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45Y HARNESS AND PIGTAIL #'S

AC 110V HARNESSES

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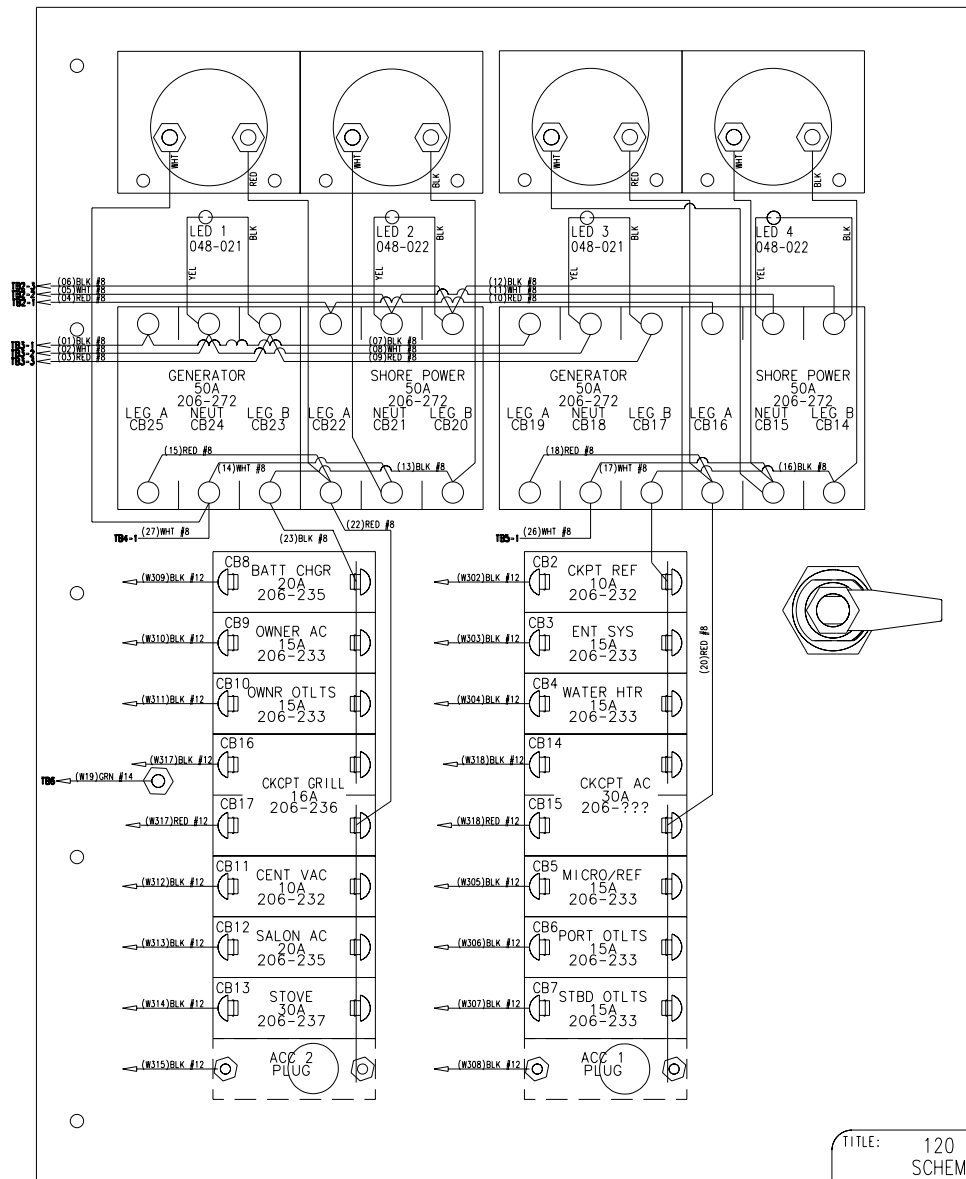
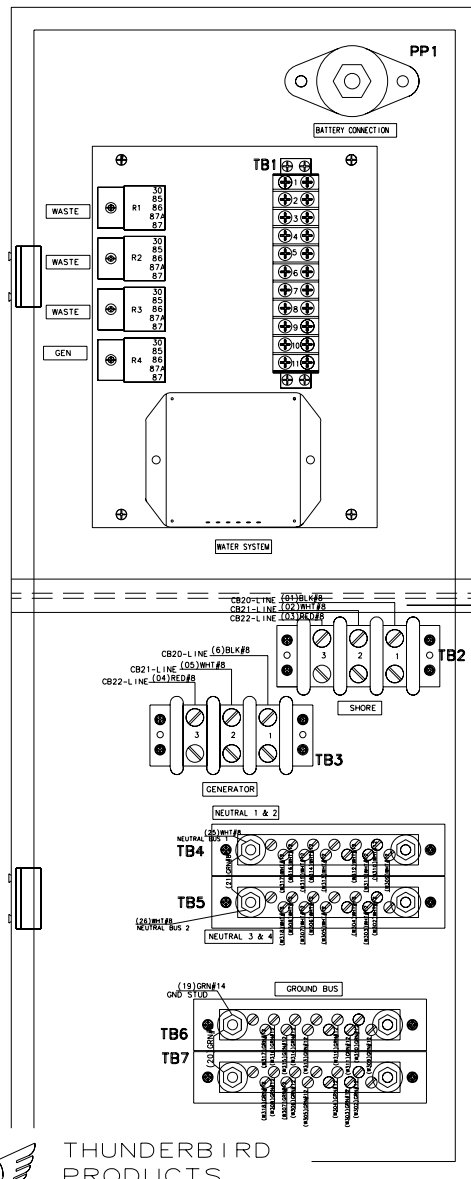
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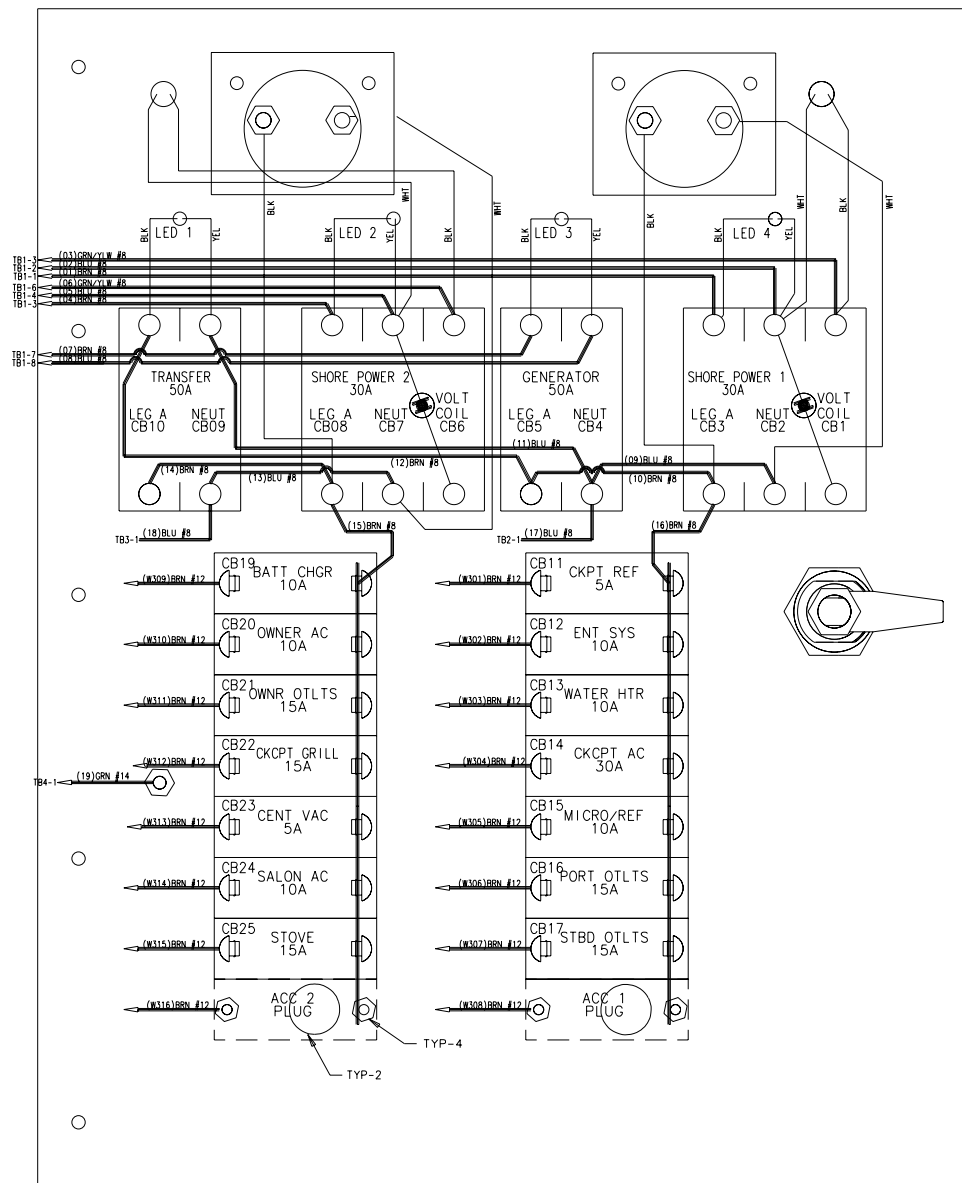
TITLE: 120 VAC SCHEMATIC

MOD.: 45Y
DR BY: CWM





04

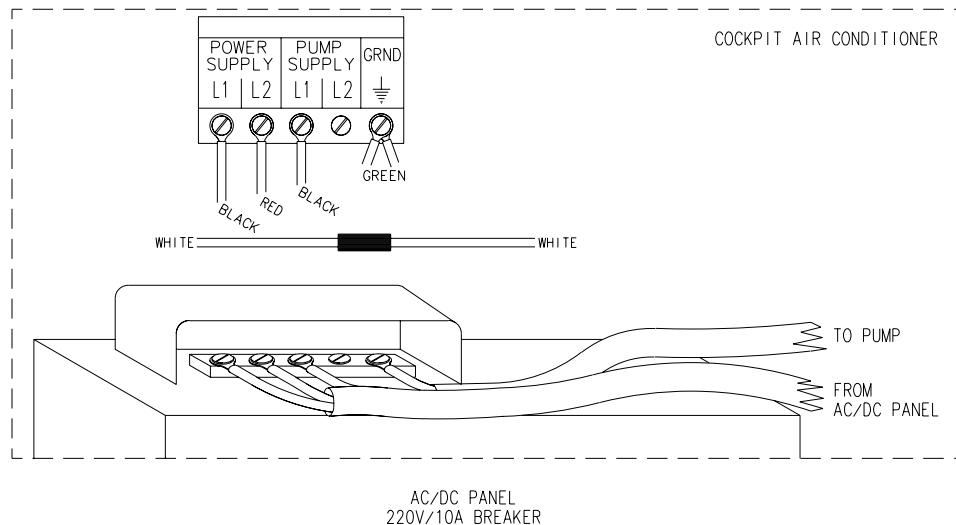


THUNDERBIRD
PRODUCTS
ENGINEERING



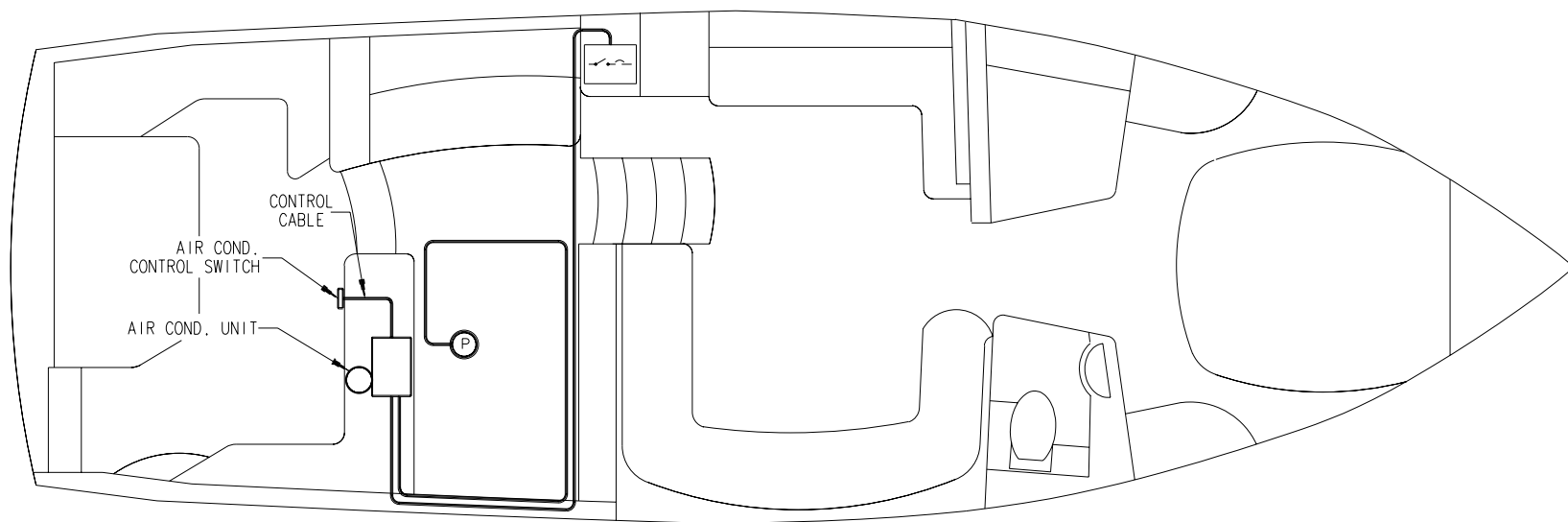
LEGEND

3-WIRE AC CONDUCTOR	
BREAKER	
PUMP	
AC PLUG	



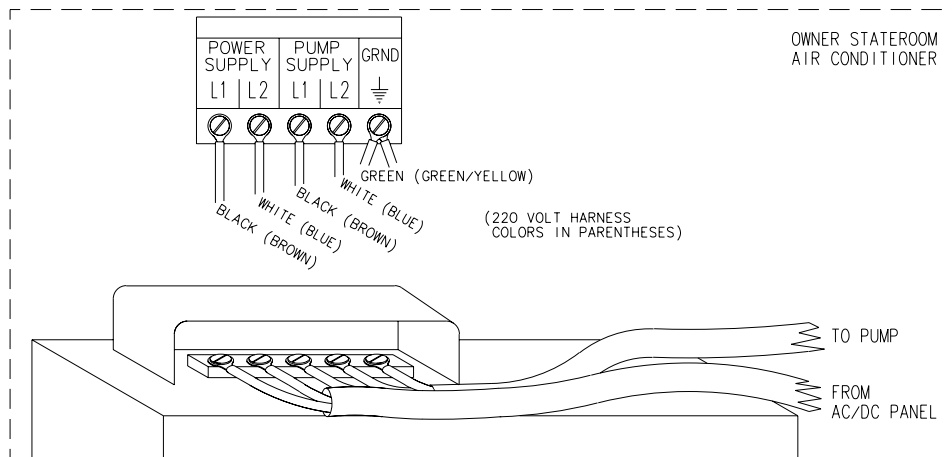
TO OPERATE:

1. MAKE SURE THE BOAT IS SUPPLIED WITH SHOREPOWER OR GENERATOR POWER.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH SHOREPOWER BREAKER OR GENERATOR BREAKER, GROUPS 1 & 2, TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "COCKPIT AIR COND" BREAKER TO "ON".
4. THE COCKPIT AIR CONDITIONER IS NOW SUPPLIED WITH POWER.



LEGEND

3-WIRE AC CONDUCTOR	—
BREAKER	⎓
PUMP	Ⓟ

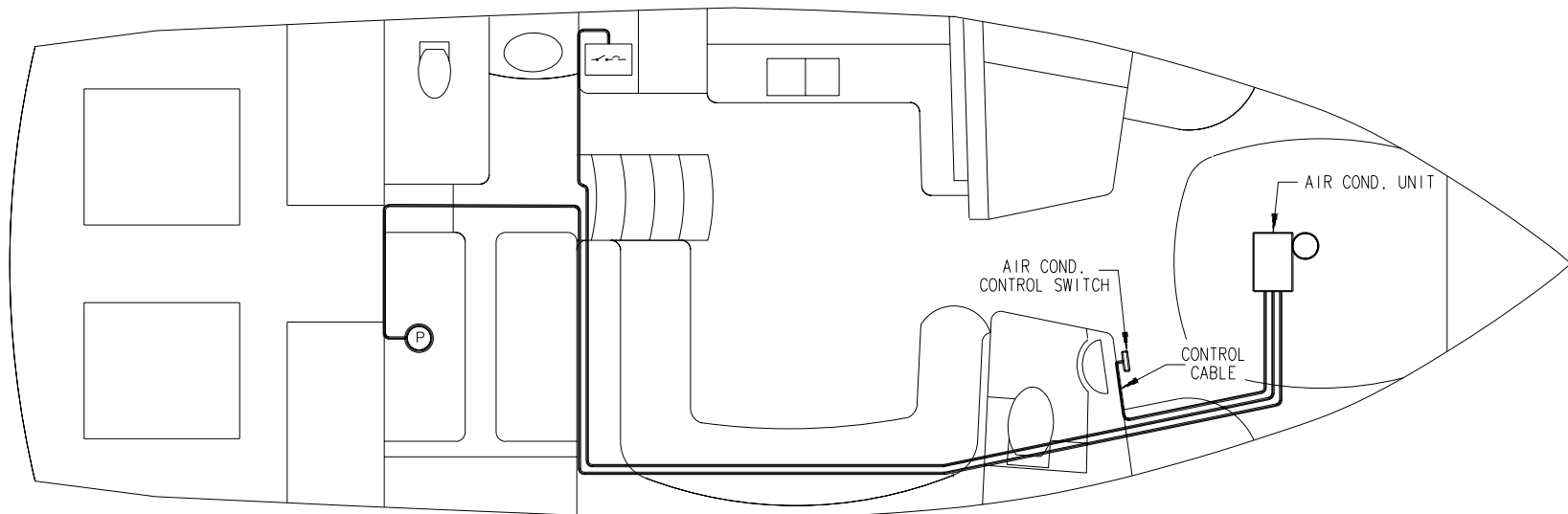


OWNER STATEROOM
AIR CONDITIONER

TO OPERATE:

1. MAKE SURE THE BOAT IS SUPPLIED WITH SHOREPOWER OR GENERATOR POWER.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH SHOREPOWER BREAKER OR GENERATOR BREAKER, GROUPS 3 & 4, TO *ON*.
3. AT THE AC/DC PANEL, SWITCH THE *OWNER STATEROOM AIR COND* BREAKER TO *ON*.
4. THE OWNER STATEROOM AIR CONDITIONER IS NOW SUPPLIED WITH POWER.

AC/DC PANEL
120V/15A BREAKER
220V/10A BREAKER

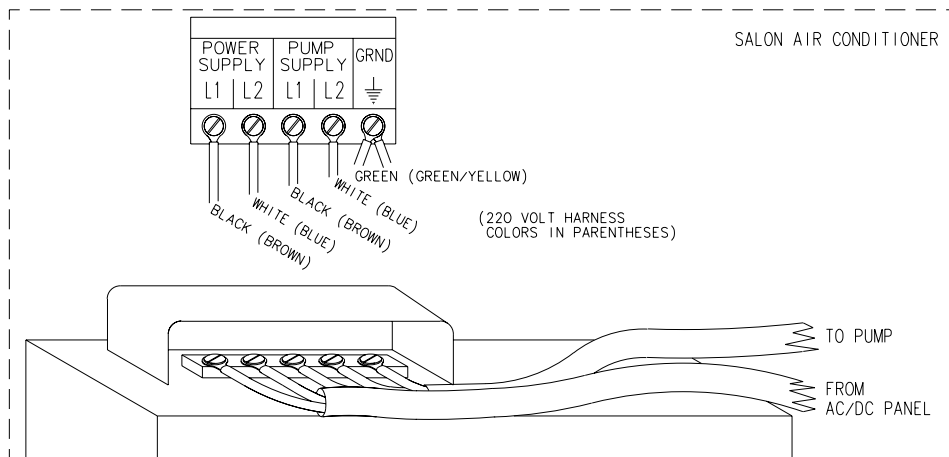


LEGEND

3-WIRE AC CONDUCTOR ———

BREAKER 

PUMP 

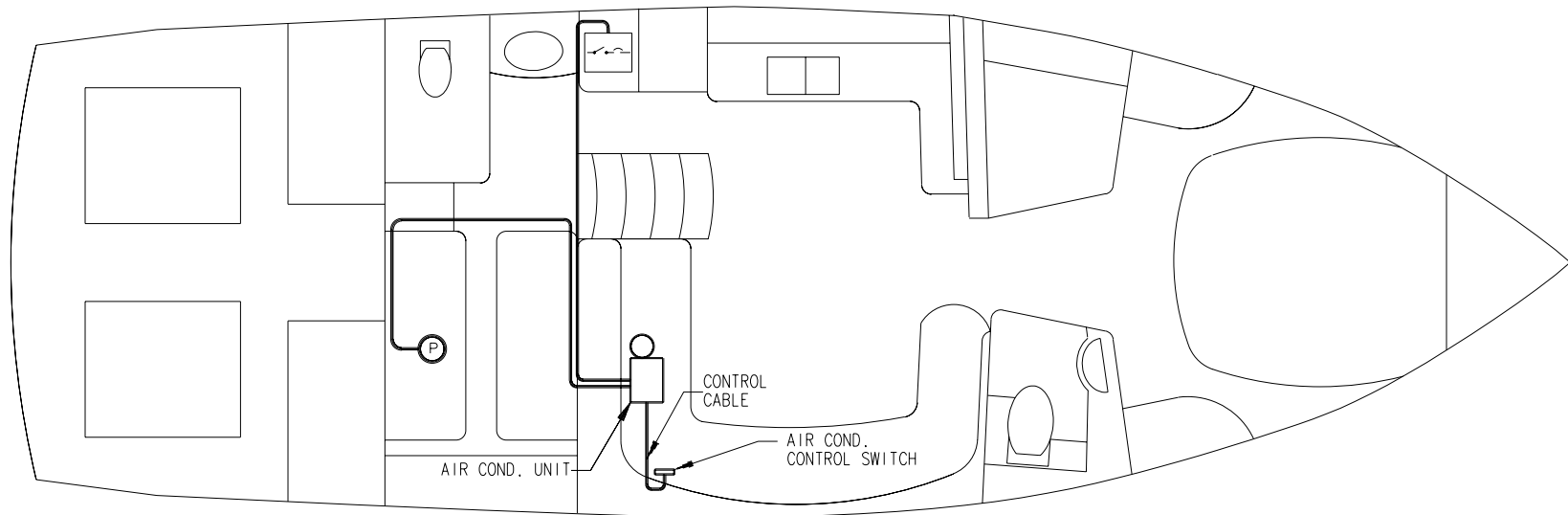


SALON AIR CONDITIONER

TO OPERATE:

1. MAKE SURE THE BOAT IS SUPPLIED WITH SHOREPOWER OR GENERATOR POWER.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH SHOREPOWER BREAKER OR GENERATOR BREAKER, GROUPS 1 & 2, TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "SALON AIR COND" BREAKER TO "ON".
4. THE SALON AIR CONDITIONER IS NOW SUPPLIED WITH POWER.

AC/DC PANEL
120V/20A BREAKER
220V/10A BREAKER



AIR COND. UNIT

CONTROL CABLE

AIR COND. CONTROL SWITCH






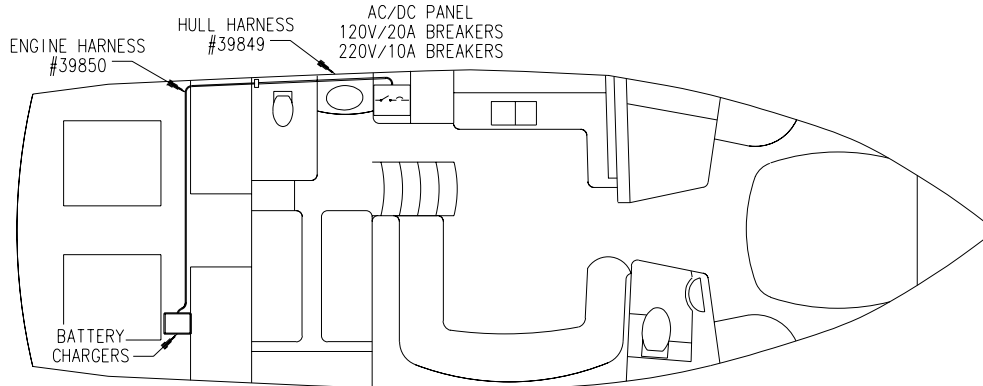
THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: AIR CONDITIONER,
SALON-GUEST
MOD.: 45Y
DR BY: CWM

08

LEGEND

BREAKER	
3-WIRE AC CONDUCTOR	
HARNESS PLUG	

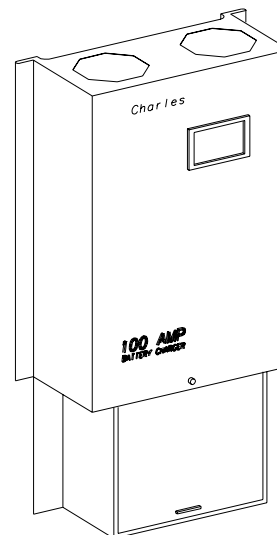
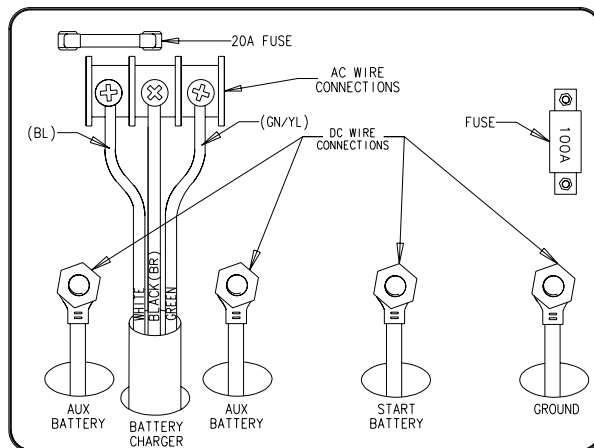


TO OPERATE:

1. MAKE SURE THE BOAT IS SUPPLIED WITH SHOREPOWER OR GENERATOR POWER.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH BOTH SHOREPOWER BREAKERS TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "BATTERY CHARGER" BREAKERS TO "ON".
4. CHECK FACE OF BATTERY CHARGER FOR "DC AVAILABLE" LIGHT.
5. AFTER 24 HOURS OF CHARGING, BATTERIES SHOULD READ 12+ VOLTS ON THE DASH VOLTMETER.
6. IF BATTERIES READ BELOW 12V OR DROP BELOW 12V WITHIN 15 MINUTES, HAVE THE BATTERIES CHECKED.

CAUTION!

HIGH VOLTAGE
220V COLORS IN ()



THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: BATTERY
CHARGERS

MOD.: 45Y

DR BY: CWM

09

LEGEND

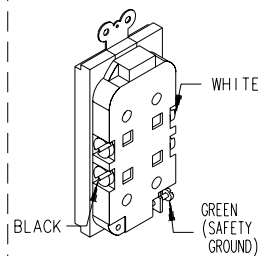
3-WIRE AC CONDUCTOR 

BREAKER 

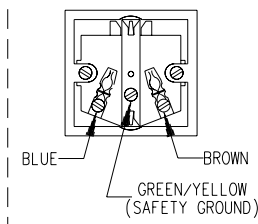
AC PLUG 

OUTLET 

120V AC OUTLET
(REAR VIEW)

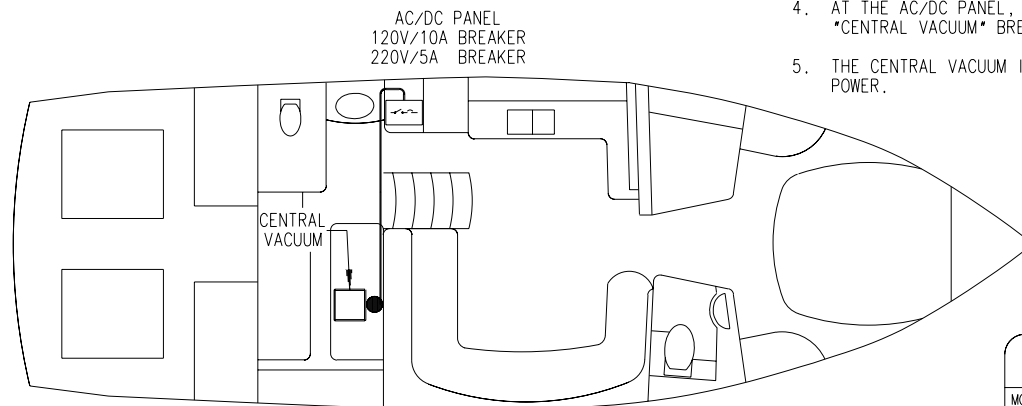


220V AC OUTLET
(REAR VIEW)



TO OPERATE:

1. MAKE SURE THE BOAT IS SUPPLIED WITH SHOREPOWER OR GENERATOR POWER.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH SHOREPOWER BREAKER OR GENERATOR BREAKER, GROUPS 3 & 4, TO "ON".
4. AT THE AC/DC PANEL, SWITCH THE "CENTRAL VACUUM" BREAKER TO "ON".
5. THE CENTRAL VACUUM IS NOW SUPPLIED WITH POWER.

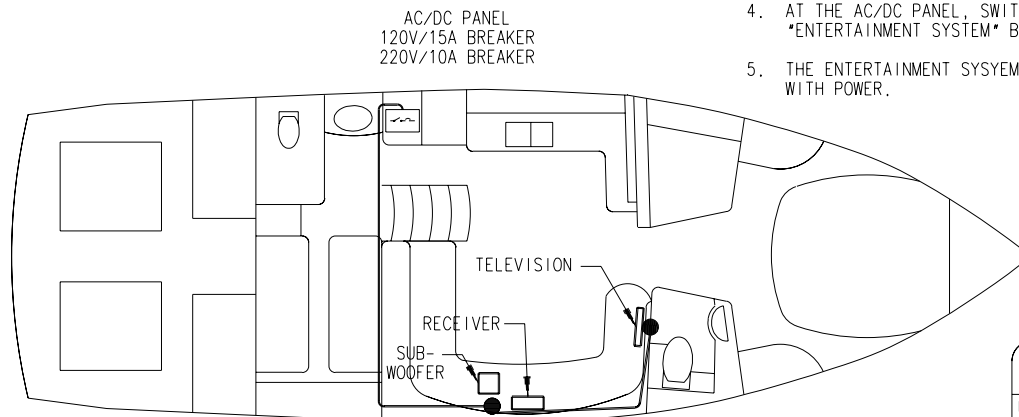


TITLE: CENTRAL VACUUM
MOD.: 45Y
DR BY: CWM

10A

TO OPERATE:

1. MAKE SURE THE BOAT IS SUPPLIED WITH SHOREPOWER OR GENERATOR POWER.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH SHOREPOWER BREAKER OR GENERATOR BREAKER, GROUPS 1 & 2, TO "ON".
4. AT THE AC/DC PANEL, SWITCH THE "ENTERTAINMENT SYSTEM" BREAKER TO "ON".
5. THE ENTERTAINMENT SYSEM IS NOW SUPPLIED WITH POWER.



TITLE: ENTERTAINMENT SYSTEM
MOD.: 45Y
DR BY: CWM

10B

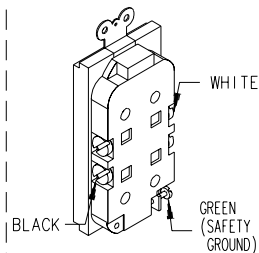


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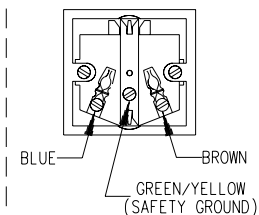
LEGEND

OUTLET	●
BREAKER	—
AC PLUG	□
3-WIRE AC CONDUCTOR	—

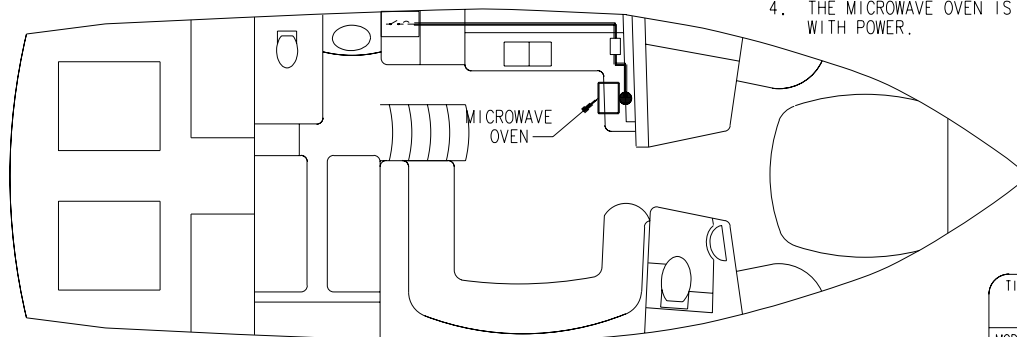
120V AC OUTLET
(REAR VIEW)



220V AC OUTLET
(REAR VIEW)



AC/DC PANEL
120V/15A BREAKER
220V/10A BREAKER

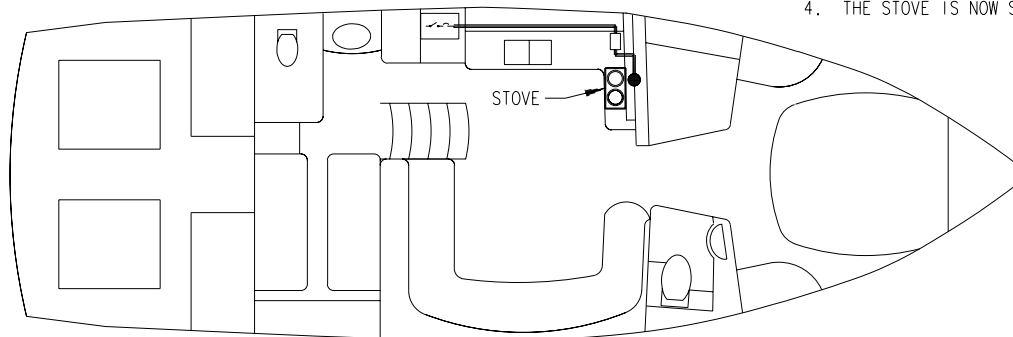


TITLE: MICROWAVE OVEN	
MOD.: 45Y	11A
DR BY: CWM	

TO OPERATE:

1. MAKE SURE THE BOAT IS SUPPLIED WITH SHOREPOWER OR GENERATOR POWER.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH SHOREPOWER BREAKER OR GENERATOR BREAKER, GROUPS 3 & 4, TO "ON".
3. AT THE AC/DC PANEL SWITCH THE "MICROWAVE OVEN" BREAKER TO "ON".
4. THE MICROWAVE OVEN IS NOW SUPPLIED WITH POWER.

AC/DC PANEL
120V/30A BREAKER
220V/15A BREAKER



TITLE: STOVE	
MOD.: 45Y	11B
DR BY: CWM	

TO OPERATE:

1. MAKE SURE THE BOAT IS SUPPLIED WITH SHOREPOWER OR GENERATOR POWER.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH SHOREPOWER BREAKER OR GENERATOR BREAKER, GROUPS 3 & 4 TO "ON".
3. AT THE AC/DC PANEL SWITCH THE "STOVE" BREAKER TO "ON".
4. THE STOVE IS NOW SUPPLIED WITH POWER.



THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

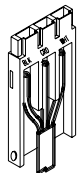
3-WIRE AC
CONDUCTOR —

BREAKER —

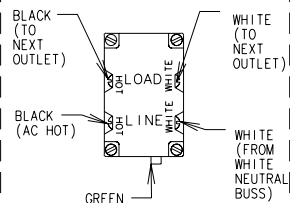
OUTLET ●

GFCI
RESET ■

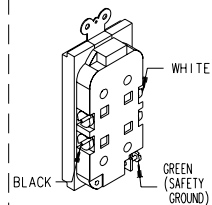
AC HARNESS PLUG



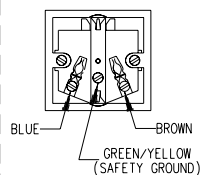
120V AC GFCI OUTLET



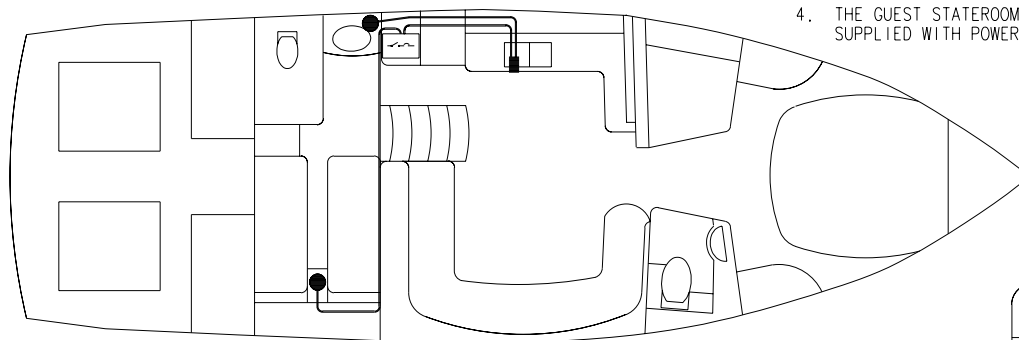
120V AC OUTLET (REAR VIEW)



220V AC OUTLET (REAR VIEW)



AC/DC PANEL
120V/15A BREAKER
220V/15A BREAKER

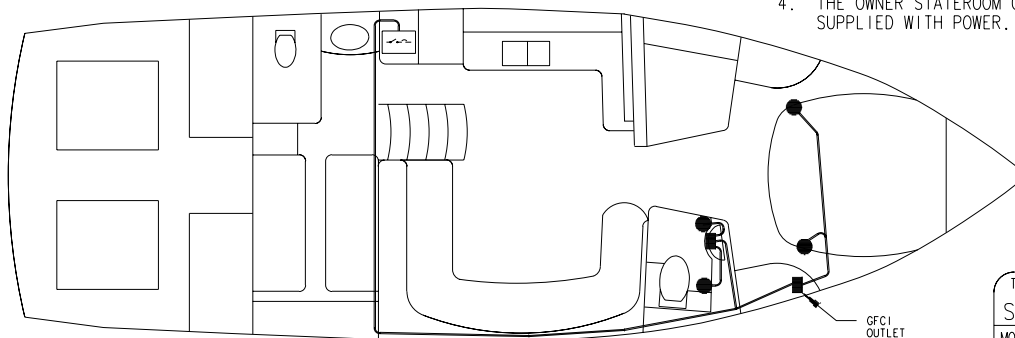


TITLE: GUEST
STATEROOM OUTLETS
MOD.: 45Y
DR BY: CWM
12A

TO OPERATE:

1. MAKE SURE THE BOAT IS SUPPLIED WITH SHOREPOWER OR GENERATOR POWER.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH SHOREPOWER BREAKER OR GENERATOR BREAKER, GROUPS 3 & 4 TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "OWNER STATEROOM OUTLETS" BREAKER TO "ON".
4. THE OWNER STATEROOM OUTLETS ARE NOW SUPPLIED WITH POWER.

AC/DC PANEL
120V/15A BREAKER
220V/15A BREAKER



TITLE: OWNER
STATEROOM OUTLETS
MOD.: 45Y
DR BY: CWM
12B



THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

AC PLUG



BREAKER



OUTLET



GFCI

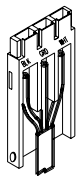


OUTLET

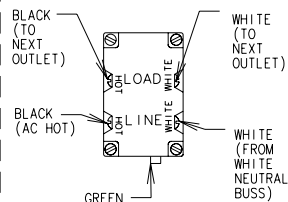
3-WIRE AC
CONDUCTOR



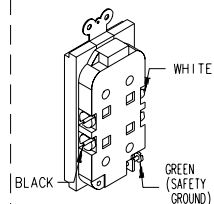
AC HARNESS PLUG



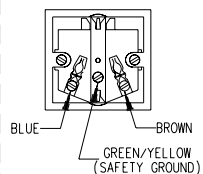
120V AC GFCI OUTLET



120V AC OUTLET (REAR VIEW)

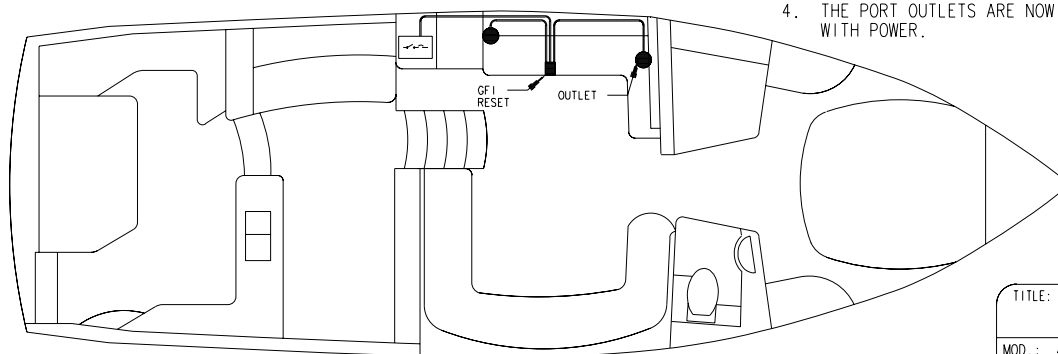


220V AC OUTLET (REAR VIEW)



THUNDERBIRD
PRODUCTS
ENGINEERING

AC/DC PANEL
120V/15A BREAKER
220V/15A BREAKER



TITLE: PORT
OUTLETS

MOD.: 45Y

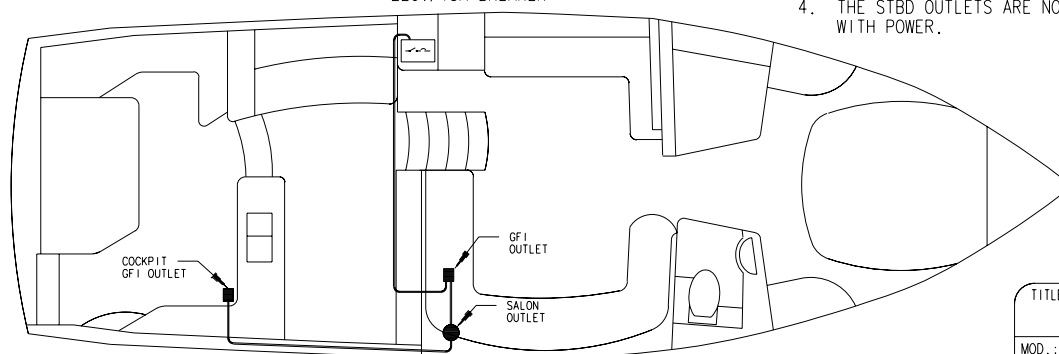
DR BY: CWM

13A

TO OPERATE:

1. MAKE SURE THE BOAT IS SUPPLIED WITH SHOREPOWER OR GENERATOR POWER.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH SHOREPOWER BREAKER OR GENERATOR BREAKER, GROUPS 1 & 2 TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "STBD OUTLETS" BREAKER TO "ON".
4. THE STBD OUTLETS ARE NOW SUPPLIED WITH POWER.

AC/DC PANEL
120V/15A BREAKER
220V/15A BREAKER



TITLE: STBD
OUTLETS

MOD.: 45Y

DR BY: CWM

13B

LEGEND

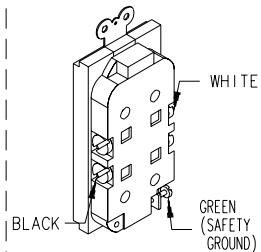
OUTLET ●

BREAKER 

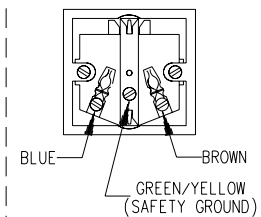
AC PLUG 

3-WIRE AC CONDUCTOR 

120V AC OUTLET (REAR VIEW)

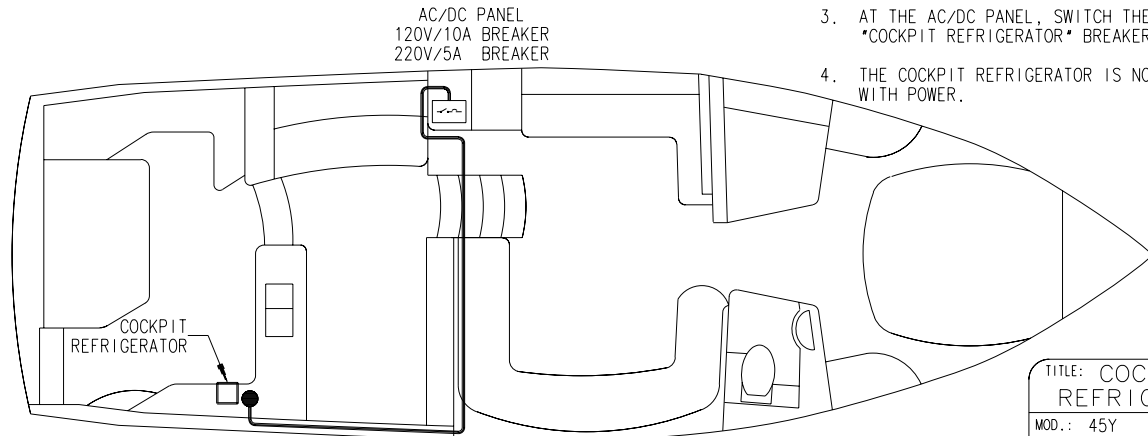


220V AC OUTLET (REAR VIEW)



TO OPERATE:

1. MAKE SURE THE BOAT IS SUPPLIED WITH SHOREPOWER OR GENERATOR POWER.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH SHOREPOWER BREAKER OR GENERATOR BREAKER, GROUPS 1 & 2, TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "COCKPIT REFRIGERATOR" BREAKER TO "ON".
4. THE COCKPIT REFRIGERATOR IS NOW SUPPLIED WITH POWER.



TITLE: COCKPIT REFRIGERATOR

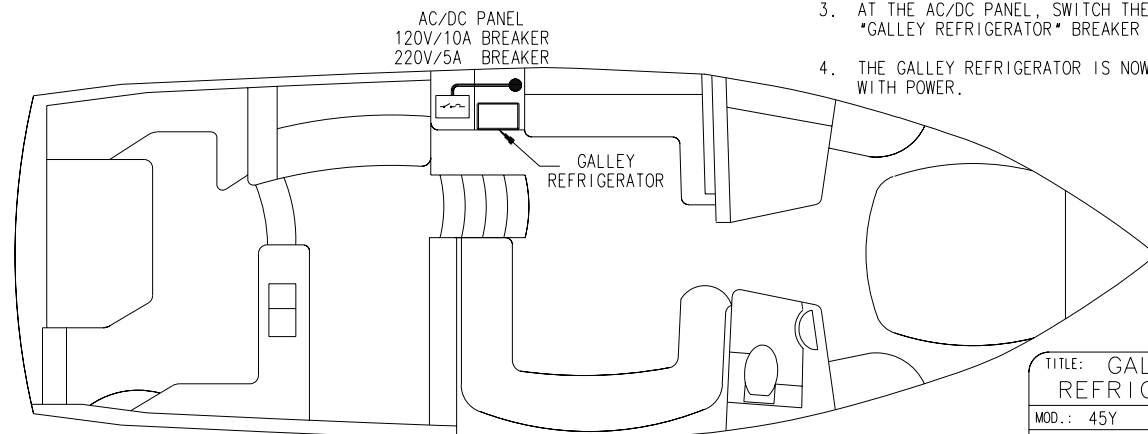
MOD.: 45Y

DR BY: CWM

14A

TO OPERATE:

1. MAKE SURE THE BOAT IS SUPPLIED WITH SHOREPOWER OR GENERATOR POWER.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH SHOREPOWER BREAKER OR GENERATOR BREAKER, GROUPS 1 & 2, TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "GALLEY REFRIGERATOR" BREAKER TO "ON".
4. THE GALLEY REFRIGERATOR IS NOW SUPPLIED WITH POWER.



TITLE: GALLEY REFRIGERATOR

MOD.: 45Y

DR BY: CWM

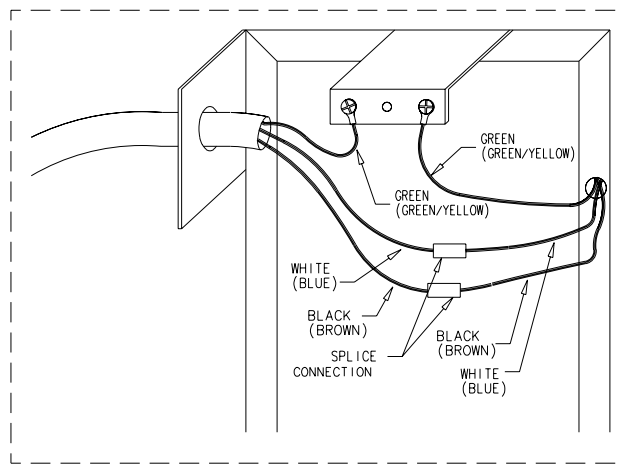
14B



THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

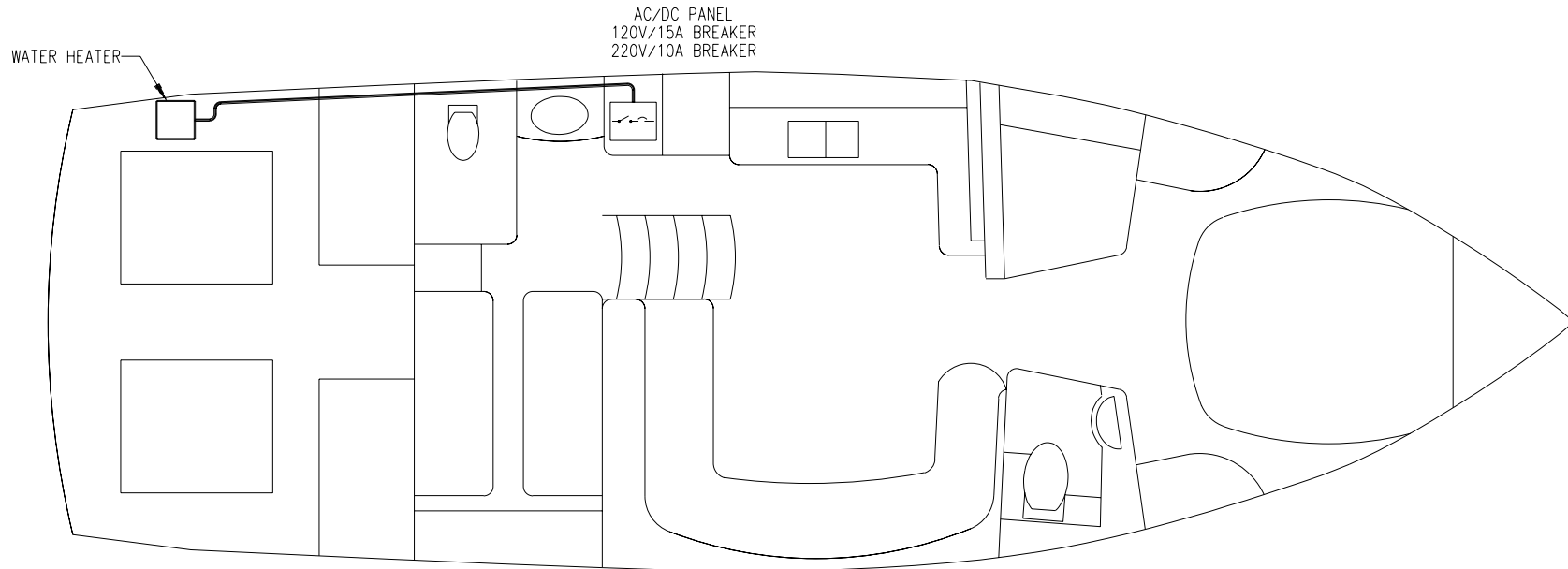
BREAKER	
3-WIRE AC CONDUCTOR	



TO OPERATE:

1. MAKE SURE THE BOAT IS SUPPLIED WITH SHOREPOWER OR GENERATOR POWER.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH BOTH SHOREPOWER BREAKERS TO "ON", OR BOTH GENERATOR BREAKERS TO "ON".
4. AT THE AC/DC PANEL, SWITCH THE "WATER HEATER" BREAKER TO "ON".
5. THE WATER HEATER IS NOW SUPPLIED WITH POWER.

CAUTION! BE SURE THE BOAT IS SUPPLIED WITH WATER IN THE FRESH WATER TANK.



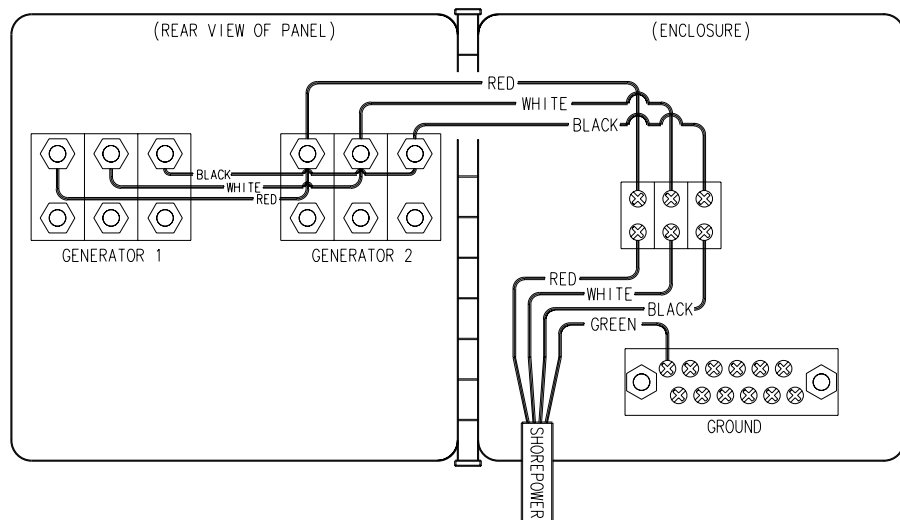
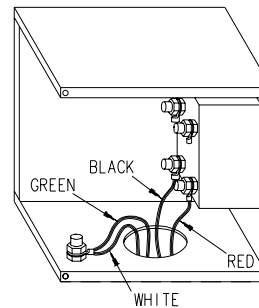
TITLE: WATER HEATER	
MOD.: 45Y	15
DR BY: CWM	



THUNDERBIRD
PRODUCTS
ENGINEERING

FIG. 1

AC/DC PANEL (W/ DOOR OPEN)

GENERATOR WIRING
FROM AC/DC PANEL

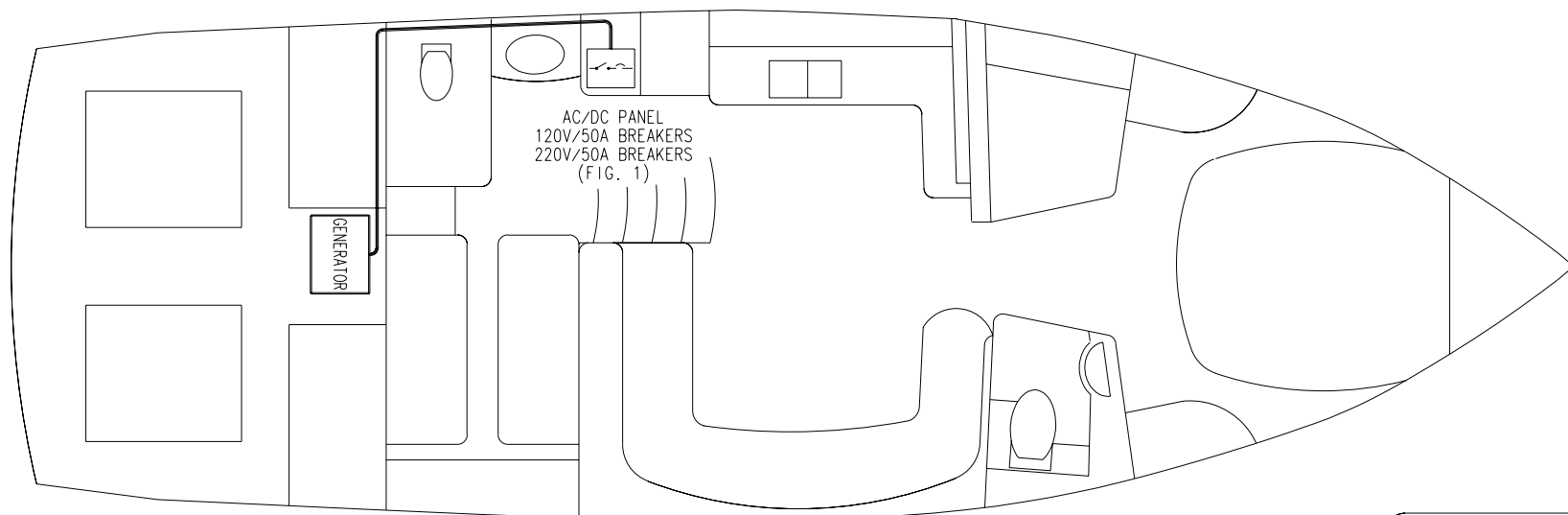
AFTER READING AND UNDERSTANDING THE GENERATOR OPERATOR'S MANUAL:

OPERATE GENERATOR FROM THE REMOTE SWITCH:

1. TEST THE CARBON MONOXIDE DETECTOR AND BE CERTAIN IT IS OPERATING PROPERLY.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE "BLOWERS" BREAKER TO "ON" AND RUN THEM A MINIMUM OF FOUR (4) MINUTES.
3. PLACE THE "SHOREPOWER/GENERATOR" SLIDE BARS IN THE "SHOREPOWER" POSITIONS.
4. SWITCH ALL AC CIRCUIT BREAKERS TO THE "OFF" POSITION.
5. PRESS AND HOLD THE GENERATOR "START" SWITCH. NOTE: DO NOT CRANK THE ENGINE CONTINUOUSLY FOR MORE THAN TEN (10) SECONDS AT A TIME.
6. AFTER THE GENERATOR IS RUNNING, PLACE THE "SHOREPOWER/GENERATOR" SLIDE BARS IN THE "GENERATOR" POSITIONS.
7. SWITCH "ON" THE AC CIRCUIT BREAKERS (ONE AT A TIME) FOR THE ITEMS TO BE USED.

CAUTION!

AT OR ABOVE CRUISING SPEEDS
GENERATOR COOLING SYSTEM MAY
LACK PROPER WATER FLOW CAUSING
GENERATOR TO SHUT DOWN.



THUNDERBIRD
PRODUCTS
ENGINEERING

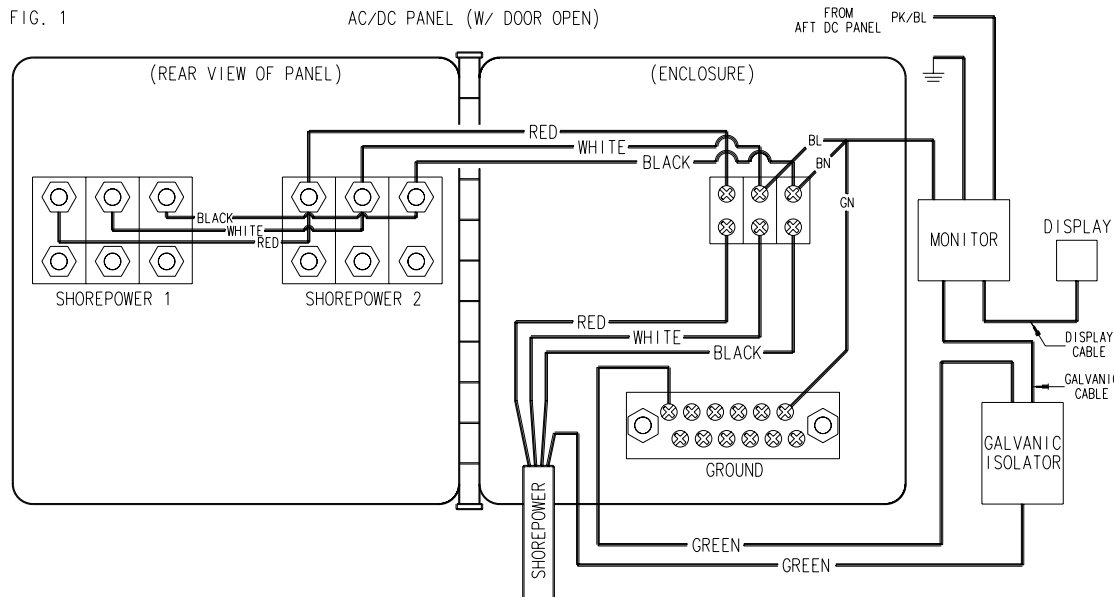
TITLE: GENERATOR

MOD.: 45Y
DR BY: CWM

16

FIG. 1

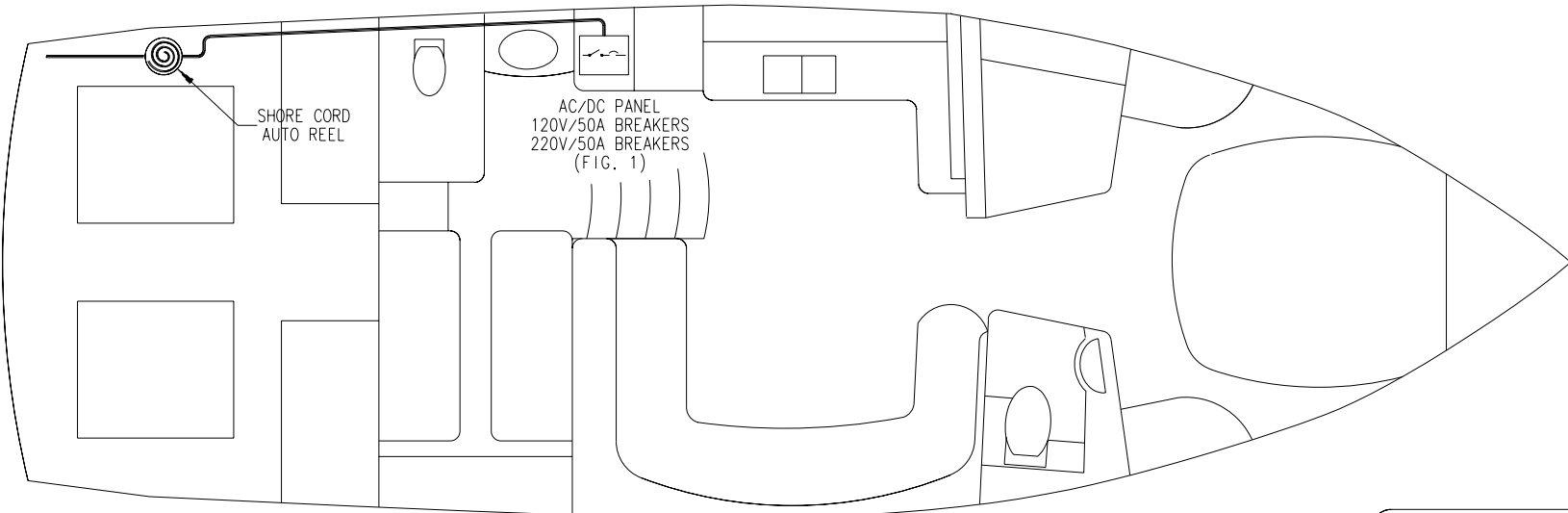
AC/DC PANEL (W/ DOOR OPEN)



*(READ THIS COMPLETELY BEFORE OPERATING)

TO OPERATE:

1. BEFORE PLUGGING INTO SHOREPOWER, SWITCH "OFF" ALL AC EQUIPMENT AND MAIN BEAKERS AT THE AC/DC PANEL, LOCATED IN THE CABIN.
2. PLUG BOAT'S SHOREPOWER CORD INTO SHOREPOWER.
3. WHEN THE MAIN BREAKERS ARE "ON" ALL AC EQUIPMENT BREAKERS ARE NOW SUPPLIED WITH POWER.



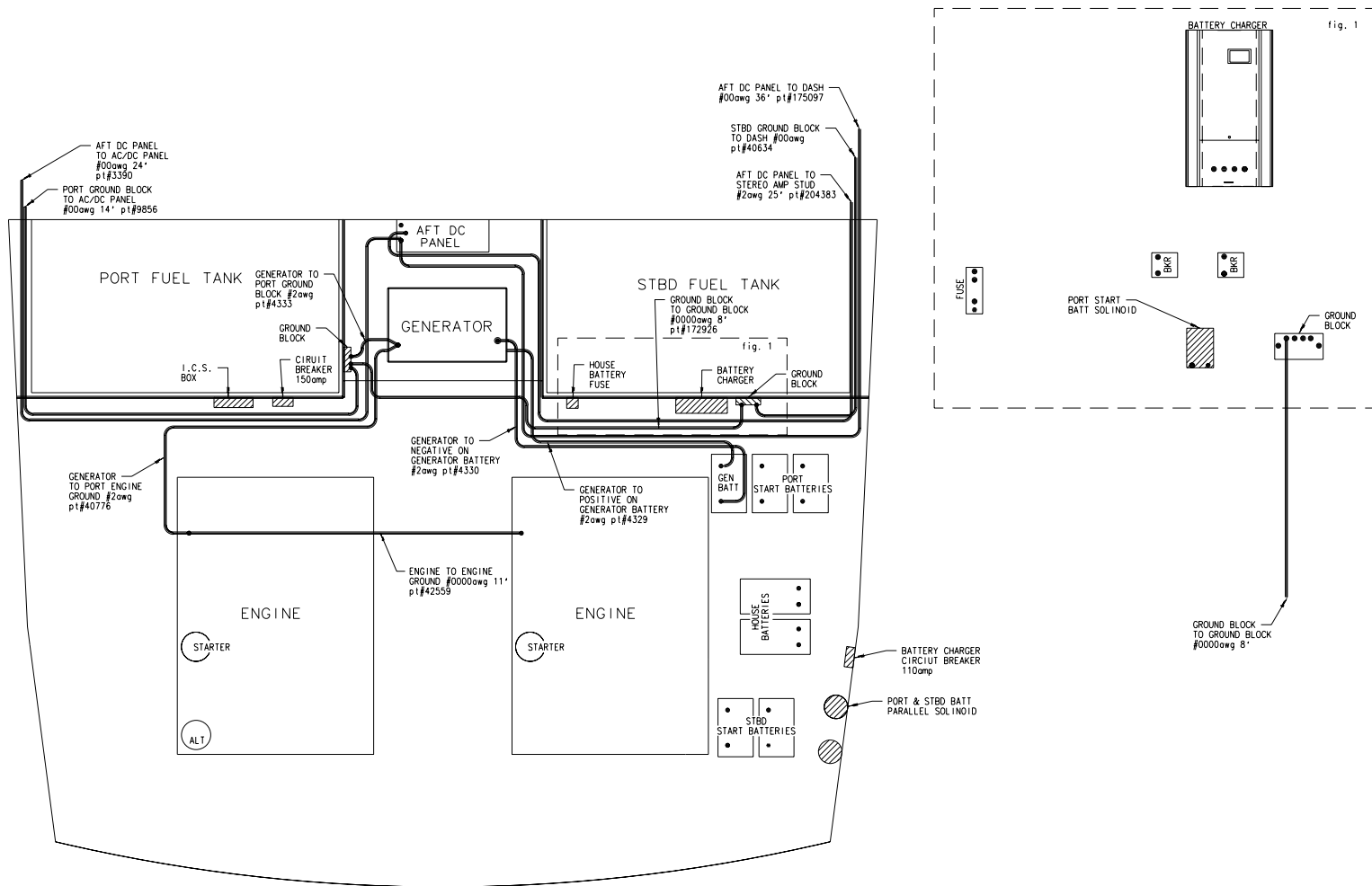
THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: SHOREPOWER

MOD.: 45Y
DR BY: CWM

17

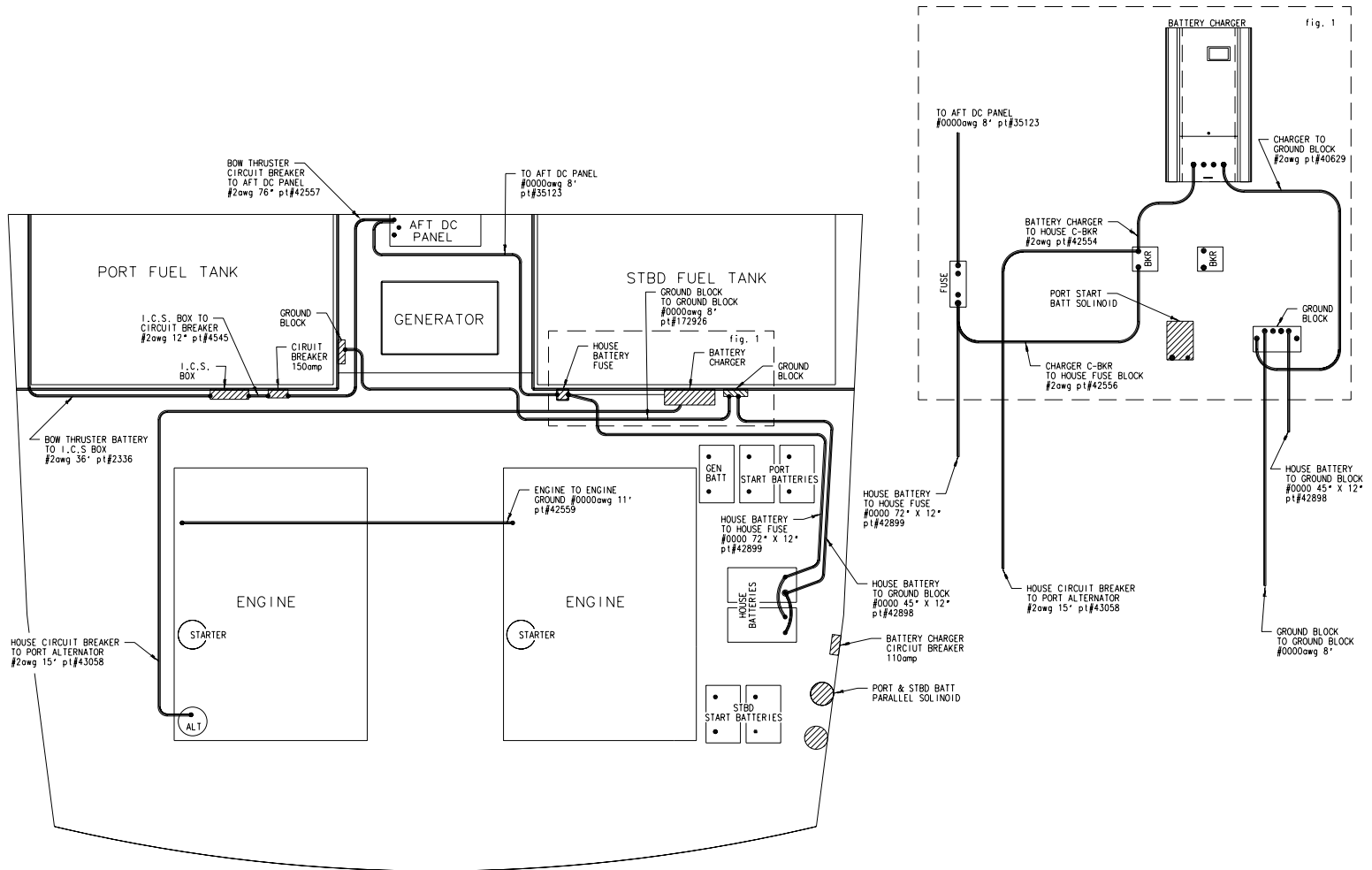
GENERATOR - AC/DC BATTERY CABLES



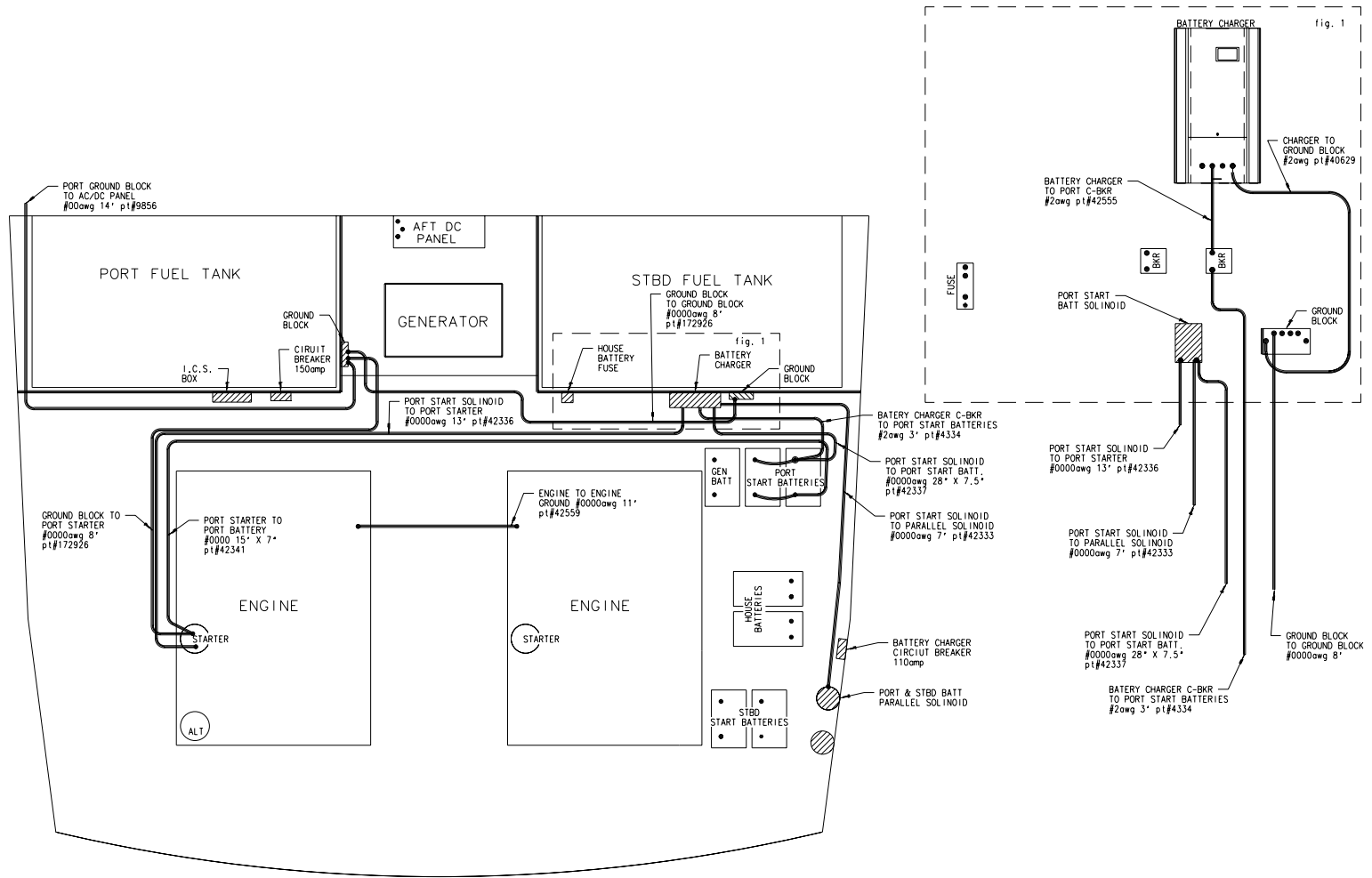
THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: GENERATOR & AC/DC
BATTERY CABLES
MOD.: 45Y
DR BY: CWM
18A

TITLE: HOUSE & BOW THRUSTER BATTERY CABLES	
MOD.: 45Y	18B
DR BY: CWM	

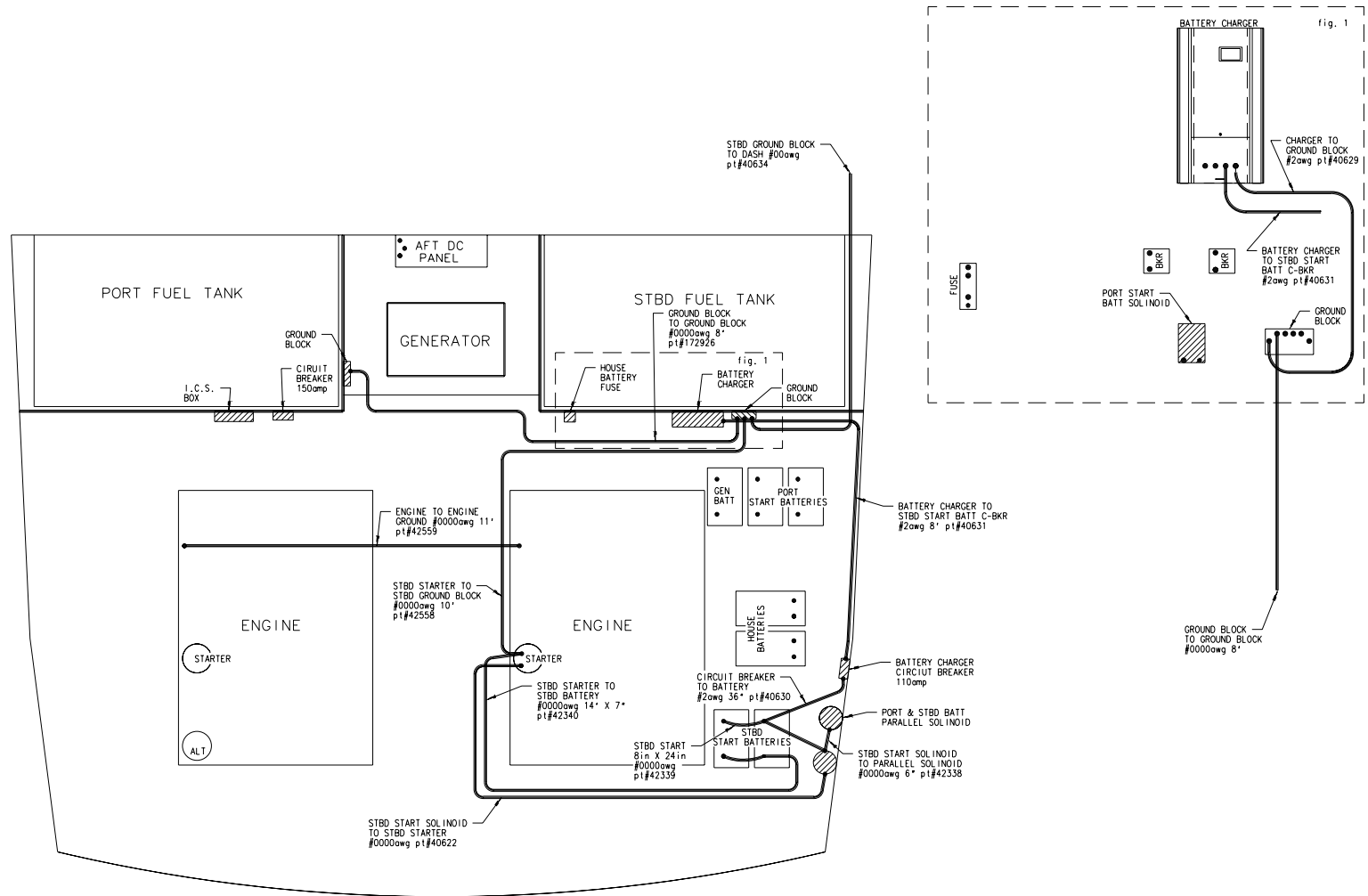


PORT BATTERY CABLES



THUNDERBIRD
PRODUCTS
ENGINEERING

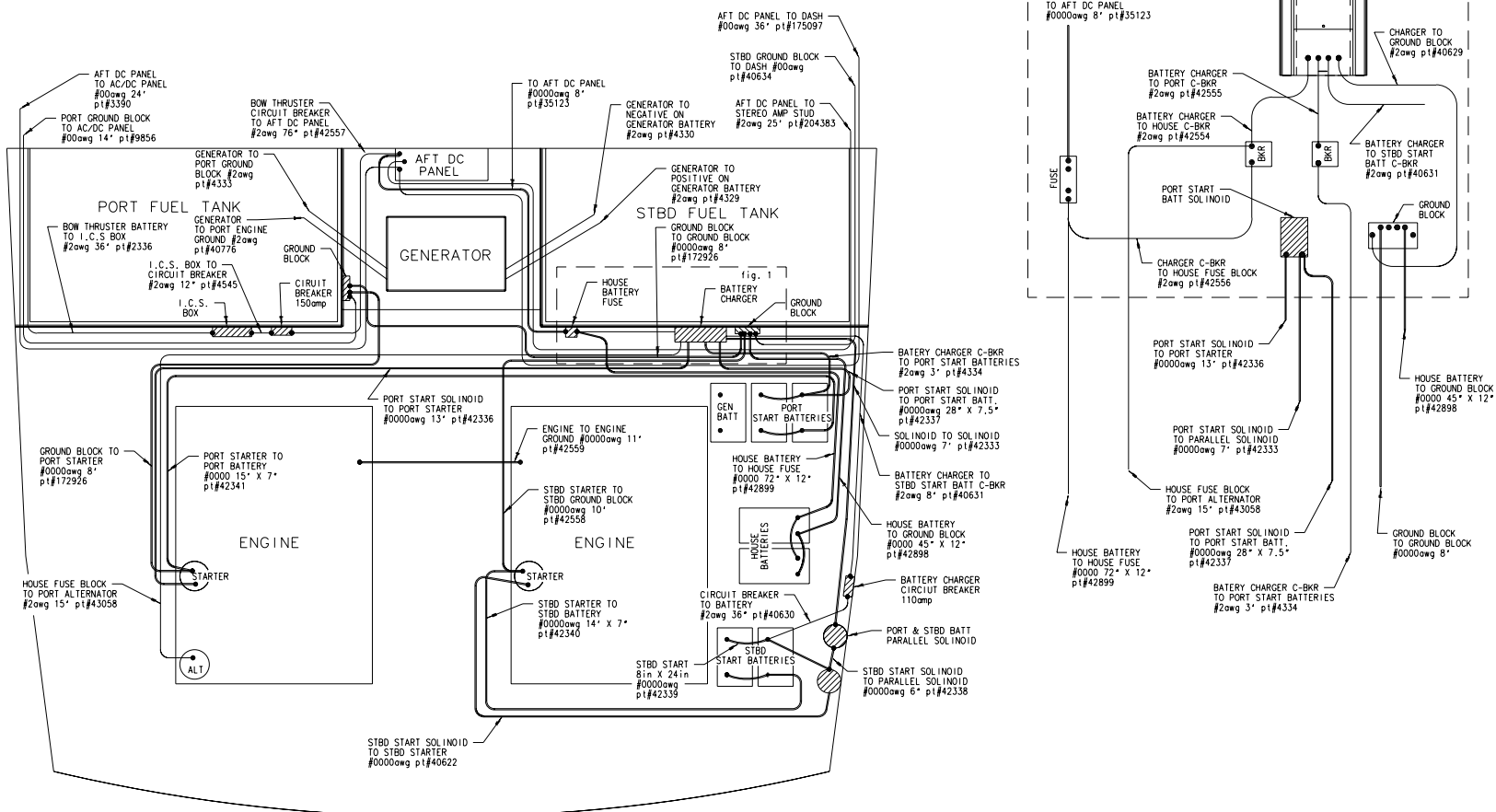
STARBOARD BATTERY CABLES



THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: STBD BATTERY CABLES	
MOD.: 45Y	18D
DR BY: CWM	

BATTERY CABLE OVERVIEW



MOD.: 45Y
DR BY: CWM

18E

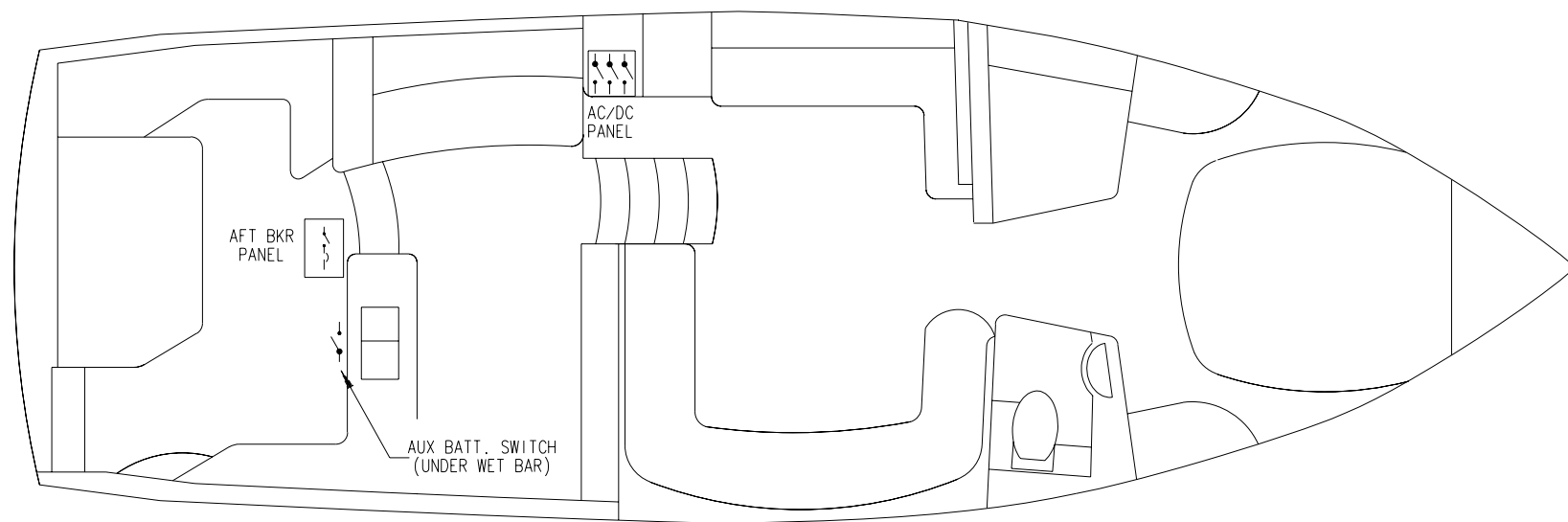
LEGEND

SWITCH



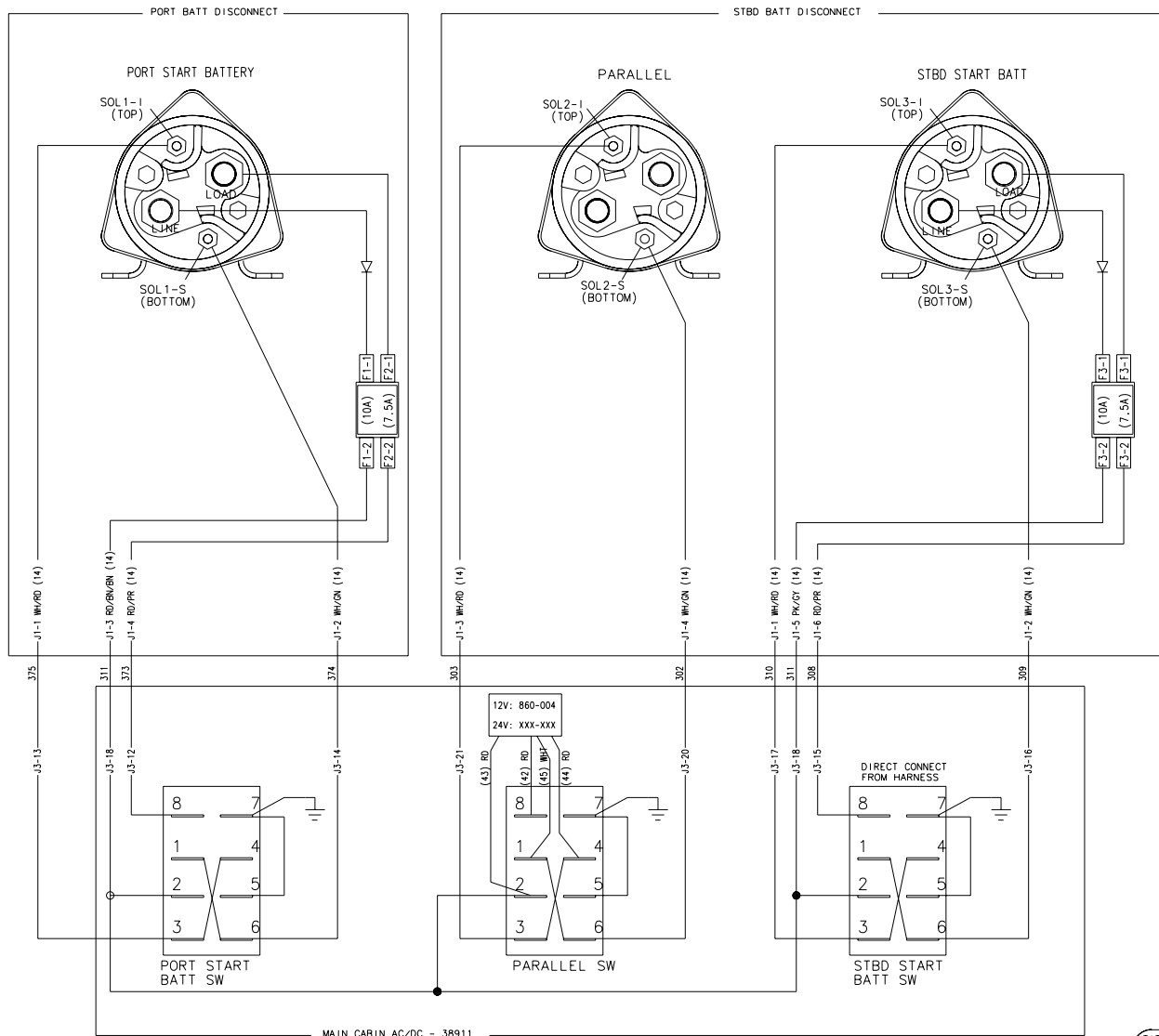
NOTE:

REFER TO PAGE 22 FOR DETAILED
SCHEMATIC INFORMATION ABOUT THE
12V DC SUPPLY SWITCHES.



THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: 12V SUPPLY SWITCHES, LOCATION	
MOD.: 45Y	19
DR BY: CWM	

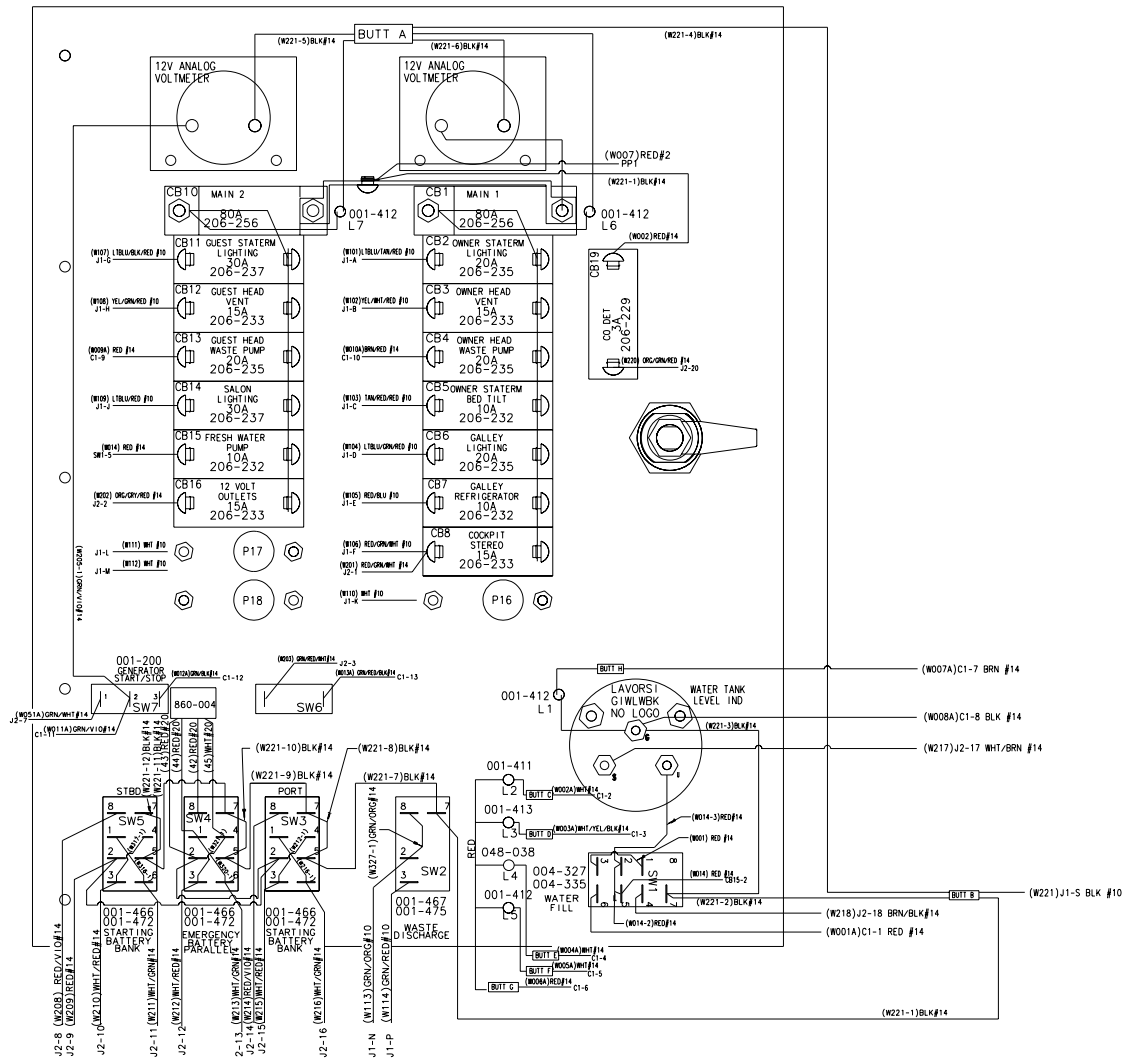


THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: 12V SUPPLY
SWITCHES, DETAIL

MOD.: 45Y
DR BY: CWM

20

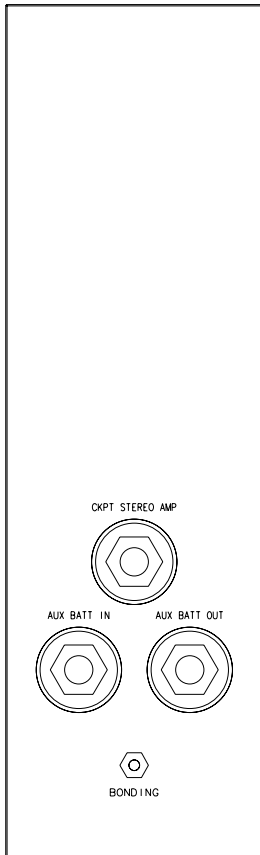


THUNDERBIRD
PRODUCTS
ENGINEERING

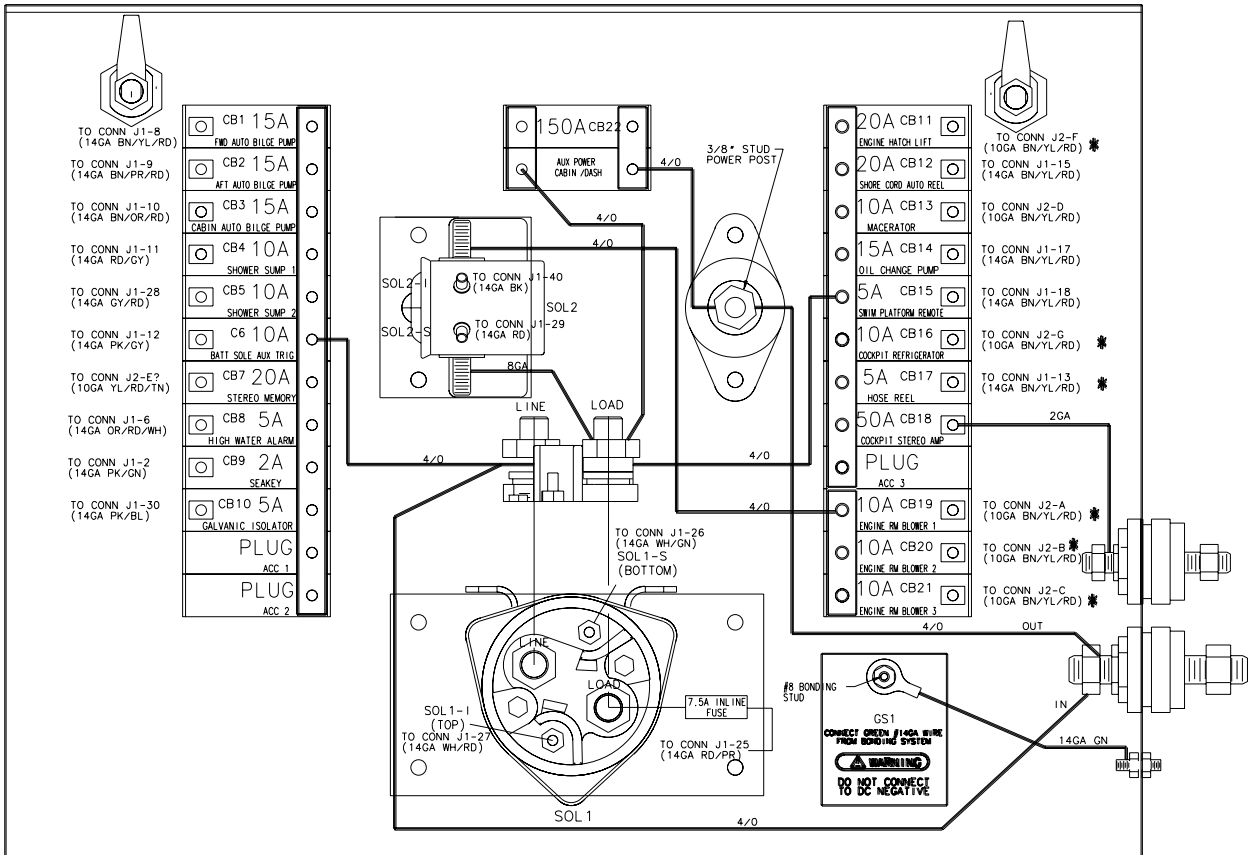
TITLE: 12V AC/DC
PANEL SCHEMATIC

MOD.: 45Y
DR BY: CWM

2.



EXTERIOR LEFT SIDE VIEW



PANEL FACE REAR VIEW

LEGEND

GROUND 

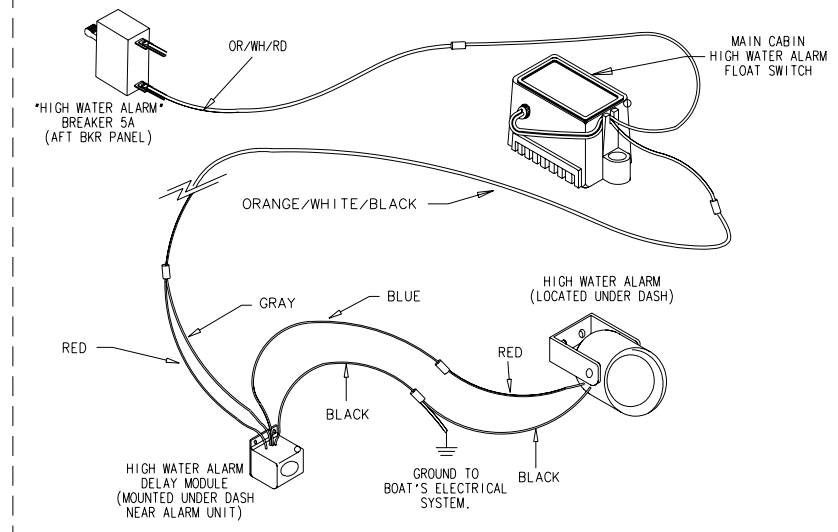
ALARM 

FLOAT SWITCH 

PLUGS 

10 SECOND DELAY MODULE

FIG. 1



TO OPERATE:

1. AT THE AFT BKR PANEL, SWITCH THE "HIGH WATER ALARM" BREAKER TO "ON".

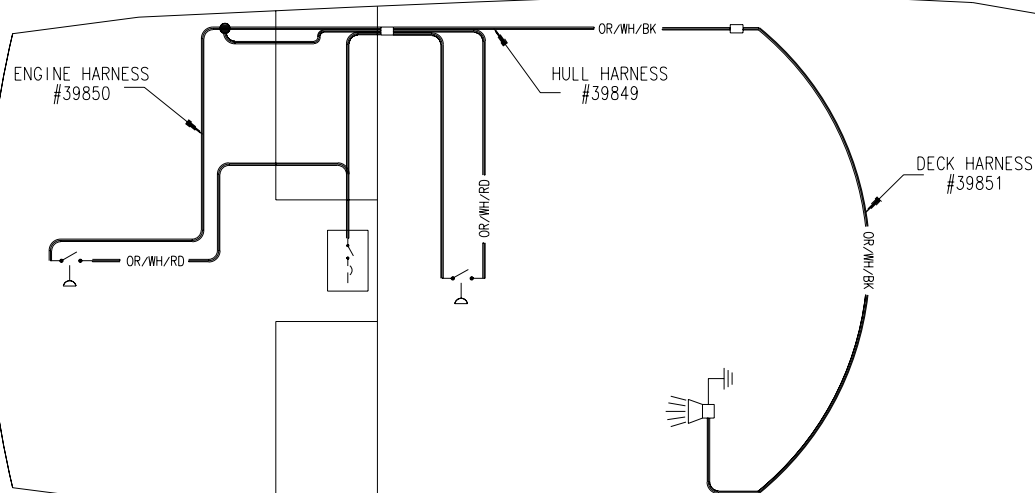
NOTE:

THE "AUX BATT" SWITCH DOES NOT NEED TO BE SWITCHED TO "ON" FOR THE HIGH WATER ALARM TO WORK.

WHEN WATER IN THE ENGINE BILGE OR CABIN IS AT A LEVEL THAT MAY REQUIRE MANUAL PUMPING, THE UNDER-DASH ALARM WILL SOUND.

WHEN ALARM SOUNDS:

1. CHECK ENGINE ROOM AND CABIN FOR HIGH WATER.
2. CHECK BILGE PUMPS TO SEE IF THEY ARE FUNCTIONING PROPERLY.
3. CONSULT MARINA'S SERVICE DEPARTMENT OR CALL FORMULA'S TECHNICAL ASSISTANCE GROUP.



TITLE: HIGH WATER ALARM

MOD.: 45Y

OR BY: CWM

23




THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

GROUND 

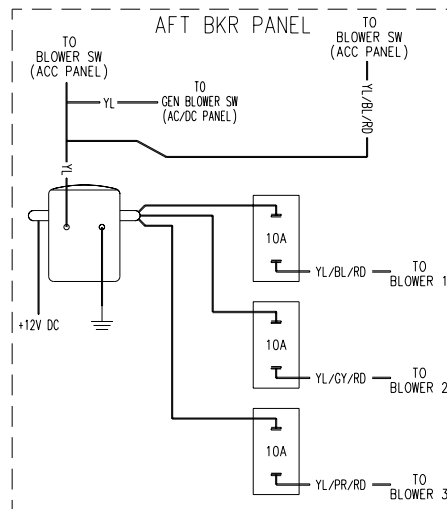
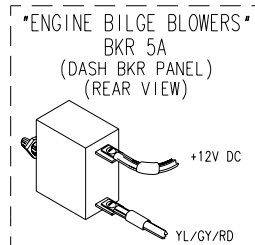
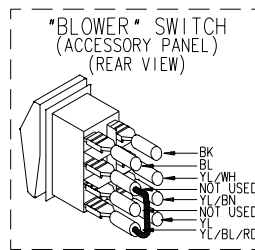
BLOWER 

DPDT SWITCH 

PLUGS 

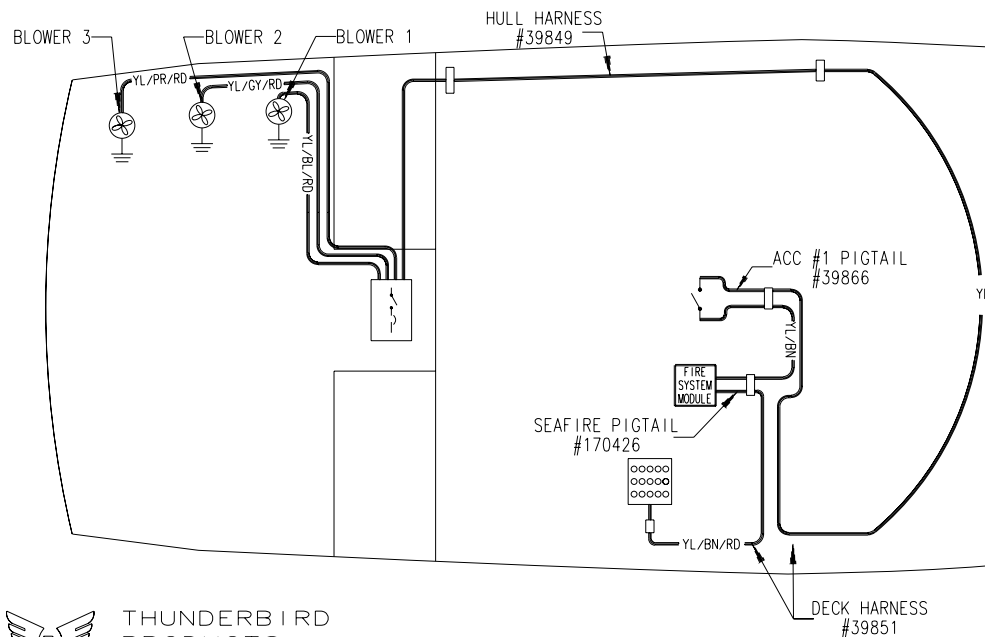
BREAKER 

BREAKER PANEL 



TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE "ENGINE BILGE BLOWERS" BREAKER MUST BE PUSHED IN (CLOSED).
3. AT THE AFT BKR PANEL, SWITCH THE "ENGINE ROOM BLOWER 1", "ENGINE ROOM BLOWER 2", AND "ENGINE ROOM BLOWER 3" BREAKERS TO "ON".
4. THE ENGINE BILGE BLOWERS CAN NOW BE OPERATED BY THE "BLOWER" SWITCH LOCATED ON THE ACCESSORY PANEL.
5. THE ENGINE BILGE BLOWERS CAN ALSO BE OPERATED BY SWITCHING THE "GENERATOR BLOWER" BREAKER AT THE AC/DC PANEL, LOCATED IN THE CABIN, TO "ON".



THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: BLOWERS,
ENGINE BILGE

MOD.: 45Y
DR BY: CWM


24

LEGEND

GROUND 

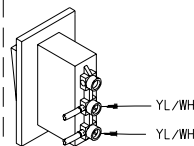
BLOWER 

BREAKER 

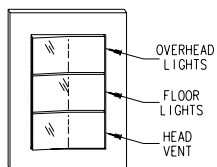
PLUGS 

SWITCH 

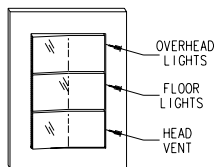
OWNER HEAD BLOWER
SWITCH
(REAR VIEW)



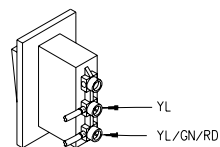
OWNER HEAD LIGHT SWITCHES



GUEST HEAD LIGHT SWITCHES

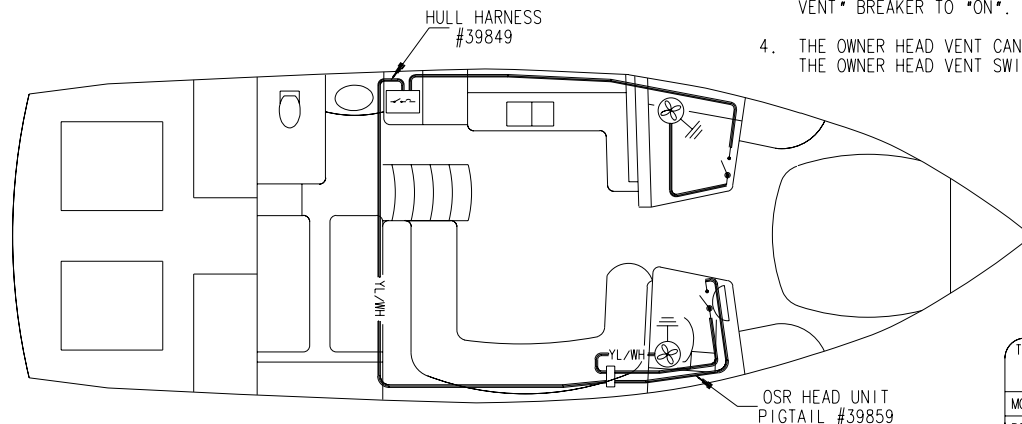


GUEST HEAD BLOWER SWITCH (REAR VIEW)



TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 1" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "OWNER HEAD VENT" BREAKER TO "ON".
4. THE OWNER HEAD VENT CAN NOW BE OPERATED BY THE OWNER HEAD VENT SWITCH.



TITLE: BLOWER,
OWNER HEAD

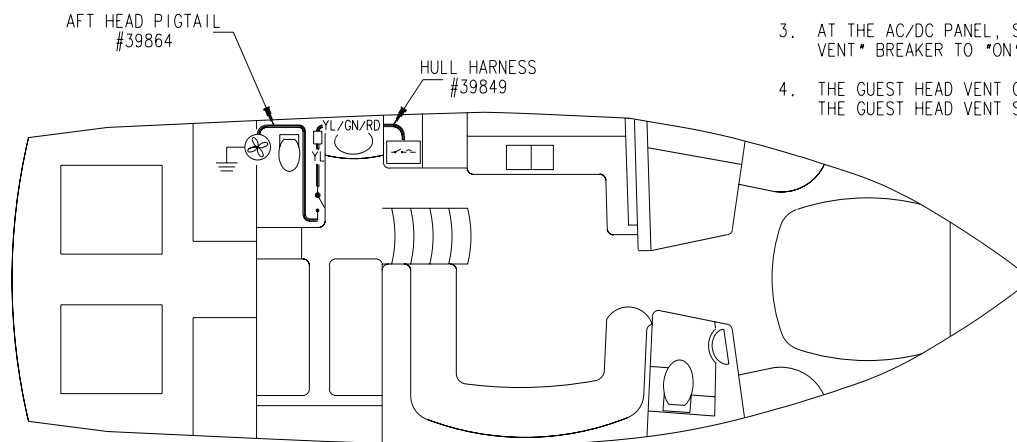
MOD.: 45Y

DR BY: CWM

25A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 2" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "GUEST HEAD VENT" BREAKER TO "ON".
4. THE GUEST HEAD VENT CAN NOW BE OPERATED BY THE GUEST HEAD VENT SWITCH.



TITLE: BLOWER,
GUEST HEAD

MOD.: 45Y

DR BY: CWM

25B




THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

GROUND 

BLOWER 

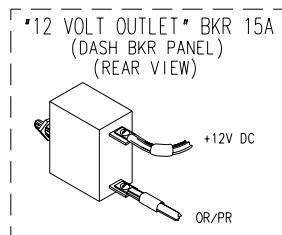
BREAKER 

PLUGS 

SWITCH 

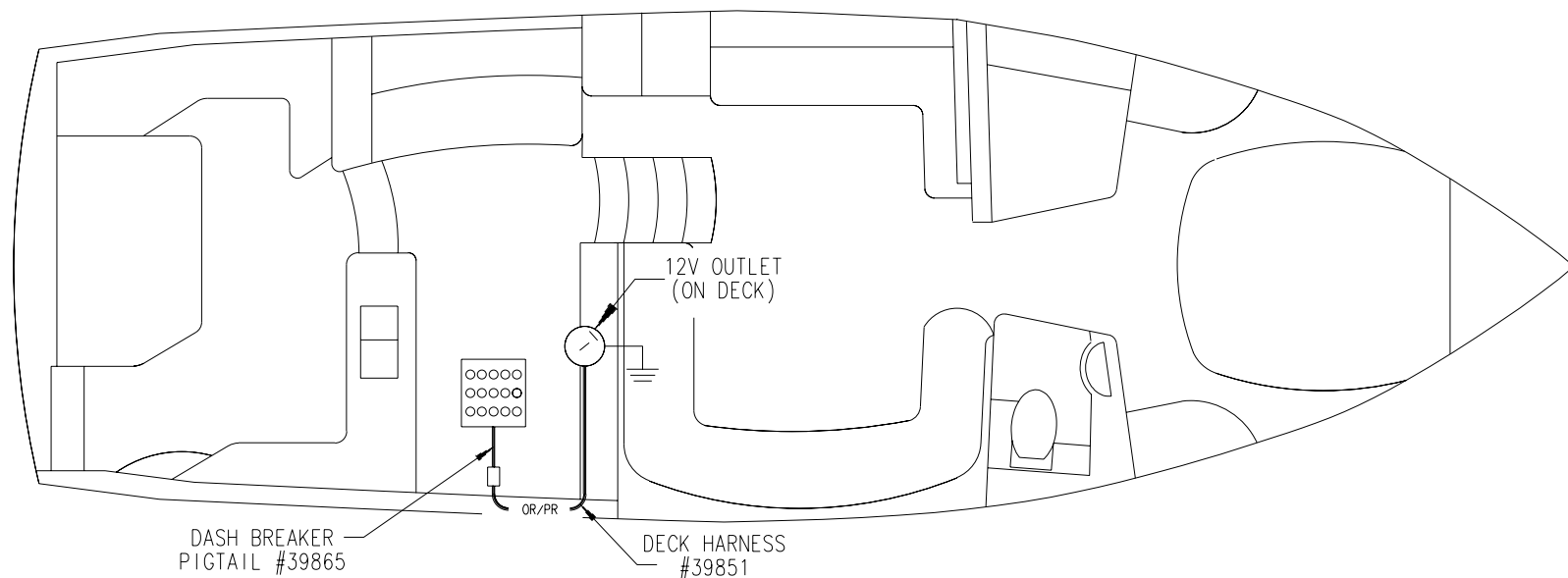
BREAKER
PANEL 

12V OUTLET 



TO OPERATE (DECK 12V OUTLET):

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE "12 VOLT OUTLET" BREAKER MUST BE PUSHED IN (CLOSED).
3. THE 12V OUTLET IS NOW SUPPLIED WITH POWER.



TITLE: 12V OUTLETS

MOD.: 45Y






DR BY: CWM

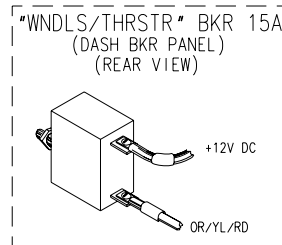
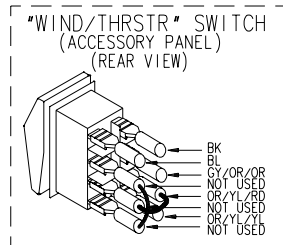
26



THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

PLUGS	
BREAKER PANEL	
GROUND	
SWITCH	
SOLENOID	



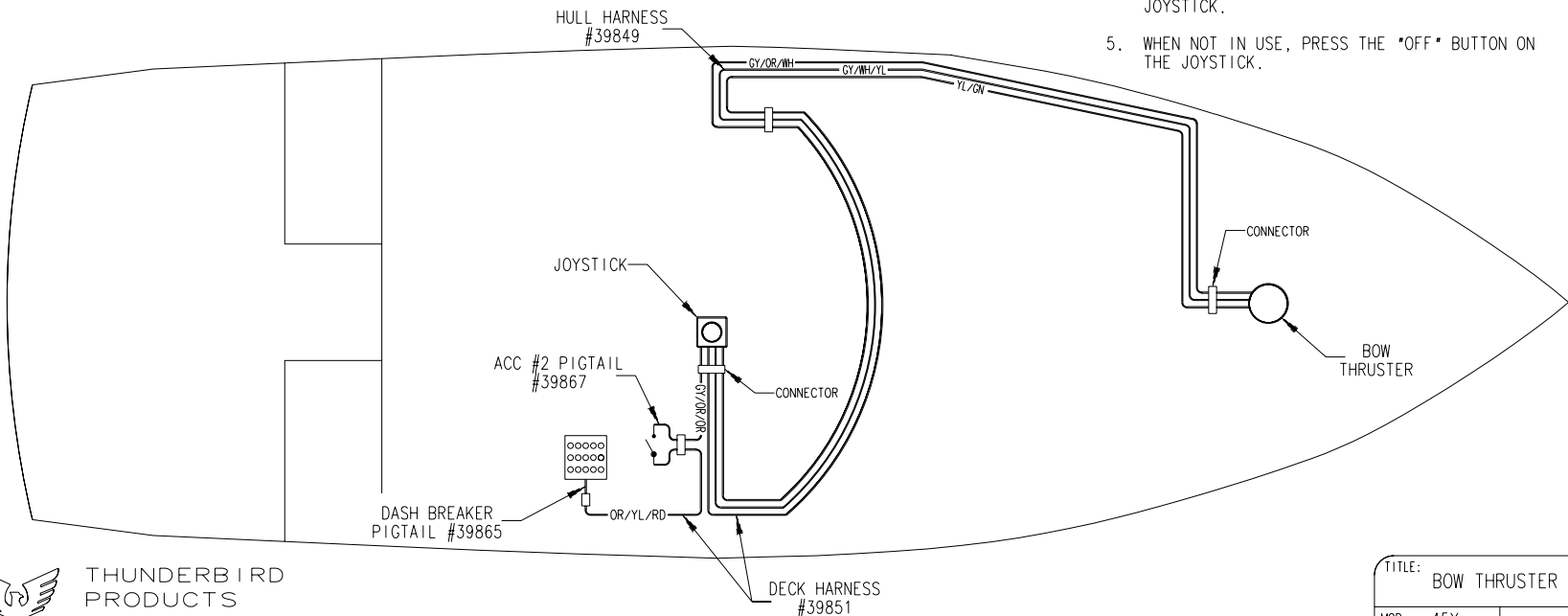
WARNING!

DO NOT OPERATE BOW THRUSTER!

It is very dangerous to run the thruster out of the water, even for a few seconds, the motor will over speed by 300%, causing damage to the seals etc. and the propeller will cause serious damage to whatever it comes into contact with and invalidate the warranty.

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE "WINDLS/THRSTR" BREAKER MUST BE PUSHED IN (CLOSED).
3. LOCATED ON THE ACCESSORY PANEL, THE "WIND/THRSTR" SWITCH MUST BE IN THE "THRSTR" POSITION. (WINDLASS AND BOW THRUSTER CANNOT BE OPERATED SIMULTANEOUSLY.)
4. ON THE BOW THRUSTER JOYSTICK, LOCATED ON THE DASH, PRESS BOTH "ON" BUTTONS SIMULTANEOUSLY. THE BOW THRUSTER CAN NOW BE OPERATED BY THE JOYSTICK.
5. WHEN NOT IN USE, PRESS THE "OFF" BUTTON ON THE JOYSTICK.



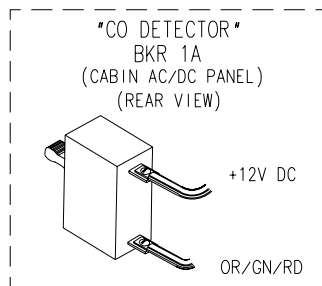
LEGEND

GROUND 

PLUGS 

BREAKER
PANEL 

BREAKER 

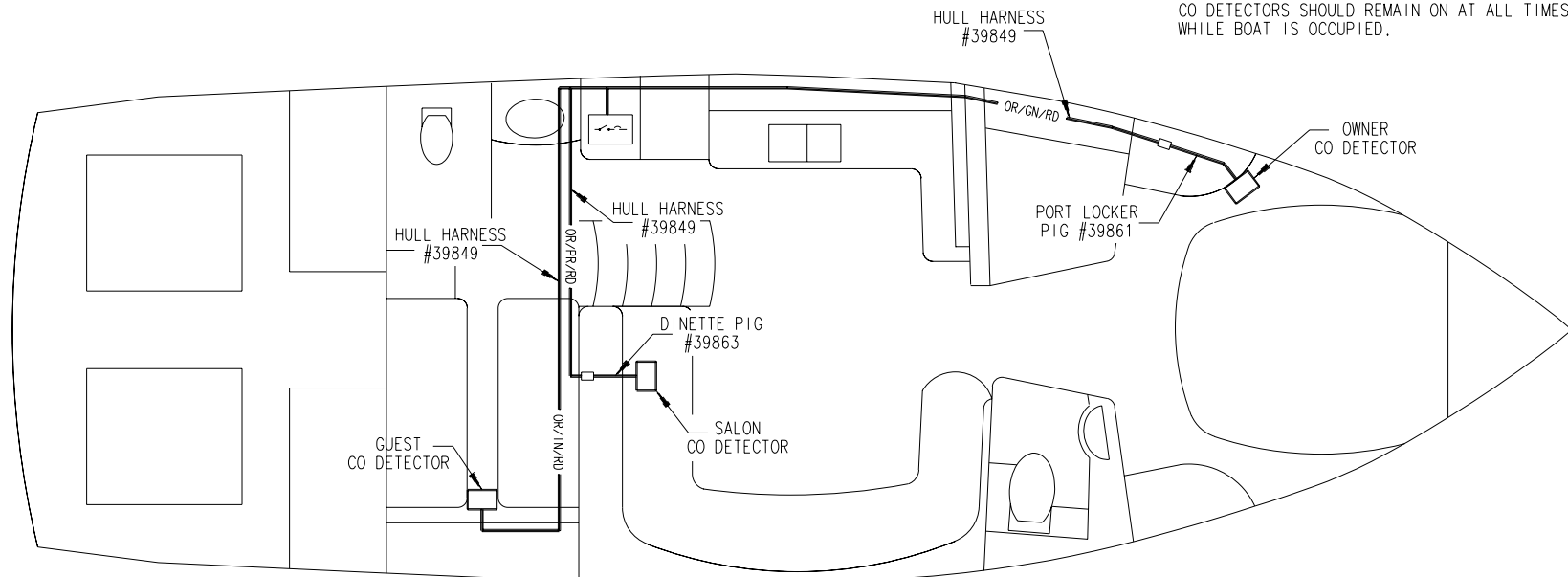


TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE "CO DETECTOR" BREAKER TO "ON".
3. CHECK THE CO SENSORS TO BE SURE THE GREEN POWER "ON" INDICATOR IS ILLUMINATED.
4. AFTER THE INITIAL TEN (10) MINUTE WARM-UP PERIOD, PRESS THE "TEST" BUTTON. IF THE SENSOR IS OK THE AUDIBLE ALARM WILL SOUND AND THE GREEN POWER "ON" LIGHT WILL CHANGE TO RED.

NOTE: THE CO DETECTOR PROVIDES AN AUDIBLE AND VISUAL ALARM IF CARBON DIOXIDE IS PRESENT IN THE CABIN AREA.

CO DETECTORS SHOULD REMAIN ON AT ALL TIMES WHILE BOAT IS OCCUPIED.



TITLE: CO DETECTORS

MOD.: 45Y

DR BY: CWM

28



THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

GROUND 

PLUGS 

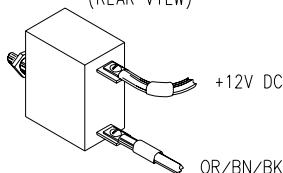
BREAKER PANEL 

SWITCH 

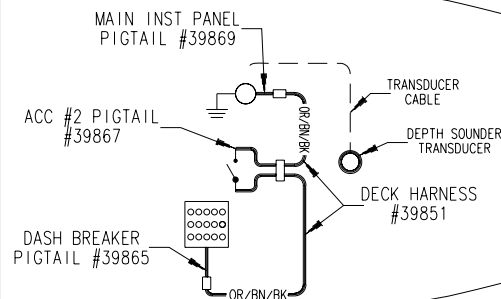
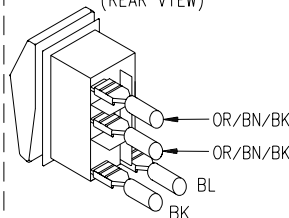
BREAKER 

FUSE HOLDER 

"DEPTH SOUNDER" BKR 5A
(DASH BKR PANEL)
(REAR VIEW)

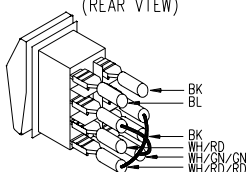


"DEPTH SOUNDER" SWITCH
(ACCESSORY PANEL)
(REAR VIEW)

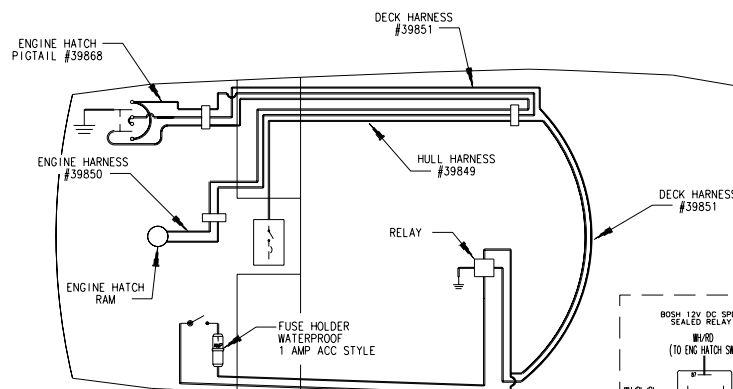
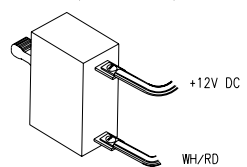


TITLE: DEPTH SOUNDER
MOD.: 45Y
DR BY: CWM
29A

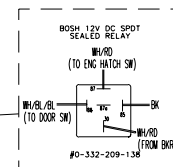
"ENG HATCH" SWITCH
(AFT BKR PANEL)
(REAR VIEW)



"ENGINE HATCH LIFT" BKR 20A
(AFT BKR PANEL)
(REAR VIEW)



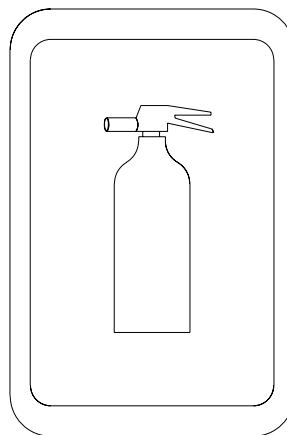
- TO OPERATE:
1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
 2. AT THE AFT BKR PANEL, SWITCH THE "ENGINE HATCH LIFT" BREAKER TO "ON".
 3. THE ENGINE HATCH CAN BE RAISED AND LOWERED BY THE "ENG HATCH" SWITCH, LOCATED UNDER THE AFT COCKPIT SEAT.



TITLE: ENGINE HATCH
MOD.: 45Y
DR BY: CWM
29B

LEGEND

PLUGS	□ □
GROUND	⊥
FIRE EXTINGUISHER	⊕



LABEL REPRESENTS THE PRESENCE OF A DRY CHEMICAL EXTINGUISHER WITHIN

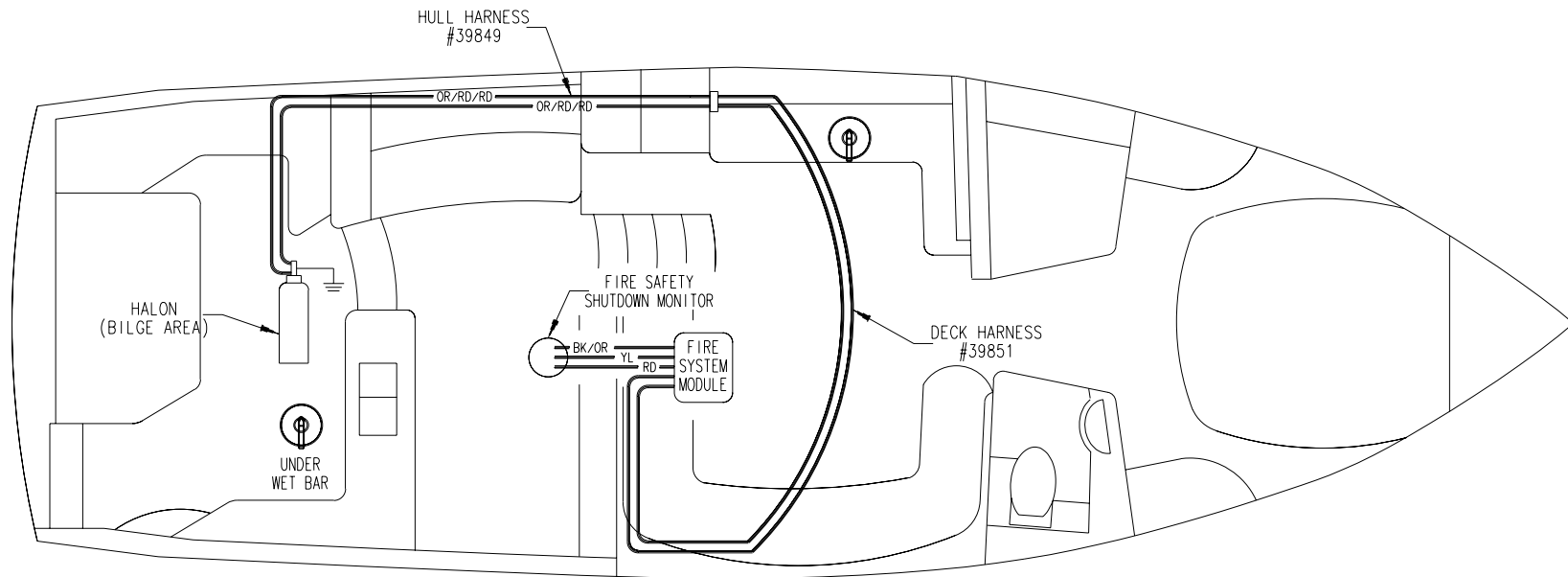
OPERATION:

THE ENGINE INTERRUPT/RESTART SYSTEM, WHEN PROPERLY INSTALLED, HAS PROVISIONS FOR SIMULTANEOUS EQUIPMENT SHUTDOWN UPON EXTINGUISHER DISCHARGE. THIS IS ACCOMPLISHED BY USE OF AN IN-CYLINDER PRESSURE SWITCH, WHICH IS STANDARD EQUIPMENT ON ALL AUTOMATIC FIRE EXTINGUISHERS.

IMMEDIATELY UPON SYSTEM DISCHARGE THE PRESSURE SWITCH WILL DEACTIVATE THE CONTROL UNIT. THIS IN TURN WILL OPEN OR CLOSE THE CONTROL CONTACTS THEREBY DISRUPTING ELECTRICALLY CONTROLLED FUEL SOLENOID VALVES AND AIR DAMPERS ON DIESEL(S).

DISPLAY UNIT INDICATOR LIGHT STATUS

SYSTEM STATUS	AUDIBLE SOUND	GREEN LED	RED LED
NORMAL POWER "ON"	OFF	ON	OFF
ALARM (DISCHARGE)	ON	OFF	ON
OVERRIDE MODE	OFF	OFF	OFF



TITLE: FIRE SYSTEM

MOD.: 45Y

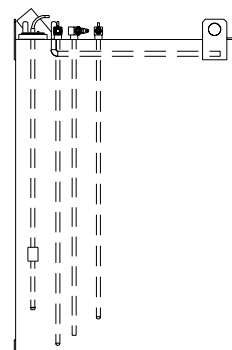
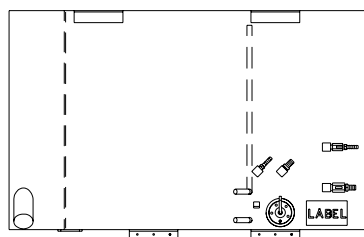
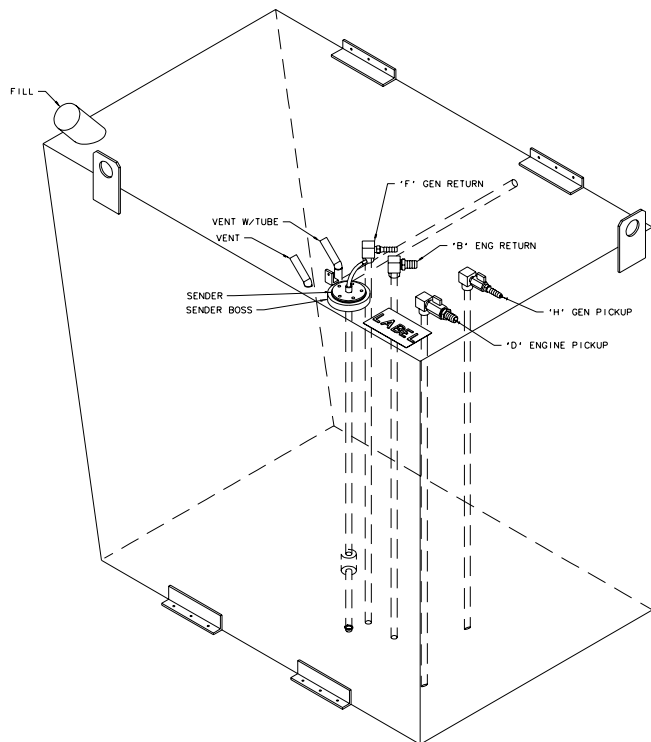
DR BY: CWM

30

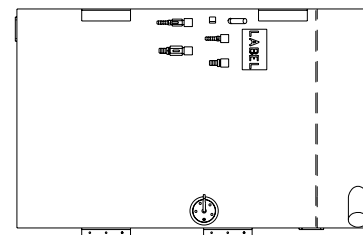
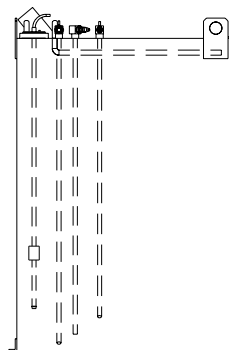
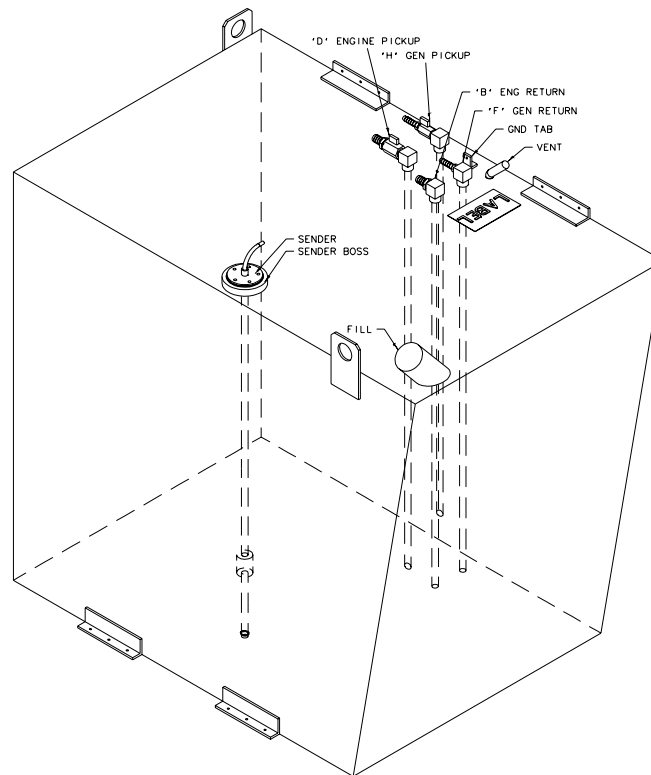


THUNDERBIRD
PRODUCTS
ENGINEERING

PORT FUEL TANK



STBD FUEL TANK



THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: FUEL SYSTEM
MOD.: 45Y
DR BY: CWM

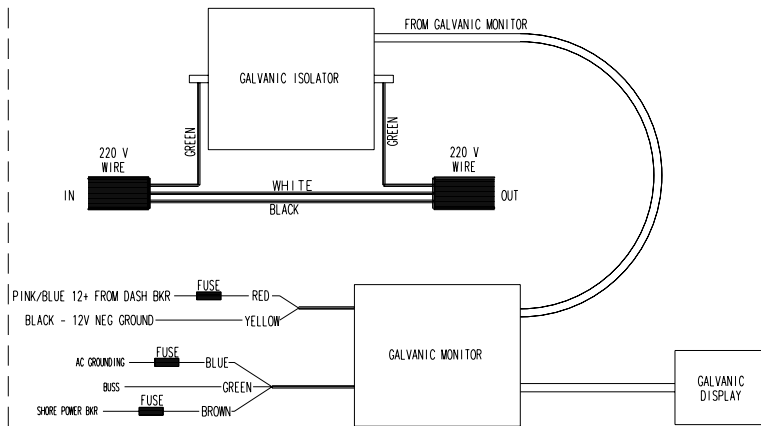
LEGEND

PLUGS 

BREAKER 

GROUND 

FIG 1



TEST PROCEDURE:

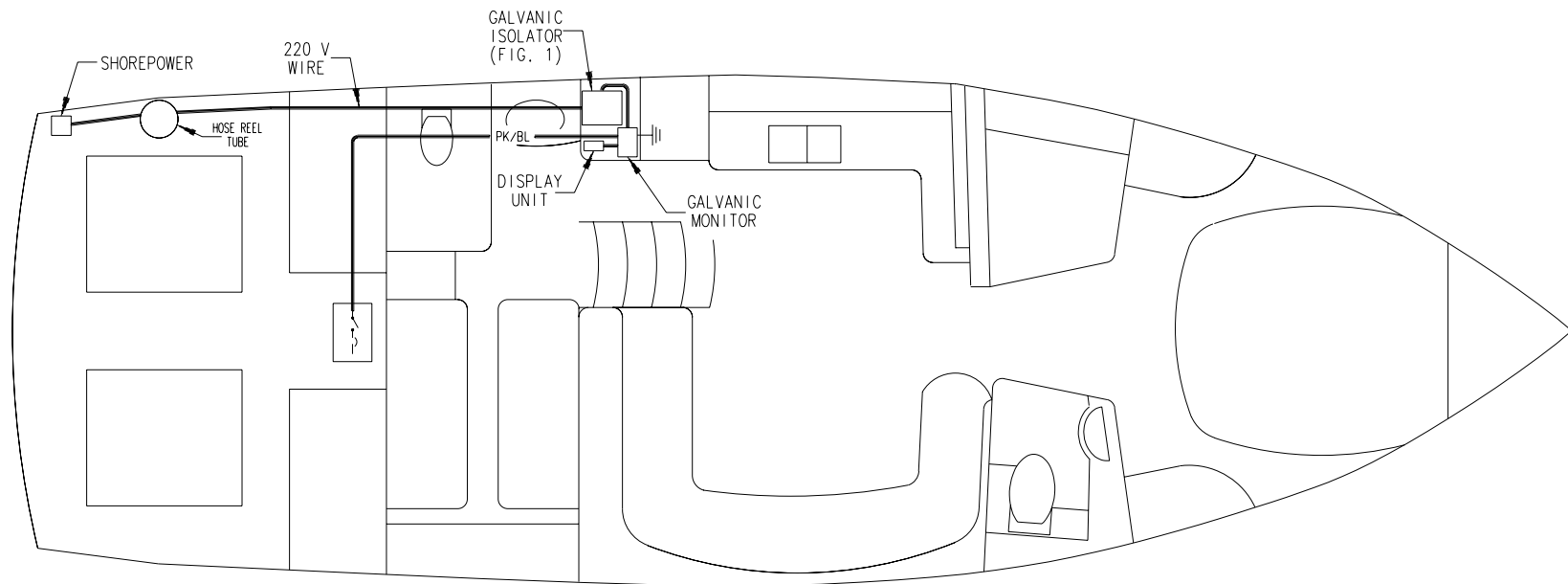
1. PLUG IN SHORE CORD AND TURN ON SHOREPOWER BREAKERS.
2. LOOK AT GALVANIC DISPLAY; IT SHOULD SAY GROUND WIRE NORMAL AND GALVANIC ISOLATOR NORMAL.

NOTE:

THE BYPASS SWITCH, ON THE GALVANIC MONITOR, MUST BE IN THE OFF POSITION.

THE BONDING SYSTEM MONITOR ENABLE SWITCH, ON THE GALVANIC MONITOR, MUST BE IN THE OFF POSITION.

GALVANIC ISOLATOR WILL OPERATE AUTOMATICALLY WHEN BOAT IS SUPPLIED WITH SHOREPOWER.



LEGEND

GROUND 

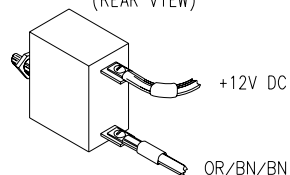
PLUGS 

BREAKER PANEL 

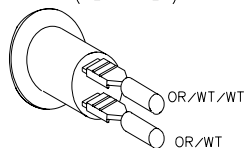
SWITCH 

COMPRESSOR 

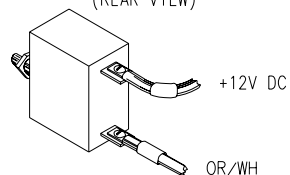
"GPS" BKR 5A
(DASH BKR PANEL)
(REAR VIEW)



"HORN" SWITCH
(IGNITION PANEL)
(REAR VIEW)

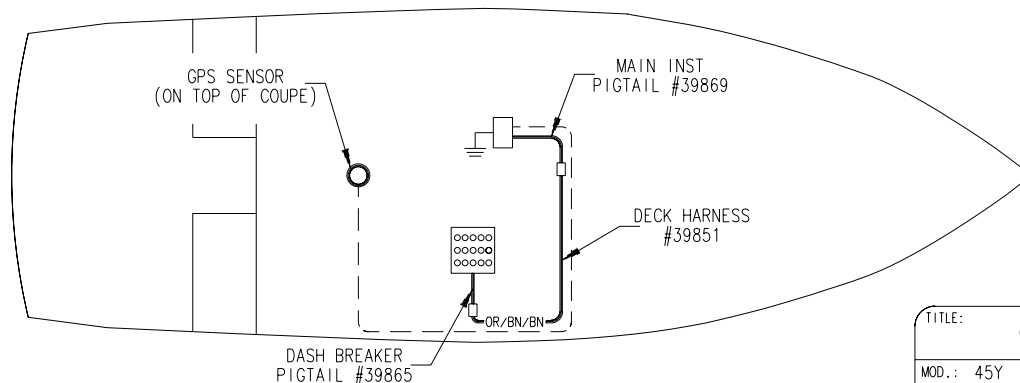


"HORN" BKR 20A
(DASH BKR PANEL)
(REAR VIEW)



TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE "GPS" BREAKER MUST BE PUSHED IN (CLOSED).
3. THE GPS UNIT CAN BE TURNED ON BY PRESSING THE "POWER" BUTTON LOCATED ON THE GPS UNIT.



TITLE: GPS

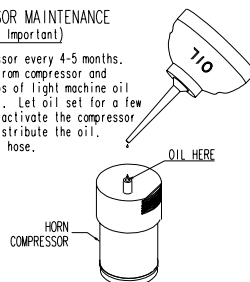
MOD.: 45Y

DR BY: CWM

33A

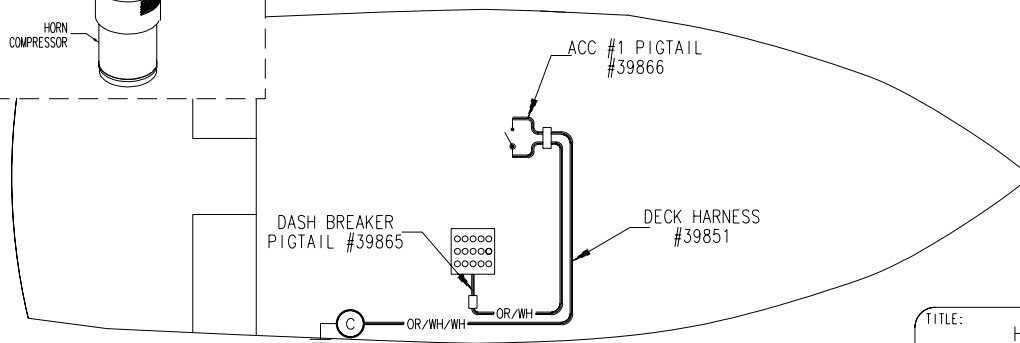
HORN COMPRESSOR MAINTENANCE LUBRICATION (Very Important)

Lubricate compressor every 4-5 months. Remove air hose from compressor and apply 3 to 4 drops of light machine oil into the air port. Let oil set for a few minutes and then activate the compressor momentarily to distribute the oil. Reconnect the air hose.



TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE "HORN" BREAKER MUST BE PUSHED IN (CLOSED).
3. THE HORN CAN NOW BE OPERATED BY THE "HORN" SWITCH LOCATED AT THE ACCESSORY PANEL.



TITLE: HORN

MOD.: 45Y

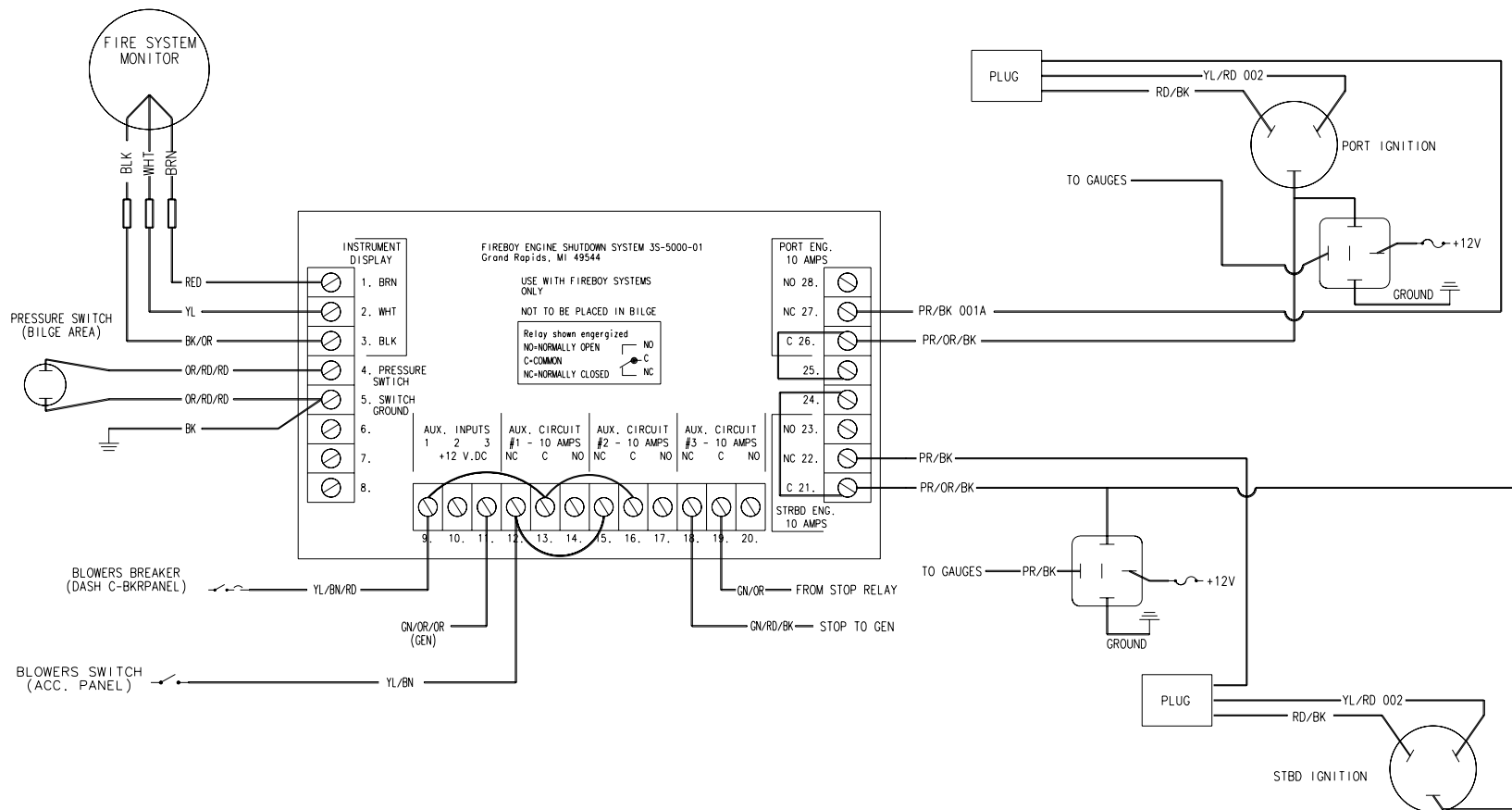
DR BY: CWM

33B



THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

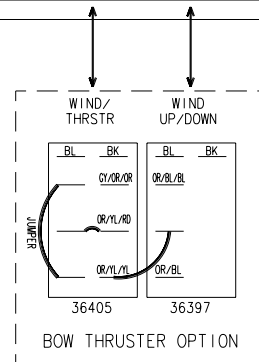
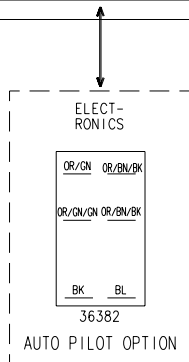
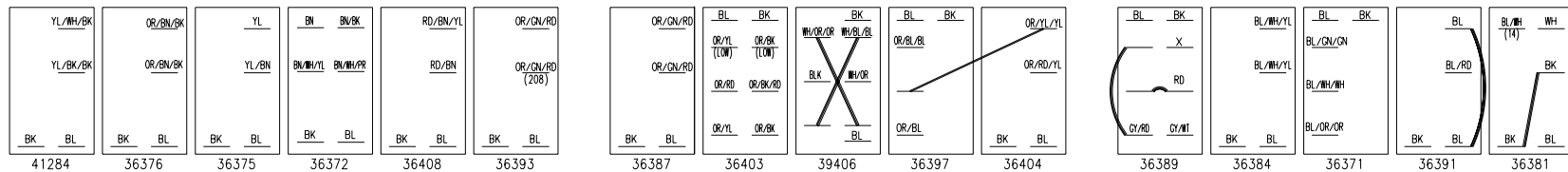


TITLE: IGNITION

MOD.: 45Y
DR BY: CWM

34

A/C DEPTH BLOWER BILGE CABIN PWC WIND-SHIELD WIPERS SUN WIND WINDLS NAV/ANCH ENGINE ARCH PANEL COURT
BOOST SOUNDER BLOWER PUMP BILGE LIFT WASH WIPERS ROOF UP/DOWN ON/OFF LTS ROOM LTS LTS LTS LTS



ACCESSORY PANEL #1

PANEL #40286

PIGTAIL #39866

TITLE: ACCESSORY PANELS

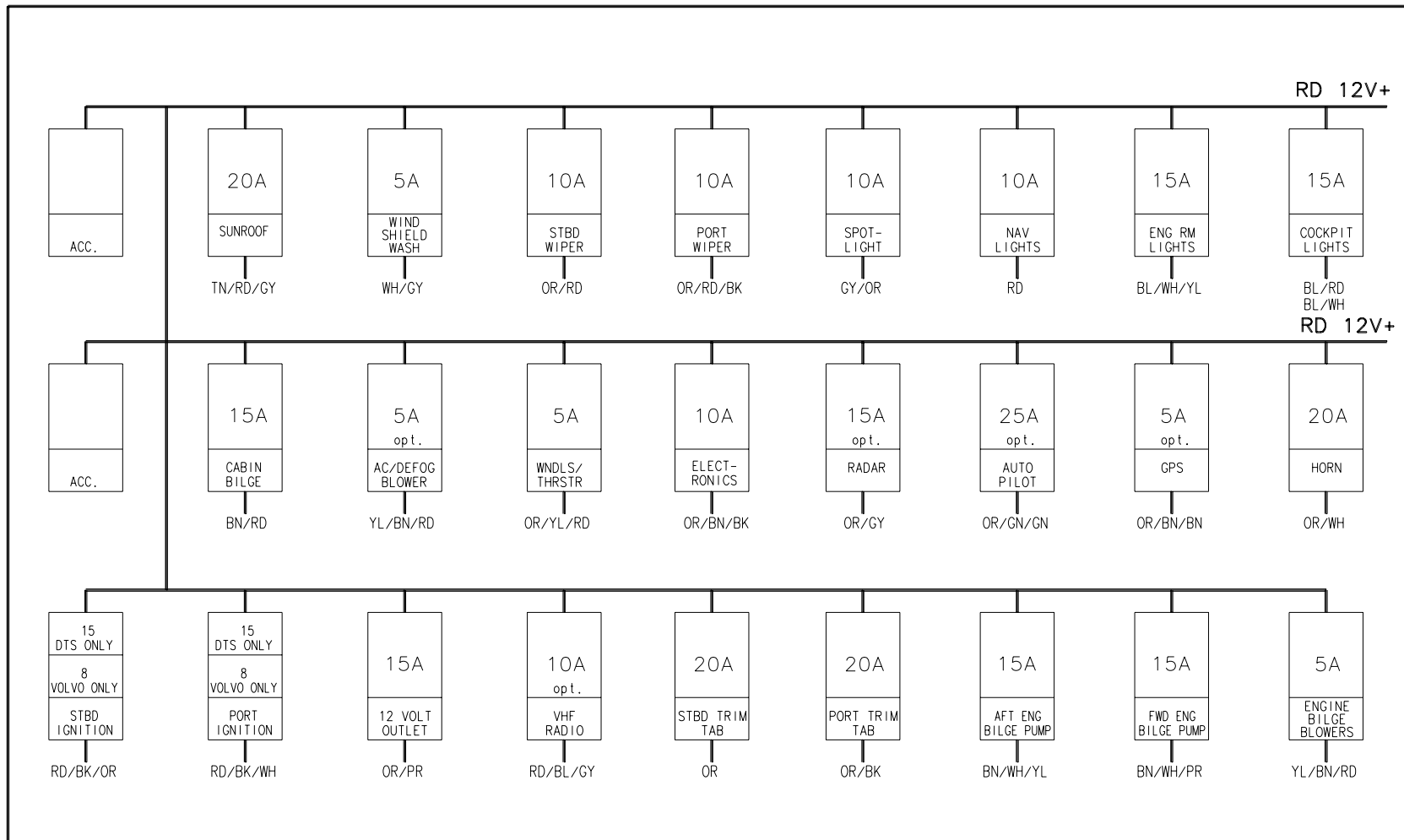
MOD.: 45Y

DR BY: CWM

35



THUNDERBIRD
PRODUCTS
ENGINEERING



(rear view)



THUNDERBIRD
PRODUCTS
ENGINEERING

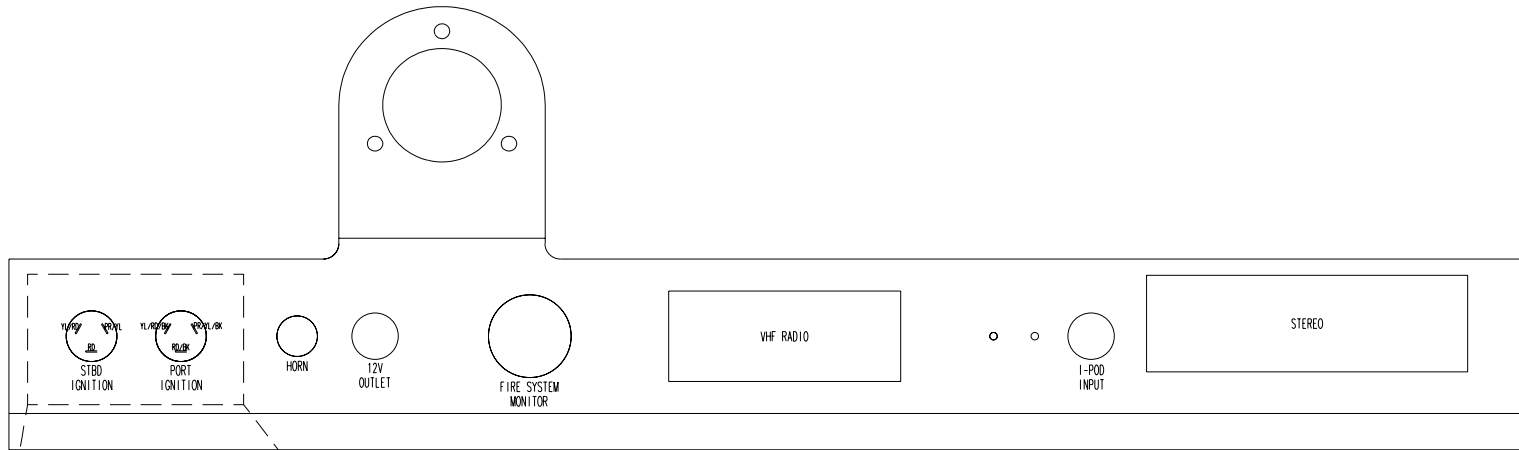
PANEL #39401

PIGTAIL #39865

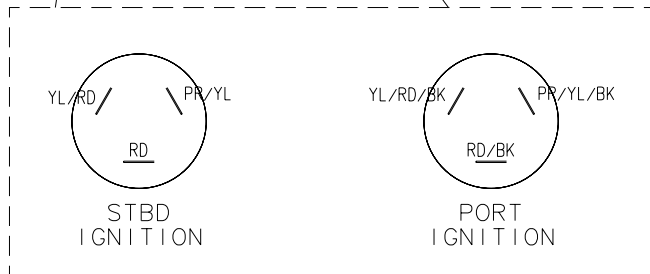
TITLE: DASH
BREAKER PANEL

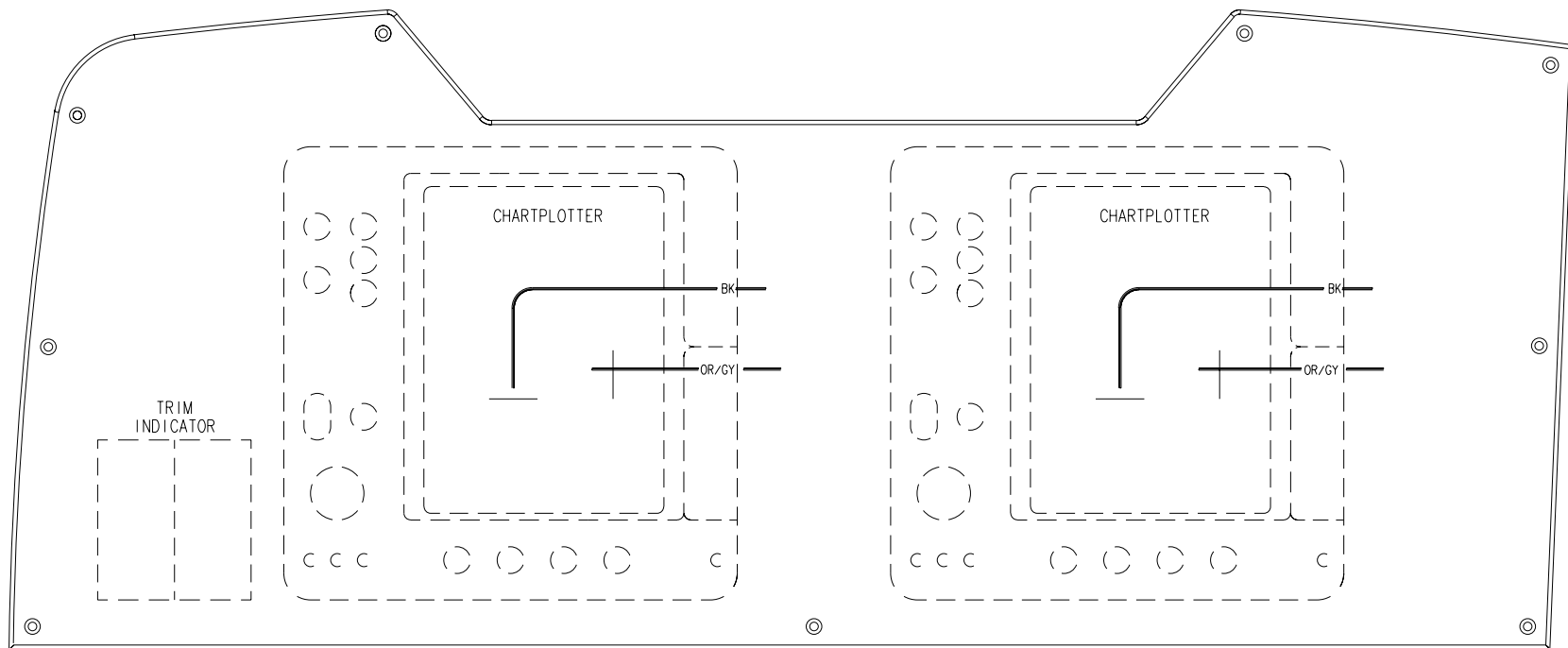
MOD.: 45Y
DR BY: CWM

36



PANEL #40287
(REAR VIEW)





(REAR VIEW)



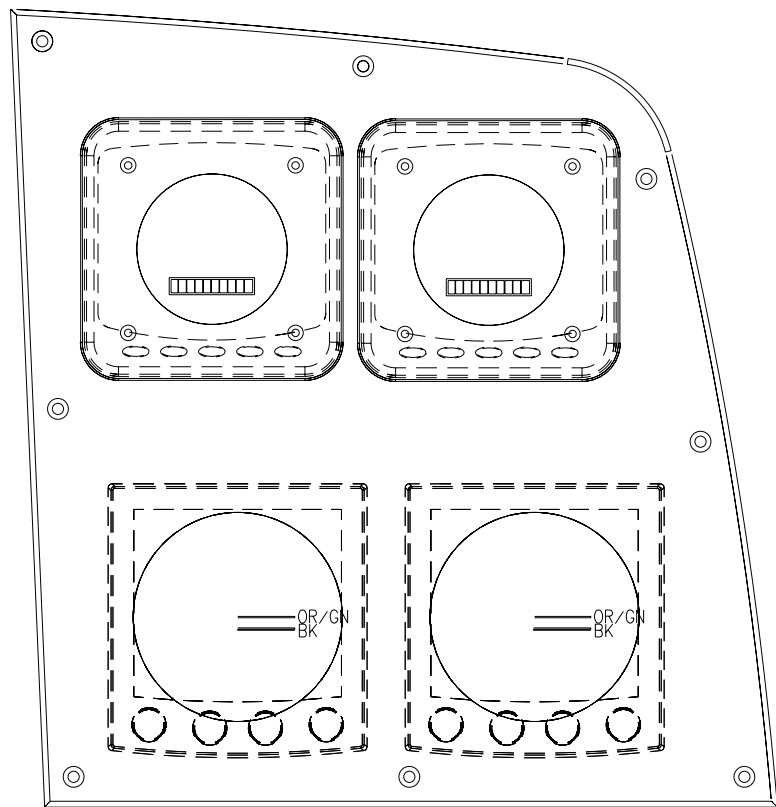
THUNDERBIRD
PRODUCTS
ENGINEERING

PANEL #40289

PIGTAIL #39869

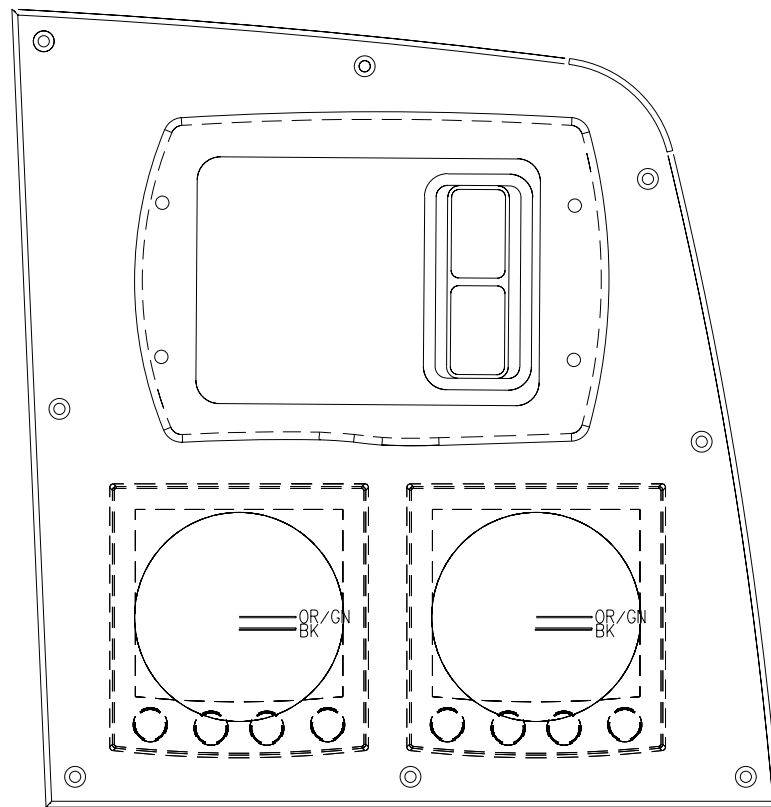
TITLE: MAIN INSTRUMENT PANEL	
MOD.: 45Y	38
DR BY: CWM	

VOLVO EVC DISPLAY



PANEL #40288

CUMMINS DIESEL VIEW



PANEL #40288



THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: MAIN INBOARD PANEL	
MOD.: 45Y	39
DR BY: CWM	

LEGEND

GROUND



BREAKER



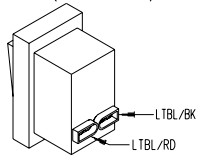
SWITCH



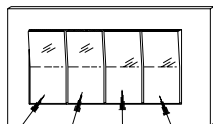
ROPE
LIGHTS



ACCENT
LIGHT SWITCH
(REAR VIEW)

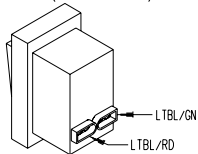


ENTRY
LIGHT SWITCHES



FLOOR LIGHTS
ACCENT LIGHTS
GALLEY LIGHTS
CABIN LIGHTS

GALLEY OVERHEAD
LIGHT SWITCH
(REAR VIEW)



HULL HARNESS
#39849

GALLEY PIGTAIL
#39858

DINETTE PIGTAIL
#39863

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 1" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "GALLEY LIGHTING" BREAKER TO "ON".
4. THE ACCENT LIGHTS CAN NOW BE OPERATED BY THE ACCENT LIGHTS SWITCH.

TITLE: LIGHTS, ACCENT

MOD.: 45Y

DR BY: CWM

40A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 1" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "GALLEY LIGHTING" BREAKER TO "ON".
4. THE GALLEY LIGHTS CAN NOW BE OPERATED BY THE GALLEY LIGHT SWITCH.

DECK HARNESS
#39851

DECK HARNESS
#39851

TITLE: LIGHTS, GALLEY OVERHEAD

MOD.: 45Y

DR BY: CWM

40B



THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

GROUND 

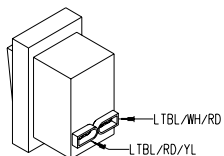
LIGHT 

BREAKER 

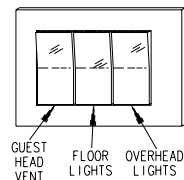
PLUGS 

SWITCH 

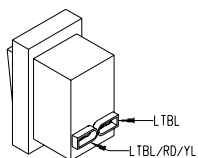
GUEST HEAD OVERHEAD
LIGHT SWITCH
(REAR VIEW)



GUEST HEAD
LIGHT SWITCHES

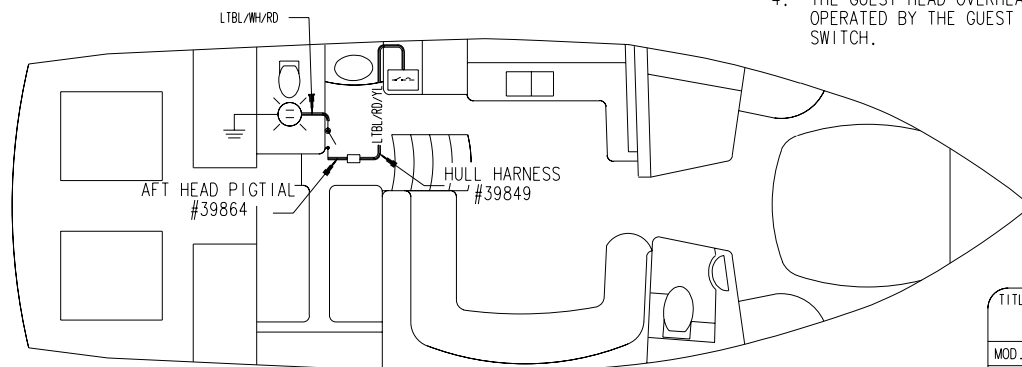


GUEST HEAD FLOOR
LIGHT SWITCH
(REAR VIEW)



TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 1" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "GUEST LIGHTS" BREAKER TO "ON".
4. THE GUEST HEAD OVERHEAD LIGHTS CAN NOW BE OPERATED BY THE GUEST HEAD OVERHEAD LIGHT SWITCH.



TITLE: LIGHTS, GUEST
HEAD OVERHEAD

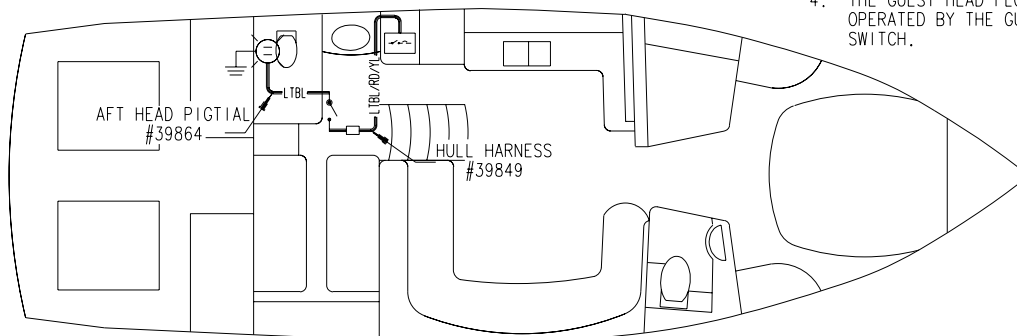
MOD.: 45Y

DR BY: CWM

41A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 1" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "OWNER AND GUEST HEAD LIGHTING" BREAKER TO "ON".
4. THE GUEST HEAD FLOOR LIGHTS CAN NOW BE OPERATED BY THE GUEST HEAD FLOOR LIGHT SWITCH.



TITLE: LIGHTS, GUEST
HEAD FLOOR

MOD.: 45Y

DR BY: CWM

41B



THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

GROUND

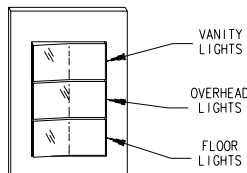
LIGHT

BREAKER

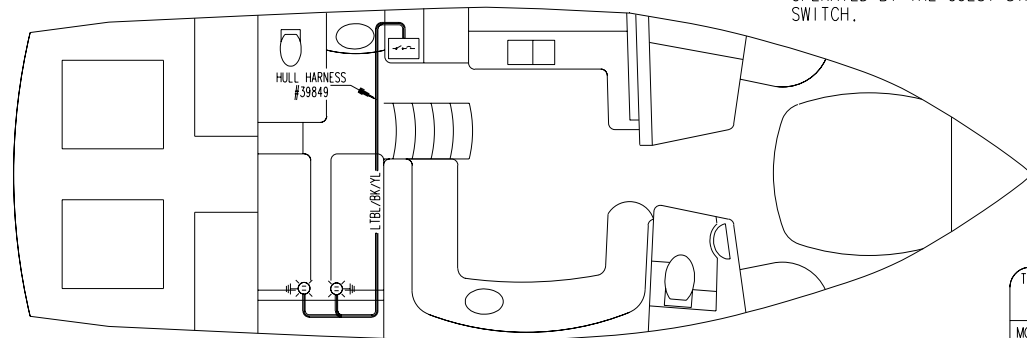
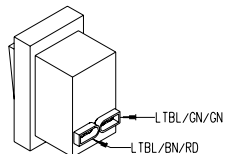
PLUGS

SWITCH

GUEST STATEROOM LIGHT SWITCHES



GUEST VANITY LIGHT SWITCH (REAR VIEW)



TITLE: LIGHTS, GUEST STATEROOM READING

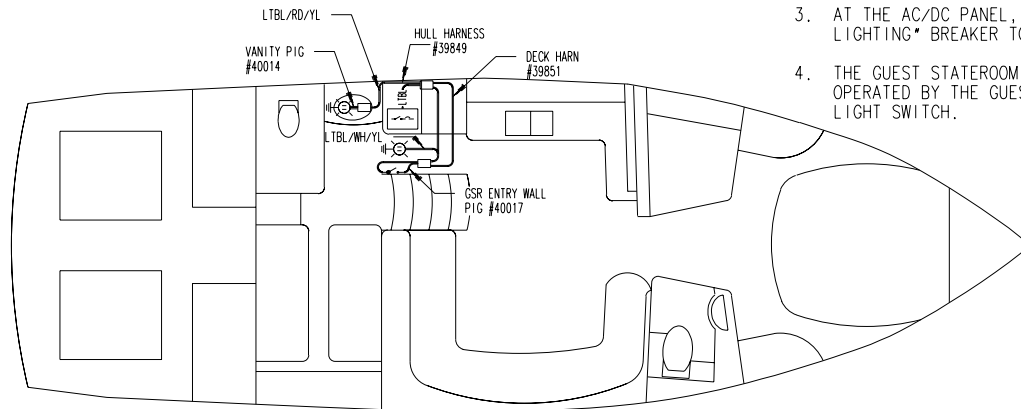
MOD.: 45Y

DR BY: CWM

42A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 2" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "GUEST STATERM LIGHTING" BREAKER TO "ON".
4. THE GUEST STATEROOM VANITY LIGHTS CAN NOW BE OPERATED BY THE GUEST STATEROOM VANITY LIGHT SWITCH.



TITLE: LIGHTS, GUEST STATEROOM VANITY

MOD.: 45Y

DR BY: CWM

42B



THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

GROUND 

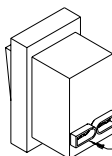
LIGHT 

BREAKER 

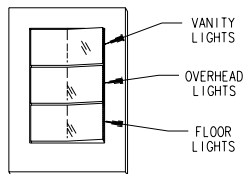
PLUGS 

SWITCH 

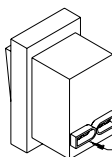
GUEST OVERHEAD
LIGHT SWITCH
(REAR VIEW)



GUEST STATEROOM
LIGHT SWITCHES

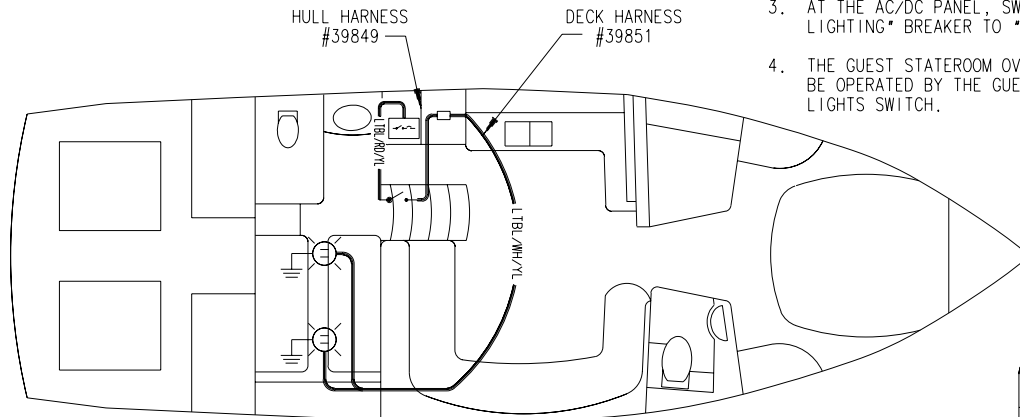


GUEST FLOOR
LIGHT SWITCH
(REAR VIEW)



HULL HARNESS
#39849

DECK HARNESS
#39851



TITLE: LIGHTS, GUEST
STATEROOM OVERHEAD

MOD.: 45Y

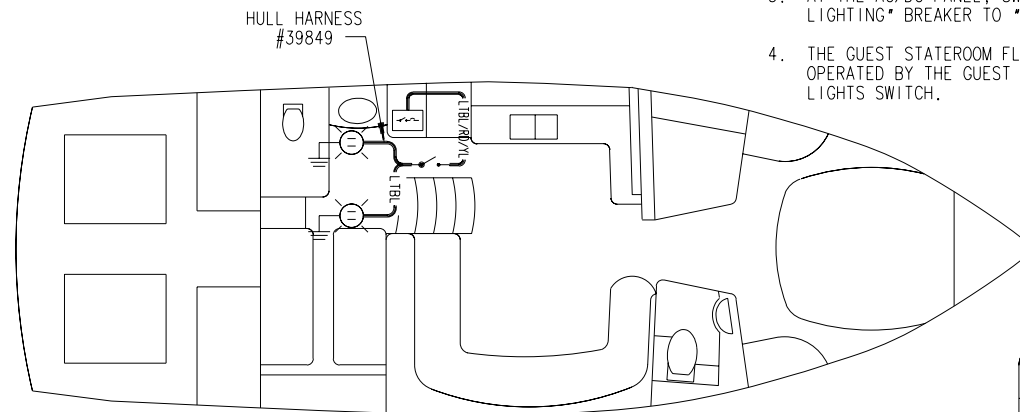
DR BY: CWM

43A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 2" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "GUEST STATERM LIGHTING" BREAKER TO "ON".
4. THE GUEST STATEROOM OVERHEAD LIGHTS CAN NOW BE OPERATED BY THE GUEST STATEROOM OVERHEAD LIGHTS SWITCH.

HULL HARNESS
#39849



TITLE: LIGHTS, GUEST
STATEROOM FLOOR

MOD.: 45Y

DR BY: CWM

43B

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 2" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "GUEST STATERM LIGHTING" BREAKER TO "ON".
4. THE GUEST STATEROOM FLOOR LIGHTS CAN NOW BE OPERATED BY THE GUEST STATEROOM FLOOR LIGHTS SWITCH.



THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

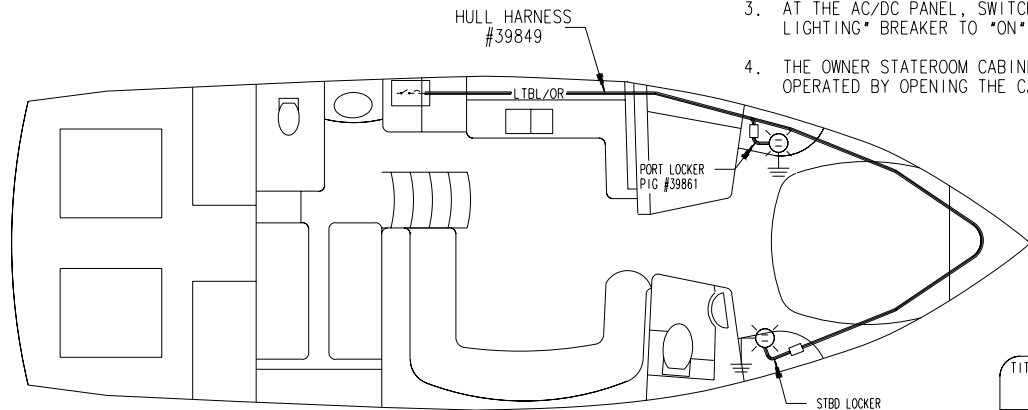
GROUND

LIGHT

BREAKER

PLUGS

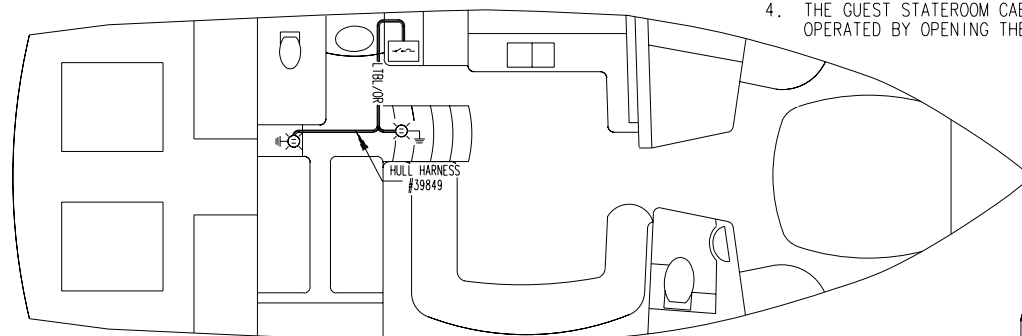
SWITCH



TITLE: LIGHTS,
OWNER CABINET
MOD.: 45Y
DR BY: CWM
44A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 1" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "OWNER STATERM LIGHTING" BREAKER TO "ON".
4. THE OWNER STATEROOM CABINET LIGHTS CAN NOW BE OPERATED BY OPENING THE CABINET DOORS.



TITLE: LIGHTS,
GUEST CABINET
MOD.: 45Y
DR BY: CWM
44B

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 2" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "GUEST STATERM LIGHTING" BREAKER TO "ON".
4. THE GUEST STATEROOM CABINET LIGHTS CAN NOW BE OPERATED BY OPENING THE CABINET DOORS.



THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

GROUND

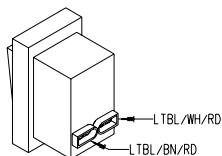
LIGHT

BREAKER

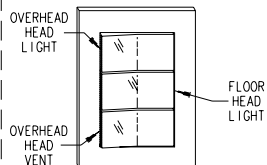
PLUGS

SWITCH

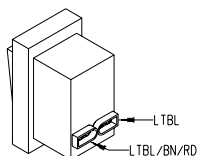
OWNER HEAD OVERHEAD
LIGHT SWITCH
(REAR VIEW)



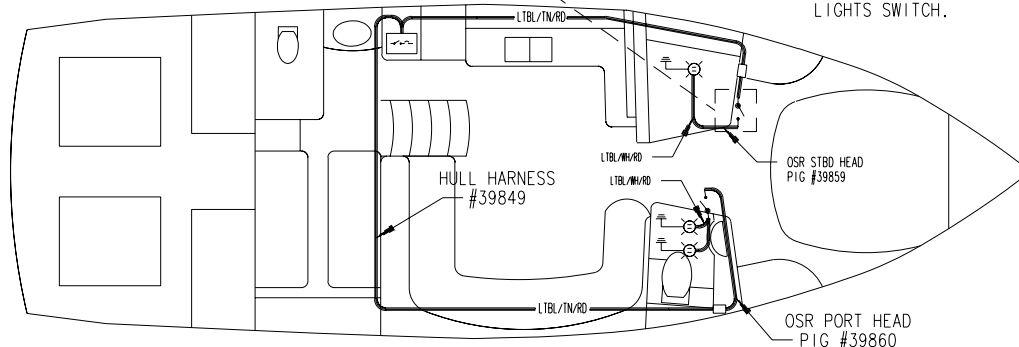
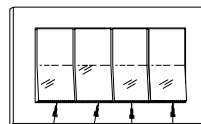
OWNER PORT HEAD
LIGHT SWITCHES



OWNER HEAD FLOOR
LIGHT SWITCH
(REAR VIEW)



OWNER LIGHT SWITCHES



TITLE: LIGHTS, OWNER
HEAD OVERHEAD

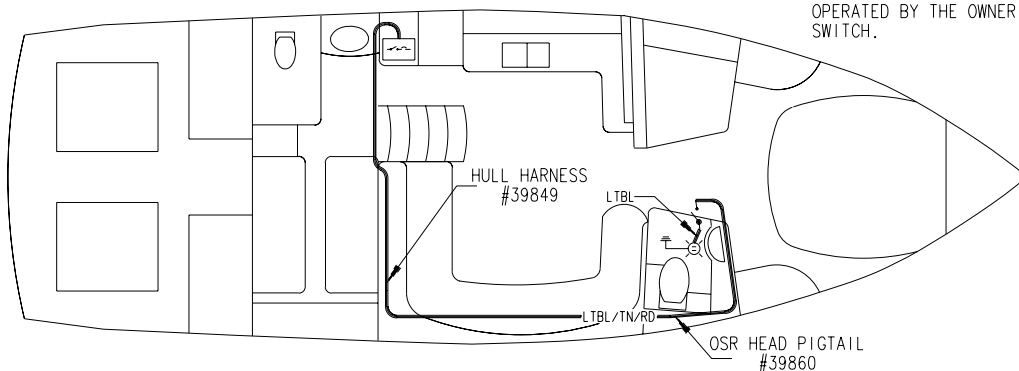
MOD.: 45Y

DR BY: CWM

45A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 1" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "OWNER STATERM LIGHTING" BREAKER TO "ON".
4. THE OWNER STATEROOM FLOOR LIGHTS CAN NOW BE OPERATED BY THE OWNER STATEROOM FLOOR LIGHTS SWITCH.



TITLE: LIGHTS, OWNER
HEAD FLOOR

MOD.: 45Y

DR BY: CWM

45B



THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

GROUND 

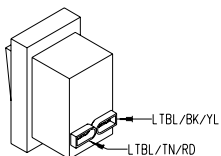
LIGHT 

BREAKER 

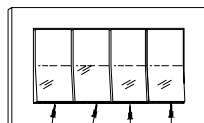
PLUGS 

SWITCH 

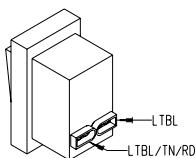
OWNER OVERHEAD LIGHT SWITCH (REAR VIEW)



OWNER LIGHT SWITCHES



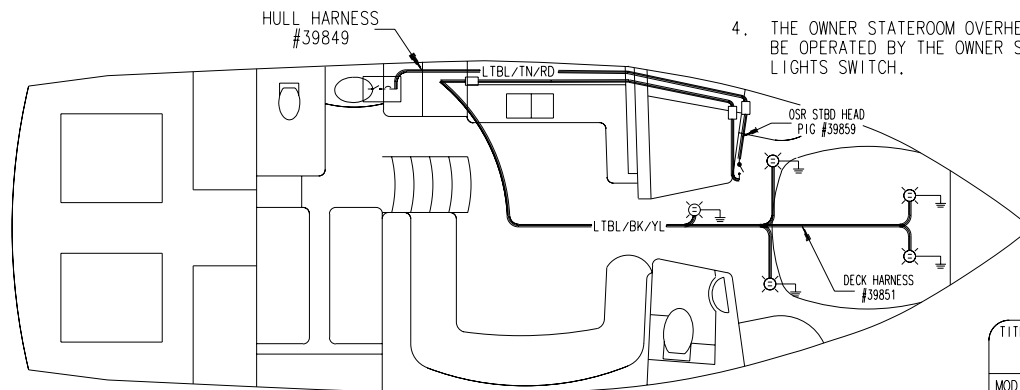
OWNER FLOOR LIGHT SWITCH (REAR VIEW)



THUNDERBIRD
PRODUCTS
ENGINEERING

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" SWITCH TO "ON".
2. ON THE AC/DC PANEL IN THE CABIN, SWITCH THE DC "MAIN 1" BREAKER TO "ON".
3. ON THE AC/DC PANEL, SWITCH THE "OWNER STATERM LIGHTING" BREAKER TO "ON".
4. THE OWNER STATEROOM OVERHEAD LIGHTS CAN NOW BE OPERATED BY THE OWNER STATEROOM SWITCHES.



TITLE: LIGHTS, OWNER
STATEROOM OVERHEAD

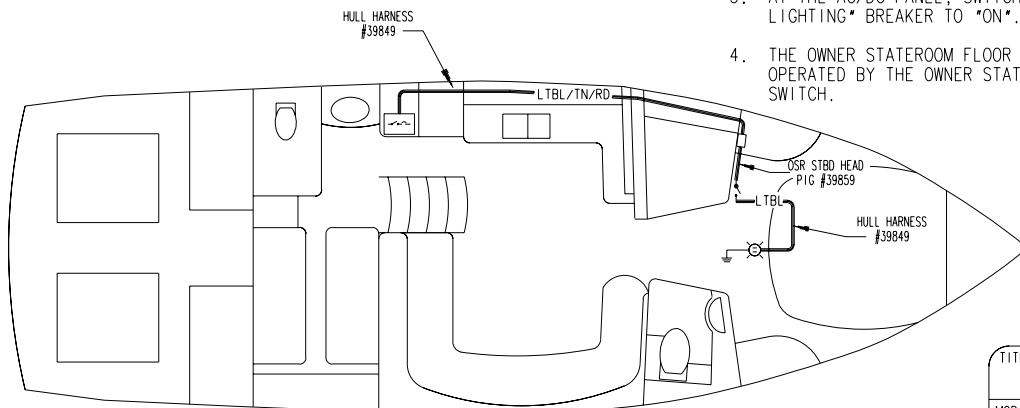
MOD.: 45Y

DR BY: CWM

46A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 1" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "OWNER STATERM LIGHTING" BREAKER TO "ON".
4. THE OWNER STATEROOM FLOOR LIGHTS CAN NOW BE OPERATED BY THE OWNER STATEROOM FLOOR LIGHT SWITCH.



TITLE: LIGHTS, OWNER
STATEROOM FLOOR

MOD.: 45Y

DR BY: CWM

46B

LEGEND

GROUND 

LIGHT 

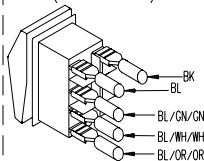
BREAKER 

PLUGS 

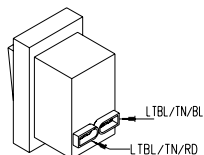
SWITCH 

DASH BREAKER 

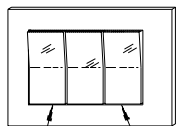
ARCH LIGHT SWITCH
(ACCESSORY PANEL)
(REAR VIEW)



OWNER PORT READING
LIGHT SWITCH
(REAR VIEW)



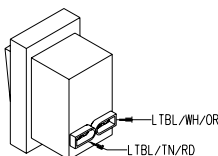
OWNER PORT LIGHT SWITCH



PORT
READING
LIGHT

BED
TILT

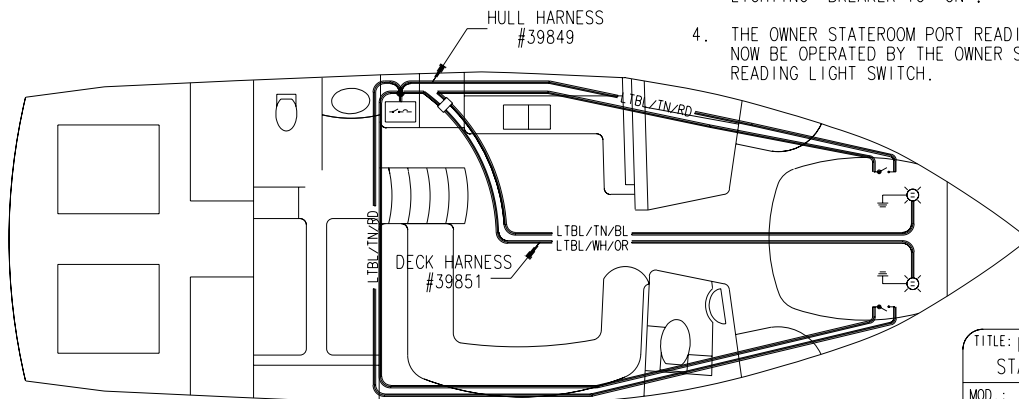
OWNER STBD READING
LIGHT SWITCH
(REAR VIEW)



THUNDERBIRD
PRODUCTS
ENGINEERING

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 1" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "OWNER STATERM LIGHTING" BREAKER TO "ON".
4. THE OWNER STATEROOM PORT READING LIGHTS CAN NOW BE OPERATED BY THE OWNER STATEROOM PORT READING LIGHT SWITCH.



TITLE: LIGHTS, OWNER
STATEROOM READING

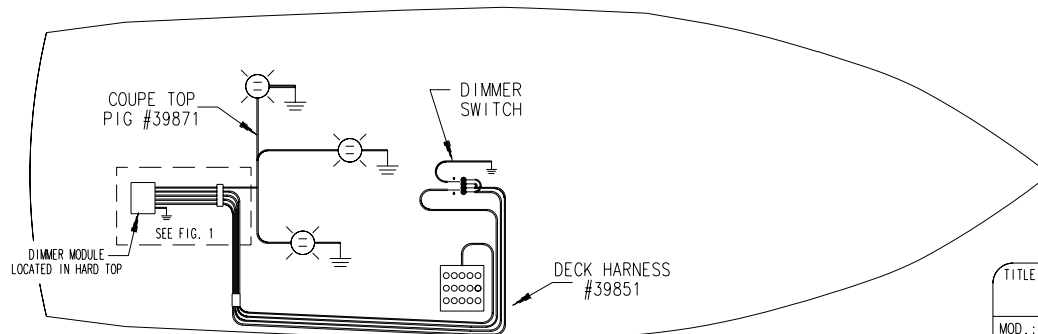
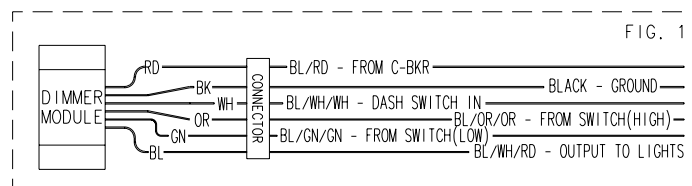
MOD.: 45Y

DR BY: CWM

47A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE UNDERDASH BREAKER PANEL, THE "COURTESY LIGHTS" BREAKER MUST BE PUSHED IN (CLOSED).
3. THE COURTESY DIMMER LIGHTS CAN NOW BE OPERATED BY THE "ARCH LIGHTS" SWITCH LOCATED ON THE ACCESSORY PANEL.



TITLE: LIGHTS,
ARCH DIMMER

MOD.: 45Y

DR BY: CWM

47B

LEGEND

GROUND



LIGHT



BREAKER



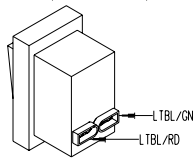
PLUGS



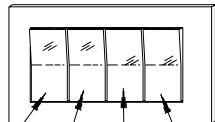
SWITCH



SALON OVERHEAD
LIGHT SWITCH
(REAR VIEW)

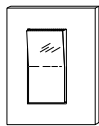


ENTRY
LIGHT SWITCHES

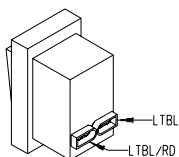


FLOOR LIGHTS
ACCENT LIGHTS
GALLEY LIGHTS
OVERHEAD LIGHTS

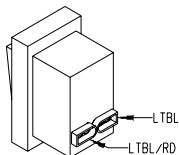
SALON READING
LIGHT SWITCH



SALON FLOOR
LIGHT SWITCH
(REAR VIEW)



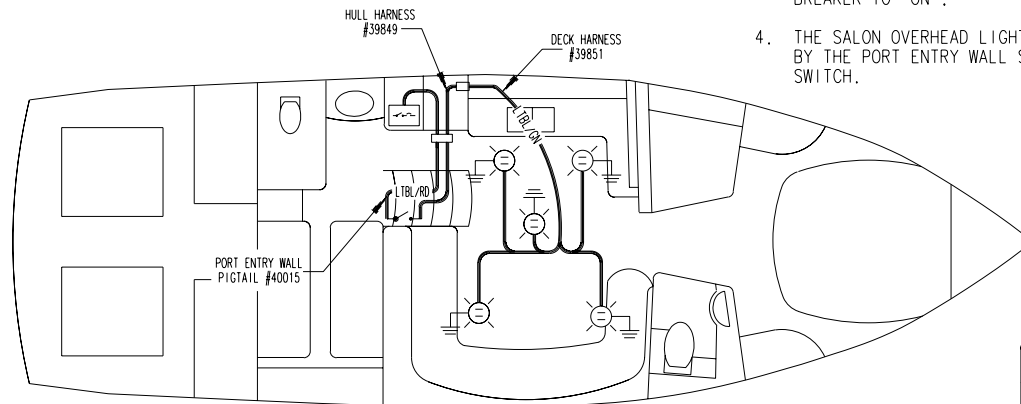
SALON FLOOR
LIGHT SWITCH
(REAR VIEW)



THUNDERBIRD
PRODUCTS
ENGINEERING

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 2" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "SALON LIGHTING" BREAKER TO "ON".
4. THE SALON OVERHEAD LIGHTS CAN NOW BE OPERATED BY THE PORT ENTRY WALL SALON OVERHEAD LIGHTS SWITCH.



TITLE: LIGHTS,
SALON OVERHEAD

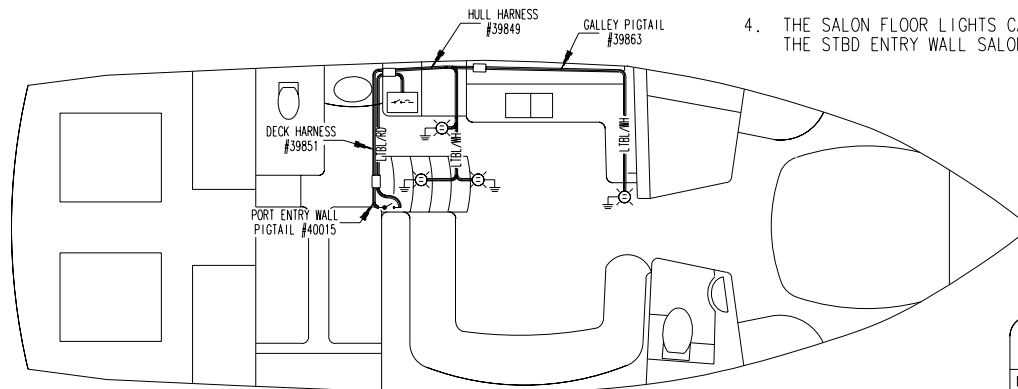
MOD.: 45Y

DR BY: CWM

48A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 2" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "SALON LIGHTING" BREAKER TO "ON".
4. THE SALON FLOOR LIGHTS CAN NOW BE OPERATED BY THE STBD ENTRY WALL SALON FLOOR LIGHTS SWITCH.



TITLE: LIGHTS,
SALON FLOOR

MOD.: 45Y

DR BY: CWM

48B

LEGEND

GROUND



BREAKER
PANEL



SWITCH



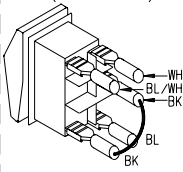
PLUGS



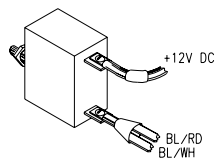
LIGHT



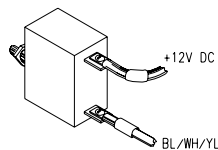
COURT LTS SWITCH
(ACCESSORY PANEL)
(REAR VIEW)



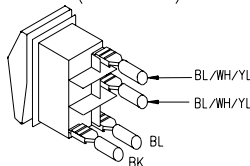
COCKPIT LIGHTS BKR 15A
(DASH BKR PANEL)
(REAR VIEW)



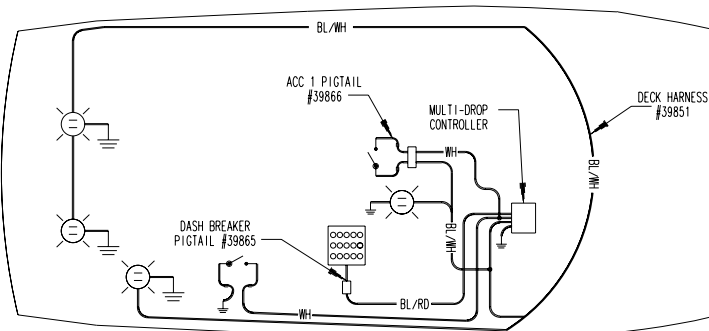
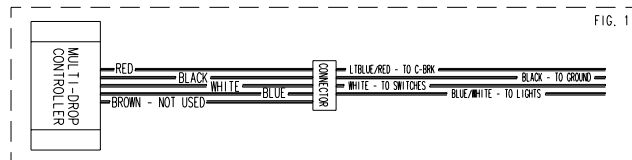
ENG RM LIGHTS BKR 15A
(DASH BKR PANEL)
(REAR VIEW)



ENGINE ROOM LTS SWITCH
(ACCESSORY PANEL)
(REAR VIEW)



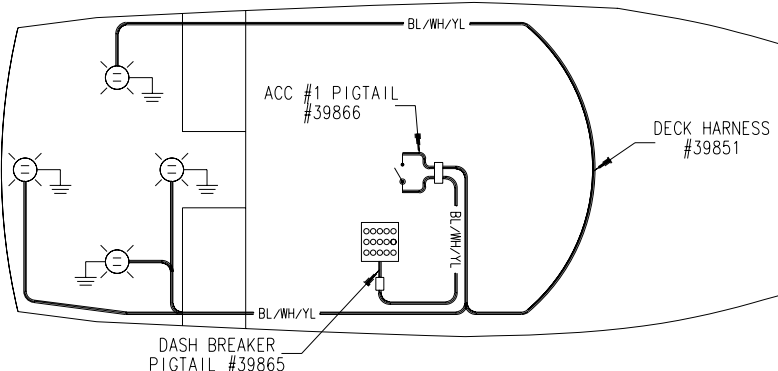
THUNDERBIRD
PRODUCTS
ENGINEERING



TITLE: LIGHTS,
COCKPIT COURTESY
MOD.: 45Y
DR BY: CWM
49A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE *AUX BATT* SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE *ENG RM LIGHTS* BREAKER MUST BE PUSHED IN (CLOSED).
3. THE ENGINE ROOM LIGHTS CAN NOW BE OPERATED BY THE *ENGINE ROOM LTS* SWITCH LOCATED ON THE ACCESSORY PANEL.



TITLE: LIGHTS,
ENGINE ROOM
MOD.: 45Y
DR BY: CWM
49B

LEGEND

GROUND 

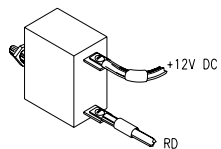
BREAKER
PANEL

SWITCH

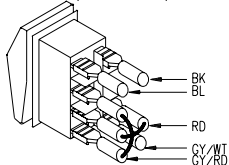
PLUGS

L I G H T

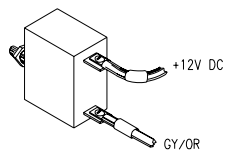
"NAV LIGHTS" BKR 10A
(DASH BKR PANEL)
(REAR VIEW)



"NAV/ANCH LTS" SWITCH
(ACCESSORY PANEL)
(REAR VIEW)

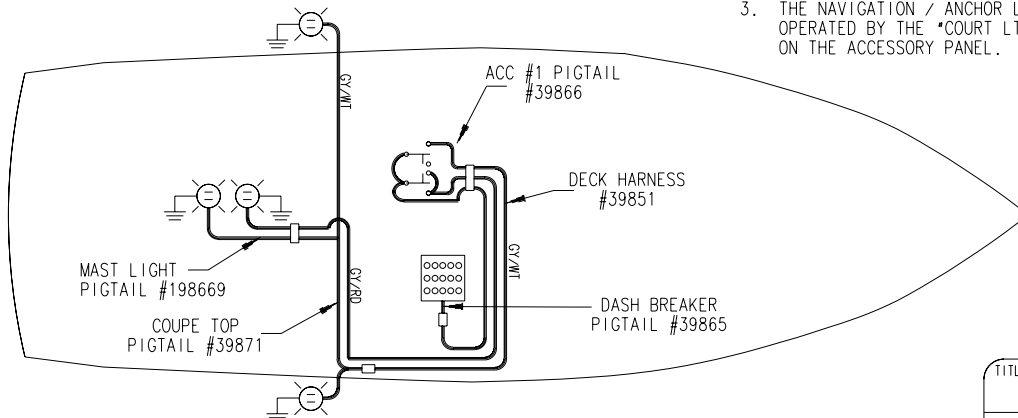


"SPOTLIGHT" BKR 10A
(DASH BKR PANEL)
(REAR VIEW)



TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE "NAV LIGHTS" BREAKER MUST BE PUSHED IN (CLOSED).
3. THE NAVIGATION / ANCHOR LIGHTS CAN NOW BE OPERATED BY THE "COURT LTS" SWITCH LOCATED ON THE ACCESSORY PANEL.



TITLE: LIGHTS,
NAV/ANCHOR

MOD.: 45Y

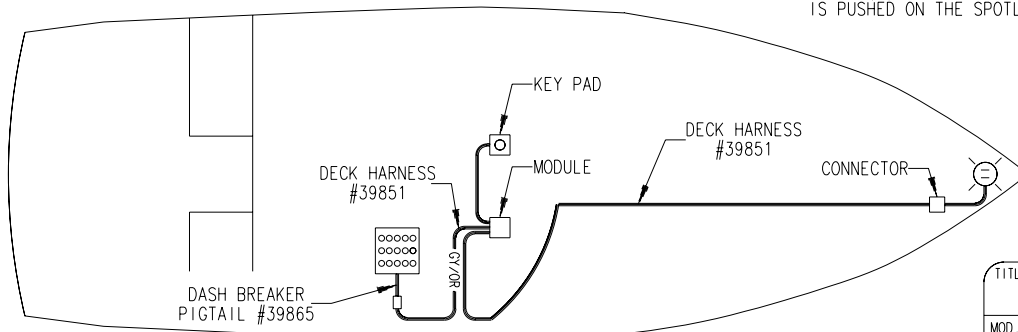
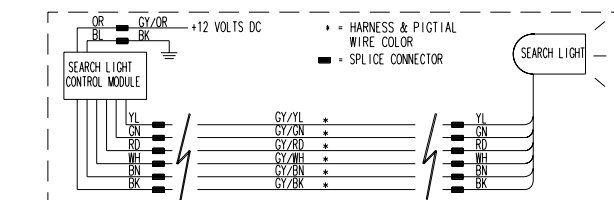
DR BY: CWM

50A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE "SPOT-LIGHT" BREAKER MUST BE PUSHED IN (CLOSED).
3. THE SPOT LIGHTS CAN NOW BE OPERATED BY THE KEYPAD LOCATED ON THE IGNITION PANEL.

NOTE: SPOTLIGHT WILL ILLUMINATE APPROXIMATELY THREE (3) SECONDS AFTER THE "ON" BUTTON IS PUSHED ON THE SPOTLIGHT KEYPAD.



TITLE: LIGHTS,
SPOTLIGHT

MOD.: 45Y

DR BY: CWM


50E

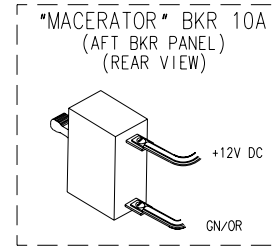
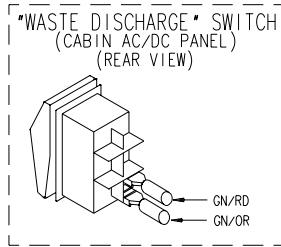
LEGEND

GROUND 

PLUGS 

BREAKER 

SWITCH 

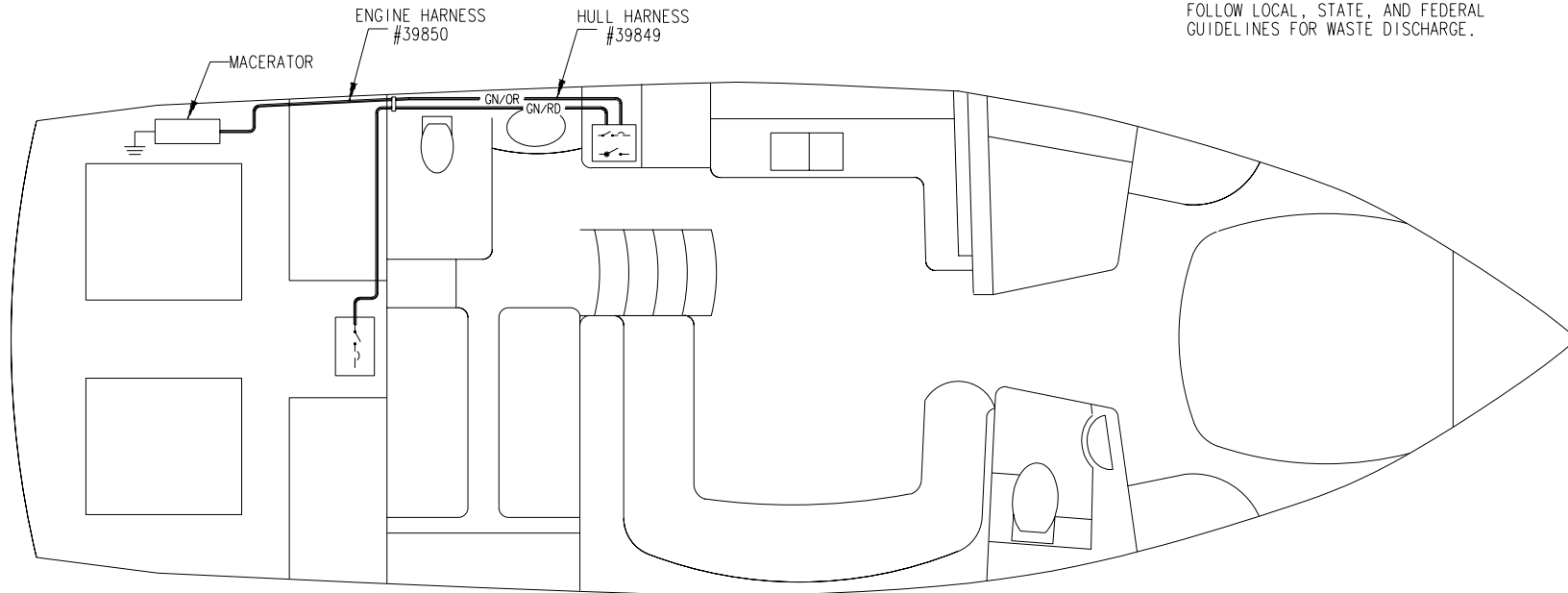


TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AFT BKR PANEL, SWITCH THE "MACERATOR" BREAKER TO "ON".
3. IN THE ENGINE BILGE AREA, PLACE THE SEACOCK VALVE IN THE "OPEN" POSITION.
4. AT THE CABIN AC/DC PANEL, HOLD THE "WASTE DISCHARGE" SWITCH UNTIL THE "EMPTY" LIGHT ILLUMINATES.

CAUTION!






FOLLOW LOCAL, STATE, AND FEDERAL GUIDELINES FOR WASTE DISCHARGE.



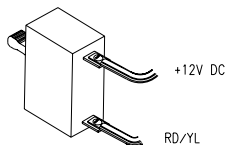
THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: MACERATOR, ELECTRICAL	
MOD.: 45Y	51
DR BY: CWM	

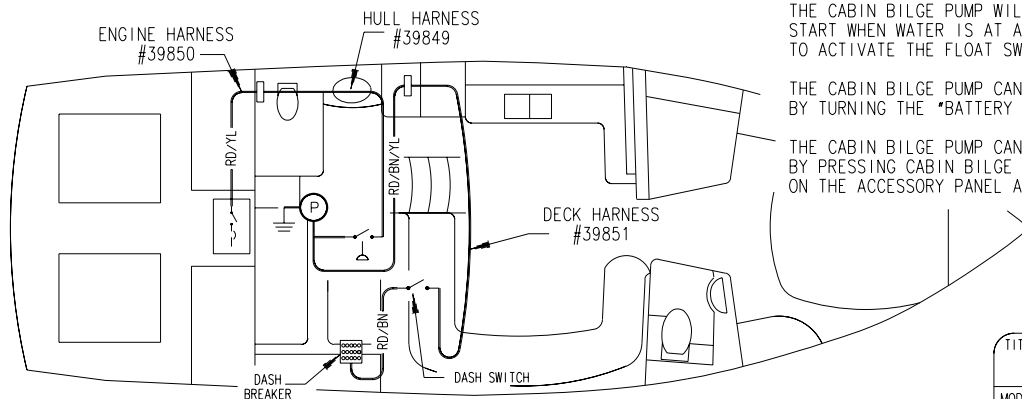
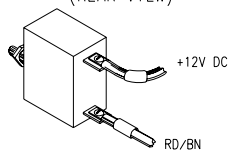
LEGEND

GROUND	
BREAKER	
PUMP	
FLOAT SWITCH	
SWITCH	

•CABIN AUTO BILGE PUMP•
BKR 15A
(AFT BKR PANEL)
(REAR VIEW)



•CABIN BILGE•
BKR 15A
(DASH BKR PANEL)
(REAR VIEW)



TO OPERATE:

1. AT THE AFT BKR PANEL, SWITCH THE •CABIN AUTO BILGE PUMP• BREAKER TO "ON".
2. THE CABIN BILGE PUMP IS NOW SUPPLIED WITH 12V DC.

NOTE:

THE CABIN BILGE PUMP WILL AUTOMATICALLY START WHEN WATER IS AT A LEVEL HIGH ENOUGH TO ACTIVATE THE FLOAT SWITCH.

THE CABIN BILGE PUMP CANNOT BE TURNED OFF BY TURNING THE •BATTERY AUX• SWITCH TO "OFF".

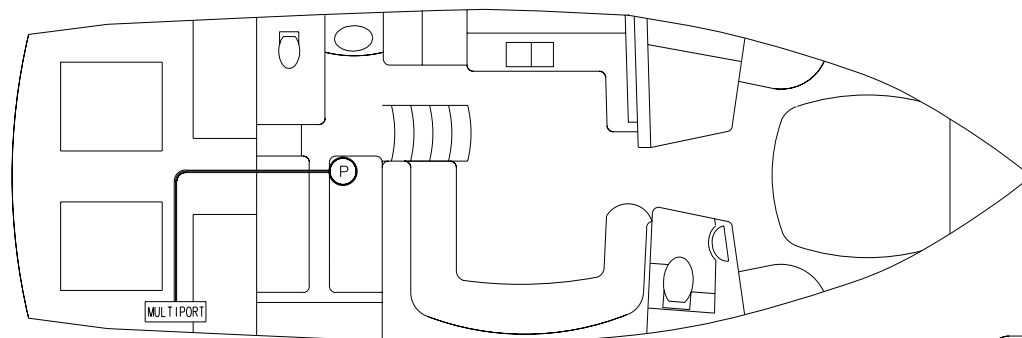
THE CABIN BILGE PUMP CAN ALSO BE OPERATED BY PRESSING CABIN BILGE SWITCH LOCATED ON THE ACCESSORY PANEL AT THE DASH.

TITLE: CABIN BILGE,
ELECTRICAL

MOD.: 45Y

DR BY: CWM

52A



TITLE: CABIN BILGE,
PLUMBING

MOD.: 45Y








DR BY: CWM

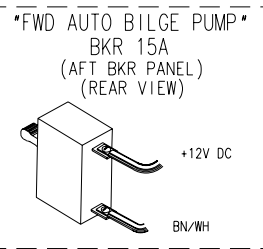
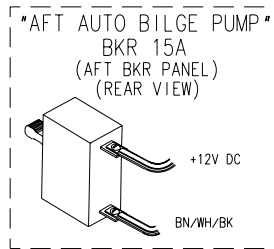
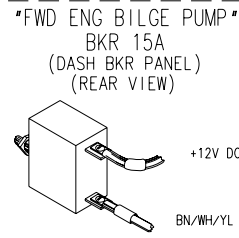
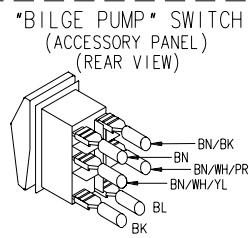
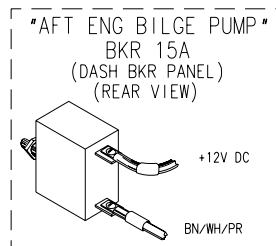
52B



THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

GROUND	
BREAKER	
PUMP	
SWITCH	
PLUGS	
FLOAT SWITCH	
BREAKER PANEL	



TO OPERATE:

1. AT THE AFT BKR PANEL, SWITCH THE "AFT AUTO BILGE PUMP" AND "FWD AUTO BILGE PUMP" BREAKERS TO "ON".
3. THE ENGINE BILGE PUMPS ARE NOW SUPPLIED WITH 12 VOLTS DC.

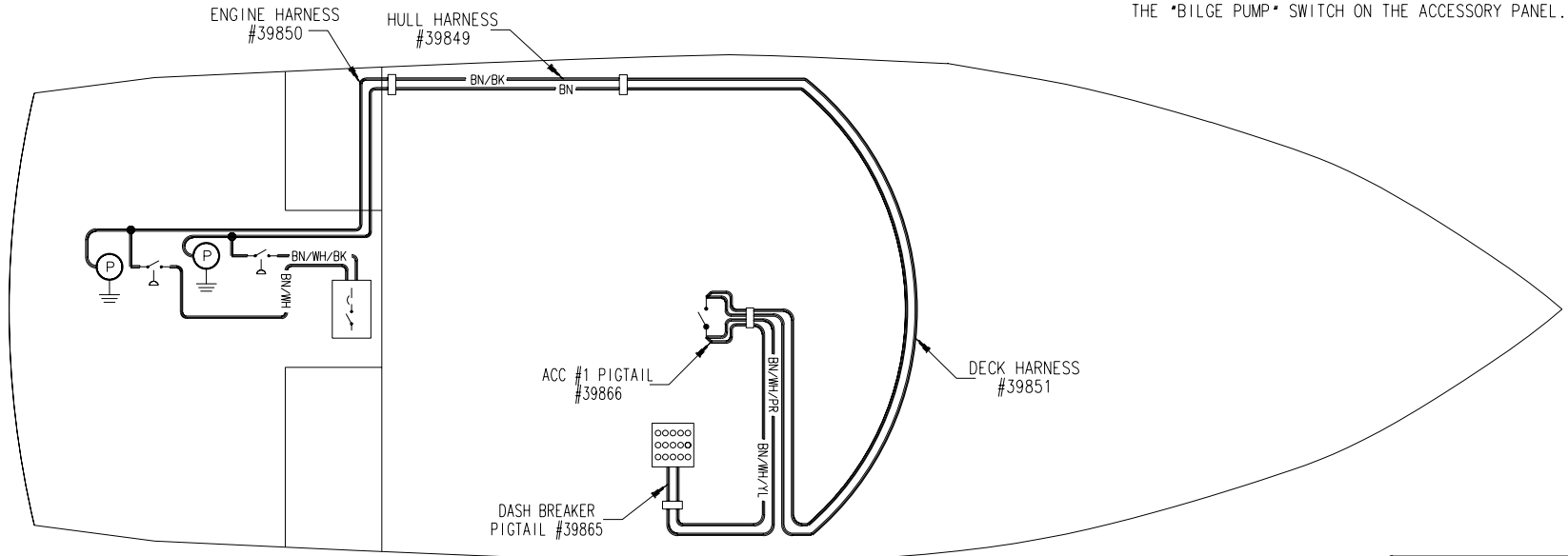
NOTE:

THE ENGINE BILGE PUMPS WILL AUTOMATICALLY START WHEN WATER IS AT A LEVEL HIGH ENOUGH TO ACTIVATE THE FLOAT SWITCH.

THE ENGINE BILGE PUMPS CANNOT BE TURNED OFF BY TURNING THE "BATTERY AUX" SWITCH TO "OFF".

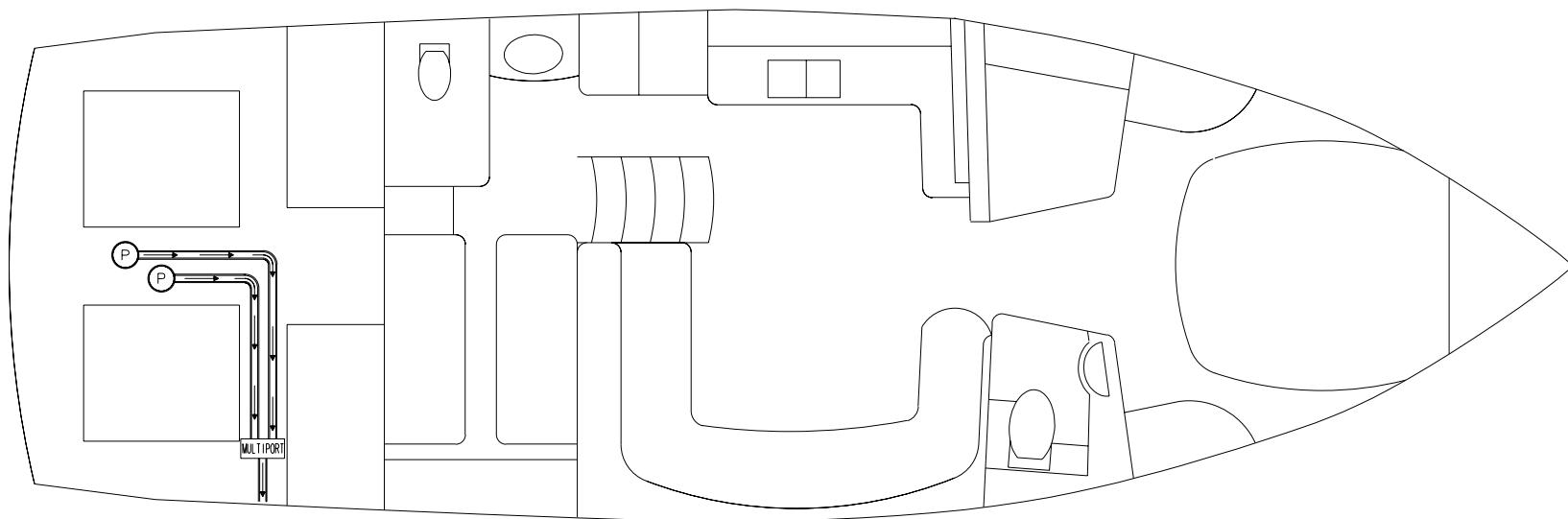
TO OPERATE MANUALLY:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE "AFT ENG BILGE PUMP" AND "FWD ENG BILGE PUMP" BREAKERS MUST BE PUSHED IN (CLOSED).
3. THE ENGINE BILGE PUMPS CAN NOW BE OPERATED BY THE "BILGE PUMP" SWITCH ON THE ACCESSORY PANEL.



LEGEND

PUMP




THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: ENGINE BILGE,
PLUMBING

MOD.: 45Y
DR BY: CWM

54

LEGEND

PLUGS 

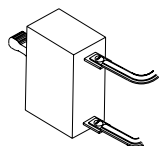
BREAKER 

GROUND 

FUSE 

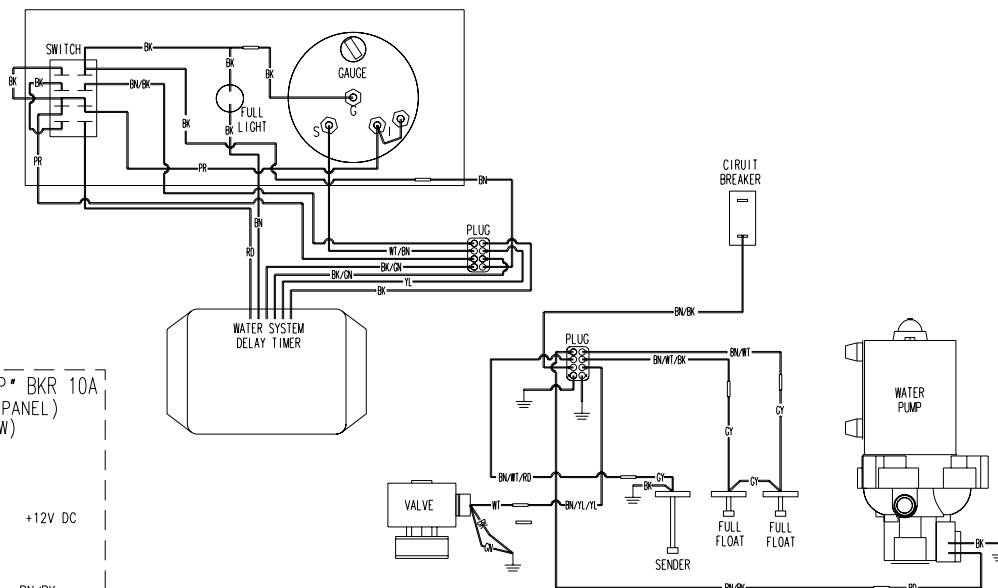
PUMP 

"FRESH WATER PUMP" BKR 10A
(CABIN AC/DC PANEL)
(REAR VIEW)



+12V DC

BN/BK



TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 2" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "FRESH WATER PUMP" BREAKER TO "ON".
4. THE FRESH WATER PUMP IS NOW ON, AND WILL SHUT OFF AUTOMATICALLY WHEN THERE IS SUFFICIENT WATER PRESSURE IN THE SYSTEM.

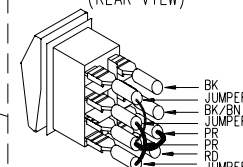
NOTE:

THE WATER PUMP DOES NOT NEED TO BE IN OPERATION WHEN BOAT IS CONNECTED TO SHORE WATER.

WARNING!

MAKE SURE WATER TANK HAS SUFFICIENT AMOUNT OF WATER TO RUN SYSTEM. RUNNING THE SYSTEM DRY CAN CAUSE DAMAGE TO THE WATER PUMP.

"SINGLE POINT WATER FILL" SWITCH
(ACCESSORY PANEL)
(REAR VIEW)



(SEE FIG. 1 FOR DETAILED
CIRCUIT INSIDE PANEL)



WATER
TANK



THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: FRESH WATER
PUMP, ELECTRICAL

MOD.: 45Y

DR BY: CWM

55

LEGEND

COLD WATER LINE —

HOT WATER LINE - - -

PUMP (P)

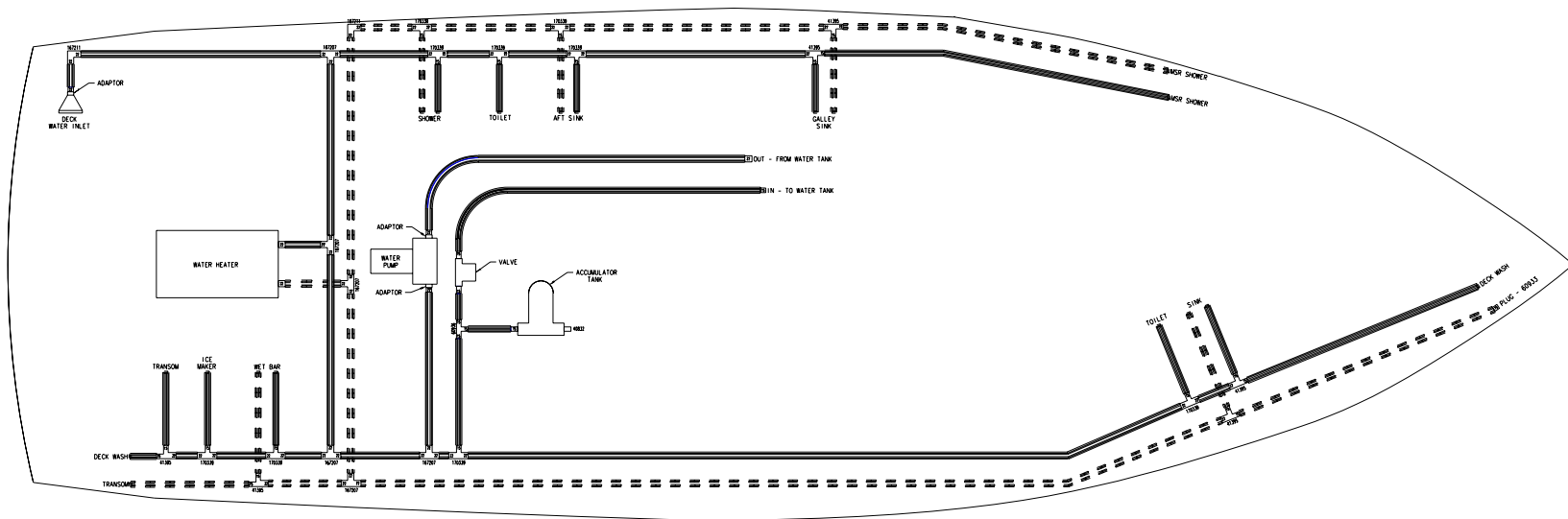
ACCUMULATOR (A)

VALVE (V)

TO FLUSH SYSTEM:

1. TURN OFF WATER HEATER BREAKER.
2. TURN ON WATER PUMP AND INDIVIDUALLY OPEN THE HOT AND COLD SIDE OF THE FAUCET FURTHEST AWAY FROM THE WATER TANK TO DRAIN THE EXCESS ANTIFREEZE FROM THE WATER SYSTEM. ONCE THE FLOW IS LOST TURN OFF THE WATER PUMP.
3. REFILL WATER TANK WITH FRESH WATER.
4. OPEN HOT SIDE OF GALLEY FAUCET THEN OPEN DRAIN COCK ON BOTTOM OF THE WATER HEATER TO DRAIN EXCESS ANTIFREEZE FROM THE WATER HEATER.
5. AFTER WATER HEATER IS DRAINED CLOSE THE DRAIN COCK AND THE GALLEY FAUCET.
6. TURN ON THE WATER PUMP AND INDIVIDUALLY OPEN THE HOT AND COLD SIDE OF THE FAUCET FURTHEST AWAY FROM WATER TANK, RUN UNTIL WATER IS CLEAN AND FREE FROM ODOR. THIS MAY TAKE A FEW TANKS.
7. ONCE CLEAN WATER IS FLOWING FROM THE HOT AND COLD SIDE OF THE FIRST FAUCET, INDIVIDUALLY OPEN THE HOT AND COLD SIDE OF EACH REMAINING FAUCET UNTIL CLEAN WATER IS FLOWING FROM EACH FAUCET.

IMPORTANT: TURN OFF WATER HEATER BREAKER DURING WATER TANK FLUSH PROCEDURE.



THUNDERBIRD
PRODUCTS
ENGINEERING





TITLE: FRESH WATER
PUMP, PLUMBING

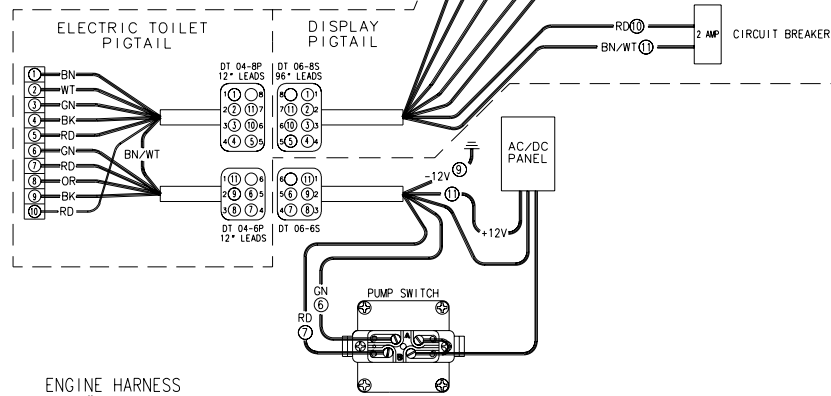
MOD.: 45Y

DR BY: CWM

56

LEGEND

PLUGS	
BREAKER	
GROUND	
PUMP	



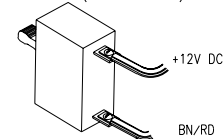
TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 1" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "HEAD PUMP" BREAKER TO "ON".
4. THE HEAD PUMP IS NOW OPERATIONAL, AND THE TOILET CAN BE FLUSHED.

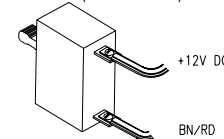
NOTE:

WHEN THE "FULL" LIGHT IS ILLUMINATED ON THE TANK LEVEL MONITOR THE VACUUM PUMP SHUTS DOWN AND THE TOILET WILL NOT FLUSH.

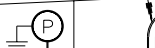
"GUEST HEAD PUMP"
BKR 20A
(AC/DC BKR PANEL)
(REAR VIEW)



"OWNER HEAD PUMP"
BKR 20A
(AC/DC BKR PANEL)
(REAR VIEW)



ENGINE HARNESS
#39850



BN/RD/WH



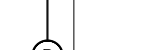
BN/RD/RD



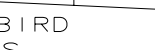
BN/RD/RD



BN/RD/RD



BN/RD/RD



BN/RD/RD

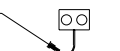
MONITOR SYSTEM

AFT HEAD PIGTAIL
#39864

HULL HARNESS
#39849

OSR HEAD UNIT
PIGTAIL #39860

MONITOR SYSTEM



BN/RD/RD



BN/RD/RD



THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: HEAD PUMPS,
ELECTRICAL

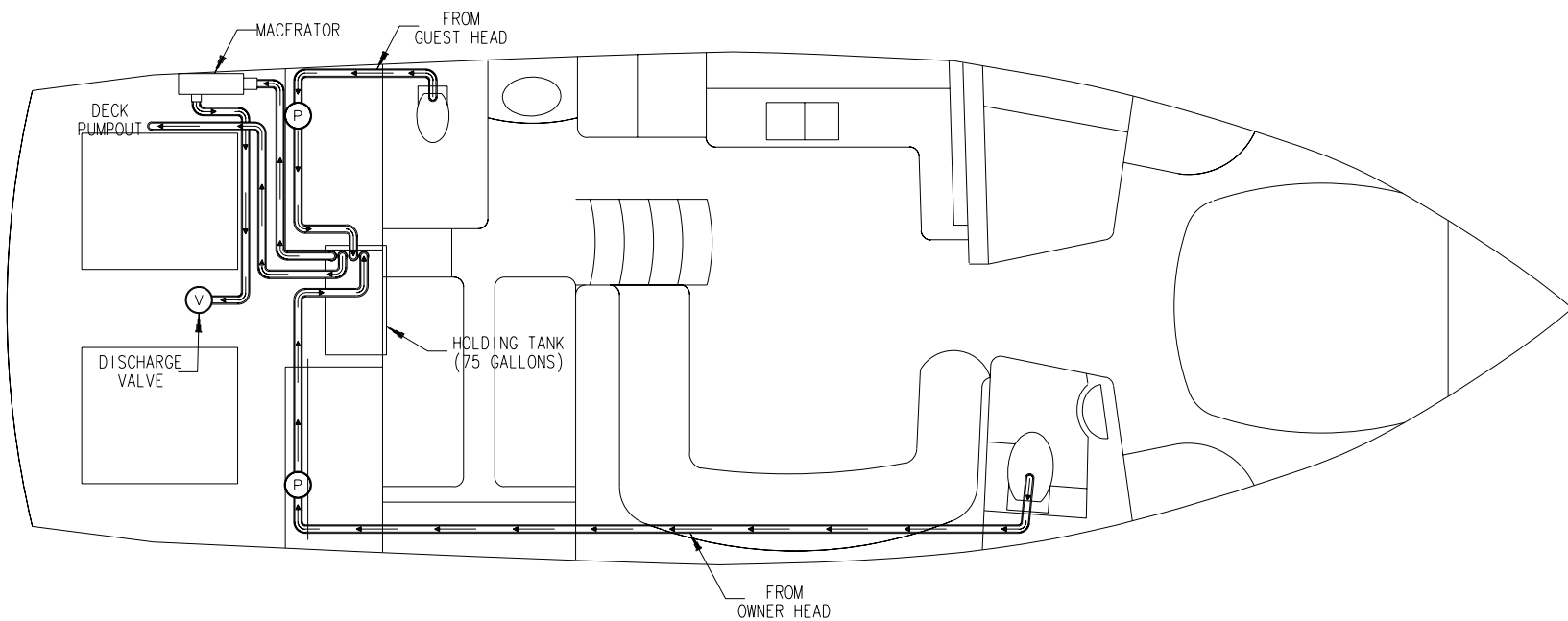
MOD.: 45Y
DR BY: CWM

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LEGEND

VALVE (V)

PUMP (P)



THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: HEAD PUMPS,
PLUMBING

MOD.: 45Y
DR BY: CWM

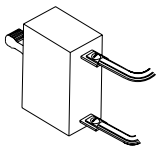
58

LEGEND

GROUND 

BREAKER 

"OIL CHANGE PUMP" BKR 5A
(AFT BKR PANEL)
(REAR VIEW)



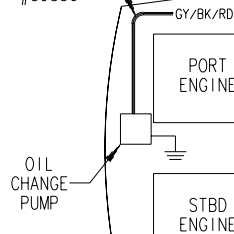
+12V DC

GY/BK/RD

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AFT BKR PANEL, SWITCH THE "OIL CHANGE PUMP" BREAKER TO "ON".
3. THE OIL CHANGE PUMP IS NOW SUPPLIED WITH 12V DC. SEE THE OIL CHANGE PUMP OPERATOR'S MANUAL FOR OPERATING INSTRUCTIONS.

ENGINE HARNESS
#39850

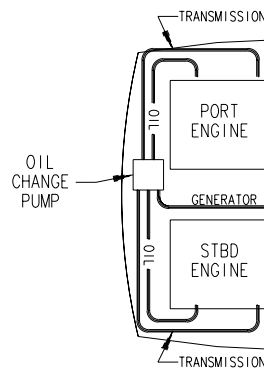


TITLE: OIL CHANGE PUMP,
ELECTRICAL

MOD.: 45Y

DR BY: CWM

59A



TITLE: OIL CHANGE PUMP,
PLUMBING

MOD.: 45Y

DR BY: CWM

59B




THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

GROUND 

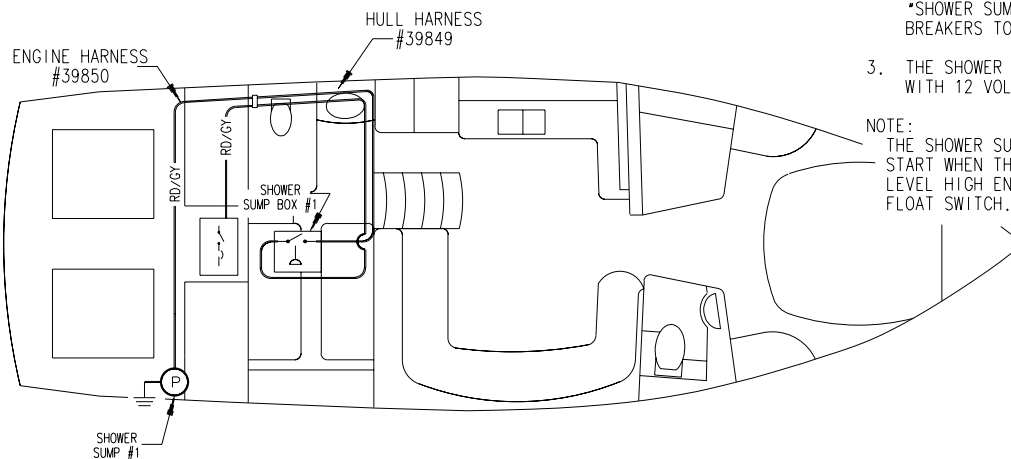
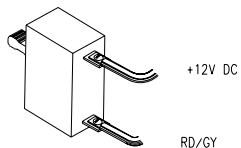
PUMP 

BREAKER 

FLOAT SWITCH 

HARNESS PLUG 

SHOWER SUMP 1 BKR 10A
(AFT BKR PANEL)
(REAR VIEW)



TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AFT BKR PANEL, SWITCH THE "SHOWER SUMP 1" AND "SHOWER SUMP 2" BREAKERS TO "ON".
3. THE SHOWER SUMPS ARE NOW SUPPLIED WITH 12 VOLTS DC.

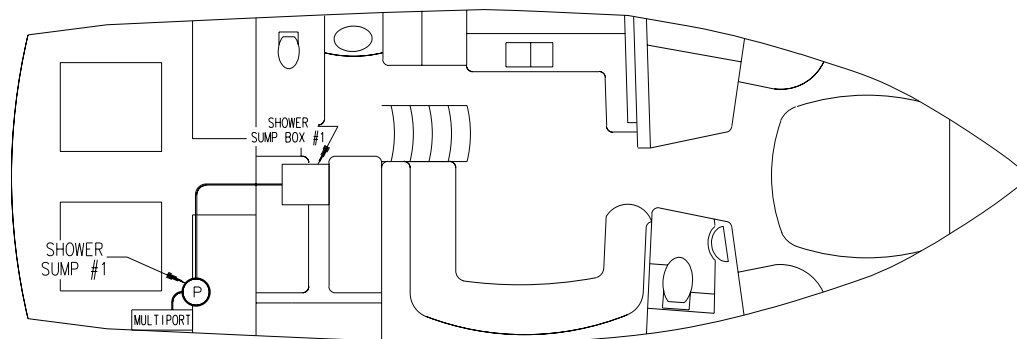
NOTE:
THE SHOWER SUMPS WILL AUTOMATICALLY START WHEN THE WASTE WATER IS AT A LEVEL HIGH ENOUGH TO ACTIVATE THE FLOAT SWITCH.

TITLE: SHOWER SUMPS,
ELECTRICAL

MOD.: 45Y

DR BY: CWM

60A



TITLE: SHOWER SUMPS,
DRAINAGE

MOD.: 45Y

DR BY: CWM

60B



THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

GROUND 

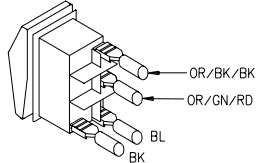
PLUGS 

BREAKER PANEL 

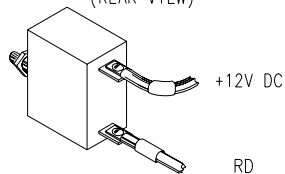
SWITCH 

PUMP 

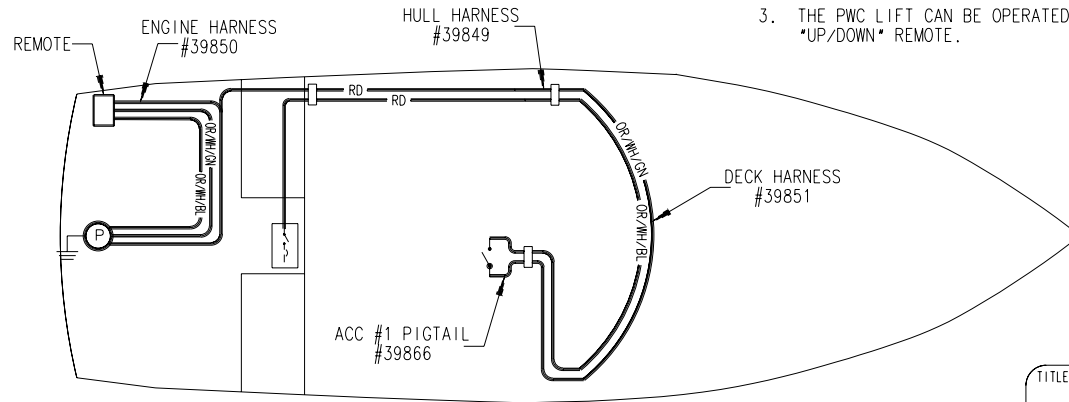
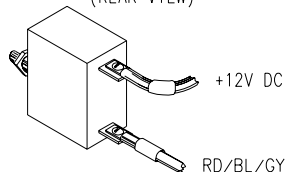
"PWC LIFT" SWITCH
(ACCESSORY PANEL)
(REAR VIEW)



"SWIM PLATFORM" BKR 5A
(AFT BKR PANEL)
(REAR VIEW)



"VHF RADIO" BKR 10A
(DASH BKR PANEL)
(REAR VIEW)



TITLE: PWC LIFT

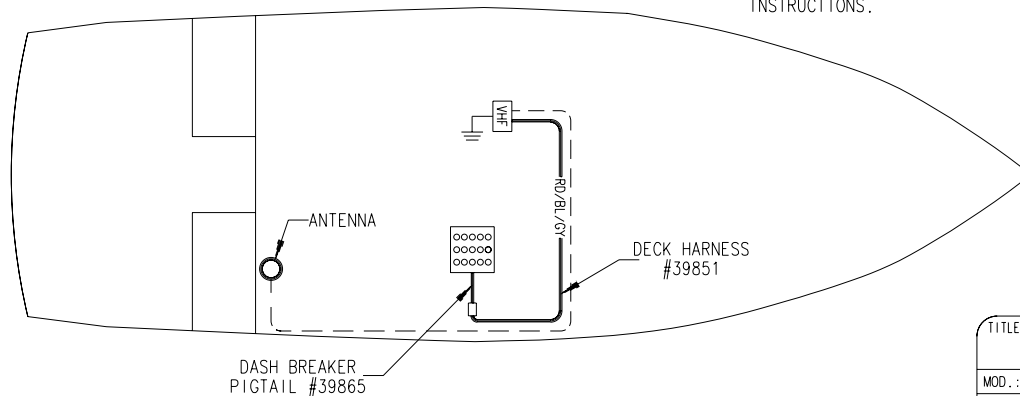
MOD.: 45Y

DR BY: CWM

61A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE "VHF RADIO" BREAKER MUST BE PUSHED IN (CLOSED).
3. THE VHF RADIO IS NOW SUPPLIED WITH 12V DC. SEE OPERATOR'S MANUAL FOR OPERATING INSTRUCTIONS.



TITLE: VHF RADIO

MOD.: 45Y

DR BY: CWM

61B



THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

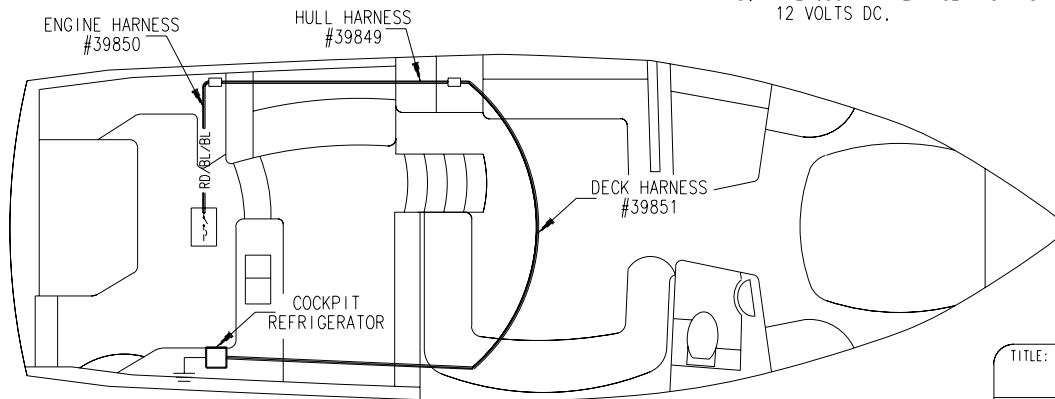
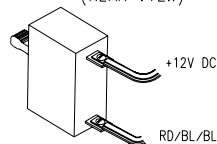
BREAKER 

PLUG 

GROUND 

"COCKPIT REFRIGERATOR"

BKR 10A
(AFT BKR PANEL)
(REAR VIEW)



TITLE: COCKPIT
REFRIGERATOR

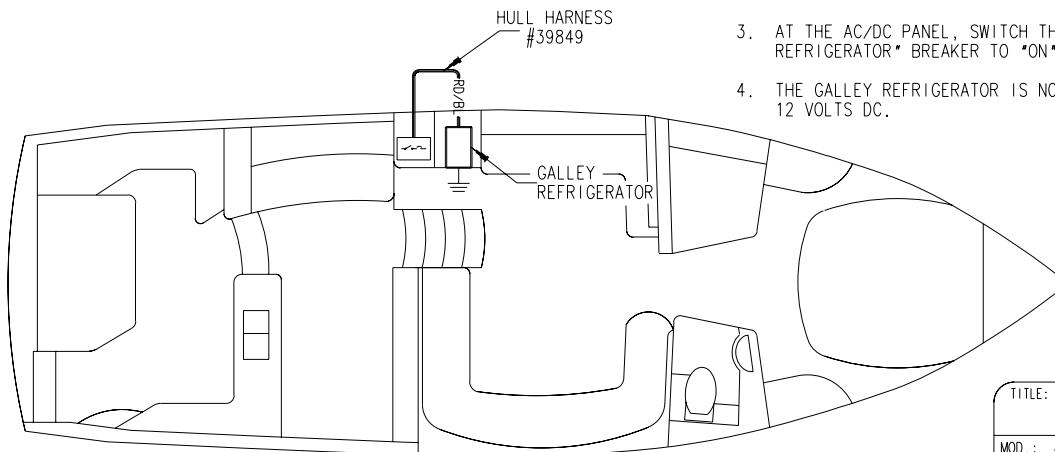
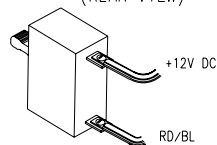
MOD.: 45Y

DR BY: CWM

62A

"GALLEY REFRIGERATOR"

BKR 10A
(CABIN AC/DC PANEL)
(REAR VIEW)



TITLE: GALLEY
REFRIGERATOR

MOD.: 45Y

DR BY: CWM

62B

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AFT BKR PANEL, SWITCH THE "COCKPIT REFRIGERATOR" BREAKER TO "ON".
3. THE COCKPIT REFRIGERATOR IS NOW SUPPLIED WITH 12 VOLTS DC.

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 1" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "GALLEY REFRIGERATOR" BREAKER TO "ON".
4. THE GALLEY REFRIGERATOR IS NOW SUPPLIED WITH 12 VOLTS DC.



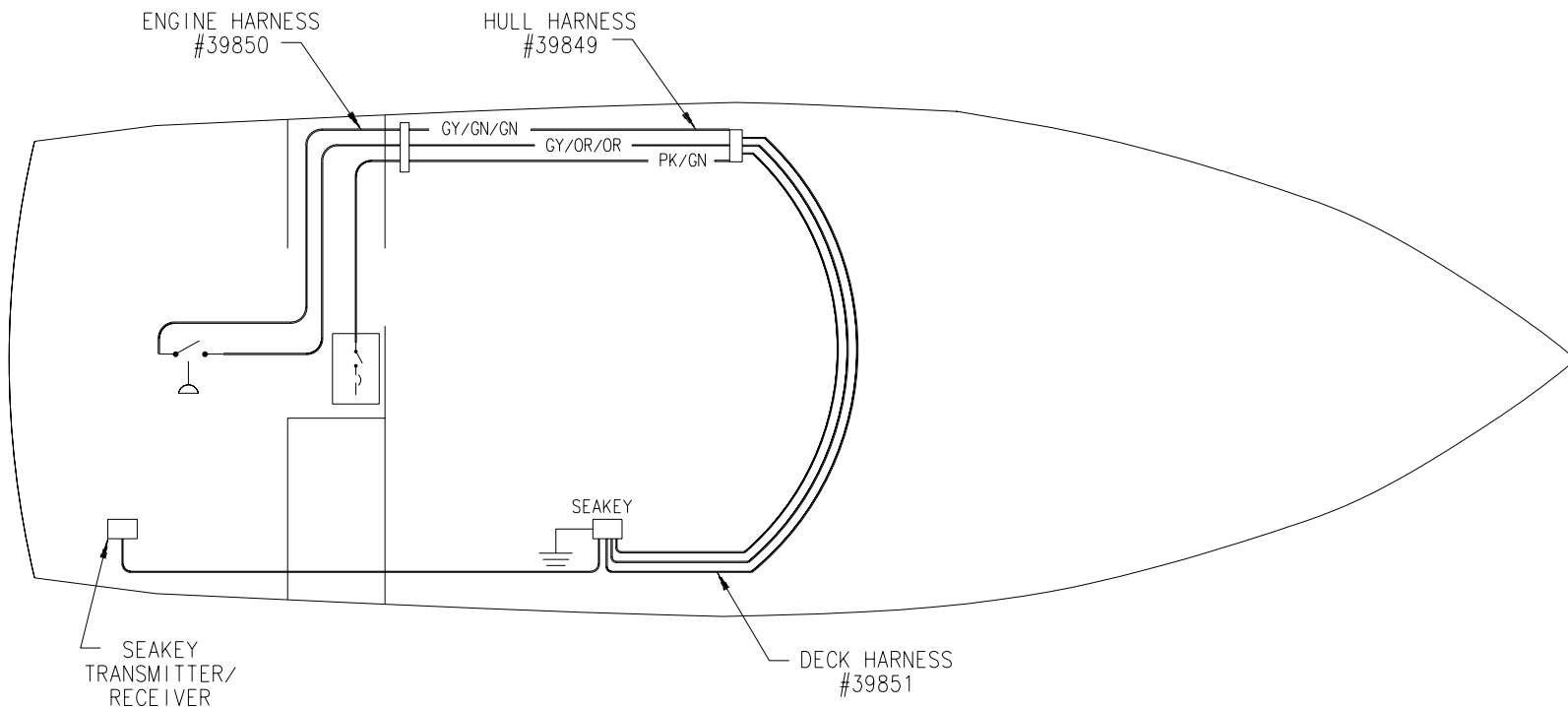
THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND



PK/GN

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AFT BKR PANEL, SWITCH THE "SEAKEY" BREAKER TO "ON".
3. SEAKEY IS NOW SUPPLIED WITH 12 VOLTS DC.



THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: SEAKY

MOD.: 45Y
DR BY: CWM

63

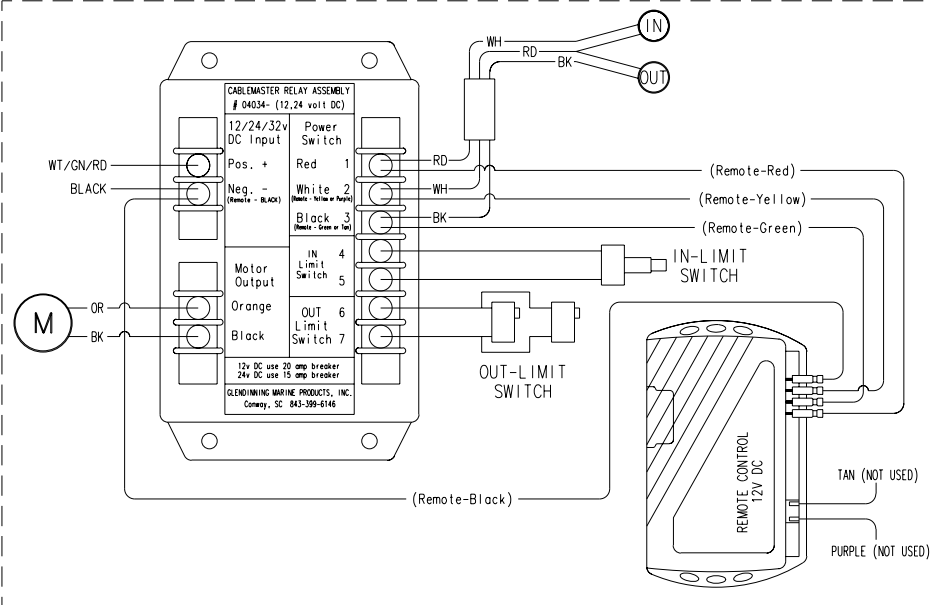
LEGEND

GROUND 

BREAKER 

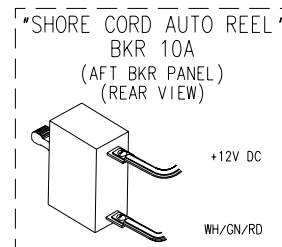
SWITCH 

PLUGS 

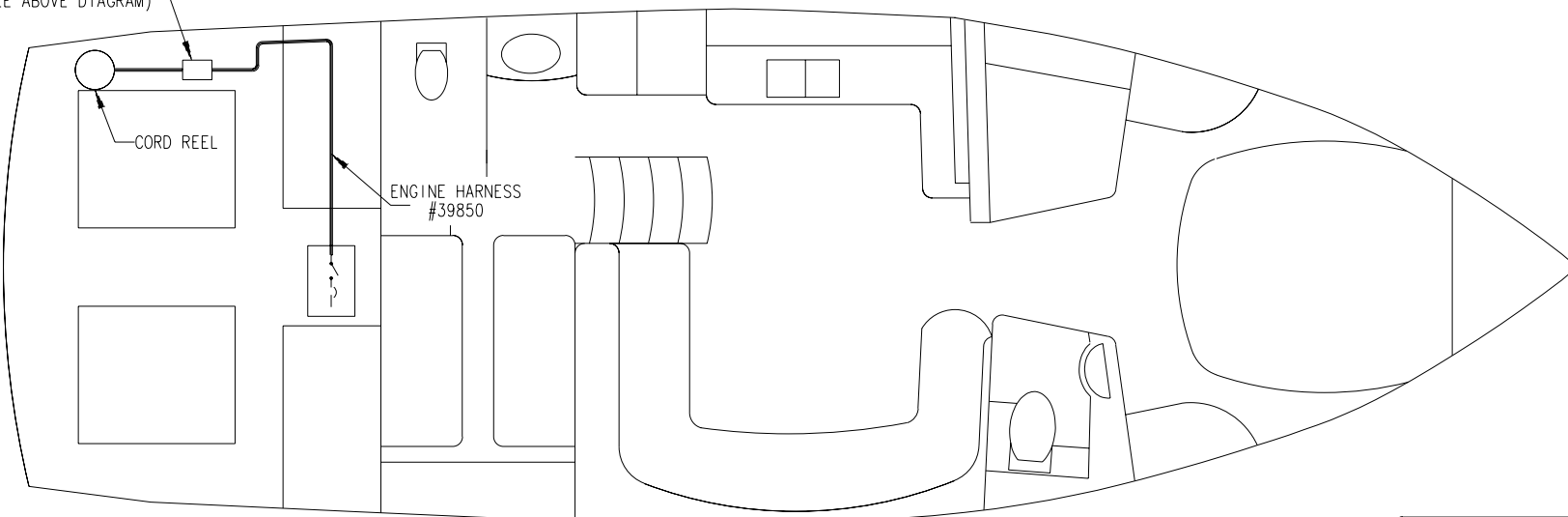


TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE AFT BKR PANEL, SWITCH THE "SHORE CORD AUTO REEL" BREAKER TO "ON".
3. THE SHORE CORD AUTO REEL CAN NOW BE OPERATED BY THE IN/OUT BUTTONS.

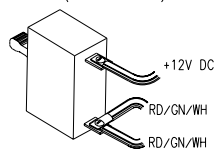


CORD REEL SWITCH
(SEE ABOVE DIAGRAM)

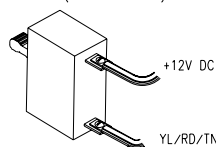


LEGEND

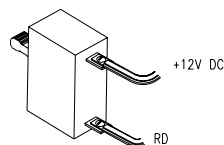
"COCKPIT STEREO" BKR 15A
(CABIN AC/DC PANEL)
(REAR VIEW)



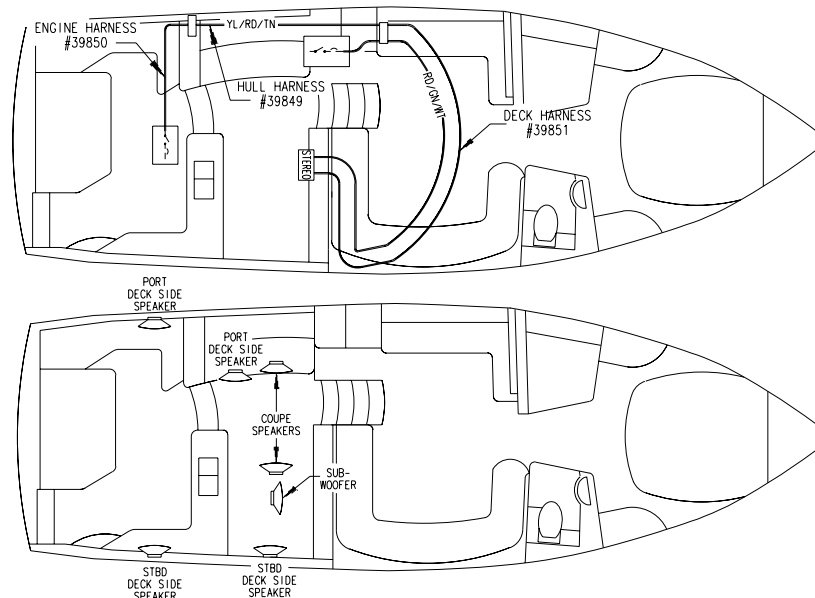
"STEREO MEMORY" BKR 20A
(AFT BKR PANEL)
(REAR VIEW)



"COCKPIT STEREO AMP" BKR 50A
(AFT BKR PANEL)
(REAR VIEW)



THUNDERBIRD
PRODUCTS
ENGINEERING



TO OPERATE:

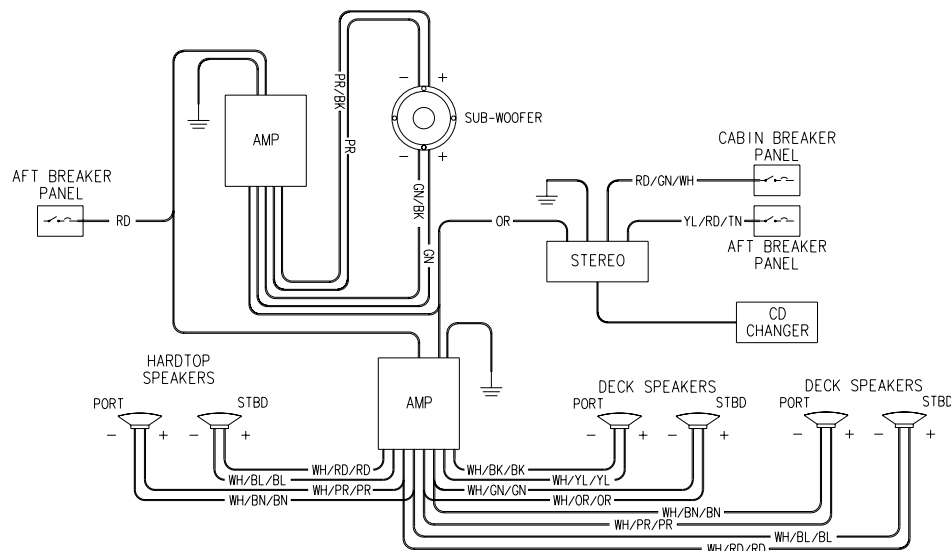
1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE CABIN AC/DC PANEL, SWITCH THE "COCKPIT STEREO" BREAKER TO ON.
3. AT THE AFT BKR PANEL, SWITCH THE "STEREO MEMORY" AND "COCKPIT STEREO AMP" BREAKERS TO "ON".
4. THE COCKPIT STEREO SYSTEM IS NOW SUPPLIED WITH 12 VOLTS DC AND READY FOR OPERATION.
5. SEE STEREO'S OPERATING MANUAL FOR INSTRUCTIONS ON OPERATING STEREO FUNCTIONS.

TITLE: COCKPIT STEREO,
COMPONENT LOCATION

MOD.: 45Y

DR BY: CWM

65A



TITLE: COCKPIT STEREO,
COMPLETE WIRING

MOD.: 45Y

DR BY: CWM

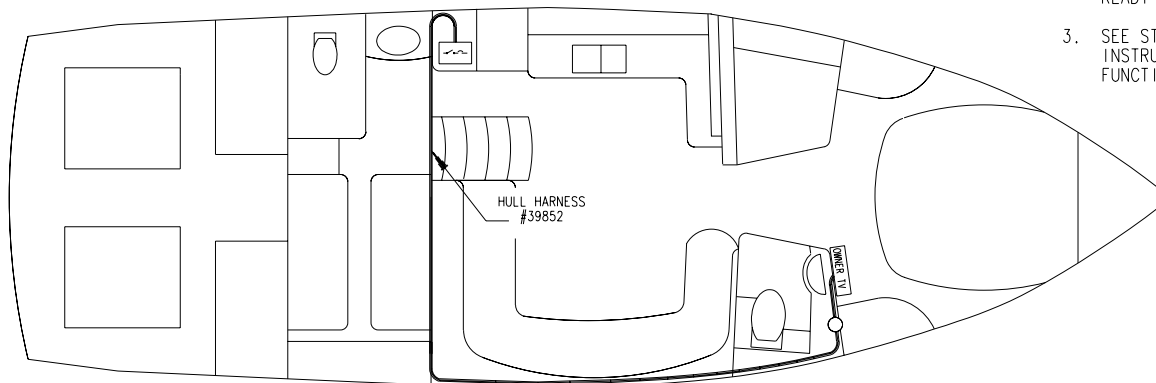
65B

LEGEND

BREAKER 

SPEAKER 

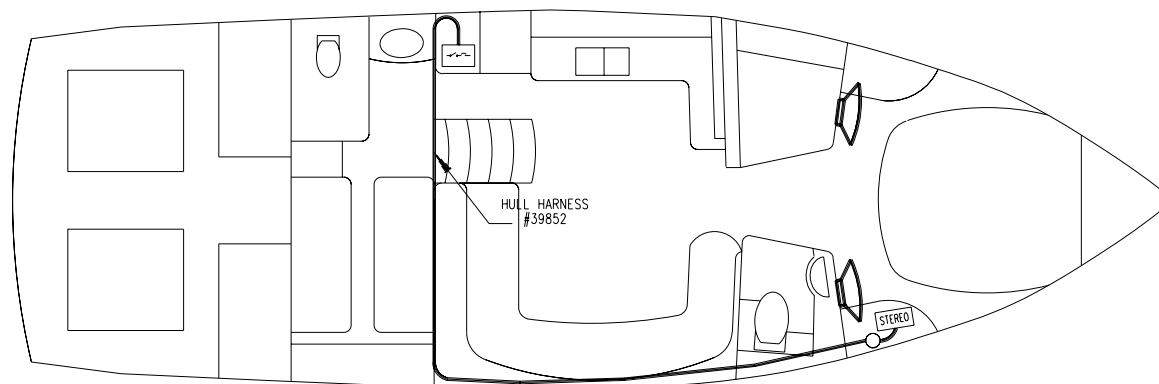
110V
OUTLET 



TO OPERATE:

1. AT THE CABIN AC/DC PANEL, SWITCH THE "ENTERTAINMENT" BREAKER TO "ON".
2. THE OWNER STATEROOM STEREO IS NOW SUPPLIED WITH 120 VOLTS AC AND IS READY FOR OPERATION.
3. SEE STEREO'S OPERATING MANUAL FOR INSTRUCTIONS ON OPERATING STEREO FUNCTIONS.

TITLE: OWNER TV, LOCATION	
MOD.: 45Y	66A
DR BY: CWM	



TO OPERATE:

1. AT THE CABIN AC/DC PANEL, SWITCH THE "ENTERTAINMENT" BREAKER TO "ON".
2. THE OWNER STATEROOM STEREO IS NOW SUPPLIED WITH 120 VOLTS AC AND IS READY FOR OPERATION.
3. SEE STEREO'S OPERATING MANUAL FOR INSTRUCTIONS ON OPERATING STEREO FUNCTIONS.

TITLE: OWNER STEREO	
MOD.: 45Y	66B
DR BY: CWM	




THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

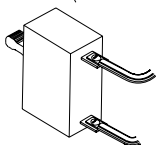
BREAKER 

SPEAKER 

OUTLET 

HARNESS PLUG 

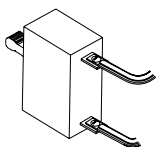
"ENTERTAINMENT SYSTEM" BKR 15A
(AC/DC BKR PANEL)
(REAR VIEW)



120V AC

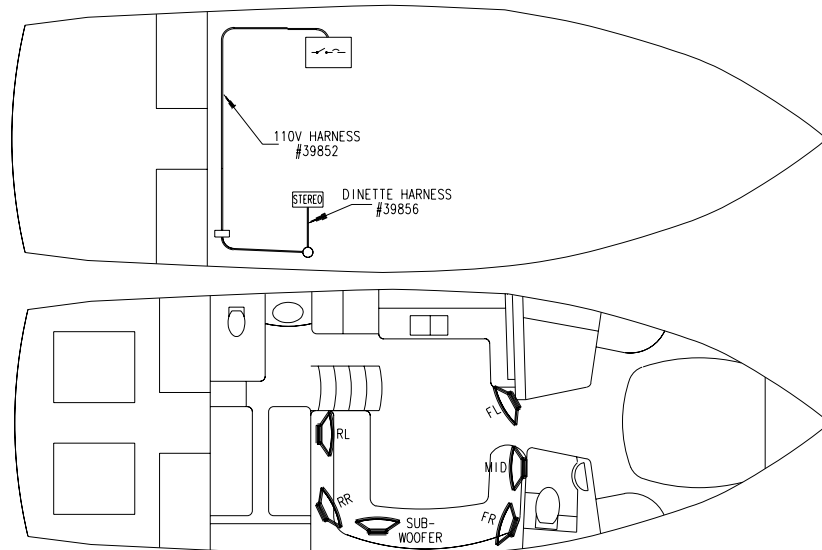
RD/WH

"STEREO MEMORY" BKR 20A
(AFT BKR PANEL)
(REAR VIEW)



+12V DC

YL/RD/TN



TO OPERATE:

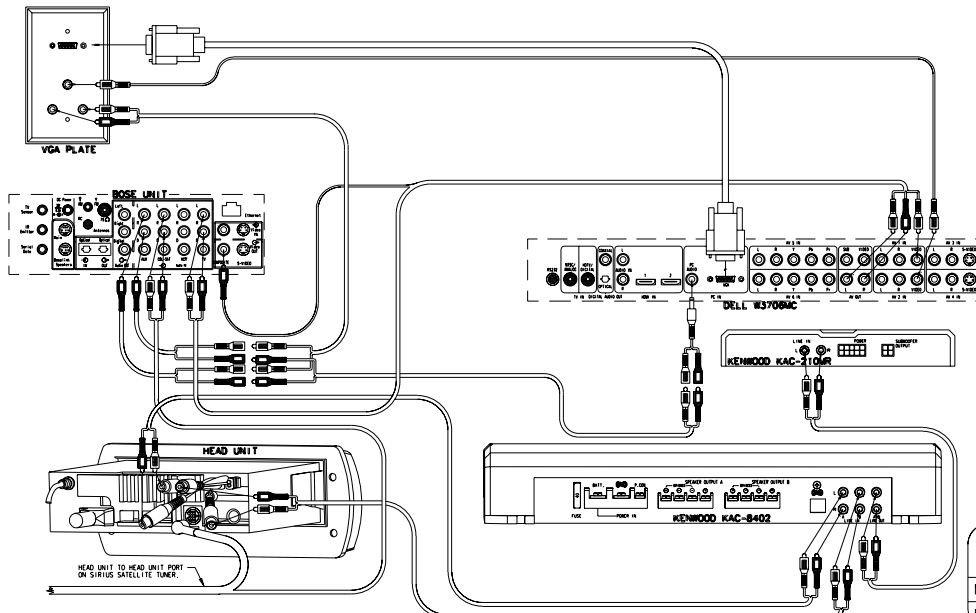
1. MAKE SURE THE BOAT IS SUPPLIED WITH SHOREPOWER OR GENERATOR POWER.
2. AT THE CABIN AC/DC PANEL, SWITCH THE "ENTERTAINMENT SYSTEM" BREAKER TO "ON".
3. THE SALON ENTERTAINMENT SYSTEM IS NOW SUPPLIED WITH 110 VOLTS AC AND IS READY FOR OPERATION.
4. SEE SALON ENTERTAINMENT SYSTEM OPERATING MANUAL FOR INSTRUCTIONS ON OPERATING STEREO FUNCTIONS.

TITLE: ENT. SYSTEM,
COMPONENT LOCATION

MOD.: 45Y

DR BY: CWM

67A



TITLE: ENT. SYSTEM,
COMPLETE WIRING

MOD.: 45Y

DR BY: CWM

67B

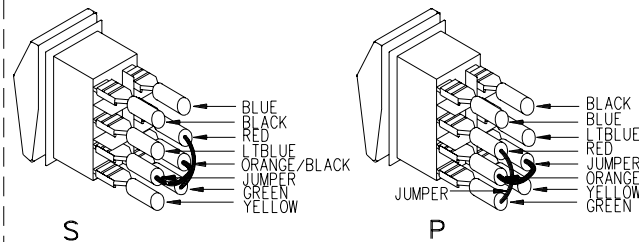


THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

BREAKER PANEL	
PUMP	
PLUGS	
GROUND	

TRIM TAB SWITCHES (REAR VIEW)



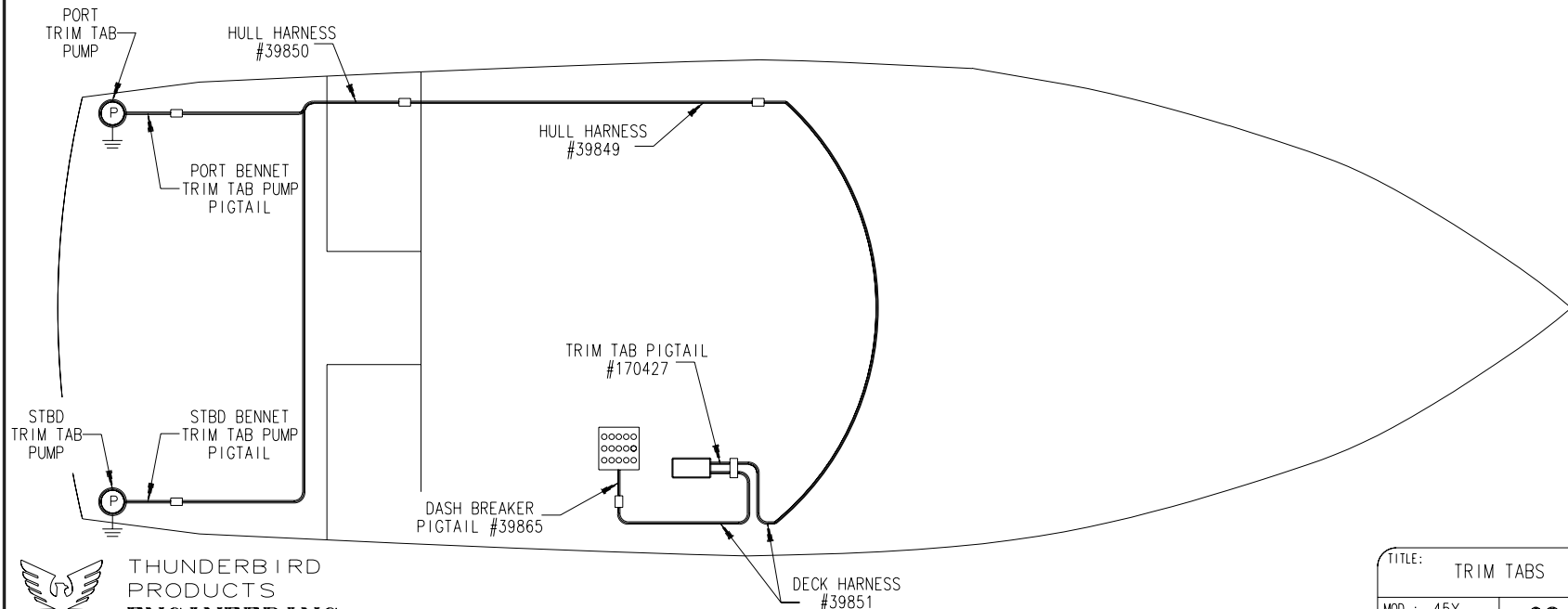
PIGTAIL #170427

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE "PORT TRIM TAB" AND "STBD TRIM TAB" BREAKERS MUST BE PUSHED IN (CLOSED).
3. THE TRIM TABS CAN NOW BE OPERATED BY THE "TRIM TAB" SWITCHES LOCATED ON THE TRIM TAB PANEL.

NOTE:

FOR ADDITIONAL INFORMATION SEE BENNETT TRIM TABS OWNER'S MANUAL.



THUNDERBIRD
PRODUCTS
ENGINEERING










TITLE: TRIM TABS

MOD.: 45Y

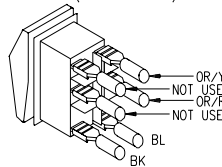
DR BY: CWM

68

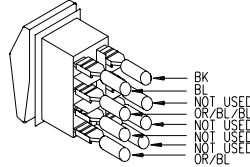
LEGEND

PLUGS	
BREAKER PANEL	
GROUND	
SOLENOID	
FUSE	
MOTOR	
BREAKER	
DPDT SWITCH	
SWITCH	

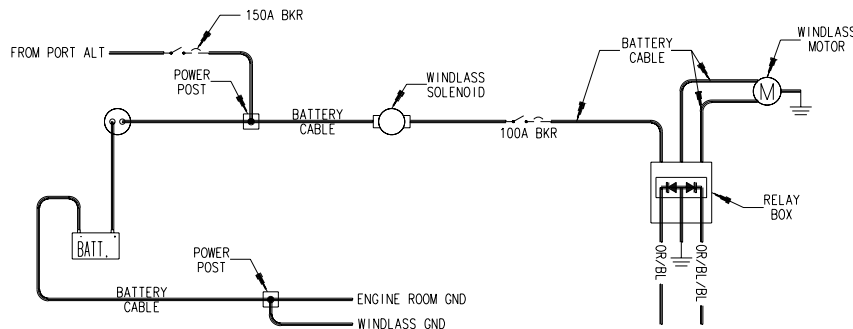
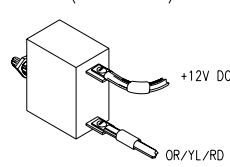
"WINDLS ON/OFF" SWITCH
(ACCESSORY PANEL)
(REAR VIEW)



"WIND UP/DOWN" SWITCH
(ACCESSORY PANEL)
(REAR VIEW)

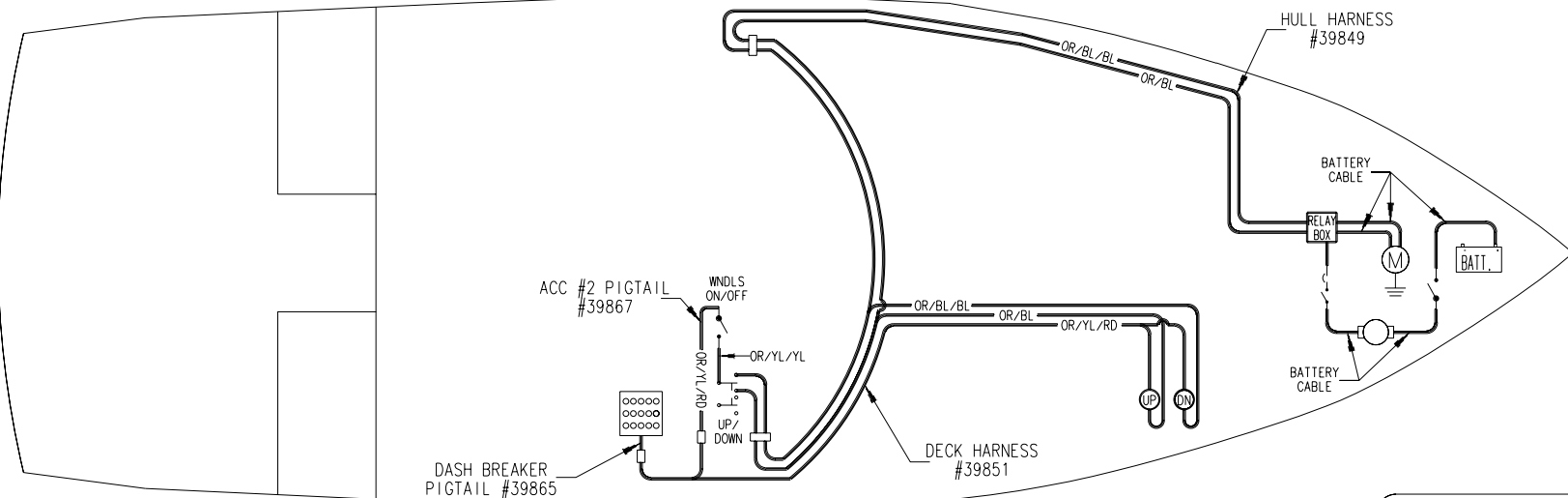


"WINDLS/THRSTR" BKR 15A
(DASH BKR PANEL)
(REAR VIEW)



TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE "WINDLS/THRSTR" BREAKER MUST BE PUSHED IN (CLOSED).
3. SWITCH "WINDLS ON/OFF" SWITCH TO "ON".
4. WINDLASS CAN NOW BE OPERATED BY THE "WIND UP/DOWN" SWITCH LOCATED ON THE ACCESSORY PANEL, OR BY THE "UP" OR "DOWN" FOOT SWITCHES ON THE FORE DECK.



TITLE: WINDLASS

MOD.: 45Y










OR BY: CWM

69

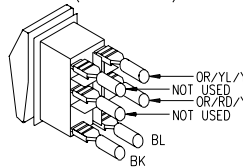


THUNDERBIRD
PRODUCTS
ENGINEERING

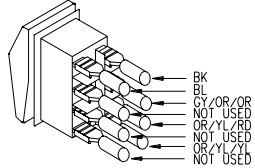
LEGEND

PLUGS	
BREAKER PANEL	
GROUND	
SOLENOID	
FUSE	
MOTOR	
BREAKER	
DPDT SWITCH	
SWITCH	

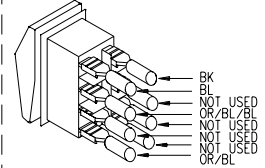
"WINDLS ON/OFF" SWITCH
(ACCESSORY PANEL)
(REAR VIEW)



"WIND/THRSTR" SWITCH
(ACCESSORY PANEL)
(REAR VIEW)

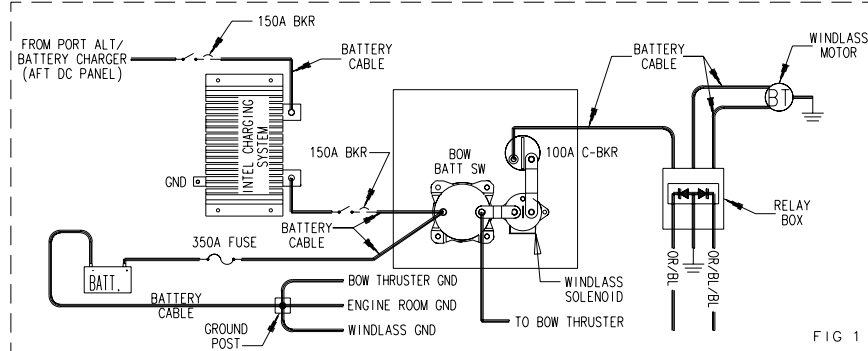


"WIND UP/DOWN" SWITCH
(ACCESSORY PANEL)
(REAR VIEW)

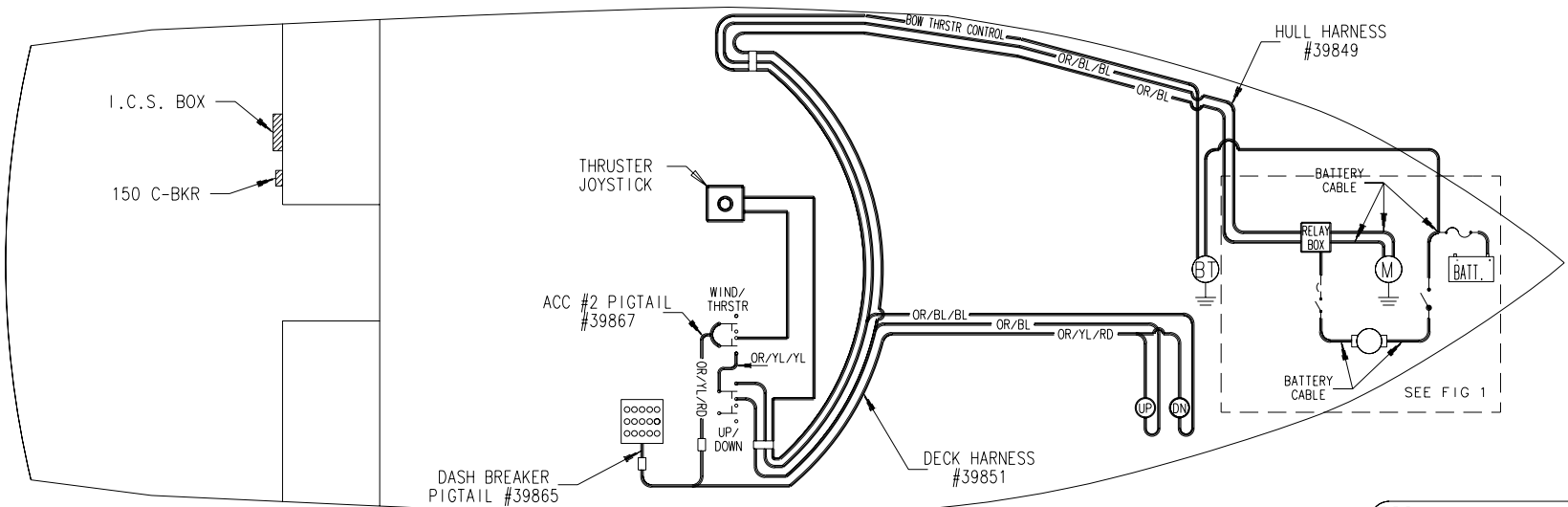
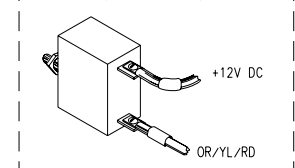


TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE "WINDLS/THRSTR" BREAKER MUST BE PUSHED IN (CLOSED).
3. SWITCH "WIND/THRSTR" SWITCH TO WINDLASS POSITION.
4. WINDLASS CAN NOW BE OPERATED BY THE "WIND UP/DOWN" SWITCH LOCATED ON THE ACCESSORY PANEL, OR BY THE "UP" OR "DOWN" FOOT SWITCHES ON THE FORE DECK.



"WINDLS/THRSTR" BKR 15A
(DASH BKR PANEL)
(REAR VIEW)





LEGEND

GROUND 

PLUGS 

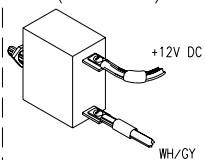
BREAKER PANEL 

DPDT SWITCH 

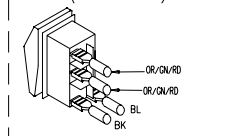
SWITCH 

MOTOR 

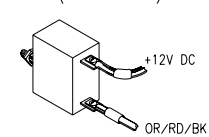
"WINDSHIELD WASH" BKR 5A
(DASH BKR PANEL)
(REAR VIEW)



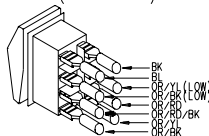
"WINDSHIELD WASH" SWITCH
(ACCESSORY PANEL)
(REAR VIEW)



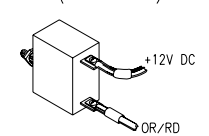
"PORT WIPER" BKR 10A
(DASH BKR PANEL)
(REAR VIEW)



"WIPER" SWITCH
(ACCESSORY PANEL)
(REAR VIEW)

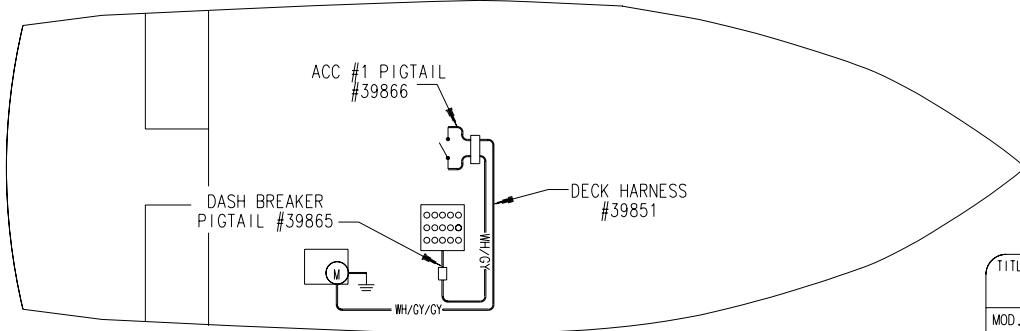


"STBD WIPER" BKR 10A
(DASH BKR PANEL)
(REAR VIEW)

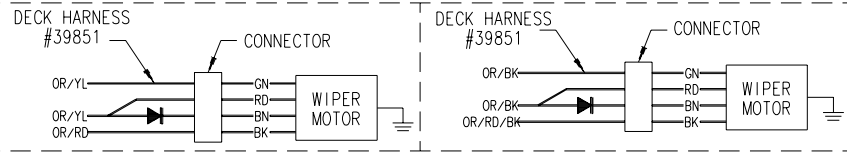


TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE "WINDSHIELD WASH" BREAKER MUST BE PUSHED IN (CLOSED).
3. THE WINDSHIELD WASH CAN BE OPERATED BY THE "WINDSHIELD WASH" SWITCH LOCATED ON THE ACCESSORY PANEL.

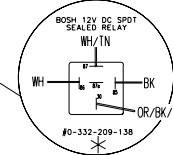
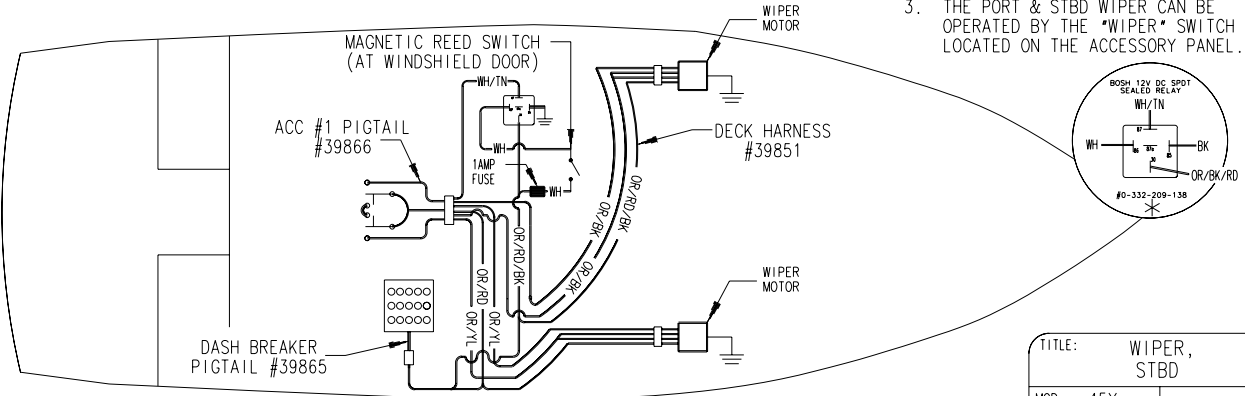


TITLE: WINDSHIELD WASH
MOD.: 45Y
DR BY: CWM
71A



TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE "PORT & STBD WIPER" BREAKERS MUST BE PUSHED IN (CLOSED).
3. THE PORT & STBD WIPER CAN BE OPERATED BY THE "WIPER" SWITCH LOCATED ON THE ACCESSORY PANEL.



TITLE: WIPER, STBD
MOD.: 45Y
DR BY: CWM
71B

LEGEND

GROUND 

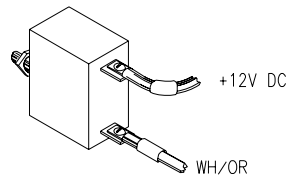
SWITCH 

BREAKER
PANEL 

PLUGS 

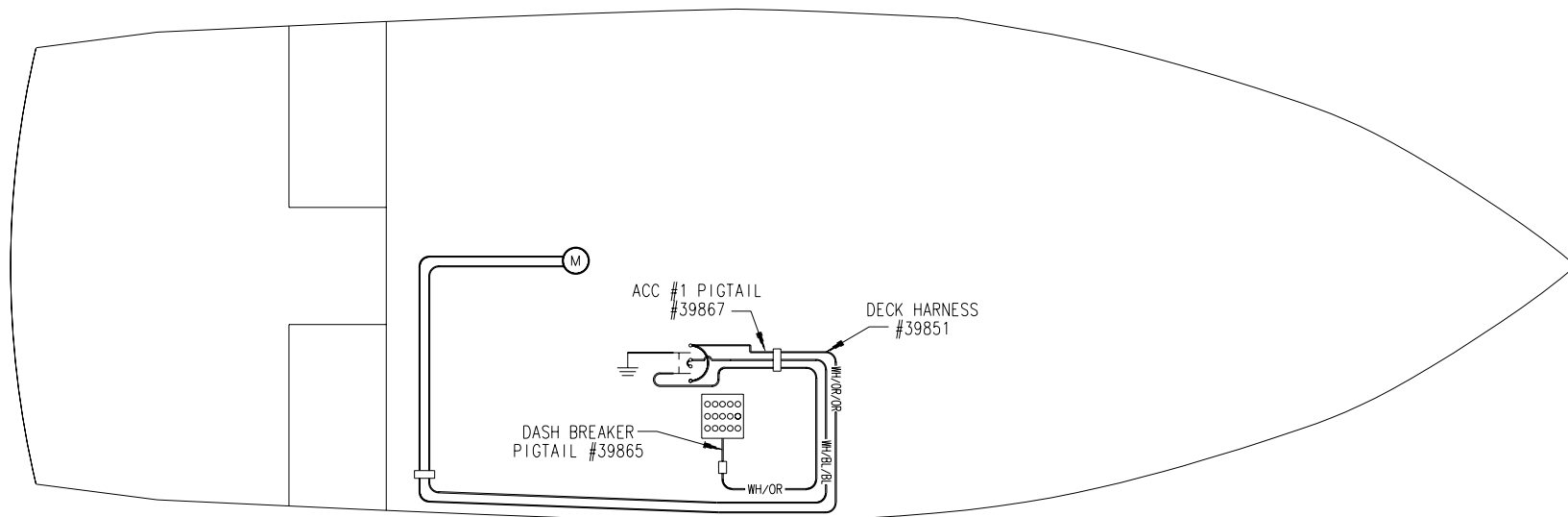
MOTOR 

"SUN ROOF" BKR 20A
(DASH BKR PANEL)
(REAR VIEW)



TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE "SUN ROOF" BREAKER MUST BE PUSHED IN (CLOSED).
3. THE SUN ROOF IS NOW SUPPLIED WITH POWER.



TITLE: SUN ROOF

MOD.: 45Y
DR BY: CWM

72




THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

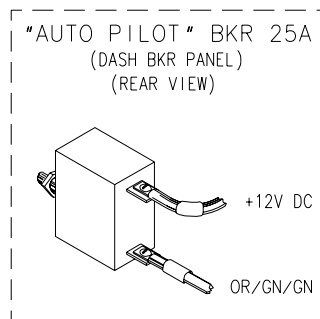
GROUND 

SWITCH 

BREAKER
PANEL 

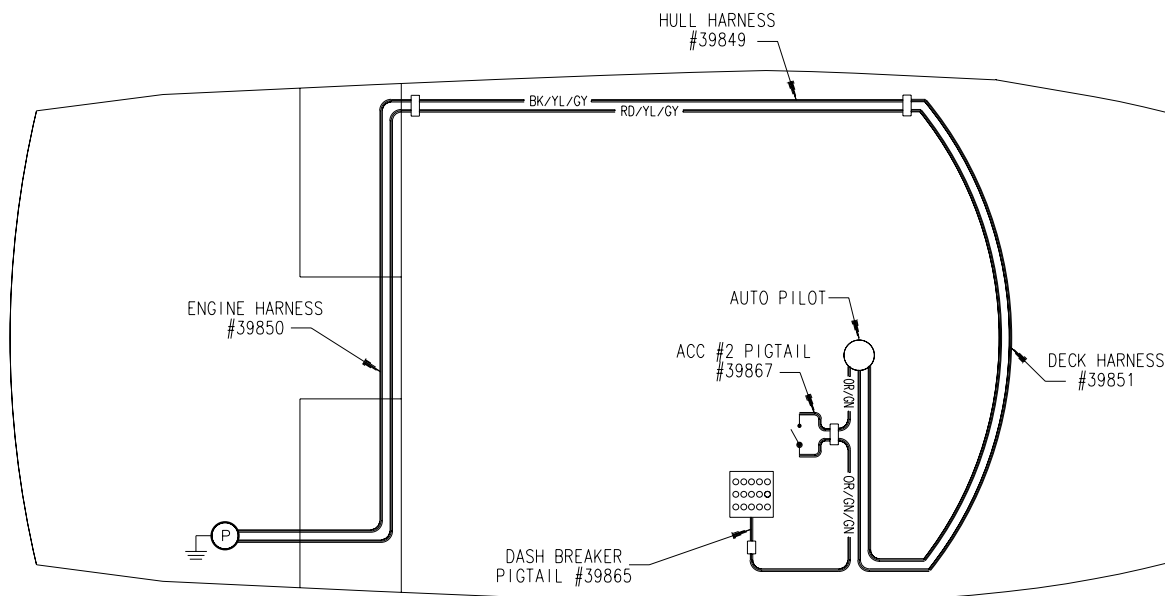
PLUGS 

PUMP 



TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "AUX BATT" SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE "AUTO PILOT" BREAKER MUST BE PUSHED IN (CLOSED).
3. THE AUTO PILOT IS NOW SUPPLIED WITH POWER.
4. REFER TO RAYMARINE'S OPERATING MANUAL FOR OPERATING INSTRUCTIONS.



THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: AUTO PILOT

MOD.: 45Y
DR BY: CWM

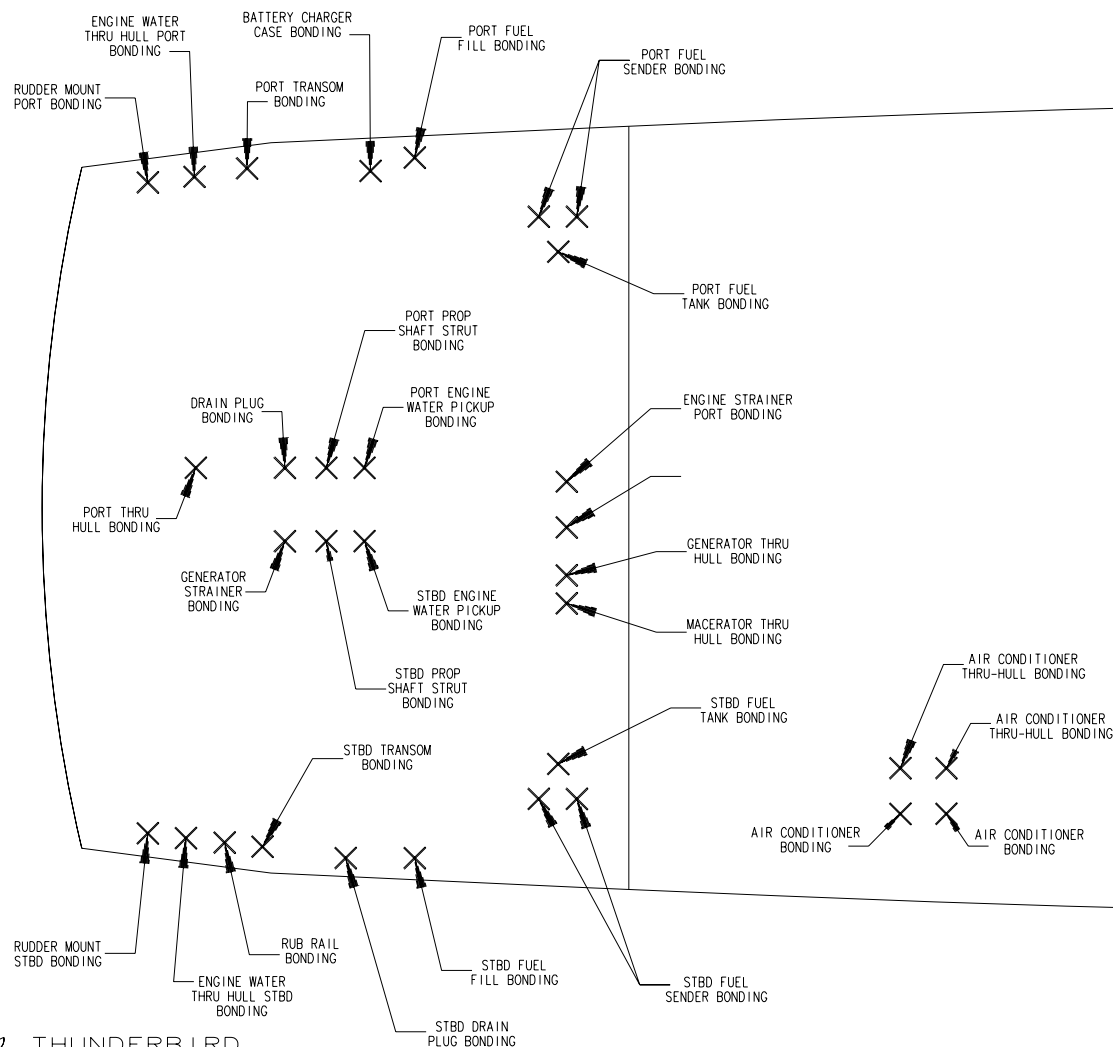
73

LEGEND

GROUND



NOTE:
ALL BONDING WIRES ARE LIGHT GREEN.
ALL GROUND WIRES ARE BLACK.



THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: BONDING

MOD.: 45Y
DR BY: CWM

75

