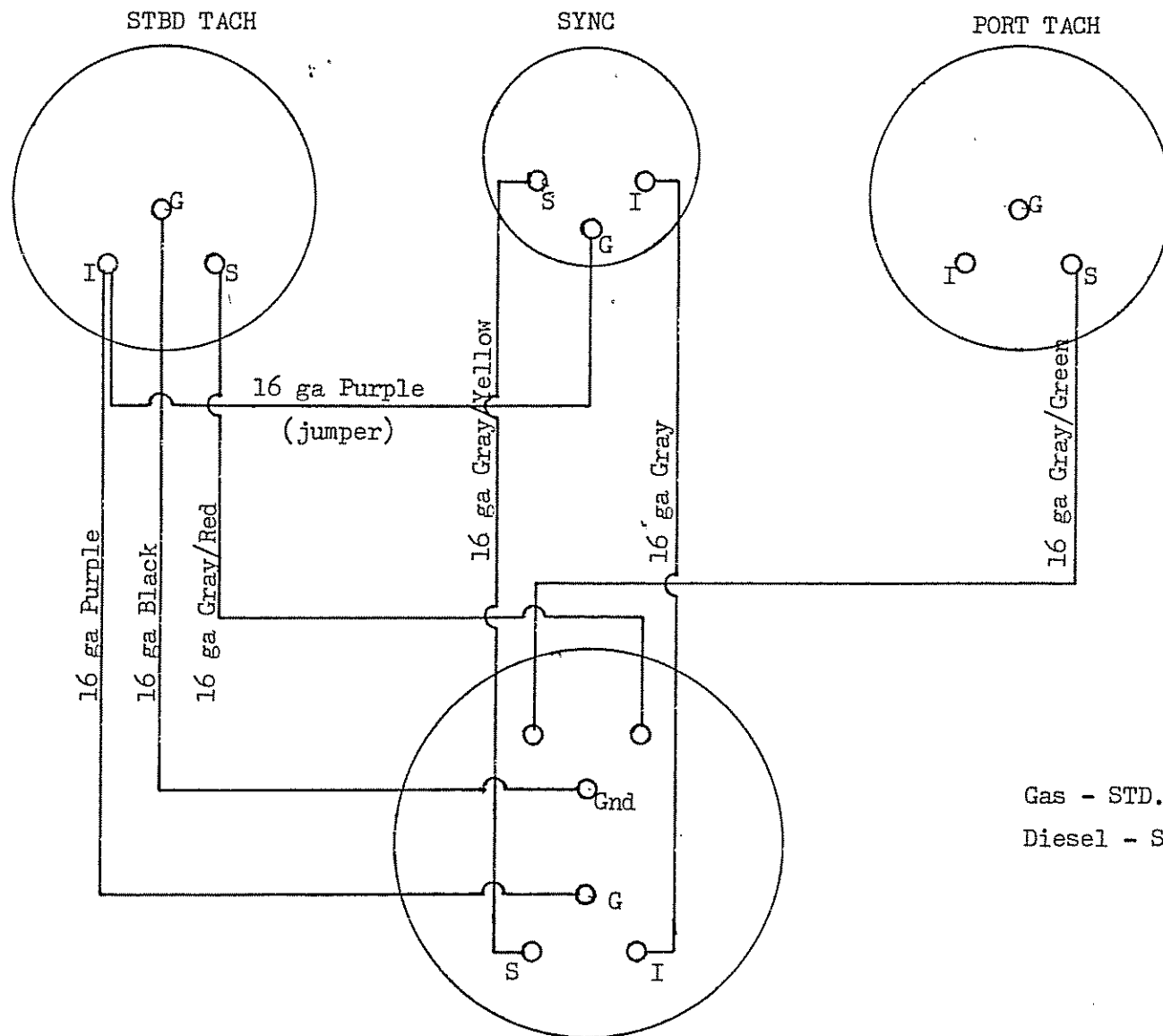
MODEL
ALL

E.C.N. NO.
3773

REV. NO.
1

DWG. NO.
09-475

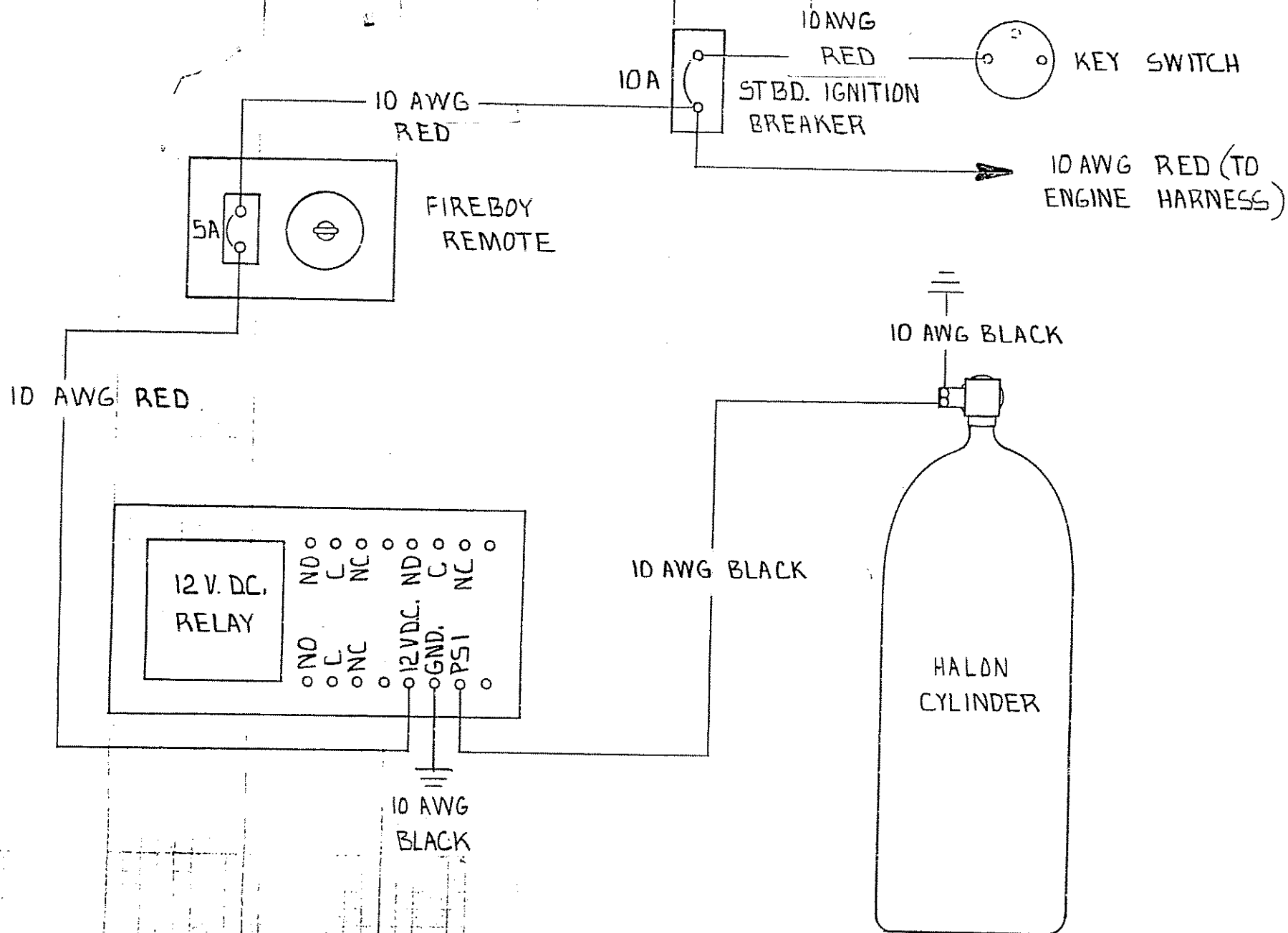
GAUGE PANEL BACK VIEW



Gas - STD. IGN.
Diesel - SIGNA FLEX

SYNC MODULE FRONT VIEW

DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
D. ALMS 10/22/85	RG 12/6/85	SYNC MODULE WIRING	ALL 390 460	3145-Y	1	09-500



DRAWN BY

RP 7/20/83

APPROV BY

RG 7/21/83

TITLE

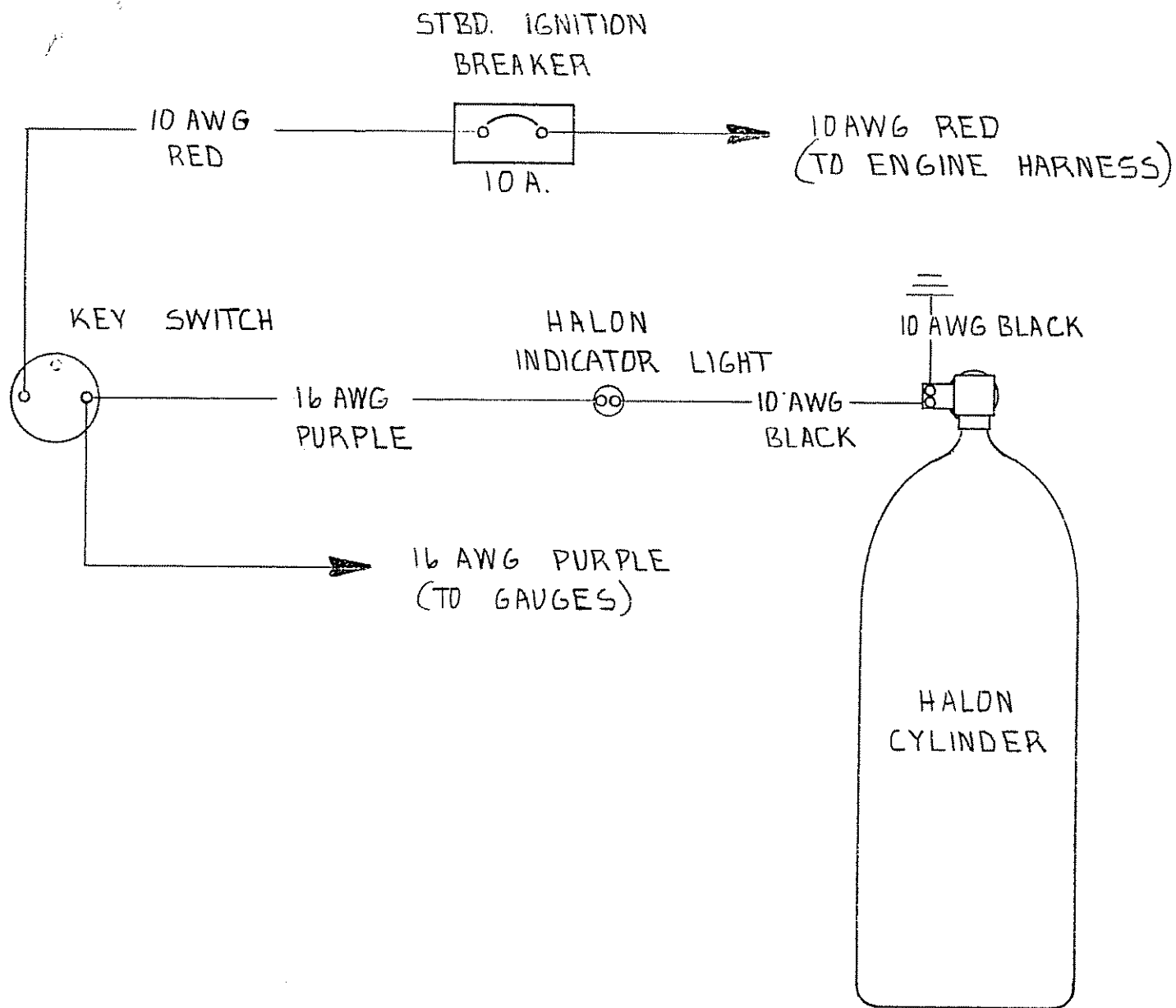
FIREBOY WIRING - DIESEL

MODEL
340 EC
390 EC

ECN NO.
2052

REV NO.
2 10/21/83

DWG NO.
09-517



DRAWN BY
LS 10/21/83

APPROV BY
RG 10/24/83

TITLE
FIREBOY WIRING - GAS

MODEL
ALL BOATS

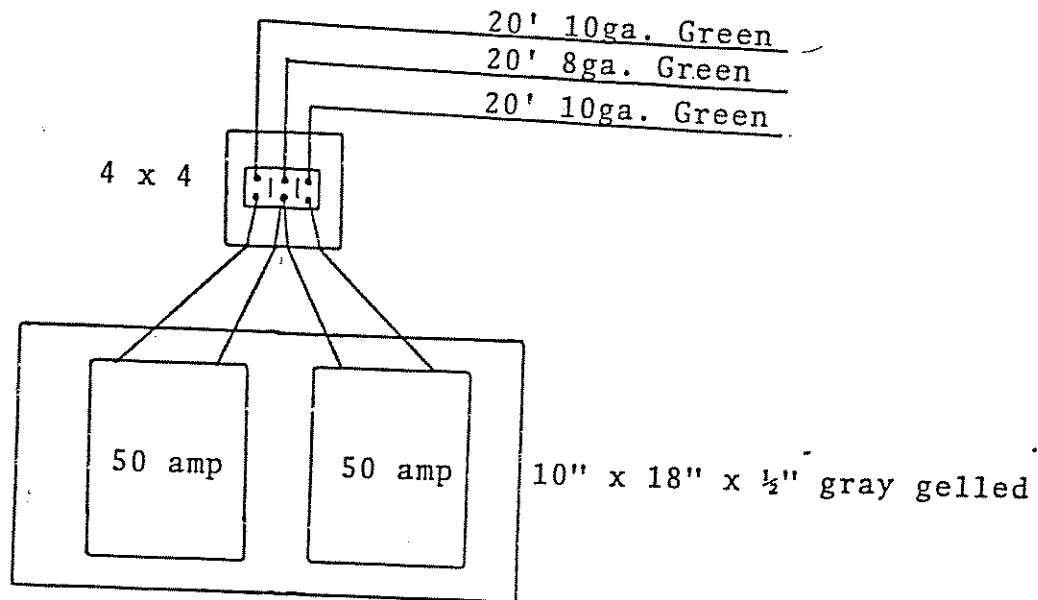
ECN NO.
2052

REV NO.
1 10/21/83

DWG NO.
09-518

390 EC

Isolator Prep



Junction box is soft sealed with cover and warning tag.

DRAWN BY JBN	APPROV BY RG 3/13/84	TITLE ISOLATOR PREP.	MODEL 390 EC	ECN NO. 2160	REV NO. 1 3/9/84	DWG NO. 09-525
-----------------	-------------------------	-------------------------	-----------------	-----------------	---------------------	-------------------

"PROFESSIONAL MARINER"
GALVANIC CURRENT BLOCKER

SHORE POWER GROUND

M.D.P.

TO M.D.P. BONDING BUSS
8 AWG. GREEN.

NOTE: SOFT SEAL CONNECTIONS.

NOTE: INSTALL BETWEEN A.C. GREEN WIRE SYSTEM AND D.C.
BONDING SYSTEM. (ABYC RECOMMENDED CONNECTION).

DRAWN BY
J.R.H.

APPROV BY

TITLE

GALVANIC CURRENT BLOCKER

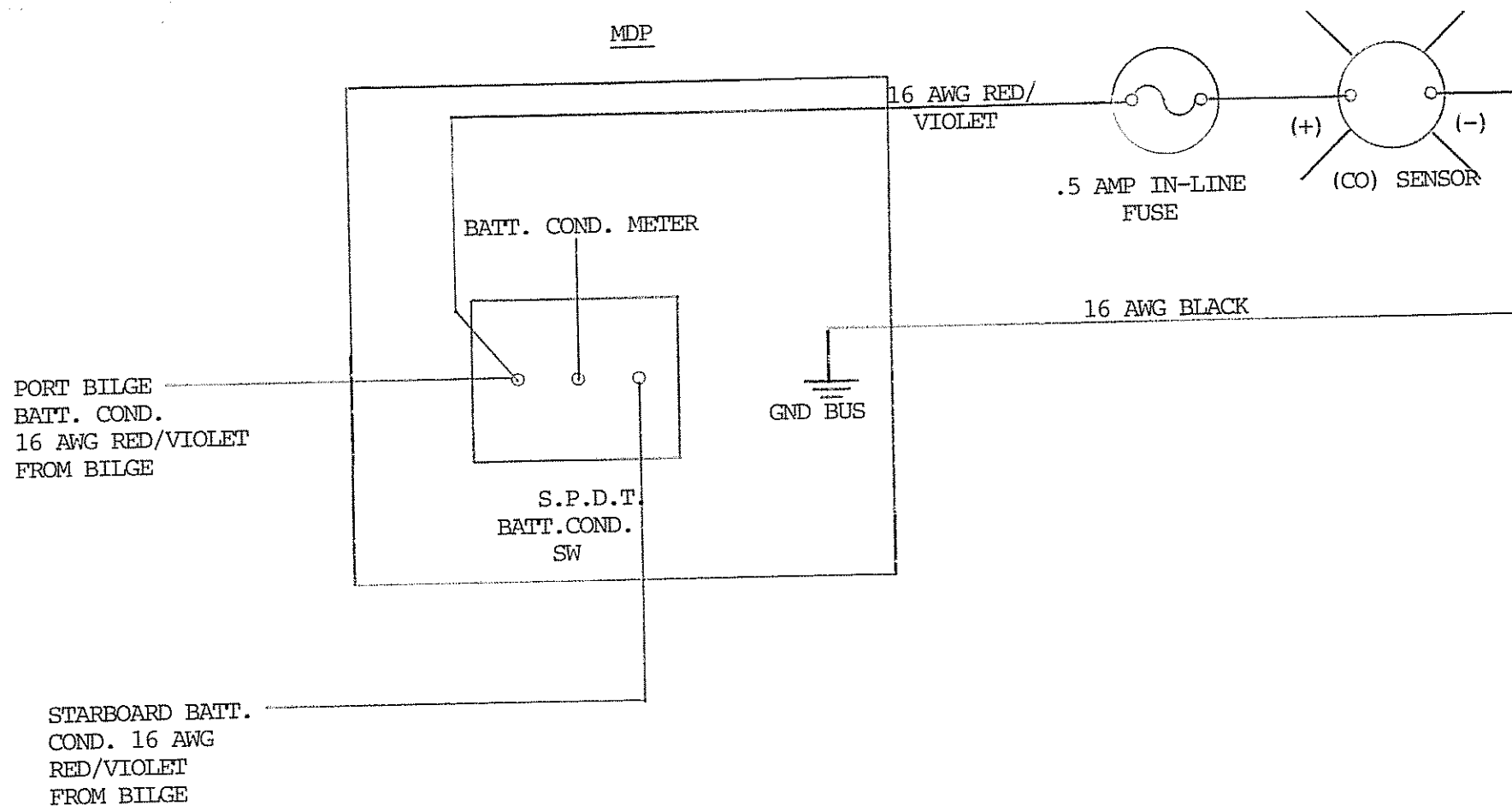
MODEL
ALL

ECN NO.
2601

REV NO.
1
1-16-85

DWG NO.
09-526

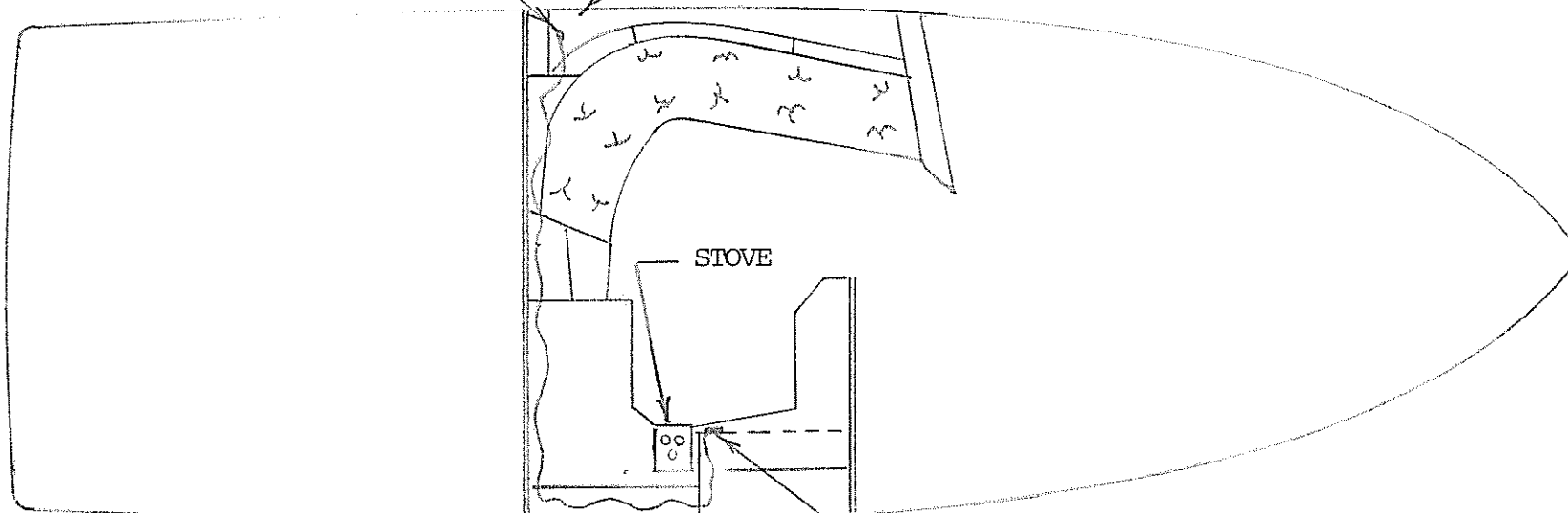
NOTE: REF. DWG 08-002 AND 09-531 FOR 340 SDB
 REF. DWG 08-002 AND 09-531 FOR 390 EC
 REF. DWG 08-011 AND 09-531 FOR 390 SF
 REF. DWG 08-002 AND 09-531 FOR 360 AC



DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
RMH		CARBON MONOXIDE (CO) DETECTOR SCHEMATIC	ALL EXCEPT 340 SDA/EC	2847	1	09-530

(CO) DETECTOR WIRING TO MDP

110 CABINET



STOVE

CARBON MONOXIDE (CO) DETECTOR

NOTE: REF. DWG. 08-002, AND 09-530.

DRAWN BY

RMH

APPROV BY

TITLE

CARBON MONOXIDE (CO) DETECTOR
AND WIRE INSTALLATION

MODEL

390 EC

ECN NO.

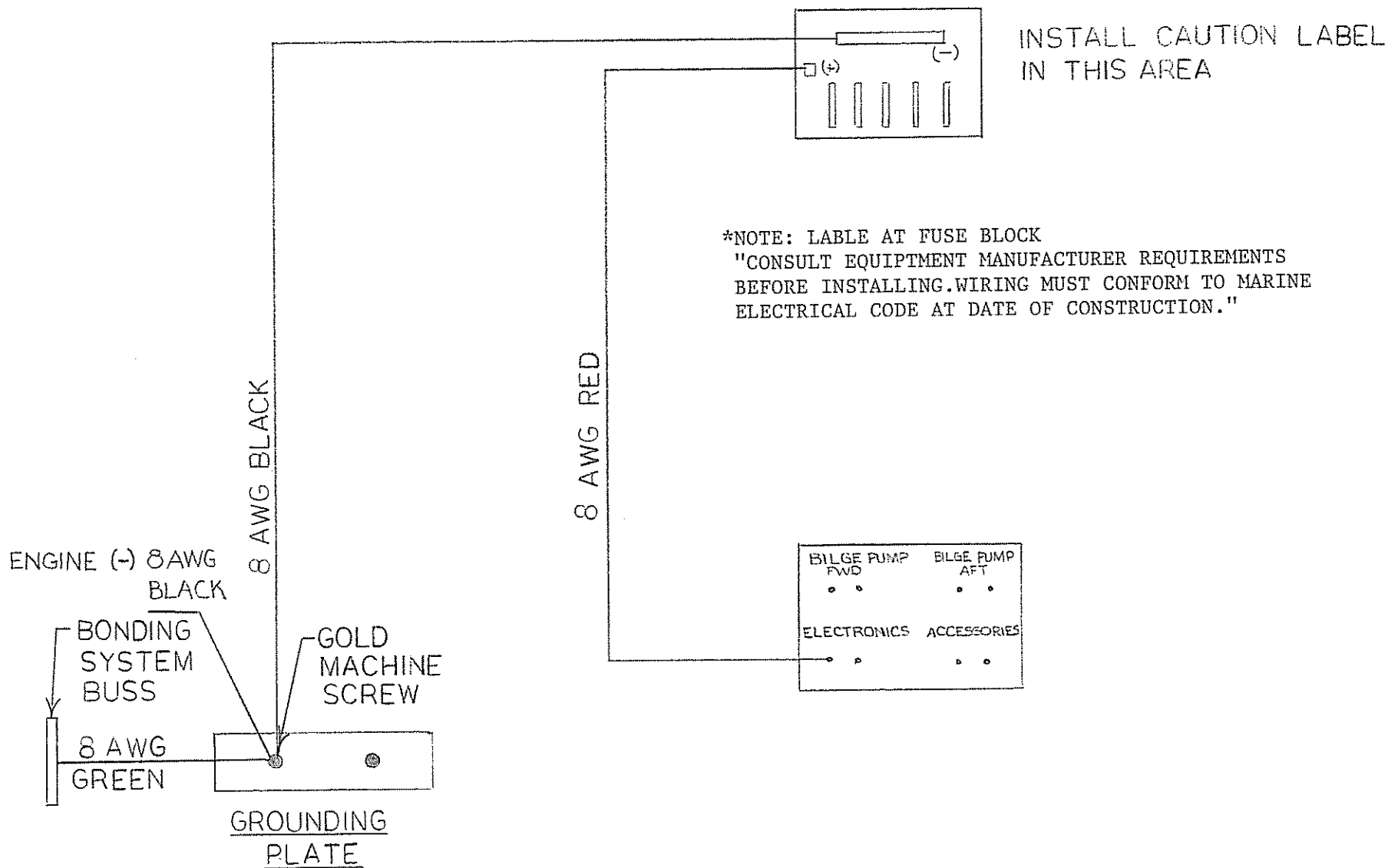
2847

REV NO.

1

DWG NO.

09-531



DRAWN BY
JBN

APPROV BY
RG 7/16/84

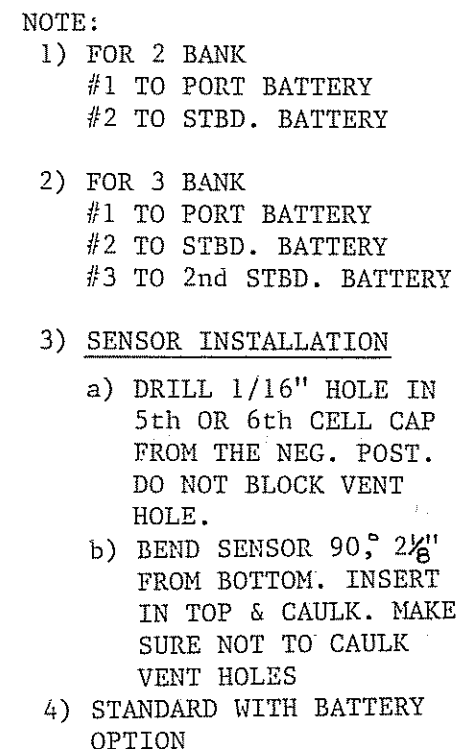
TITLE
WIRING FOR GROUNDING
PLATE OPTION

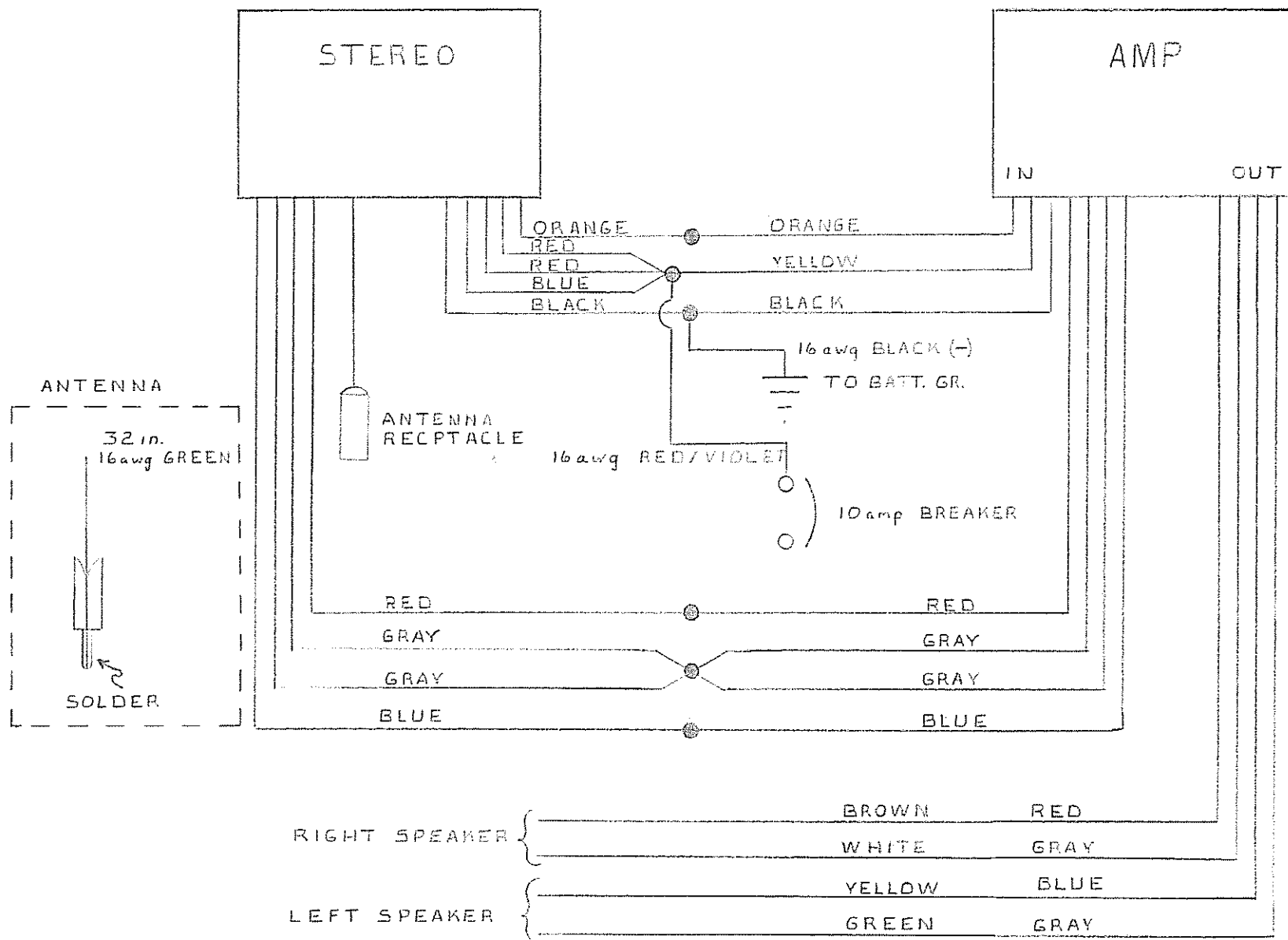
MODEL
ALL

ECN NO.
2308

REV NO.
3 7/17/84

DWG NO.
09-570

TELEDYNE POST N26552



DRAWN BY
MSM

APPROV BY
RG 7/16/84

TITLE
PANASONIC STEREO WIRING DIAGRAM

MODEL
ALL

ECN NO.
2313

REV NO.
7/11/84

DWG NO.
09-601

CONNECTIONS

SONY

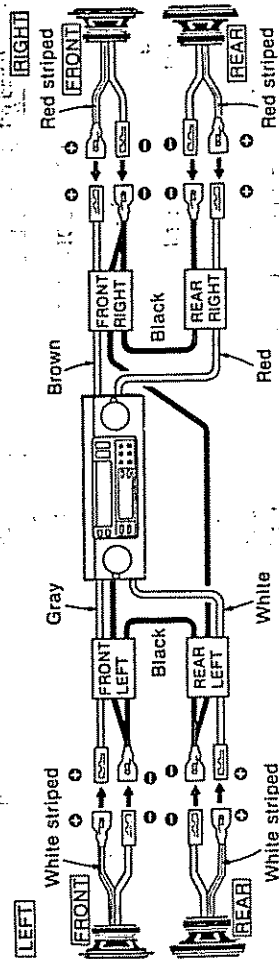
XR-33

Caution

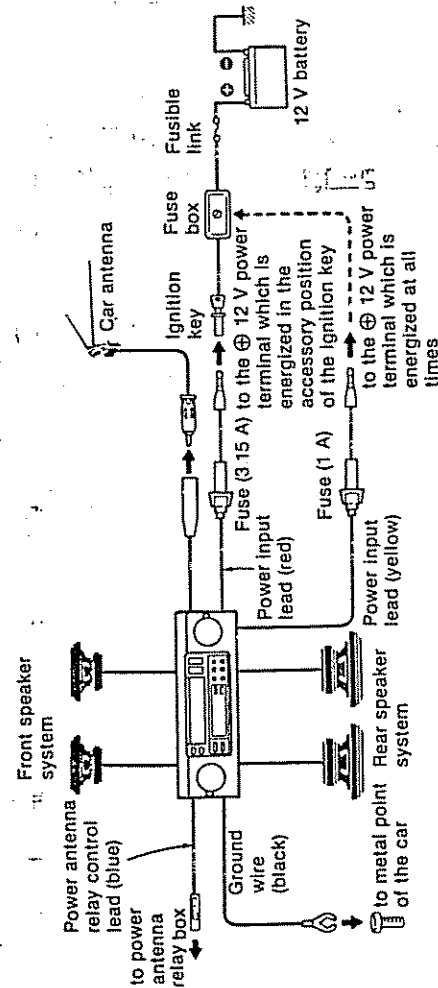
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the red and yellow power input leads only after all other leads have been connected.
- Run all ground wires to a common ground point.

SPEAKER CONNECTION

- Be sure to use speakers with adequate power handling capacities. If this precaution is not observed, the speakers will be damaged.
- Do not connect the $\ominus$ terminal of the speaker system with the car chassis.
- Do not attempt to connect the speakers in parallel.



4- OR 2-SPEAKER CONNECTION



To use the unit in a 2-speaker system, use either pair of front speaker cords (FRONT and FRONT) or rear speaker cords (REAR and REAR), and leave the another pair free.

DRAWN BY
RORY H.

APPROV BY

TITLE
SONY XR-33 WIRING DIAGRAM

MODEL
270-390

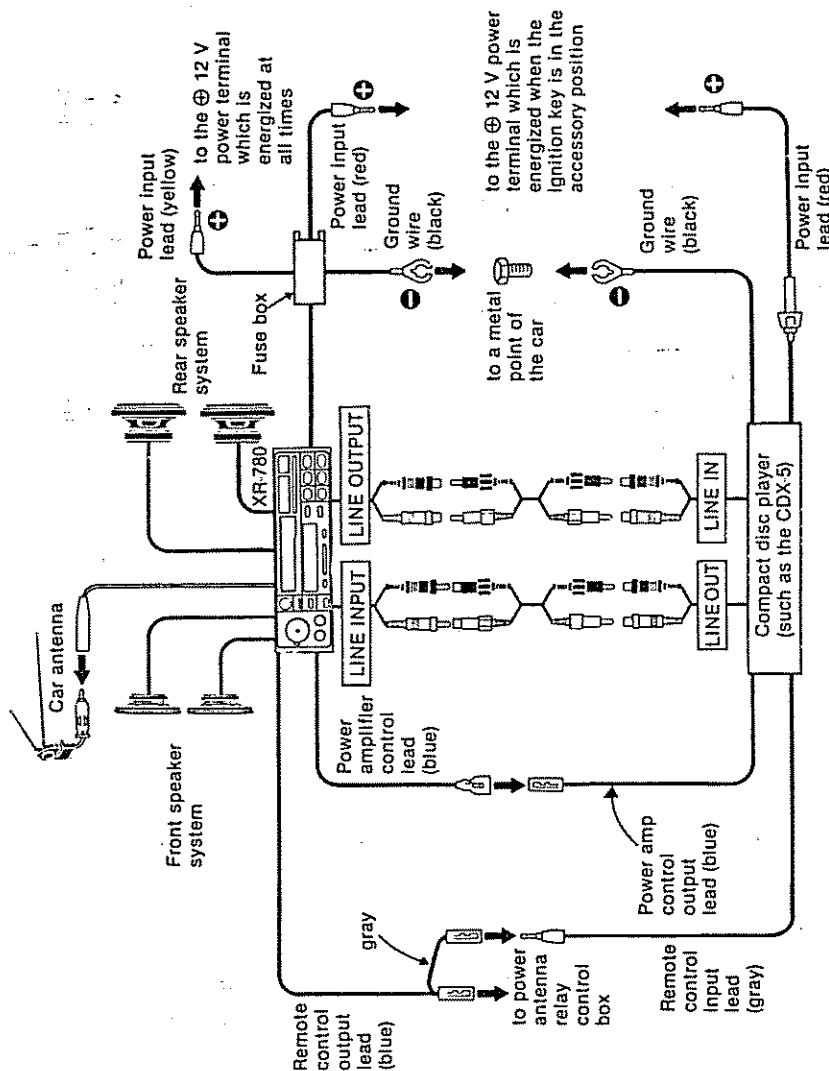
ECN NO.
2867

REV NO.
1

DWG NO.
09-601

SONY XR780

EXAMPLE 2: 4-SPEAKER CONNECTION — with a Sony compact disc player such as the CDX-5



POWER ANTENNA CONNECTION

For details about the power antenna, refer to the power antenna instruction manual.

Note: A power antenna without relay control box cannot be used with this unit.

To raise the antenna, press the PUSH RADIO switch to turn on the radio or insert a cassette. When the radio is turned off and the cassette is ejected, the antenna will automatically retract.

- When the cassette is played back or a radio program is received, the sound of the compact disc player cannot be heard. Stop the cassette or turn off the radio to listen to the CD sound. The sound volume and tone should be adjusted with controls provided with each unit.
- With the compact disc player connected to the XR-780 as illustrated, the CD sound can be heard without an add-on power amplifier.
- A graphic equalizer can be connected instead of the compact disc player.

Memory-hold connection

When the yellow power input lead is connected as shown, power will be always supplied to the memory circuit and clock even when the ignition key is switched off.

DRAWN BY
RORY H.

APPROV BY

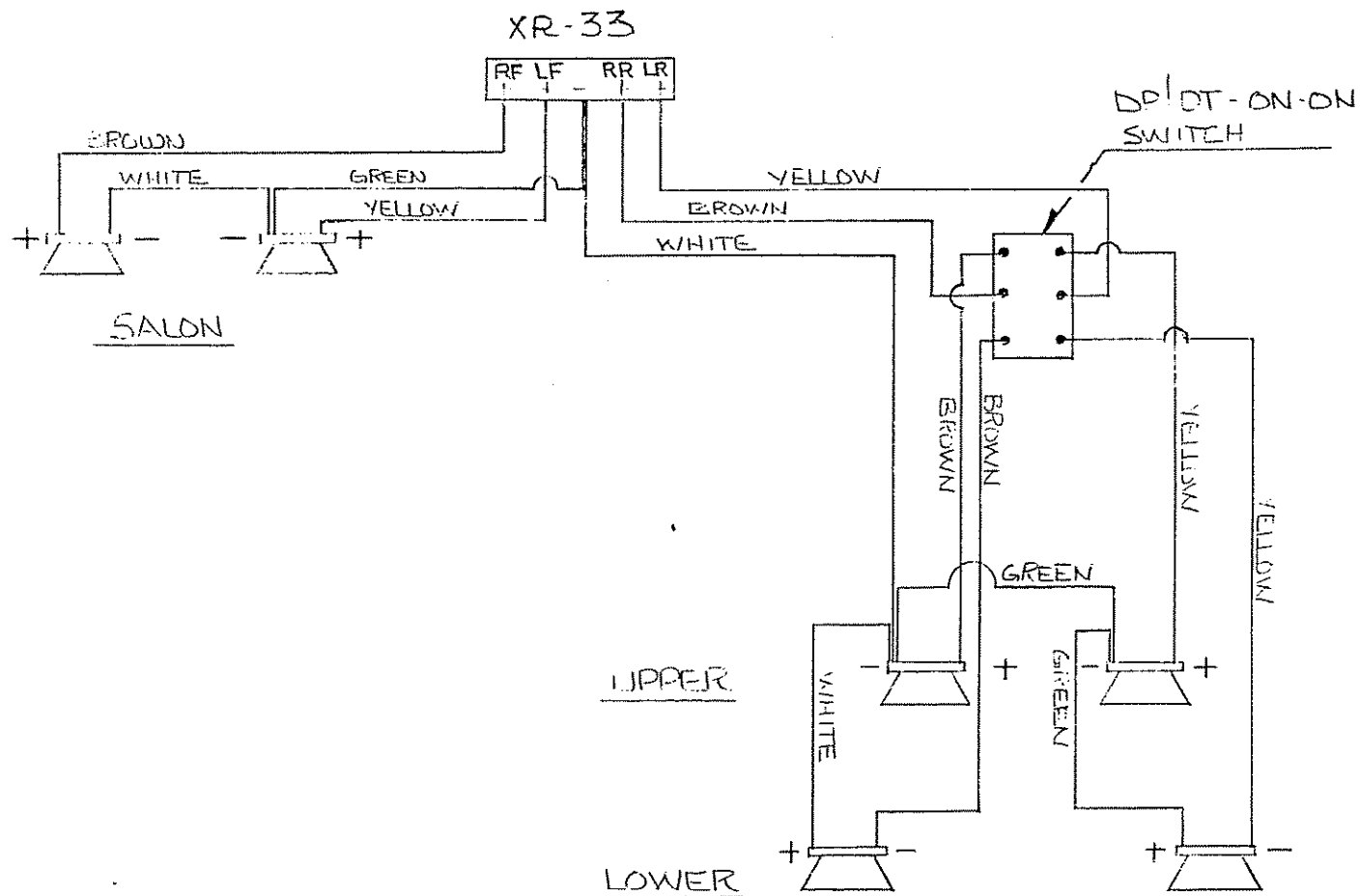
TITLE
SONY XR-780 WIRING DIAGRAM

MODEL
ALL

ECN NO.
2867

REV NO.
1

DWG NO.
09-602



Sea Ray

PRODUCT DEVELOPMENT AND ENGINEERING

MODEL 340'S & ABOVE

MATERIAL N/A

DATE 4-8-86

DRAWING NO. 09-60-1A

TITLE XR-33 6 SPEAKER (OPT.)

DRAWN BY J.R. HAMM

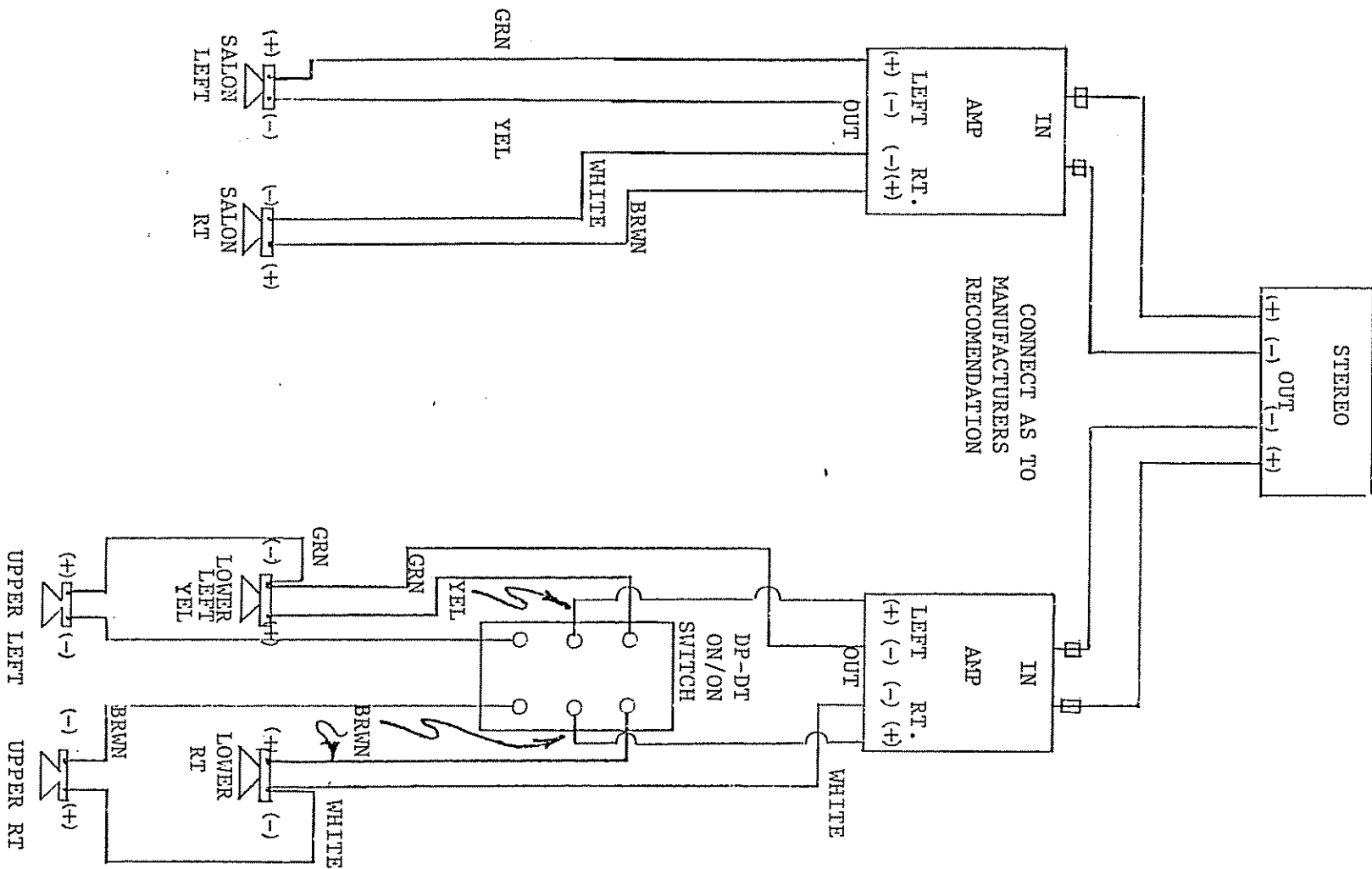
REVISION NO.

LOCATION P.D. & E.

APPROVED BY

E.C.N. NO.

NOTE: CONNECT STEREO TO AMP AS PER MANUFACTURERS
RECOMMENDATIONS



Sea Ray

PRODUCT DEVELOPMENT AND ENGINEERING

MODEL	TITLE SIX SPEAKER STEREO SCHEMATIC w/ TRIM AIDS		
MATERIAL			LOCATION MERRITT ISLAND
DATE	DRAWN BY RORY H.	APPROVED BY <i>RH</i> cc/2/05	
DRAWING NO. 09-604	REVISION NO. 1	E.C.N. NO.	

16 ga. Black
16 ga. Yellow
16 ga. White/blue

16 ga. Black
16 ga. White

10 ga. Red

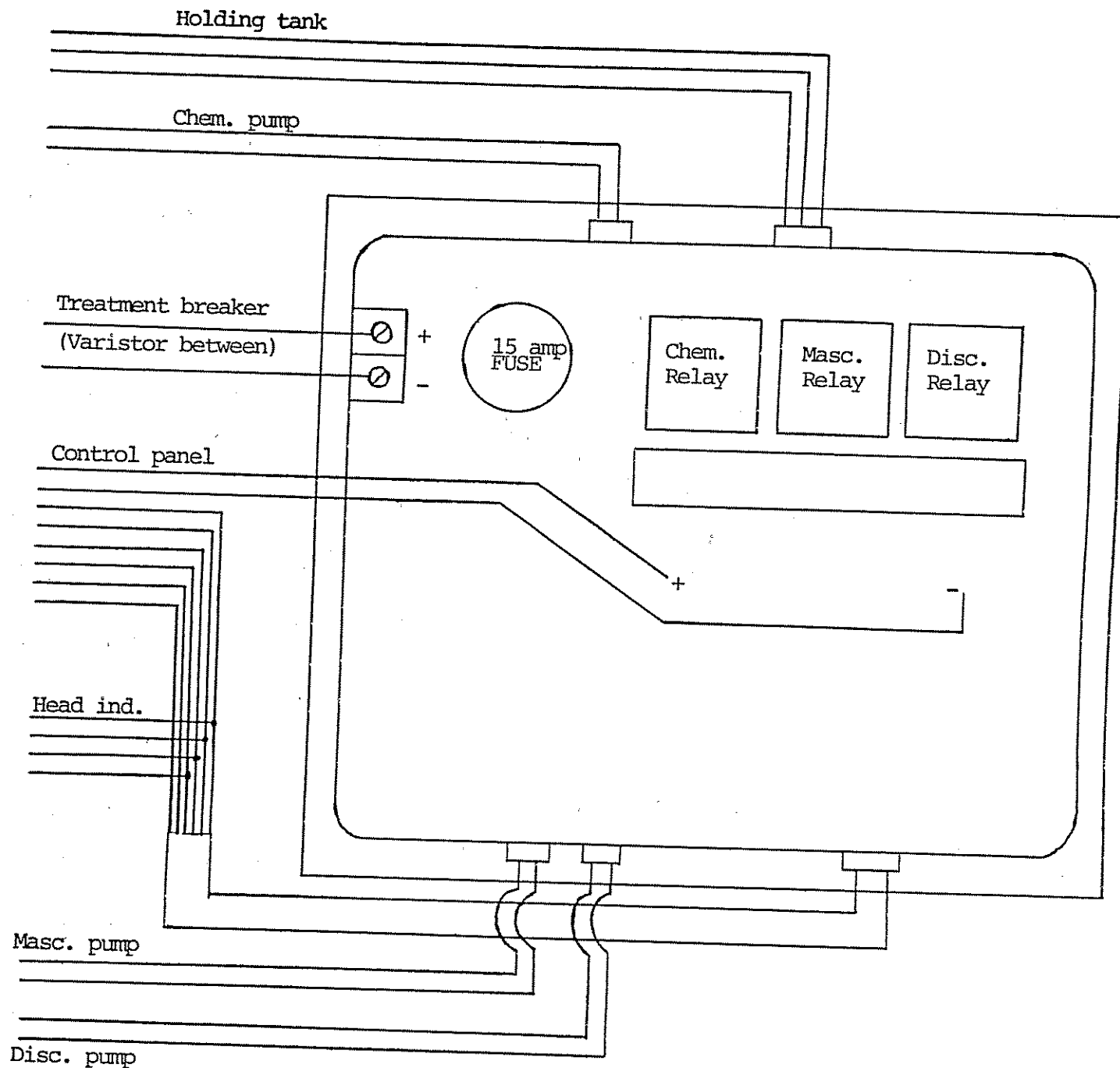
10 ga. Black

16 ga. Orange/black
16 ga. Brown/white
16 ga. White
16 ga. Green
16 ga. Orange
16 ga. Blue
16 ga. Red
16 ga. Black

16 ga. White
16 ga. Green
16 ga. Orange
16 ga. Blue

10 ga. Black
10 ga. Green

10 ga. Black
10 ga. Red



DRAWN BY

D. Alms

APPROV BY

RG 8/23/84

TITLE

TDX Module Wiring Diagram

MODEL

All

ECN NO.

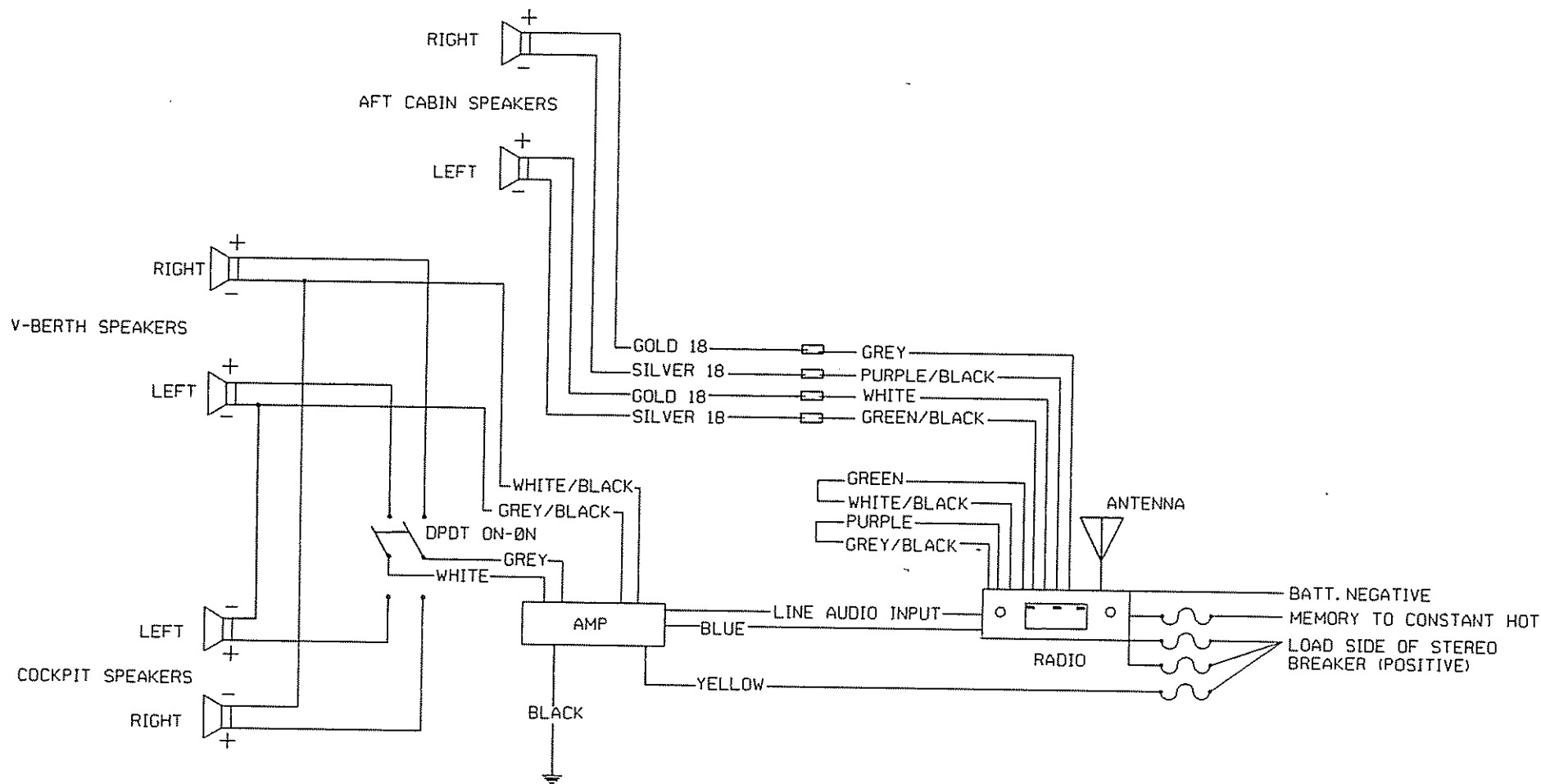
2399

REV NO.

3 14 AUG 84

DWG NO.

09-610



□ CONNECTION TO STEREO PIGTAILS

NOTES:

- 1) USE ONLY WITH SONY XR7050 & XM2020 AMP
- 2) CONNECT STEREO MEMORY WIRE TO CONSTANT HOT IN BILGE. FUSE GOES IN LINE WITHIN 7 IN. OF CONNECTION POINT
- 3) FADER SELECTOR SWITCH MUST BE IN THE 'PRE' POSITION

6524

C.A.D.D. DEPT.
 DRAWING
 NO MANUAL REVISIONS PERMITTED

Signature

Signature

USED ON: 350-390

USED ON: SPORT YACHTS

DATE: 7/22/2003

DRAWN BY: CCOBB

CHECKED BY: D.H.

APPROVED BY:

DATE:

TITLE:

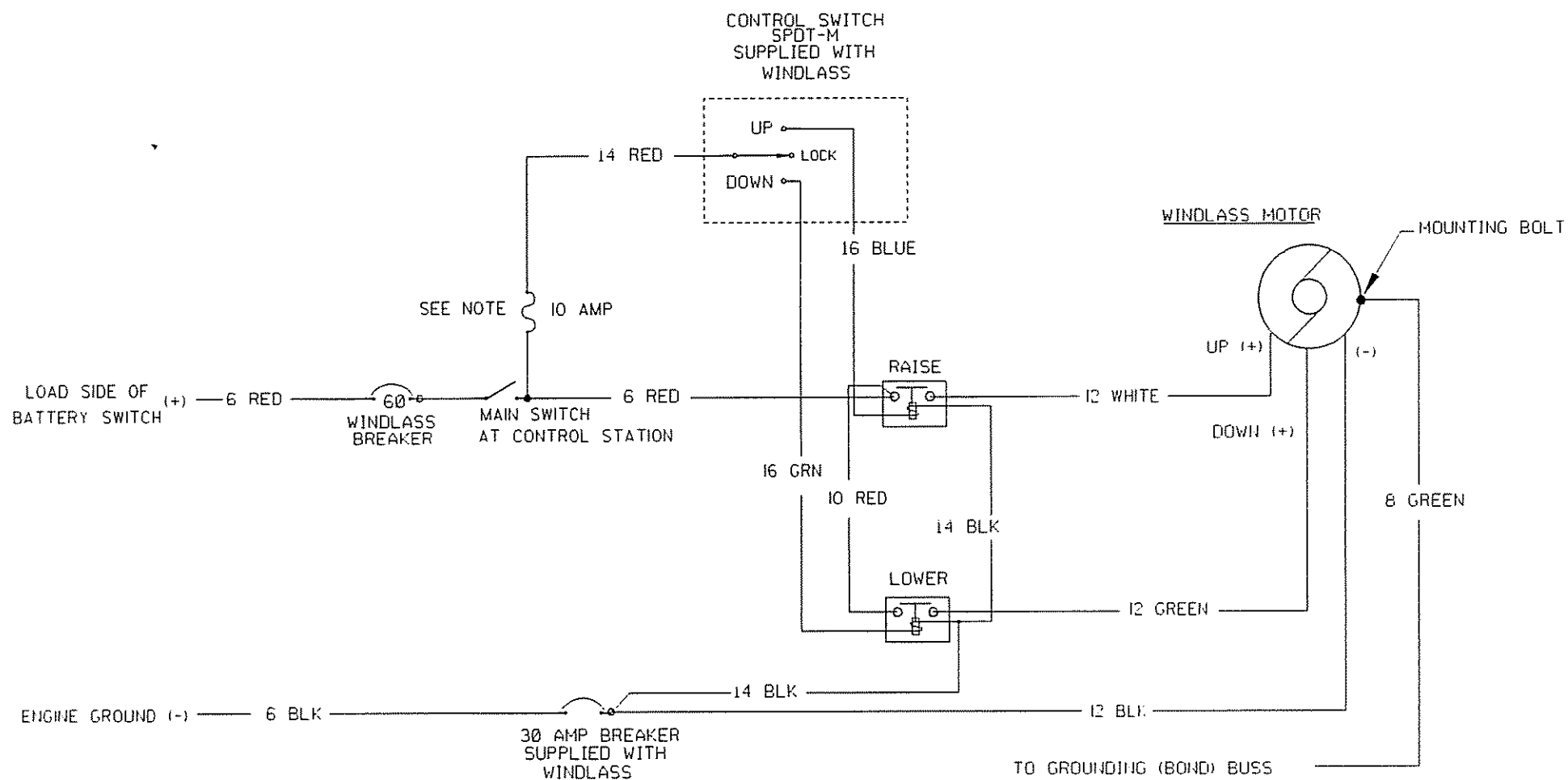
COCKPIT STEREO

(6 SPEAKERS)

SHEET - OF -

NO. 471

INLINE FUSE TO BE PLACED WITHIN 7' OF MAIN SWITCH

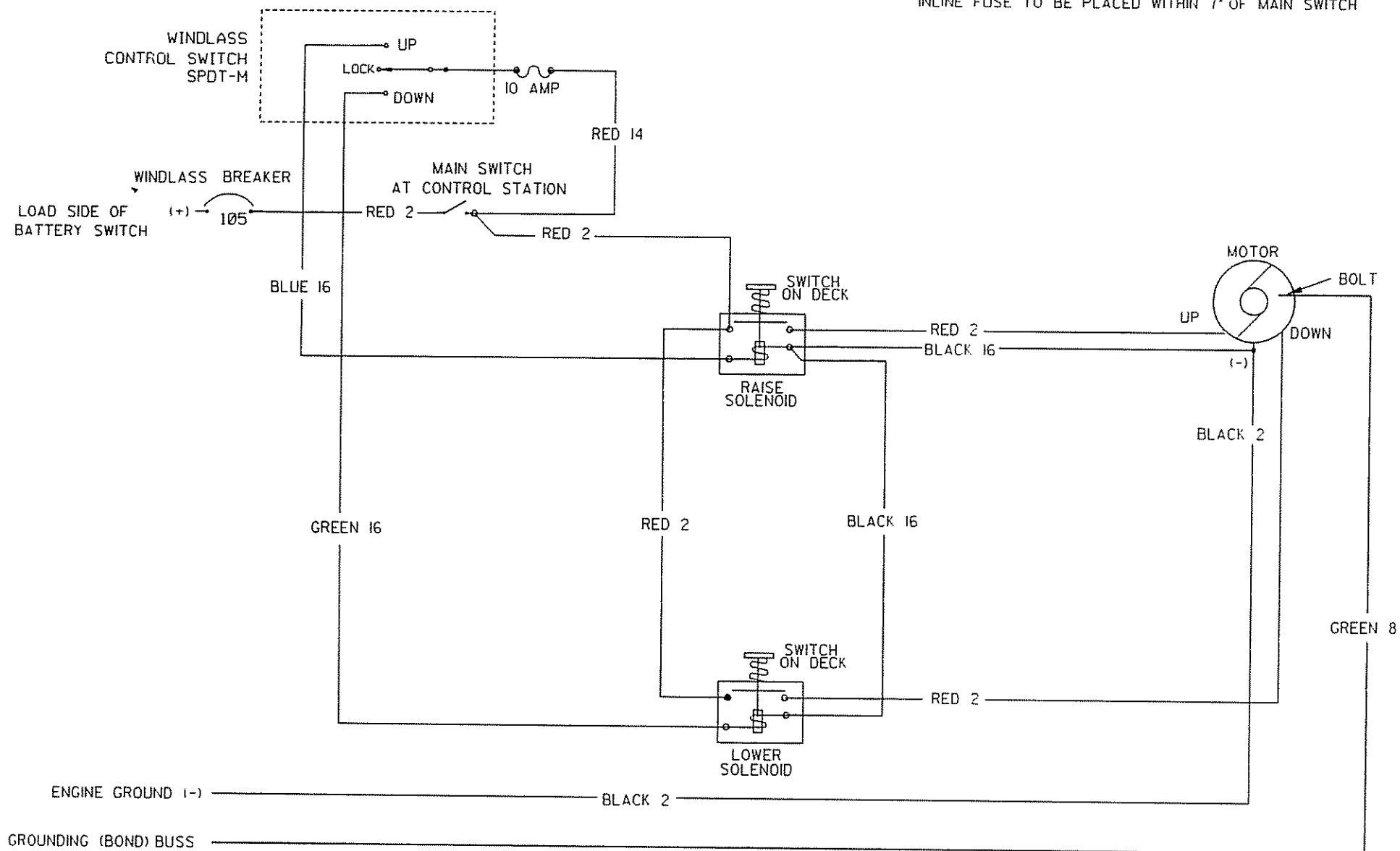


6893

 		SIMILAR TO: SIMILAR TO: CAD FILE: 7FA21200107SCHWINO.CGN		DRAWN BY: J.A. DOBBS CHECKED BY: APPROVED BY:  SCALE: (1/8"=1')	DATE: 12/1/98 TITLE: GOOD WINDLASS WIRING 12 V DRAWING NO. 09-613	SHEET _ OF _ TOTAL:
--	--	--	--	---	--	------------------------

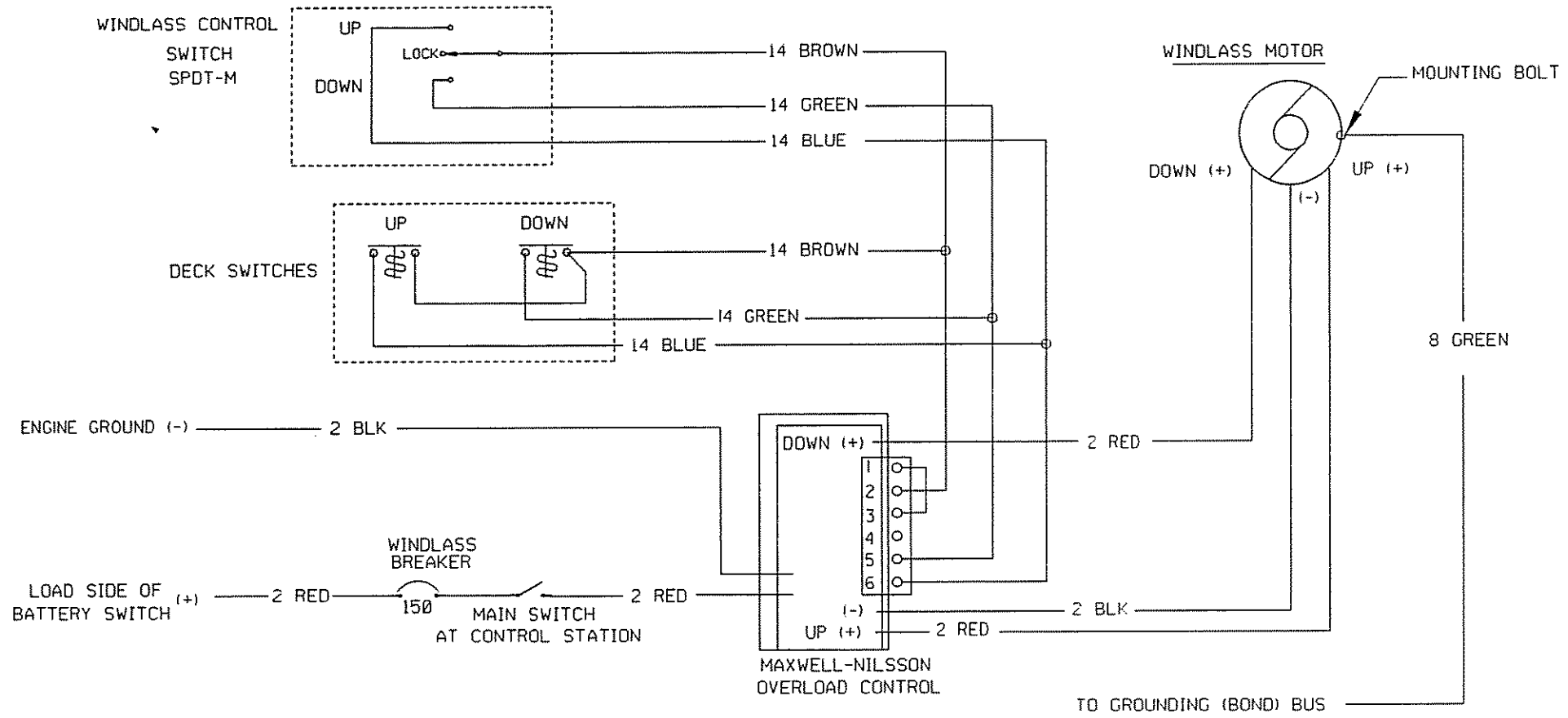
NOTE:

INLINE FUSE TO BE PLACED WITHIN 7' OF MAIN SWITCH

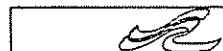


6893

	 PRODUCT DEVELOPMENT AND ENGINEERING	DRAWN BY: JK DOBBS	DATE: 12/7/92	TITLE: LOFRANS AIRON AND LEOPARD	SHEET -- OF --
		CHECKED BY: 	APPROVED BY: 	WINDLASS WIRING 12 V	
		SCALE: 11-20-90			DRAWING NO. 09-614
CAD FILE: ZFA2-[200]01SCHWIND.DGN					



6893

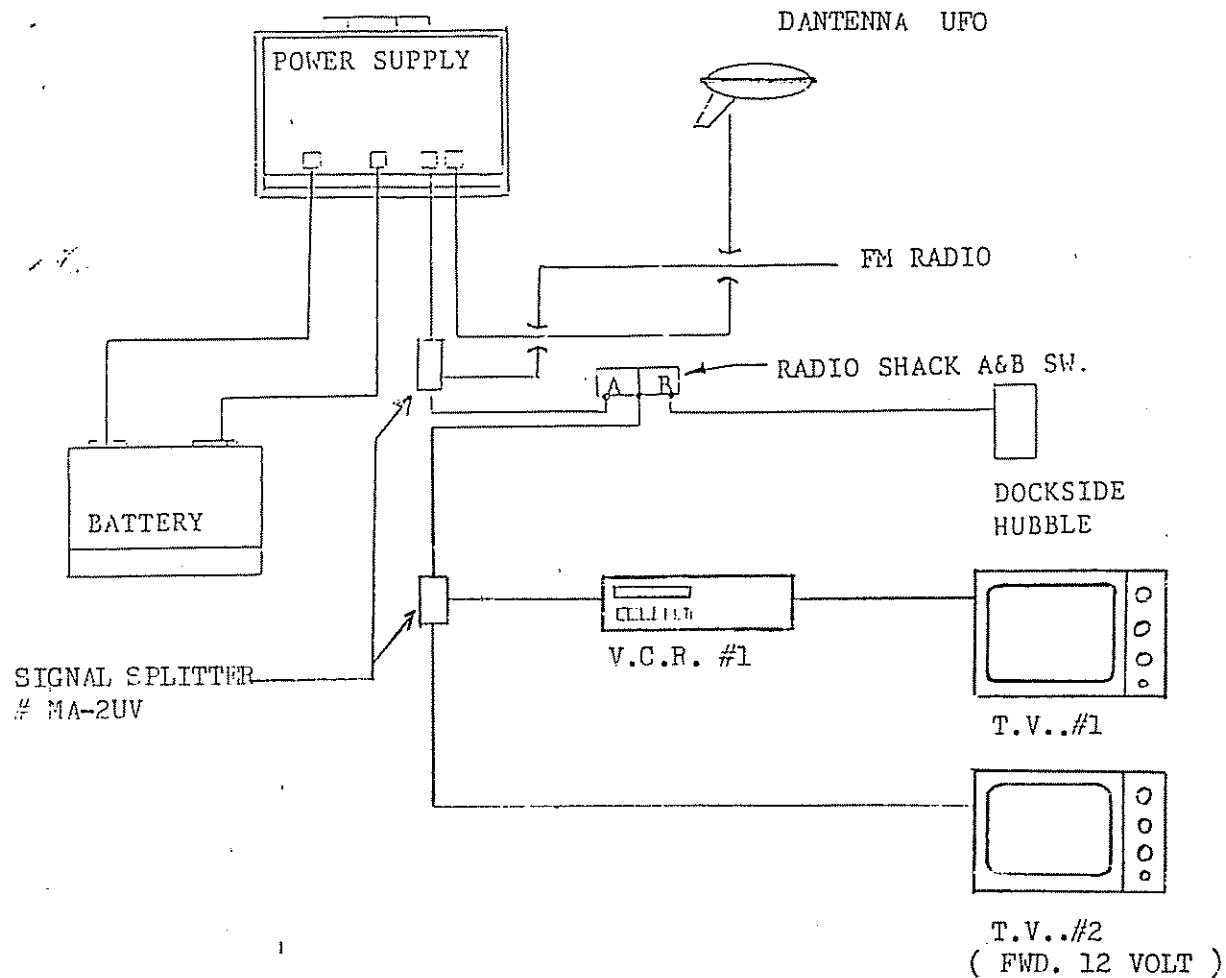


PRODUCT DEVELOPMENT AND ENGINEERING

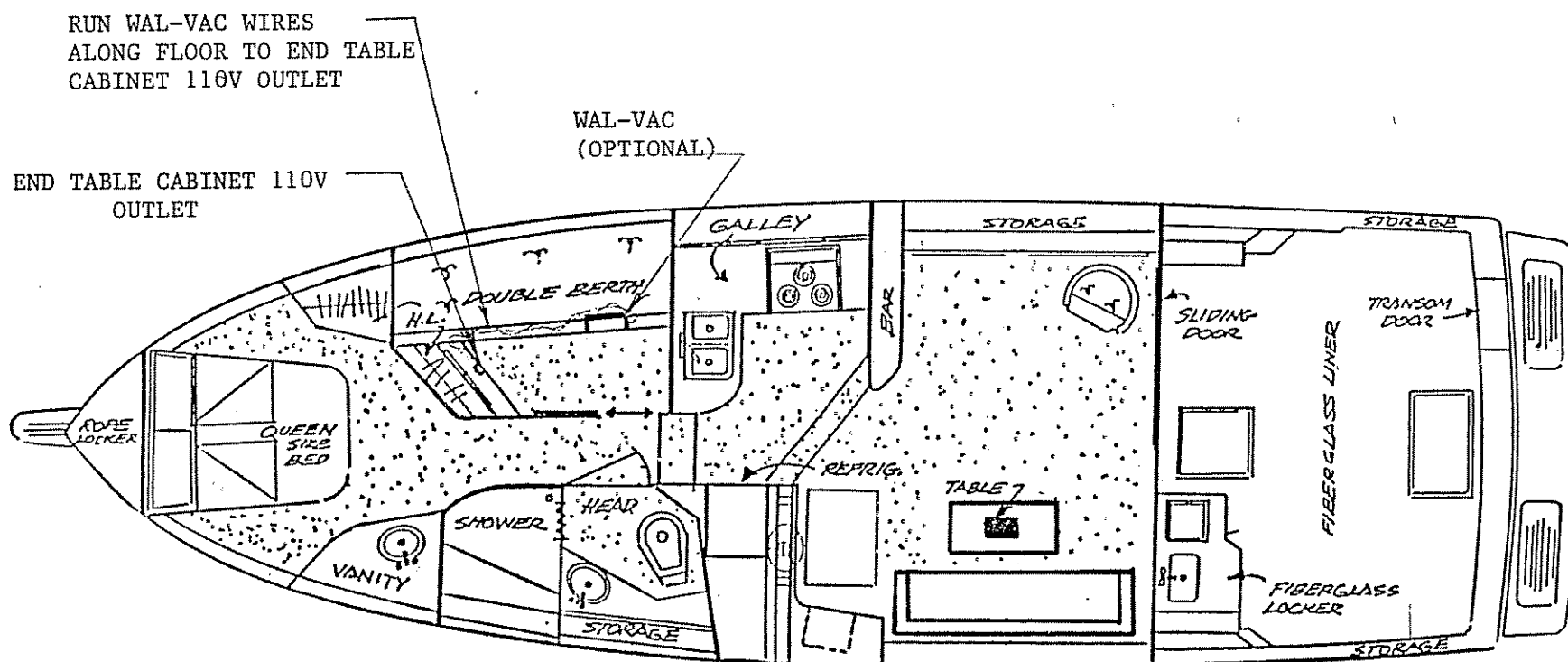
SIMILAR TO:
SIMILAR TO:
CADD FILE: ZFA21200J01SCHWIND.DGN

DRAWN BY: M. MORGAN	DATE: 12/17/90	TITLE: MAXWELL-NILSSON V0-700SR WINDLASS WIRING 12V	SHEET: 1 OF 1
CHECKED BY: [Signature]	DATE: 12/17/90		
APPROVED BY: [Signature]	DATE: 11/20/90	DRAWING NO. 09-615	REVISION:

SCHEMATIC



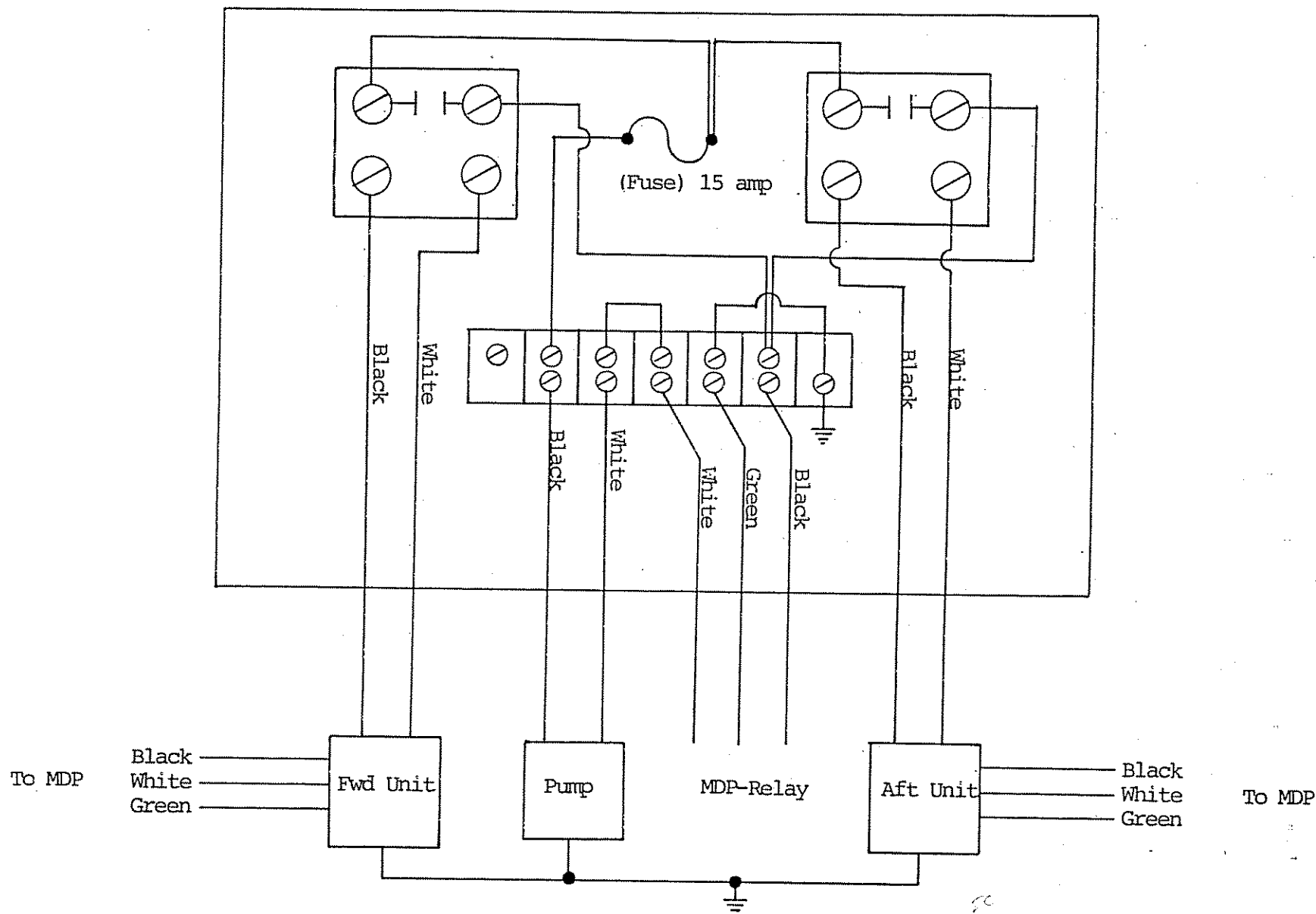
 PRODUCT DEVELOPMENT AND ENGINEERING	MODEL 390EC, 430CV, 460EC & CV	TITLE DANTENNA UFO INSTALLATION	
	MATERIAL AS SHOWN		LOCATION PALM COAST
	DATE 3-19-87	DRAWN BY A. MOLLEUR F.S.	APPROVED BY <i>[Signature]</i>
	DRAWING NO. 09-615	REVISION NO. 3 12-2-87	F.C.N. NO. 5484



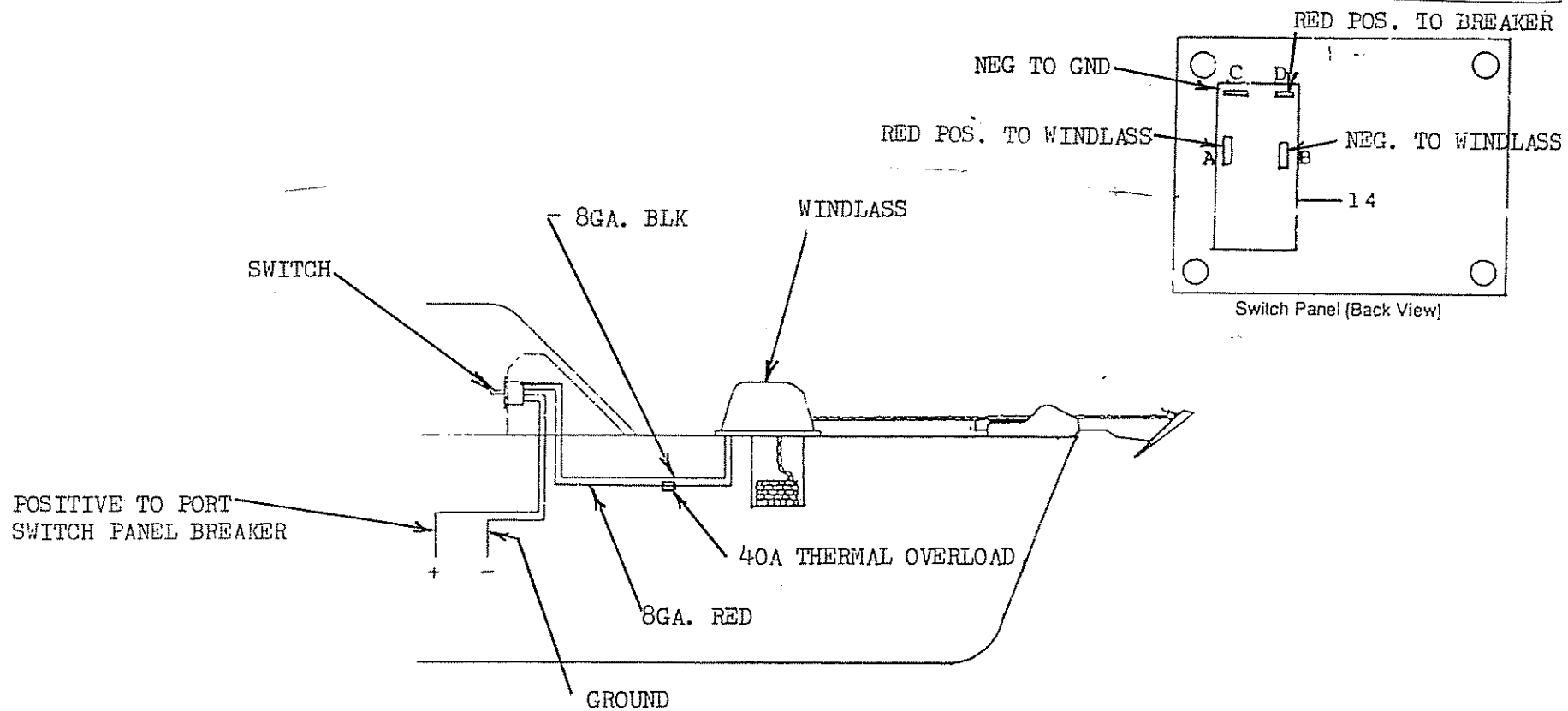
Sea Ray

PRODUCT DEVELOPMENT AND ENGINEERING

MODEL	390 SF	TITLE	OPTIONAL WAL-VAC UNIT WIRING	
MATERIAL			LOCATION PALM COAST	
DATE	10/13/85	DRAWN BY	RORY H.	APPROVED BY <i>RG</i> 10/17/85
DRAWING NO.	09-615	REVISION NO.	1	E.C.N. NO. 3072-Y



DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
D. Alms	RG 8/23/84	Marine Air Relay Wiring	360 AC 390 EC, SF	2399	3- 14 AUG 84	09-620



Sea Ray

PRODUCT DEVELOPMENT AND ENGINEERING

MODEL 390EC

MATERIAL AS SHOWN

DATE 2-5-85

DRAWING NO. 09-630

TITLE POWERWINCH WINDLASS WIRING

DRAWN BY D. ALMS *DT*

REVISION NO. 2 7-15-87

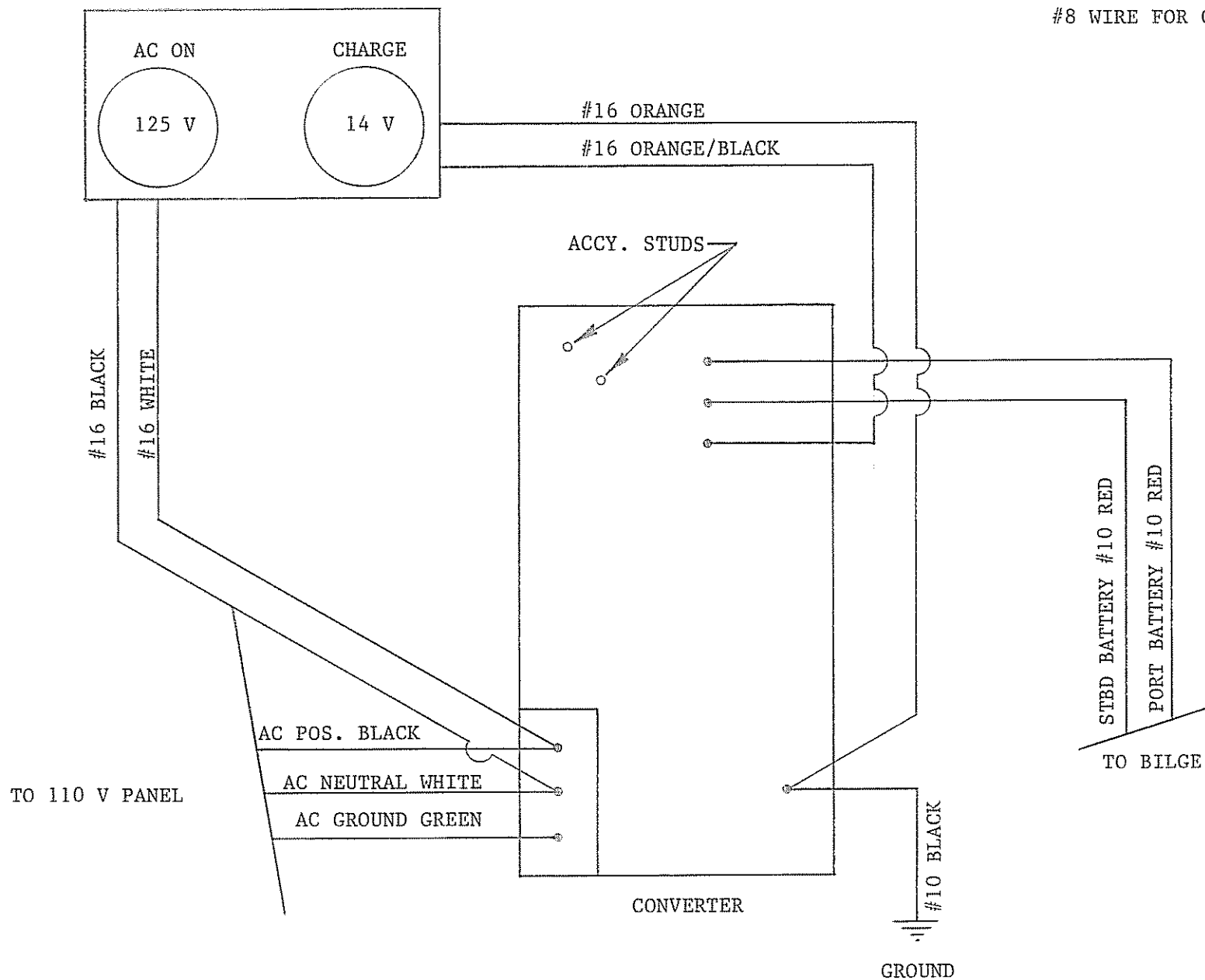
LOCATION PALM COAST

APPROVED BY *JK*

E.C.N. NO. 5273

CONVERTER INDICATOR PANEL

NOTE: 30 & 40 AMP CONVERTERS REQUIRE
#8 WIRE FOR CHARGE & GROUND LEADS



DRAWN BY
BRADY, BRIAN D.

APPROV BY
RG 8/23/84

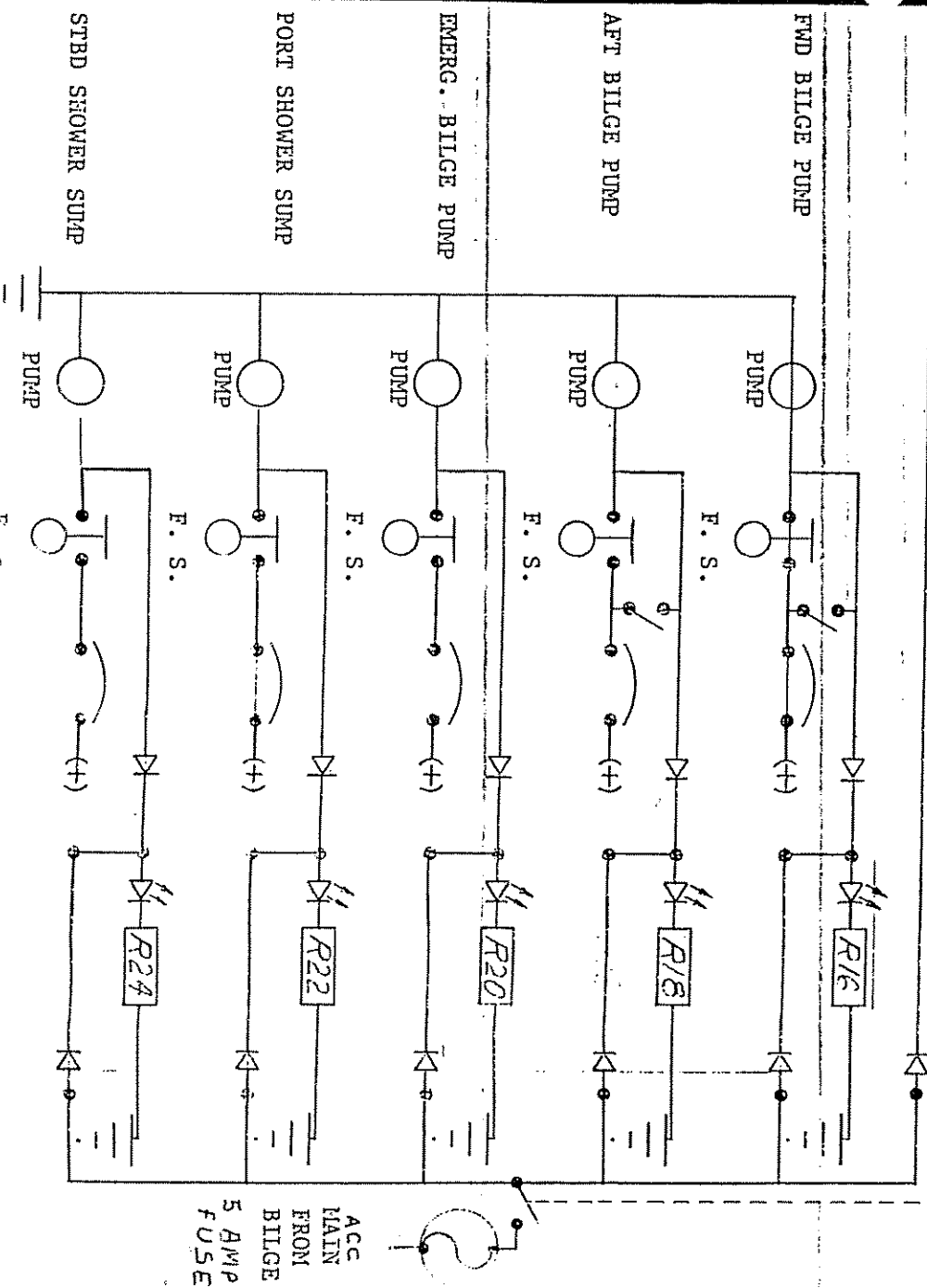
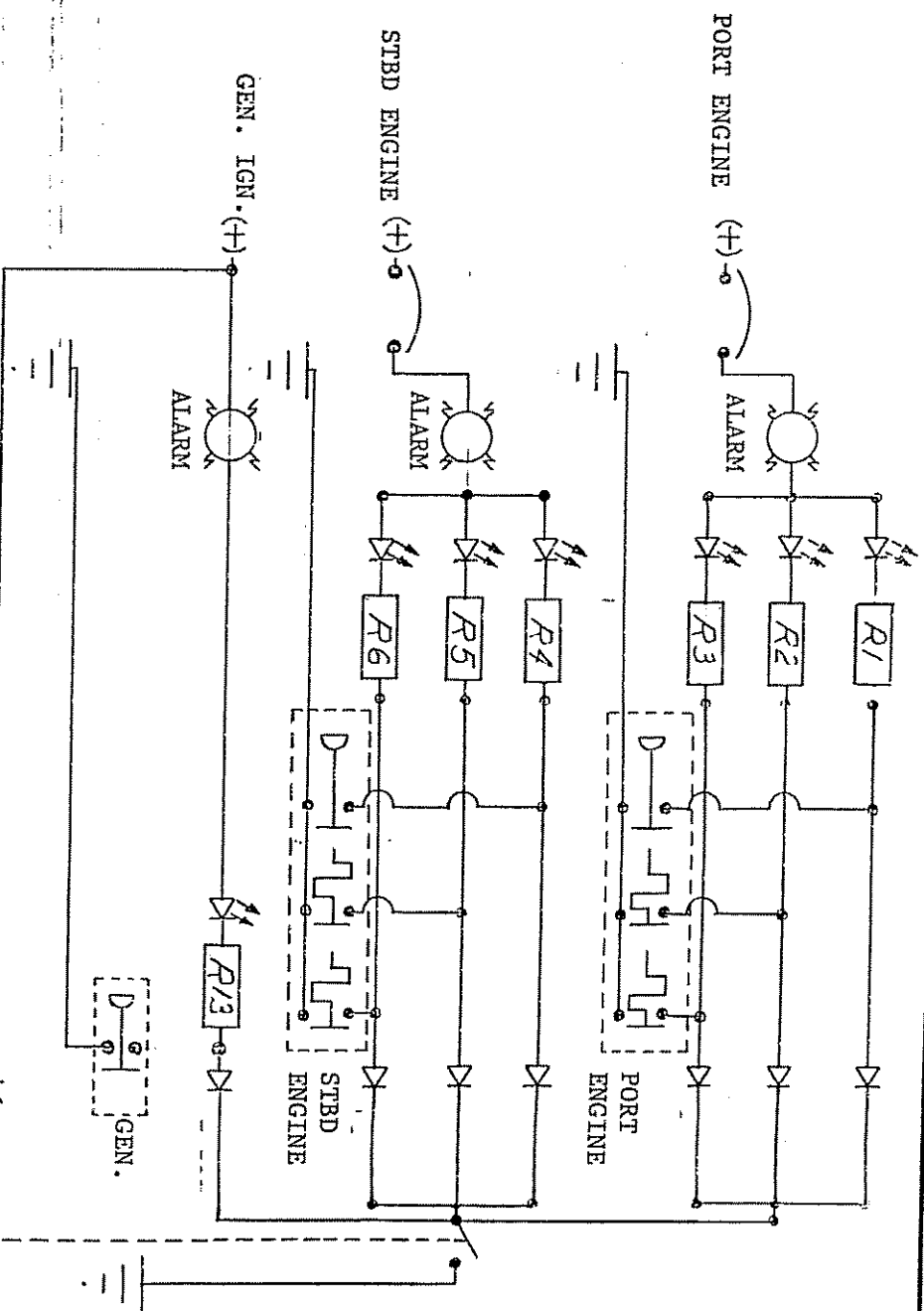
TITLE
PRO MARINER CONVERTER WIRING

MODEL
ALL

ECN NO.
2399

REV NO.
3

DWG NO.
09-632



WN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
Y, BRIAN D.	RG 5/4/85	SYSTEMS MONITOR SCHEMATIC	ALL "	2635	2	09-051

SYSTEMS MONITOR COLOR CODES

HARNESSES

PURPLE	STB. ENGINE IGN.
BLUE	STB. ENGINE OIL
BROWN	STB. ENGINE WATER
WHITE	STB. ENGINE TRANS. (AS REQUIRED)
PURPLE/RED	PORT ENGINE IGN.
BLUE/RED	PORT ENGINE OIL
BROWN/RED	PORT ENGINE WATER
WHITE/RED	PORT ENGINE TRANS. (AS REQUIRED)
RED	GEN. (+) FM REMOTE SWITCH
BLACK	GEN. (-) FM OIL PRESSURE SWITCH
PINK	EMERGENCY BILGE PUMP
YELLOW	FWD. BILGE PUMP
GREEN	AFT. BILGE PUMP
ORANGE	PORT OR FWD. SHOWER SUMP PUMP
ORANGE/BLACK	STB. OR AFT SHOWER SUMP PUMP

ADD:

16 AWG RED/VIOLET FOR TEST (+)
16 AWG BLACK FOR TEST (-)

DRAWN BY
M. MORGAN

APPROV BY
RG 5/14/85

TITLE
SYSTEMS MONITOR WIRE COLOR CODE

MODEL
ALL

ECN NO.
2635

REV NO.
1

DWG NO.
09-652

4.) ADD: 16 AWG RED (GEN. IGN.) FM MDP GEN. REMOVE SW TO MAIN HELM.

5.) CHANGE GEN. STOP SWITCH TO GEN. ON-OFF SWITCH. USE DPST SWITCH AND REFER TO DWG #09-351 AND #09-361 FOR WIRING DIAGRAM.

6.) WIRE SYSTEMS MONITOR PANEL WITH DIODES "IN-LINE" WITH LED'S REF. TO DWG. #09-651 FOR WIRING DIAGRAM. WIRE ACCORDING TO WIRE COLOR CODE FOR MONITOR. REF. DWG #09-652.

7.) ATTACH ALARM BUZZERS TO UNDER SIDE OF PANEL WITH CLEAR SILICONE CAULK.

8.) SOLDER AND SHRINK TUBE ALL CONNECTIONS AND DIODES

9.) AFTER MODULE IS COMPLETE, CONNECT TO TEST BOX AND TEST ALL FUNCTIONS. TROUBLE SHOOT AND REPAIR.

ELECTRICAL ASSEMBLY - 1.) INSTALL MONITOR SYSTEM BOAT WITH 4 ea. $\frac{1}{2}$ " #8 PAN HEAD SCREWS.

2.) WIRE BOAT WIRES TO TERMINAL STRIP

PIGTAIL LENGTHS FROM MONITOR TO TERMINAL STRIPS

460EC	6ft
390EC	8ft
360AC	12ft
340SDB	12ft
340SF	5ft
340SDA	10ft
340EC	10ft

DRAWN BY
M. MORGAN

APPROV BY
RG 5/14/85

TITLE
SYSTEMS MONITOR INSTALLATION INSTRUCTIONS

MODEL
ALL

ECN NO.
2635

REV NO.
1

DWG NO.
09-653

SYSTEMS MONITOR

MATERIALS NEEDED:

- 1 - DPST MOMENTARY SW (TEST)
- 1 - DPST ON-OFF SW (GEN. ON-OFF AT MDP)
- 12 - DIODES TYPE 1N4005
- 4 - PEIZ O ELECTRIC BUZZER 12 vdc
- 12 - HIGH INTENSITY LED'S 12 vdc RED
- 1 - N.C. OIL PRESSURE SW 6 psi 1/8" PIPE THREADED
FOR GEN. SET INDICATOR (#D-364-K STEWART-WARNER)
- 1 - PLATE SIZE 4 5/8" x 10 1/4" ENGRAVED BY ELECTRICAL PANEL SHOP AS PER BOAT REQUIREMENTS

INSTALLATION INSTRUCTIONS:

LAMINATION - MAKE CUT-OUT IN DASH FOR SYSTEMS MONITOR REF. DWG -- #06-306
460EC (CENTERED IN RECESSED AREA)

# 06-329	340SF	#12-520	390EC
# 06-355	340SDA		
# 06-125	340SDB		
# 06-320	360AC		

WOODSHOP - MAKE CUT-OUT IN STARBOARD COCKPIT SIDE PANEL REF. DWG #11-441
FOR 340EC

ENGINE STATION - 1.) PRIOR TO MAIN ENGINE INSTALLATION, DISCONNECT ALL ENGINE
ALARM WIRES (WATER TEMP., OIL PRESSURE, & TRANSMISSION
TEMP. WHEN NEEDED)

NOTE: DO NOT DISCONNECT THE WIRES FOR DASH GAUGES.

- 2.) REPLACE WITH INDIVIDUAL WIRES FOR EACH SENDER -
- 16 AWG BLUE FOR OIL PRESSURE
- 16 AWG BROWN FOR WATER TEMP.
- 16 AWG WHITE FOR TRANS. TEMP.
- 3.) ROUTE WIRES UP TO HARNESS PLUG TAPING WHERE POSSIBLE AND
TYWRAPPING WHERE NECESSARY. LEAVE APPROXIMATELY 2 FEET
IN ACCESS BEYOND PLUG.
- 4.) PRIOR TO GEN. SET INSTALLATION, INSTALL ADDITIONAL OIL
PRESSURE SW (TYPE #D-364-K STEWART-WARNER) IN ENGINE
BLOCK.
- 5.) WIRE OIL PRESSURE SWITCH WITH 16 AWG BLUE MARK "SYSTEM
MONITOR". ROUTE WIRE INTO GEN. SET CONTROL BOX TAPING
WHERE POSSIBLE AND TYWRAPPING WHERE NECESSARY.

ELECTRICAL FABRICATION - 1.) ENGRAVE PANEL AS MARKED PER BOAT REQUIREMENTS

- 2.) ADD: 16 AWG BLUE (OIL PRESSURE)
16 AWG BROWN (WATER TEMP.)
16 AWG WHITE (TRANS. TEMP.)

TO ENGINE HARNESS FROM BILGE TO MAIN HELM.

- 3.) ADD: 16 AWG BLUE (GEN. OIL) TO GEN. HARNESS FROM
BILGE TO MAIN HELM.

DRAWN BY
M. MORGAN

APPROV BY
RG 5/14/85

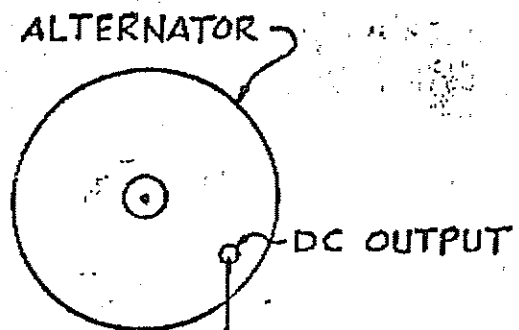
TITLE
SYSTEMS MONITOR INSTALLATION INSTRUCTION

MODEL
ALL

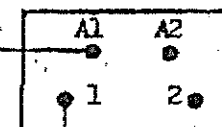
ECN NO.
2635

REV NO.
1

DWG NO.
09-653

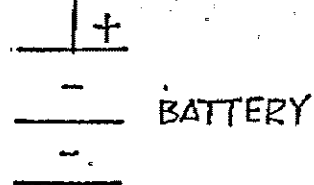


8g RED



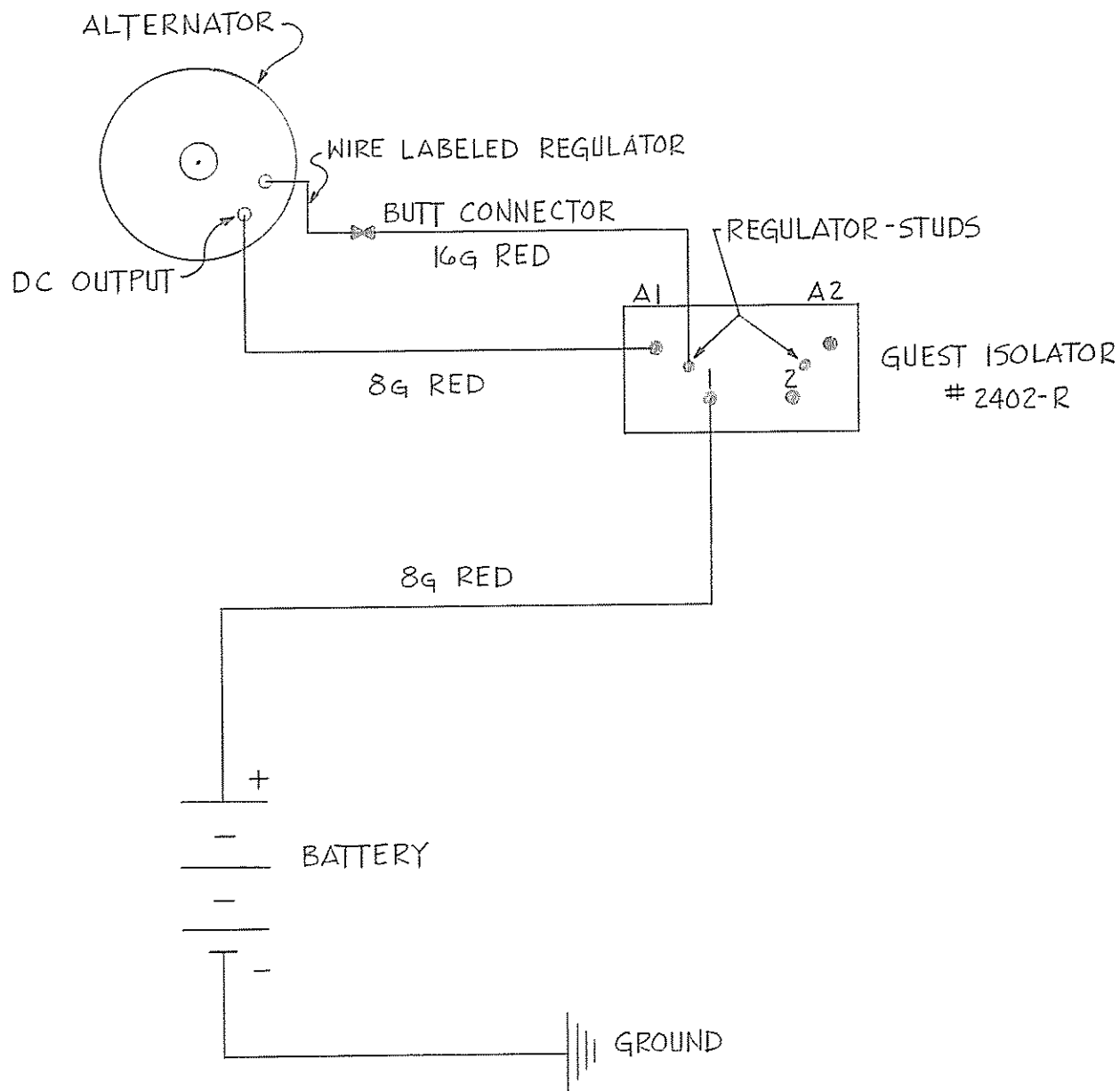
QUEST ISOLATOR
2402

8g RED

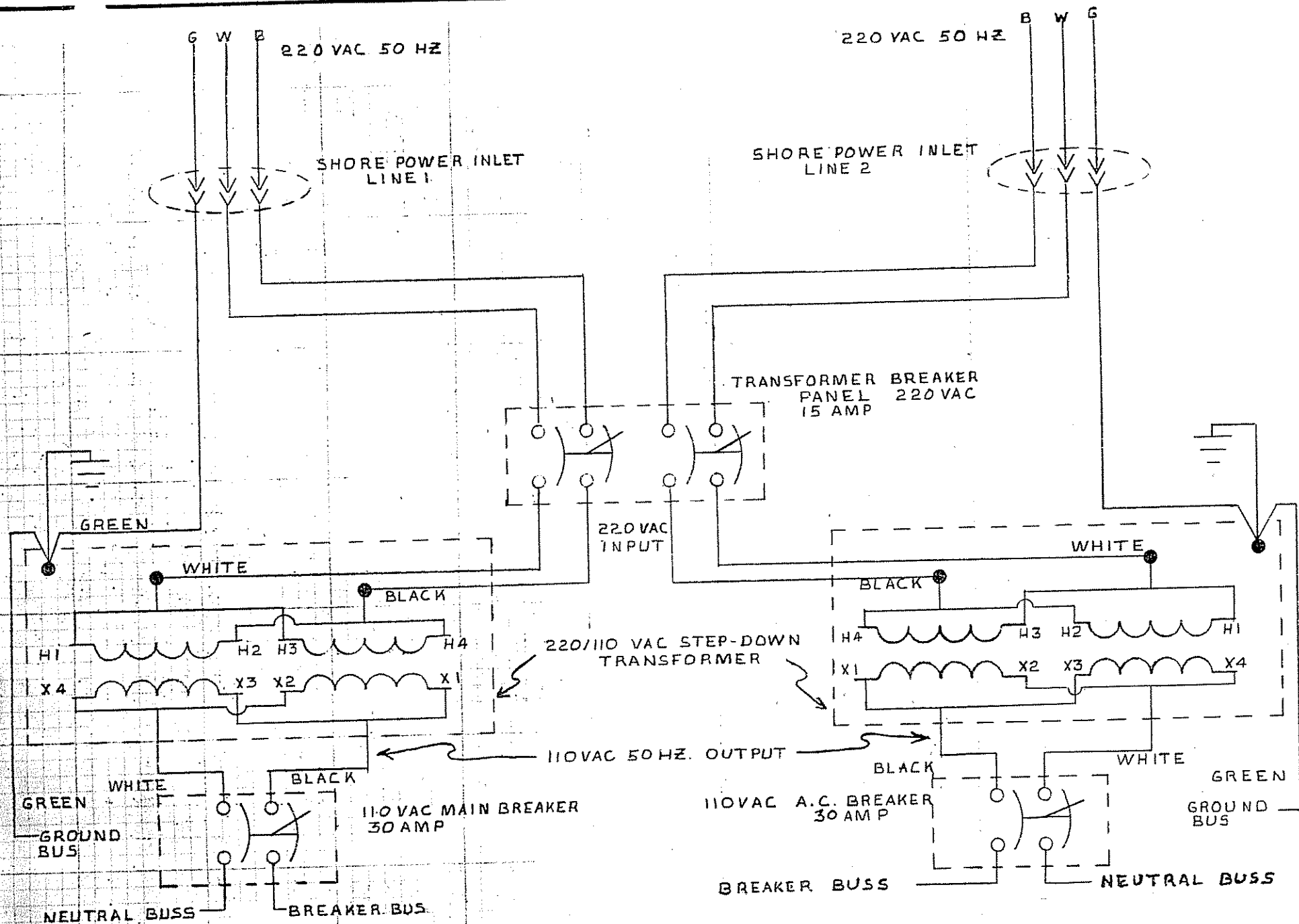


GROUND

DRAWN BY T. D. L. 1/17/84	APPROV BY <i>R</i> 5/6/86	TITLE CROSSOVER CHARGE (STD.) CAT ENGINES	MODEL 390 EC	ECN NO. 3346-Y	REV NO. ② 2/26/86	DWG NO. 09-750
------------------------------	------------------------------	---	-----------------	-------------------	----------------------	-------------------



DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
T.D.L. 1/17/84	<i>[Signature]</i> 1-17-84	CROSSOVER CHARGE (STD.) S.S, CRUS. & PERKINS ENGINES	ALL	2104	1 1/17/84	09-751



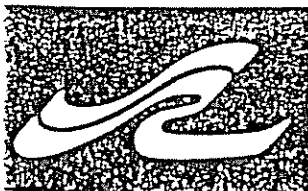
DRAWN BY M. MORGAN	APPROV BY RG 7/10/84	TITLE EUROPEAN SHORE POWER WIRING DIAGRAM	MODEL 360 A.C. 390 EC, SF	ECN NO. 2298	REV NO. 3 7/9/84	DWG NO. 09-760
-----------------------	-------------------------	--	---------------------------------	-----------------	---------------------	-------------------

BOAT	ENGINE TYPE	LOWER STATION				
		PT	ST	PS	SS	
390 EC	ALL GAS ENGINES	26	20	22	17	
	CATERPILLAR	17	12	24	19	
460 EC	S&S	26	20	28	24	ST (GLENDINNING OPTION)
	CAT. 3208	20	14	26	22	17
440CV	ALL GAS ENGINES					(GLENDINNING OPTION)
	CATERPILLAR					PT PTD STD 8' 6' 8' 5' 7' 9'

CABLES MARKED ON BOTH ENDS.

BOOT TAPE DENOTES PORT, BLACK TAPE DENOTES THROTTLE.

INCH MEASUREMENTS ON CABLE GO TO ENGINE SIDE.



SEA RAY®
PRODUCT DEVELOPMENT
AND ENGINEERING

TITLE CONTROL CABLE LISTING		
MODEL 390EC,460EC,440CV	DRAWN BY G.K.	REVISION NO. 5 8-10-88
DATE 8-10-88	CHECKED BY <i>[Signature]</i>	ECN NO. 5001
SCALE	APPROVED BY <i>[Signature]</i>	DRAWING NO. 09-802

CONTROL BOX SETTINGS

<u>ENGINE TYPE</u>	<u>PORT SHIFT</u>	<u>STBD. SHIFT</u>	<u>PORT THROTTLE</u>	<u>STBD. THROTTLE</u>
MERCURY	AFT	AFT	FWD.	FWD.
CRUSADER	AFT	AFT	FWD.	FWD.
CATERPILLAR	FWD.	AFT	AFT	AFT
PERKINS	FWD.	FWD.	AFT	AFT
PERKINS 325HP	FWD.	AFT	AFT	AFT
S.S. 240HP	AFT	FWD.	AFT	AFT
D.D.S.S.	FWD.	AFT	AFT	AFT

DRAWN BY

D. Alms

APPROV BY

RG 8/23/84

TITLE

Morse Control Box Settings A304002

MODEL

All

ECN NO.

2399

REV NO.

L 14 AUG
84

DWG NO.

09-803

WIRE COLOR CODES

16 ga.

Red - power, monitor, holding tank indicator power
Red/violet - stereo power, hot stop circuit, emergency start
Orange - wipers
Pink - alarms, fuel sends
Yellow - blowers, vents
Yellow/red - engine start circuit
Green - level indicator
Blue - light circuits
Brown - pumps manual hot
Brown/red - pumps constant hot
Brown/white - water pump
Gray - running lights, stern, fwd. mast
Gray/white - aft mast
Purple - ignition
White - high water alarm send, level indicator, chem. pump
Black - grounds

10 ga.

Red - power, non-breakered hot
Red/violet - power, breakered hot
Black - grounds

8 ga.

Red - power, non-breakered hot, secondary circuits
Red/violet - main circuits, breakered hot
Green - bonds
Black - grounds

DRAWN BY D. ALMS	APPROV BY	TITLE WIRE COLOR CODES	MODEL ALL	ECN NO.	REV NO. 1 7/9/84	DWG NO. 09-805
---------------------	-----------	---------------------------	--------------	---------	---------------------	-------------------

12v. MAIN DIST. PANEL

FWD LIGHTS	20 amp.
AFT LIGHTS	15 amp.
REFRIG.	15 amp.
WATER	15 amp.
MAN. HEAD*	5 amp.
VACU FLUSH*	15 amp.
ELECT. HEAD*	25 amp.
TREATMENT*	15 amp.
HEAD VENT*	10 amp.
GALLEY VENT*	10 amp.
STEREO*	10 amp.
ACCY.*	15 amp.

BILGE ACCY. BREAKER BOX

AFT PUMP	15 amp.
FWD PUMP	15 amp.
ELECT. CIR.*	50 amp.
ACCY.	50 amp.
EMER. PUMP	15 amp.

110vac. MAIN DIST. PANEL

MAIN BREAKER	30 amp.
AFT AIR COND.*	30 amp.
PUMP RELAY*	10 amp.
OUT/CONV.	15 amp.
STOVE	20 amp.
MICROWAVE*	15 amp.
MAIN BREAKER	30 amp.
FWD AIR COND.*	20 amp.
HOT WATER	15 amp.
OUT/STEREO	15 amp.
REFRIG.	15 amp.
ICEMAKER*	10 amp.

BILGE ACCY. BREAKER BOX

BATT. COND.	10 amp.
BATT. COND.	10 amp.
SHOWER PUMP	10 amp.
ACCY.	50 amp.

PORT-12v. SWITCH PANEL

IGNITION	10 amp.
BLOWER	10 amp.
BLOWER	10 amp.
IGNITION	10 amp.
WINDLASS*	30 amp.
SPOTLIGHT*	15 amp.
FUME DETECTOR*	5 amp.
TRIM TABS*	20 amp.

STBD. 12v. SWITCH PANEL

COCKPIT LIGHTS	10 amp.
BILGE LIGHTS*	10 amp.
NAV. LIGHTS	10 amp.
ACCY.	15 amp.
SPOILER LTS.	5 amp.
WIPER* 1	10 amp.
WIPER* 2	20 amp.
AIR HORN*	15 amp.
DOCKING LTS.	20 amp. (Accy.)

DIESEL HALON* 5 amp.

DRAWN BY

D. Alms

APPROV BY

TITLE

390 EC Breaker Sizes

MODEL

390 EC

ECN NO.

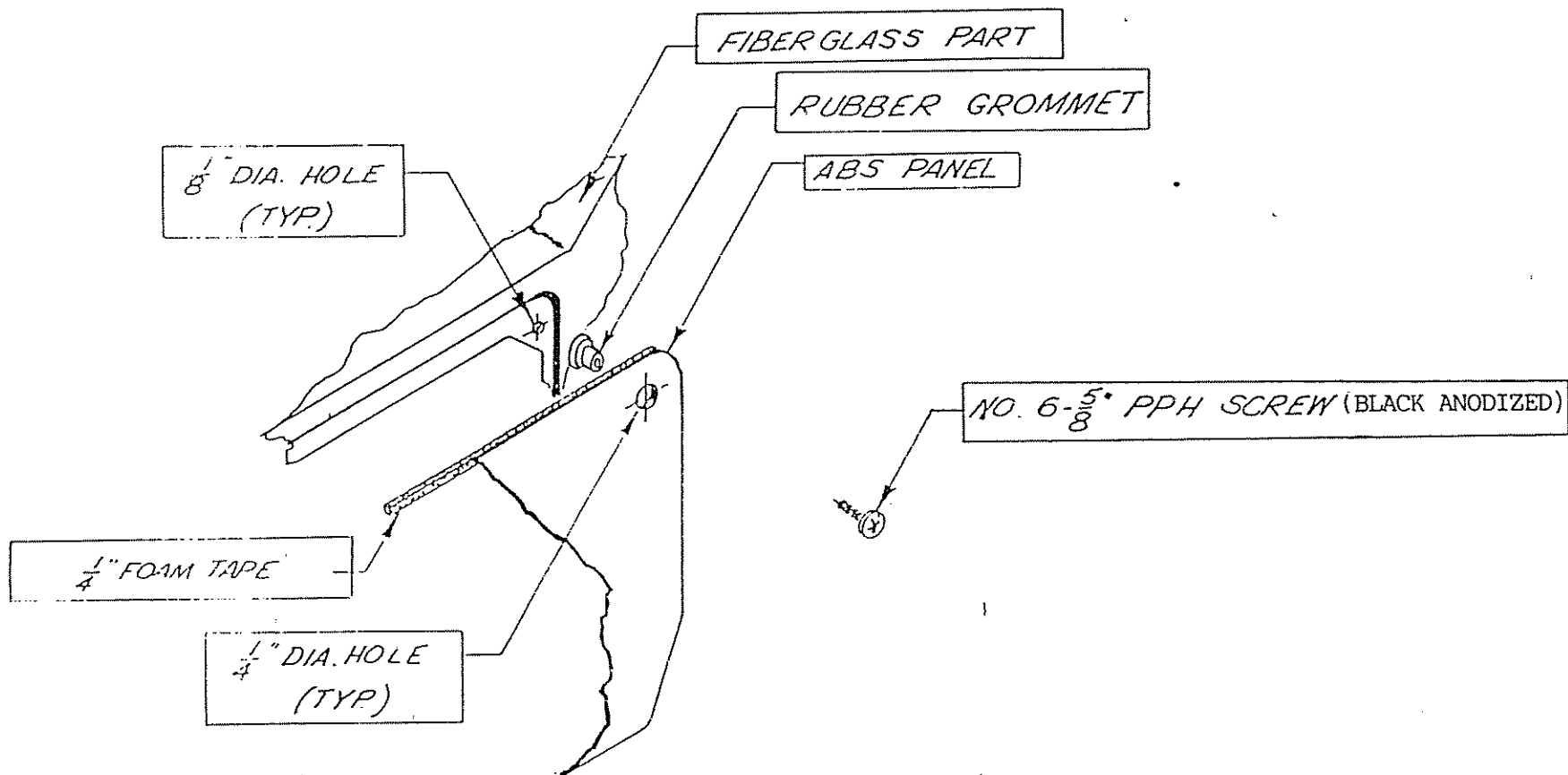
3886

REV NO.

2-9-87

DWG NO.

09-806



PRELIMINARY COPY ONLY



SEA RAY®

PRODUCT DEVELOPMENT
AND ENGINEERING

TITLE TYPICAL ABS PANEL INSTALLATION

MODEL 390EC, 440CV, 420DA

DRAWN BY J.T.

REVISION NO. 3 8/8/89 B.W.

DATE 4/3/85

CHECKED BY *J.K.*

ECN NO. 6514

SCALE N.A.

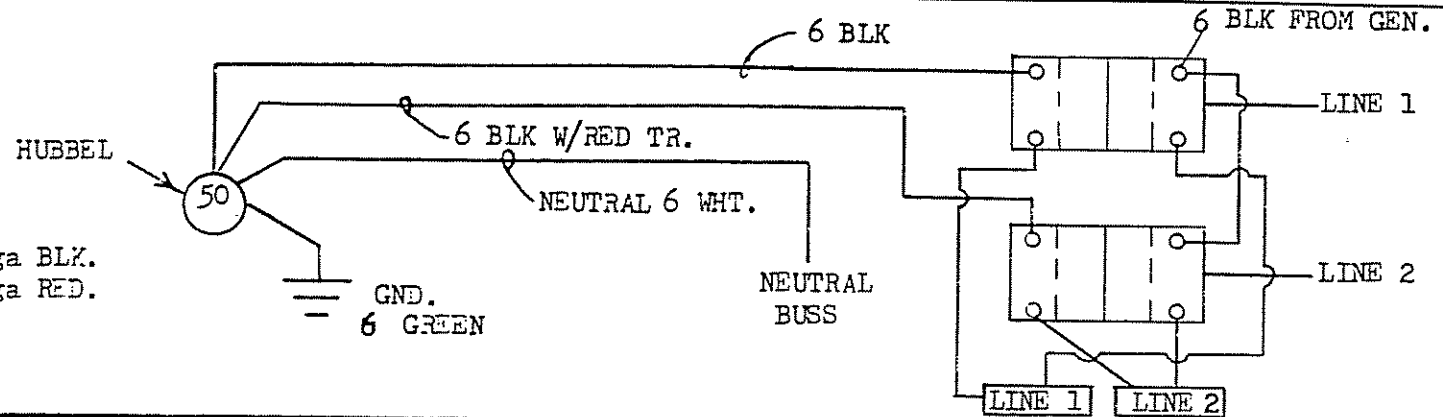
APPROVED BY

DRAWING NO. 09-901

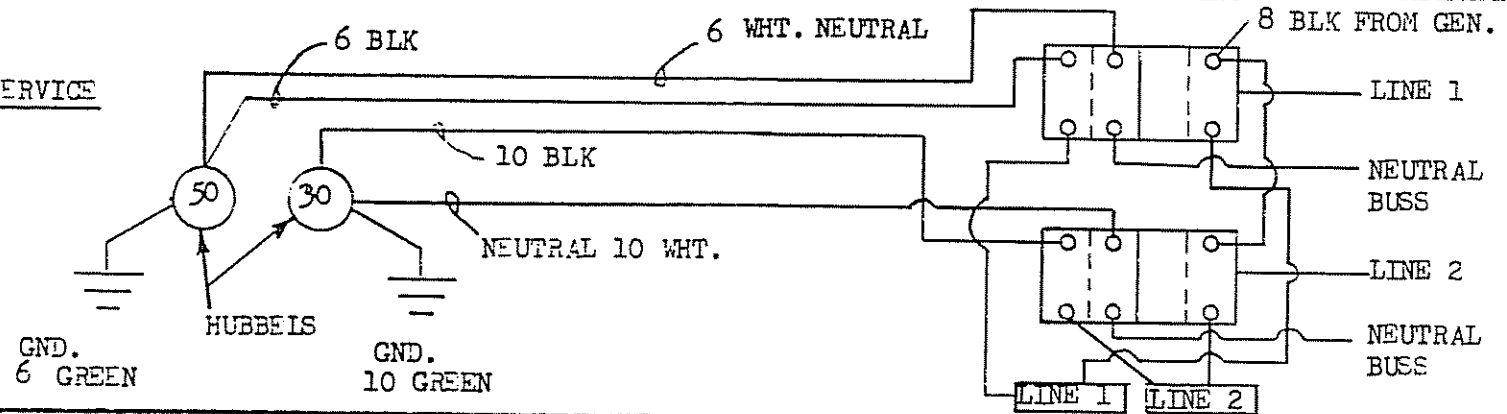
50 AMP SERVICE

NOTE: ON ALL SERVICES;

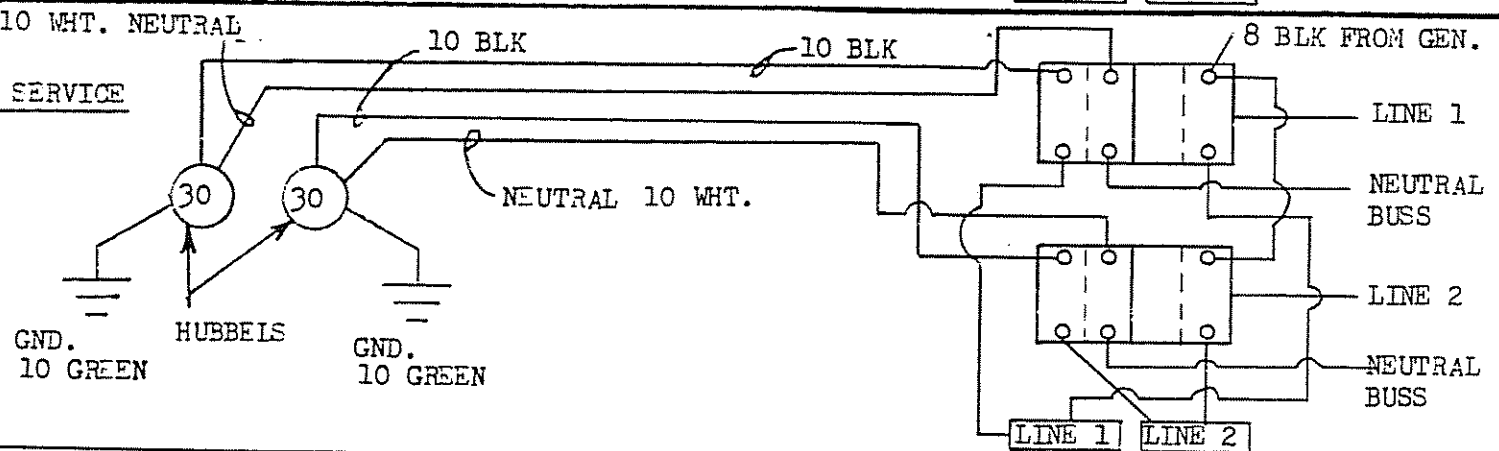
BREAKER WIRES TO LINE 1 ARE 8ga BLK.
BREAKER WIRES TO LINE 2 ARE 8ga RED.



30/50 AMP SERVICE



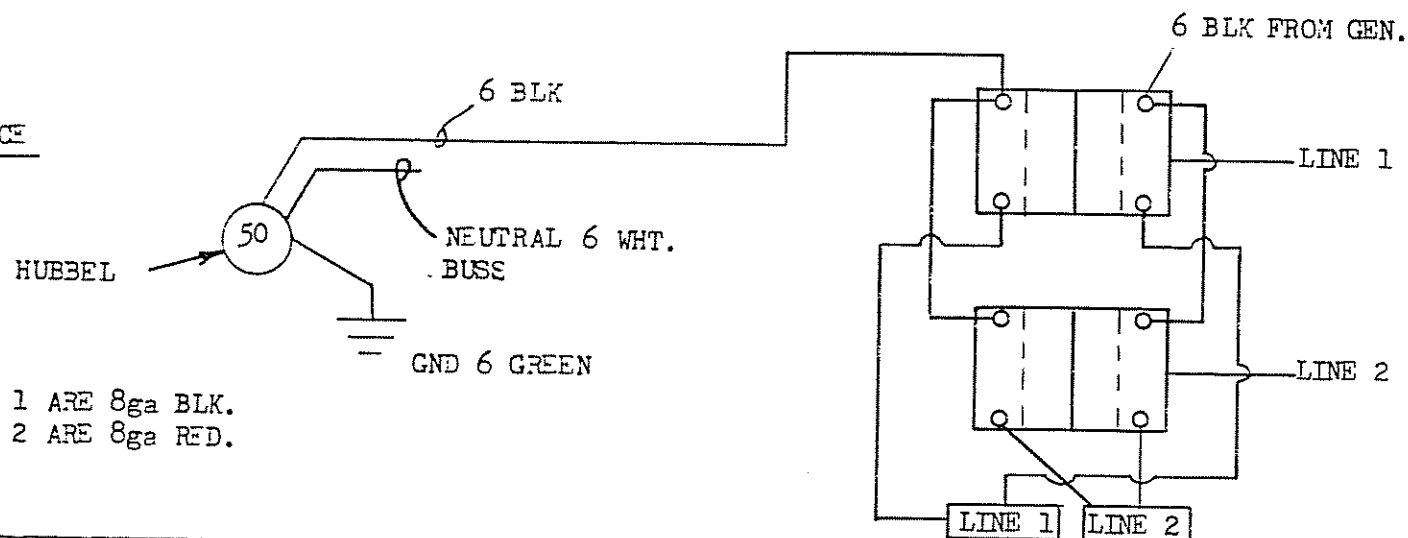
DUAL 30 AMP SERVICE



SEA RAY®
PRODUCT DEVELOPMENT
AND ENGINEERING

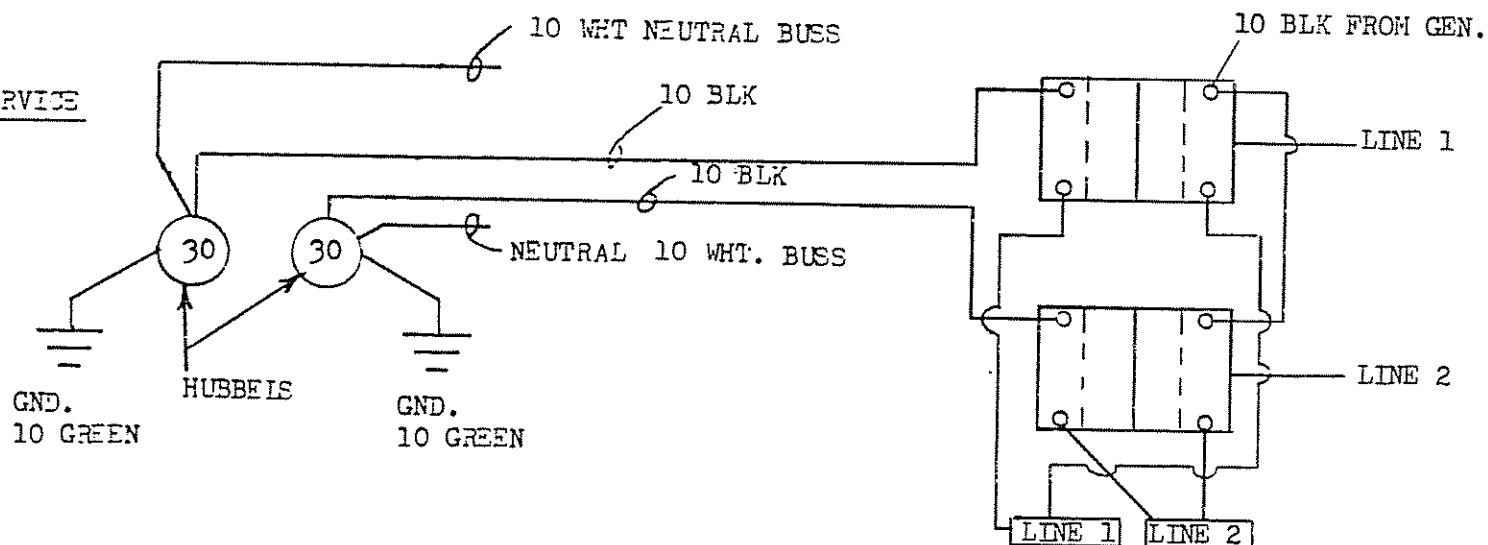
TITLE SHORE POWER WIRING DIAGRAMS 110/220 SERVICE (1 of 3)			
MODEL 390EC, 420DA, 440CV, 460EC	DRAWN BY G.K.	REVISION NO. 0 10-27-88	
DATE 10-27-88	CHECKED BY <i>[Signature]</i>	ECN NO. 5843	
SCALE	APPROVED BY <i>[Signature]</i>	DRAWING NO. 09-999(1 of 3)	

50 AMP SERVICE
440CV/460EC



NOTE: ON ALL SERVICES;
BREAKER WIRES TO LINE 1 ARE 8ga BLK.
BREAKER WIRES TO LINE 2 ARE 8ga RED.

DUAL 15 AMP SERVICE
390EC



SEA RAY®

PRODUCT DEVELOPMENT
AND ENGINEERING

TITLE SHORE POWER WIRING DIAGRAM (EUROPEAN POWER) (2 of 3)

MODEL 390EC, 420DA, 440CV, 460EC

DATE 10-27-88

SCALE

DRAWN BY G.K.

CHECKED BY

APPROVED BY

REVISION NO. 10-27-88

ECN NO. 5643

DRAWING NO. 09-999 (2 of 3)

THIS DRAWING IS THE
PROPERTY OF SCA RAY
SYSTEMS, INC. AND IS NOT
TO BE REPRODUCED OR
TRANSMITTED IN ANY FORM
OR BY ANY MEANS, ELECTRONIC
OR MECHANICAL, INCLUDING
PHOTOCOPYING, RECORDING, OR
BY ANY INFORMATION STORAGE
AND RETRIEVAL SYSTEM, WITHOUT
THE WRITTEN PERMISSION OF SCA RAY
SYSTEMS, INC.

PROPRIETARY RIGHTS

OF SCA RAY SYSTEMS, INC. PRODUCT DEVELOPMENT AND ENGINEERING DEPARTMENT.
ALL RIGHTS ARE RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED OR TRANSMITTED
IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING,
RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE
WRITTEN PERMISSION OF SCA RAY SYSTEMS, INC.

REVISION NO.

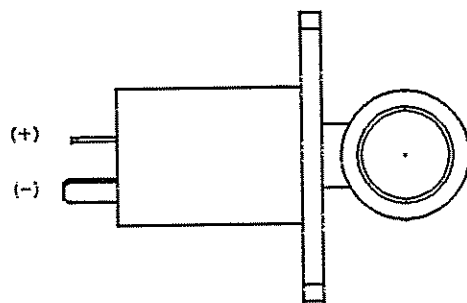
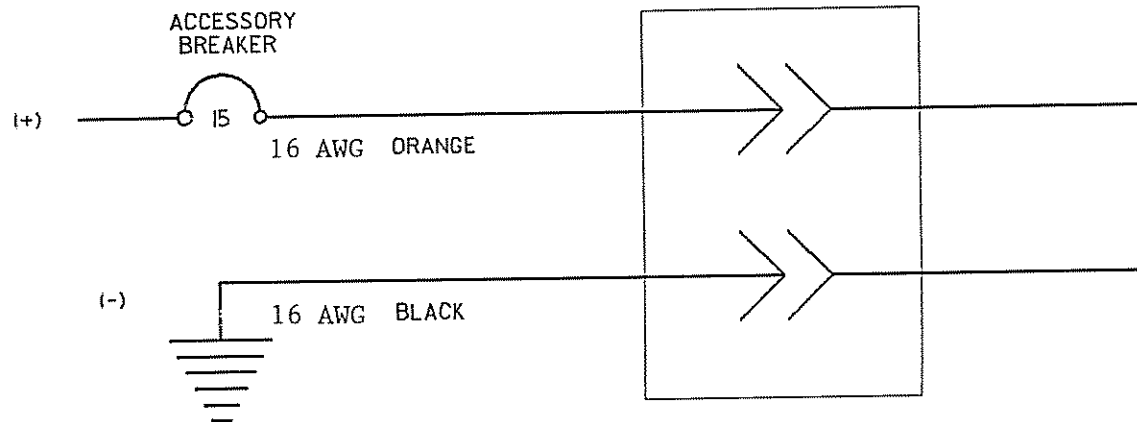
0

E.C.N. NO.

DATE

05-08-89

ACCESSORY
RECEPTACLE



ACCESSORY
RECEPTACLE
PART # II-0132



ACCESSORY PLUG
PART # II-0132-1

6055



PRODUCT DEVELOPMENT AND ENGINEERING

USED ON: ALL

USED ON:

FILE: ZFAH200,273SCHEM.DGN

DRAWN BY: D. GREGA

CHECKED BY: [Signature]

APPROVED BY: [Signature]

SCALE:

N/A

DATE

5/14/89

TITLE

ACCESSORY RECEPTACLE
WIRING DIAGRAM

DRAWING NO. 09-999X

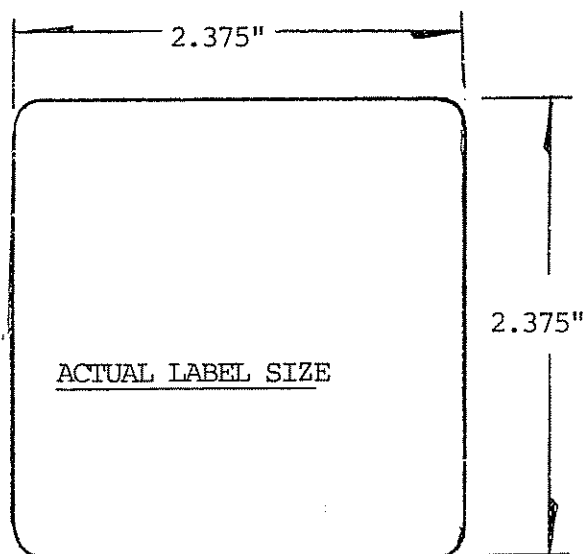
SHEET 1 OF 1

SHORE POWER
50A 250V GROUNDING

WARNING

TO MINIMIZE SHOCK AND FIRE HAZARDS, CONNECT AND
DISCONNECT THE CABLE AS FOLLOWS:

1. TURN OFF BOAT'S SHORE POWER SWITCH.
2. CONNECT CABLE AT BOAT FIRST.
3. IF POLARITY WARNING INDICATOR IS ACTIVATED,
IMMEDIATELY DISCONNECT CABLE & HAVE THE FAULT
CORRECTED BY A QUALIFIED ELECTRICIAN.
4. DISCONNECT AT SHORE OUTLET FIRST.



* 360-AC/ 390 SERIES / 460-EC

LABEL WILL BE PRINTED ON A SELF-ADHESIVE BACKED
PLASTIC TAG. IT WILL BE INSTALLED JUST BELOW THE
SHORE POWER INLET.

DRAWN BY

J.T.

APPROV BY

RG 5/8/85

TITLE

SHORE POWER WARNING LABEL

MODEL

*

ECN NO.

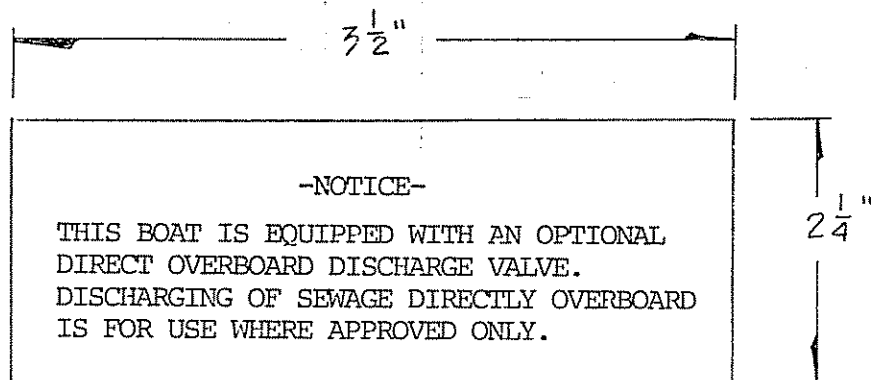
2667

REV NO.

1

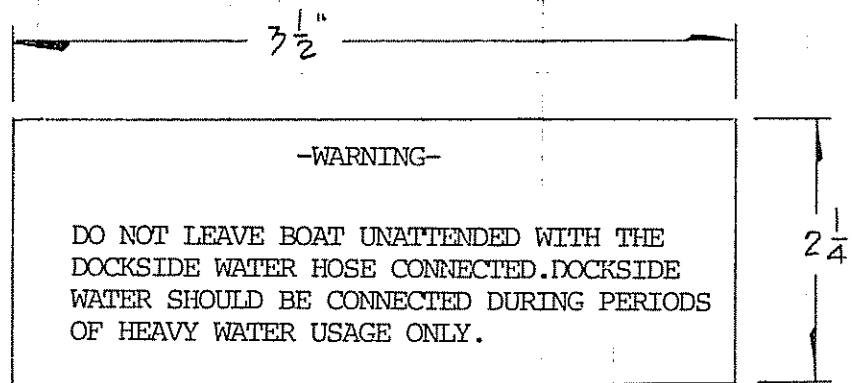
DWG NO.

09-1001



THIS TAG WILL BE BLUE WITH WHITE LETTERING.

DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
J.T.		OPTIONAL OVERBOARD DISCHARGE TAG	ALL	2681	1	09-1005



THIS TAG WILL BE ORANGE WITH WHITE LETTERING.

DRAWN BY	APPROV BY	TITLE	MODEL	ECN NO.	REV NO.	DWG NO.
J.T.	RG 5/14/85	TAG FOR OPTIONAL DOCKSIDE WATER SYSTEM	ALL	2738	1	09-1006

ENGINEERING CHANGE NOTICE

ECN NO. 2030

REQUESTED BY:	DATE:	APPROVED BY:	DATE:	SUBJECT:
ELECTRICAL	10-7-83	RG	10-7-83	BILGE LIGHT BREAKER CHANGE - ALL BOATS -

DISTRIBUTION:	DRW. NO.	REV.	DESCRIPTION
VICE-PRES./ GEN. MGR.			BILGE LIGHT CIRCUIT BREAKER WILL CHANGE FROM CURRENT 15amp DC TO 10 AMP DC CIRCUIT BREAKER. 10 amp DC BREAKERS ARE CURRENT MATERIAL IN INVENTORY. 15amp DC BREAKERS ARE STILL USED ON OTHER DASH FUNCTIONS. REASON FOR CHANGE: UPDATE CIRCUIT BREAKER TO CURRENT AMPERAGE DRAW.
R & D			
PRODUCTION MANAGER			
OPERATIONS MANAGER			
PRODUCT MANAGER			
ASSEMBLY SUPER.			
LAMINATION SUPER.			
FABRICATION SUPER.			
ENGINEERING			
ACCESSORIES			
QUALITY CONTROL			
WARRANTY			
METHODS			

EFFECTIVE HULL:

340EC	526	360AC	533
340SF	512	390EC	520
340SDA	536	390	521
340SDB	533	SDSF	

COMMENTS:

NO OBSOLETE MATERIAL.

DESCRIPTION	LABOR			MATERIAL DOLLARS	TOTAL DOLS.+BURDEN+MAT.
	HOURS	DOLLARS	BURDEN		
CURRENT TOTAL					
PROPOSED TOTAL					
I.E. VERIFICATION _____ DATE _____					SAVINGS/ HULL INCREASE/ HULL
MATERIAL VERIFICATION _____ DATE _____					

REVISED 7/19/83

ENGINEERING CHANGE NOTICE

ECN NO. 2027

REQUESTED BY:	DATE:	APPROVED BY:	DATE:	SUBJECT:
PURCHASING	9/28/83	RG	10/6/83	BILGE PUMP & BREAKER CHANGE

DISTRIBUTION:	DRW. NO.	REV.	DESCRIPTION
VICE-PRES./ GEN. MGR.			RULE HAS MADE A RUNNING CHANGE FROM CURRENT 1750 GPH PUMP TO A NEW 2000 GPH PUMP. THE NEW PUMPS WILL START 11-1-83 DELIVERY. NO CHANGE IN HOSE OUTLET SIZE OR MOUNTING IS REQUIRED. THE NEW PUMP WILL REQUIRE CHANGE IN BILGE BREAKER SIZE TO 15 AMP TO HANDLE INCREASE IN AMPERAGE DRAW. 15 AMP BREAKERS ARE IN STOCK NOW TO HANDLE CHANGE. REASON FOR CHANGE: DISCONTINUED 1750 GPH BILGE PUMP.
R & D			
PRODUCTION MANAGER			
OPERATIONS MANAGER			
PRODUCT MANAGER			
ASSEMBLY SUPER.			
LAMINATION SUPER.			
FABRICATION SUPER.			
ENGINEERING			
ACCESSORIES			
QUALITY CONTROL			
WARRANTY			
METHODS			

EFFECTIVE HULL:

340EC _____ 360AC _____
 340SF _____ 390EC _____
 340SDA _____ 390 523 _____
 340SDB _____ SDSF _____

COMMENTS:

PURCHASING TO COORDINATE WITH ELECTRICAL ON RUN OUT AND CHANGE OVER TO NEW PUMP.

THIS WILL BE MATERIAL RUN-OUT. NO OBSOLETE MATERIAL WILL BE AVAILABLE.

DESCRIPTION	LABOR			MATERIAL DOLLARS	TOTAL DOLS.+BURDEN+MAT.
	HOURS	DOLLARS	BURDEN		
CURRENT TOTAL					
PROPOSED TOTAL					
I.E. VERIFICATION _____ DATE _____					SAVINGS/ HULL
MATERIAL VERIFICATION _____ DATE _____					INCREASE/ HULL

REVISED 7/19/83

ENGINEERING CHANGE NOTICE

ECN NO. 2132

REQUESTED BY: ELECTRICAL	DATE: 2/15/84	APPROVED BY: RG	DATE: 2/15/84	SUBJECT: ALL BOATS GENERATOR FEED WIRE GAUGE
--------------------------	---------------	-----------------	---------------	---

DISTRIBUTION:	DRW. NO.	REV.	DESCRIPTION
VICE-PRES./ GEN. MGR.			GENERATOR FEED WIRE GAUGE
R & D			
PRODUCTION MANAGER			ONAN 4.0 KW GAS
OPERATIONS MANAGER			ONAN 4.0 KW DIESEL 10 GA
PRODUCT MANAGER			WESTERBEKE 3.0 KW DIESEL
ASSEMBLY SUPER.			WESTERBEKE 4.4 KW DIESEL
LAMINATION SUPER.			ONAN 6.5 KW GAS 8 GA
FABRICATION SUPER.			WESTERBEKE 7.7 KW DIESEL 6 GA
ENGINEERING			ONAN 8.0 KW DIESEL
ACCESSORIES			
QUALITY CONTROL			REASON FOR CHANGE: DOCUMENTATION
WARRANTY			
METHODS			

EFFECTIVE HULL:	COMMENTS:
340EC _____ 360AC _____	
340SF _____ 390EC _____	
340SDA _____ 390 _____	
340SDB _____ SDSF _____	

DESCRIPTION	LABOR			MATERIAL DOLLARS	TOTAL DOLS.+BURDEN+MAT.
	HOURS	DOLLARS	BURDEN		
CURRENT TOTAL					
PROPOSED TOTAL					
I.E. VERIFICATION _____ DATE _____					SAVINGS/ HULL INCREASE/ HULL
MATERIAL VERIFICATION _____ DATE _____					

REVISED 7/19/83

ENGINEERING CHANGE NOTICE

ECN NO. 2163

REQUESTED BY:	DATE:	APPROVED BY:	DATE:	SUBJECT:
ENGINEERING	3/12/84	RG	3/13/84	ALL BOATS GENERATOR SIPHON BREAK VALVE

DRW. NO.	REV.	DESCRIPTION:
		<u>GENERATOR SIPHON BREAK VALVE</u> <u>MOUNTING INSTRUCTIONS</u> THE SIPHON BREAK VALVES ON ALL GENERATORS MUST BE MOUNTED VERTICALLY. THE FOLLOWING IS A LIST OF LOCATIONS FOR ALL MODELS: <u>340 EC/SF</u> MOUNT THE SIPHON BREAK VALVE ON THE STBD. BRACING OF THE AFT HATCH OPENING JUST BEHIND THE ALUM. CROSS BRACE. (ROUTE HOSE UNDER BRACE THEN TO VALVE.) <u>340 SDA</u> NO VALVE INSTALLED. <u>340 SDB</u> MOUNT THE VALVE ON THE PORT SIDE OF THE AFT BRACING FOR THE AFT HATCH OPENING. (JUST TO THE PORT OF THE GEN. EXHAUST OUTLET.) <u>360 AC</u> MOUNT THE VALVE ON THE FWD.-STBD. BRACING FOR THE GEN. SET HATCHWAY. (JUST FWD. OF THE EXHAUST ELBOW.) <u>390 EC, SF</u> MOUNT THE VALVE ON THE STBD. BRACING OF THE AFT HATCH OPENING.

<u>EFFECTIVE HULL:</u>	<u>COMMENTS:</u>
340EC _____ 360AC _____ 340SF _____ 390EC _____ 340SDA _____ 390SF _____ 340SDB _____	ROUTE HOSES AROUND HATCH OPENINGS TO ALLOW EASY ACCESS TO THE BILGE. *REASON FOR CHANGE: DOCUMENTATION ONLY.

DESCRIPTION	LABOR			MATERIAL DOLLARS	TOTAL \$+BUR.+MAT.
	HOURS	DOLLARS	BURDEN		
CURRENT TOTAL					
PROPOSED TOTAL					
I.E. VERIFICATION _____ DATE _____					SAVINGS/ HULL
MATERIAL VERIFICATION _____ DATE _____					INCREASE/ HULL

REVISED 3/9/84

RUNNING CHANGE

ELECTRICAL

DEPARTMENT 43

Date 8/22/84

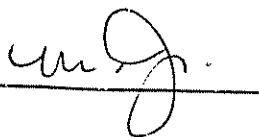
COLOR CHANGE FROM 1/16 WHITE/BLACK LETTERS
TO 1/16 RED/WHITE LETTERS

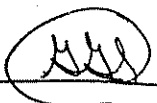
DANGER
DO NOT CLIMB UPON OR
STORE EQUIPMENT ON HARDTOP

Boat Model	Last Boat Number Effective	First Boat Number Effective
340 EC	N/A	N/A
340 SF	N/A	N/A
340 DA	N/A	N/A
340 DB	N/A	N/A
360 AC	516 AC	517 AC
390 EC	N/A	N/A
390 SF	N/A	N/A

Comments;

85 CHANGE AS PER ECN #2290

Supervisor 

QC 

HARNESS LENGTHS & PART NOS.

PAGE 1 OF 3

	390 SF			
506-100	1 1 secondary cir.*			Olson fuse block
560-130	2			"Y" harness
560-324	2			28ft. Merc.
560-418				18ft. Crus.
560-424	2			28ft. Crus.
561-360	1			5ft. fuel horn, nav.
561-361	1			6ft. blowers, bilge pumps
561-362	1			6ft. fuel, Emer. St.
561-363	1			28ft. fuel, Emer. St.
561-365	1			28ft. horn, bridge, nav. light.
561-366	1			3ft. Main 8 ga.
-367	1			28ft. Main 8 ga.

* Optional

	390 SF			
561-368	1			28ft. fuel, horn, nav.
561-369	1			28ft. blowers bilge pumps
561-370	1* B plan only			14ft. spotlight Bridge
562-361	1*			4ft. trimtab
562-362	1*			28ft. trimtab
563-361	1*			9ft. spotli ht
563-362	1* dual station spotlight			5ft. spotlight
563-364	1* dual station spotlight			28ft. spotlight
564-361	1*			6ft. speaker
564-362	1*			25ft. speaker Bridge
564-363	1*			28ft. speaker
565-100	2			Cat. Engine harness
5-300				6V-53 Engine harness

* Optional

D. A.

[illegible]

* Optional

D. ALLEN

09

ENGINEERING NOTICE

ECN No. 1187

DEPT. TO	REQ. BY	DATE	AUTH. BY	DATE	SUBJECT ALL MODELS	SHEET 1 OF
ELECTRICAL	ENGINEER	16-FEB-81	MW Kuzara	2/16/81	ENGINE ALARMS	
EXECUTION	NO.					

PHOENIX	
FLORIDA	
OXFORD	
VICE PRES. / GEN. MGR	✓
R & D	
PLT. MGR.	✓
OPER. MGR.	✓
SALES MGR.	
GEN. FOREMAN	✓
CONTROLLER	
QUALITY CONTROL	✓
ENGINEERING	✓
TESTING	✓
LAMINATION	
WARRANTY	✓
ACCESSORIES	✓
BOAT ASS'Y	✓

DESCRIPTION:

SRV- ALL MODELS

ENGINE AUDIBLE ALARMS

THE FOLLOWING ENGINE OPTIONS WILL USE
THE PROJECTS UNLIMITED, X30W12 ALARM
BUZZER.

◆ GAS ENGINESCRUSADER: ALL INSTALLATIONSMERCURY: UPPER STATION ONLY◆ DIESELS : ALL INSTALLATIONS

REASON FOR CHANGE:

COST REDUCTION

WOODSHOP	ECM STANDARD
STOCKROOM	Increase in cost per boat _____ How much _____
P.I. & FINISH	Decrease in cost per boat ✓ _____ How much _____
	Effective hull number (s) _____
	Disposition of present material (s) _____

RESULTS:

OLD MAINT.	
MT. MAINT.	
SHIPPING	
PRE-PRODUCTION	
SIGNATURES	

PROJECTED ENG. NO.	ASSIGNED	BY	DATE
--------------------	----------	----	------

ENGINEERING CHANGE NOTICE

ECN NO. 2027

REQUESTED BY: PURCHASING	DATE: 9/28/83	APPROVED BY: RG	DATE: 10/6/83	SUBJECT: ALL BOATS
				BILGE PUMP & BREAKER CHANGE

DISTRIBUTION:	DRW. NO.	REV.	DESCRIPTION
VICE-PRES./ GEN. MGR.			RULE HAS MADE A RUNNING CHANGE FROM CURRENT 1750 GPH PUMP TO A NEW 2000 GPH PUMP. THE NEW PUMPS WILL START 11-1-83 DELIVERY. NO CHANGE IN HOSE OUTLET SIZE OR MOUNTING IS REQUIRED. THE NEW PUMP WILL REQUIRE CHANGE IN BILGE BREAKER SIZE TO 15AMP TO HANDLE INCREASE IN AMPERAGE DRAW. 15 AMP BREAKERS ARE IN STOCK NOW TO HANDLE CHANGE. REASON FOR CHANGE: DISCONTINUED 1750 GPH BILGE PUMP.
R & D			
PRODUCTION MANAGER			
OPERATIONS MANAGER			
PRODUCT MANAGER			
ASSEMBLY SUPER.			
LAMINATION SUPER.			
FABRICATION SUPER.			
ENGINEERING			
ACCESSORIES			
QUALITY CONTROL			
WARRANTY			
METHODS			

EFFECTIVE HULL:

340EC	360AC
340SF	390EC
340SDA	390 523
340SDB	SDSF

COMMENTS:

PURCHASING TO COORDINATE WITH ELECTRICAL ON RUN OUT AND CHANGE OVER TO NEW PUMP

THIS WILL BE MATERIAL RUN-OUT. NO OBSOLETE MATERIAL WILL BE AVAILABLE.

DESCRIPTION	LABOR			MATERIAL DOLLARS	TOTAL DOLS.+BURDEN+MAT.
	HOURS	DOLLARS	BURDEN		
CURRENT TOTAL					
PROPOSED TOTAL					
I.E. VERIFICATION	DATE				SAVINGS/ HULL
MATERIAL VERIFICATION	DATE				INCREASE/ HULL

REVISED 7/19/83

ENGINEERING CHANGE NOTICE

ECN NO. 2030

REQUESTED BY: ELECTRICAL	DATE: 10-7-83	APPROVED BY: RG	DATE: 10-7-83	SUBJECT: BILGE LIGHT BREAKER CHANGE - ALL BOATS -
--------------------------	---------------	-----------------	---------------	--

DISTRIBUTION:	DRW. NO.	REV.	DESCRIPTION
VICE-PRES./ GEN. MGR.			BILGE LIGHT CIRCUIT BREAKER WILL CHANGE FROM CURRENT 15amp DC TO 10 Amp DC CIRCUIT BREAKER. 10 amp DC BREAKERS ARE CURRENT MATERIAL IN INVENTORY. 15amp DC BREAKERS ARE STILL USED ON OTHER DASH FUNCTIONS. REASON FOR CHANGE: UPDATE CIRCUIT BREAKER TO CURRENT AMPERAGE DRAW.
R & D			
PRODUCTION MANAGER			
OPERATIONS MANAGER			
PRODUCT MANAGER			
ASSEMBLY SUPER.			
LAMINATION SUPER.			
FABRICATION SUPER.			
ENGINEERING			
ACCESSORIES			
QUALITY CONTROL			
WARRANTY			
METHODS			

EFFECTIVE HULL:

340EC 526 360AC 533
 340SF 512 390EC 520
 340SDA 536 390 521
 340SDB 533 SDSF

COMMENTS:

NO OBSOLETE MATERIAL.

DESCRIPTION	LABOR			MATERIAL DOLLARS	TOTAL DOLS.+BURDEN+MAT.
	HOURS	DOLLARS	BURDEN		
CURRENT TOTAL					
PROPOSED TOTAL					
I.E. VERIFICATION _____ DATE _____					SAVINGS/ HULL INCREASE/ HULL
MATERIAL VERIFICATION _____ DATE _____					

REVISED 7/19/83

ENGINEERING CHANGE NOTICE

ECN NO. 2132

REQUESTED BY: DATE: 2/15/84
ELECTRICAL

APPROVED BY: DATE: 2/15/84
RG

SUBJECT: ALL BOATS
GENERATOR FEED WIRE
GAUGE

DISTRIBUTION:	DRW. NO.	REV.	DESCRIPTION
VICE-PRES./ GEN. MGR.			GENERATOR FEED WIRE GAUGE
R & D			
PRODUCTION MANAGER			ONAN 4.0 KW GAS
OPERATIONS MANAGER			ONAN 4.0 KW DIESEL
PRODUCT MANAGER			WESTERBEKE 3.0 KW DIESEL 10 GA
ASSEMBLY SUPER.			WESTERBEKE 4.4 KW DIESEL
LAMINATION SUPER.			ONAN 6.5 KW GAS 8 GA
FABRICATION SUPER.			WESTERBEKE 7.7 KW DIESEL
ENGINEERING			ONAN 8.0 KW DIESEL 6 GA
ACCESSORIES			
QUALITY CONTROL			
WARRANTY			
METHODS			

REASON FOR CHANGE:

DOCUMENTATION

EFFECTIVE HULL:

340EC 360AC
340SF 390EC
340SDA 390
340SDB SDSF

COMMENTS:

DESCRIPTION	LABOR			MATERIAL DOLLARS	TOTAL DOLS.+BURDEN+MAT.
	HOURS	DOLLARS	BURDEN		
CURRENT					
TOTAL					
PROPOSED					
TOTAL					
I.E. VERIFICATION	DATE				
MATERIAL VERIFICATION	DATE				
					SAVINGS/ HULL
					INCREASE/ HULL

REVISED 7/19/83