

# 47Y WIRE DIAGRAM INDEX

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# 47Y WIRE DIAGRAM INDEX

## DC CIRCUITS

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# 47Y HARNESS AND PIGTAIL #'S

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## AC 220V HARNESSES

MAIN.....	202290
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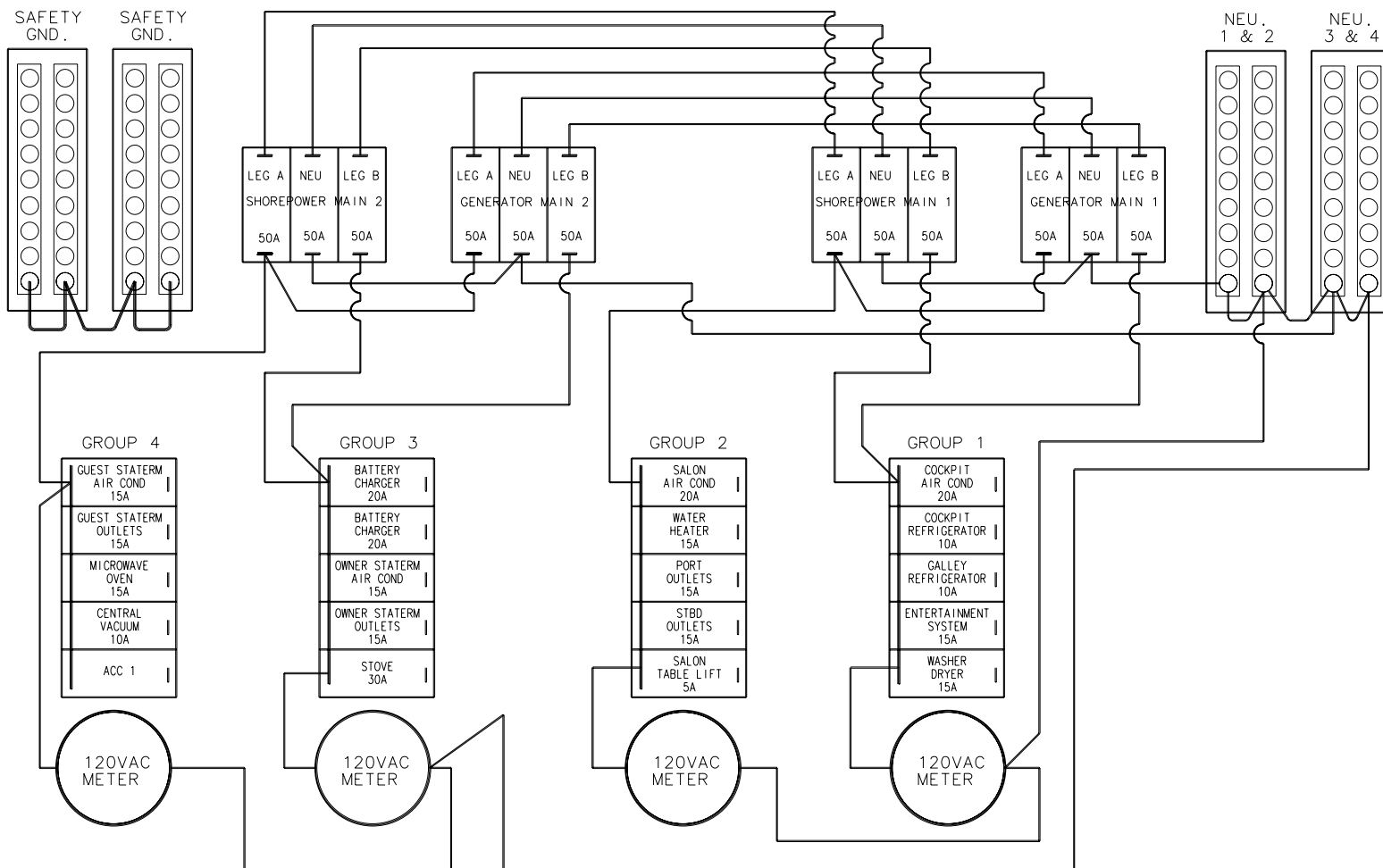
## DC 12V HARNESSES

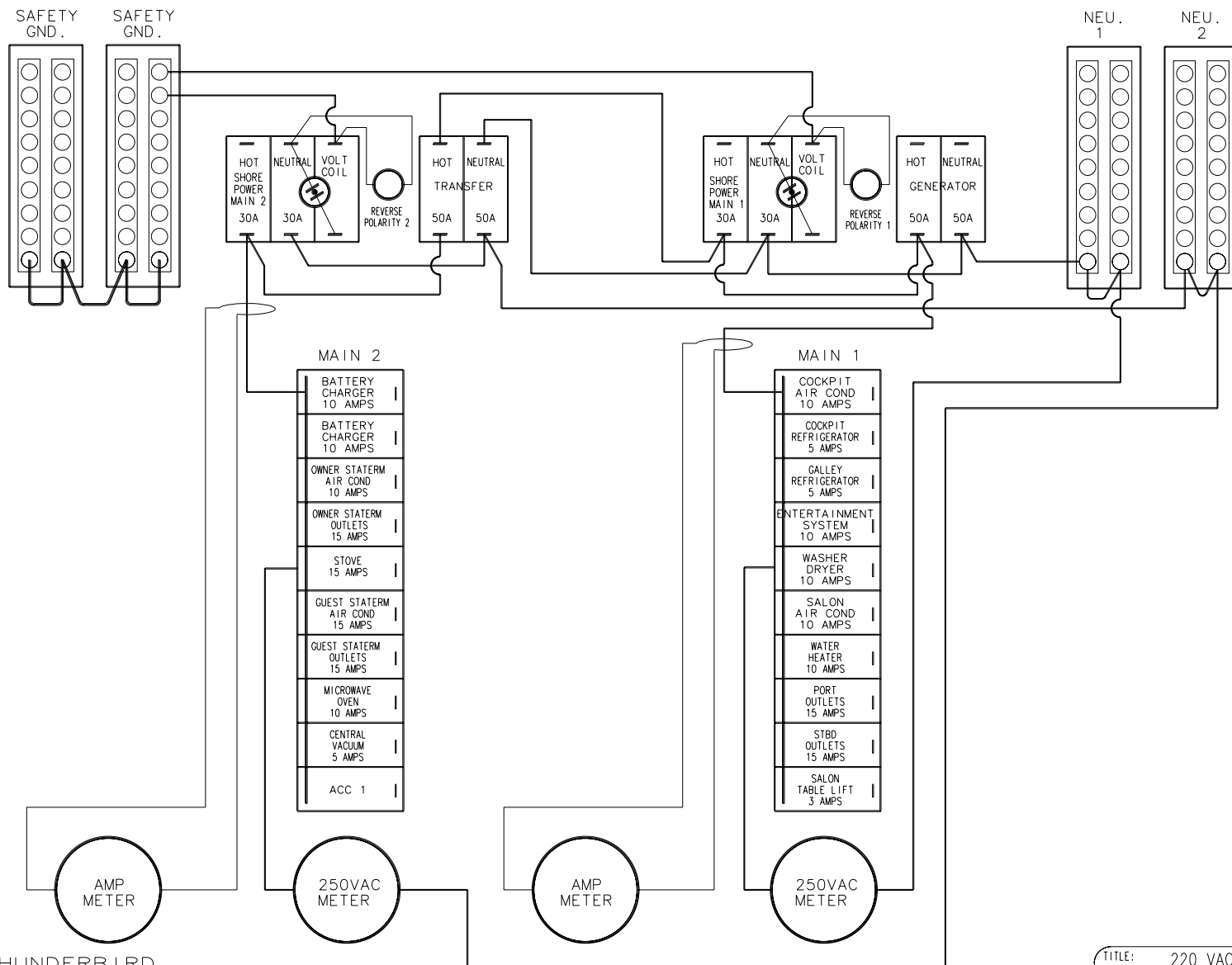
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THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: 220 VAC  
SCHEMATIC

MOD.: 47Y

DR BY: JAW

05

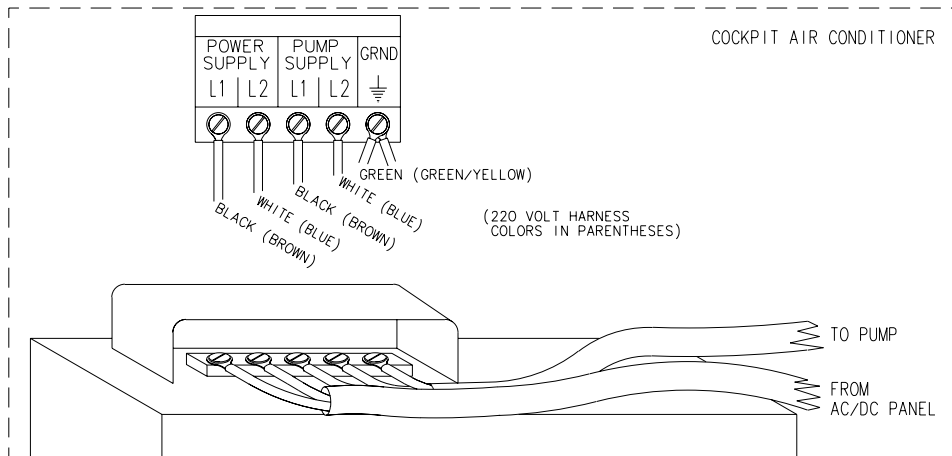
# LEGEND

3-WIRE AC CONDUCTOR

BREAKER

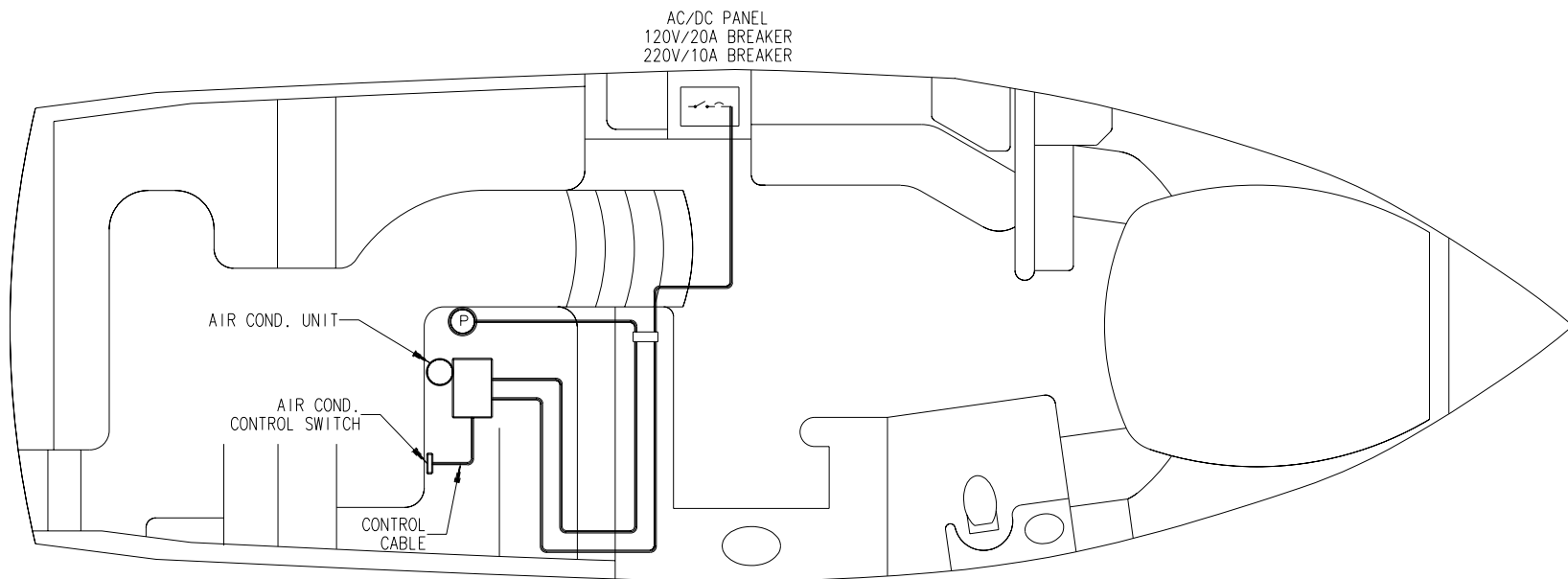
PUMP

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.



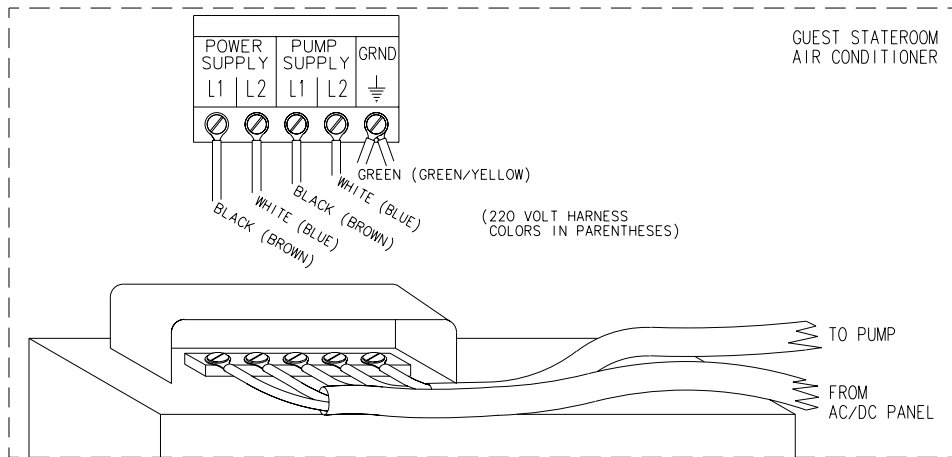
THUNDERBIRD  
PRODUCTS  
ENGINEERING

# LEGEND

3-WIRE AC  
CONDUCTOR

BREAKER

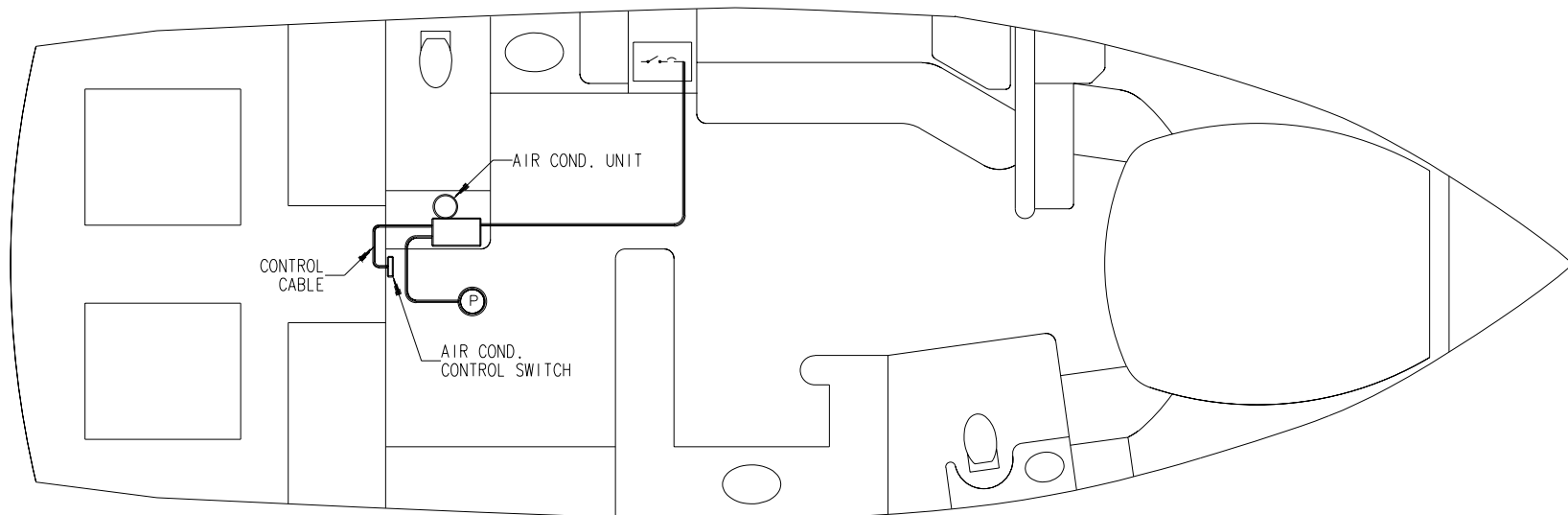
PUMP



## 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 \*GUEST STATEROOM AIR COND\* BREAKER TO \*ON\*.
4. THE GUEST STATEROOM AIR CONDITIONER IS NOW SUPPLIED WITH POWER.

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



THUNDERBIRD  
PRODUCTS  
ENGINEERING

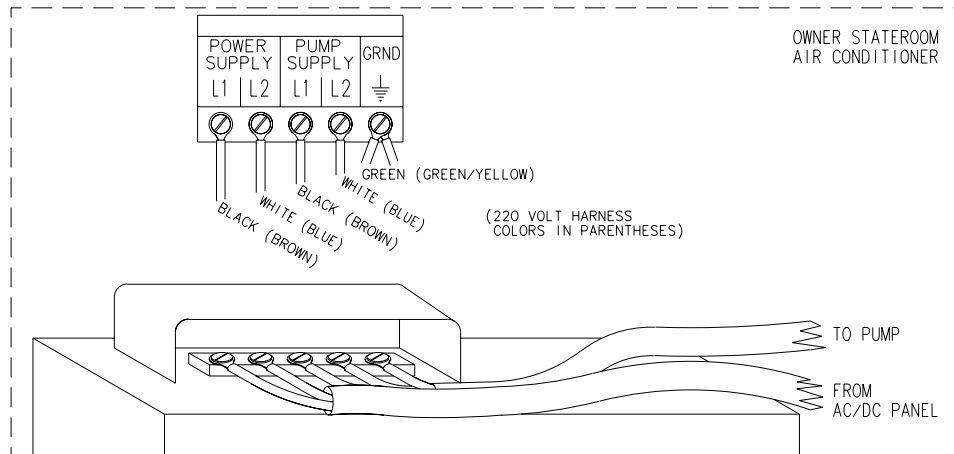
TITLE: AIR CONDITIONER, GUEST STATEROOM	
MOD.: 47Y	07
DR BY: JAW	

# LEGEND

3-WIRE AC CONDUCTOR

BREAKER

PUMP

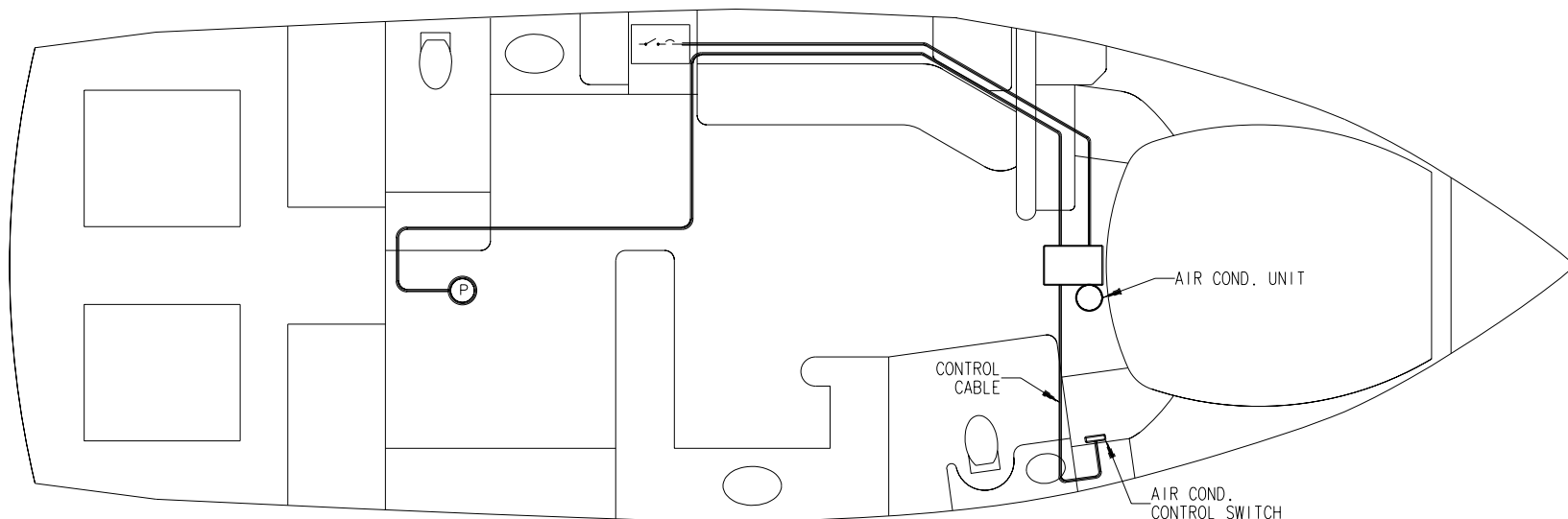


OWNER STATEROOM  
AIR CONDITIONER

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 STATERM 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



AIR COND. UNIT

CONTROL  
CABLE

AIR COND.  
CONTROL SWITCH






THUNDERBIRD  
PRODUCTS  
ENGINEERING

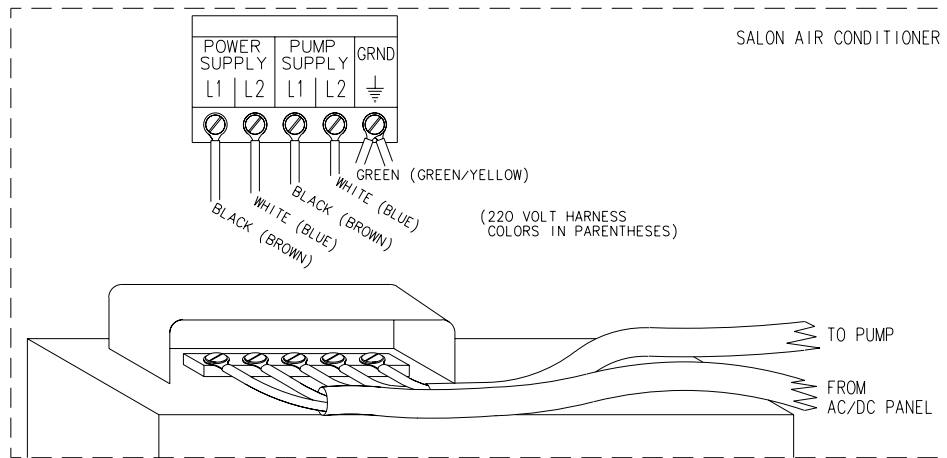
TITLE: AIR CONDITIONER,  
OWNER STATEROOM  
MOD.: 47Y  
DR BY: JAW

08



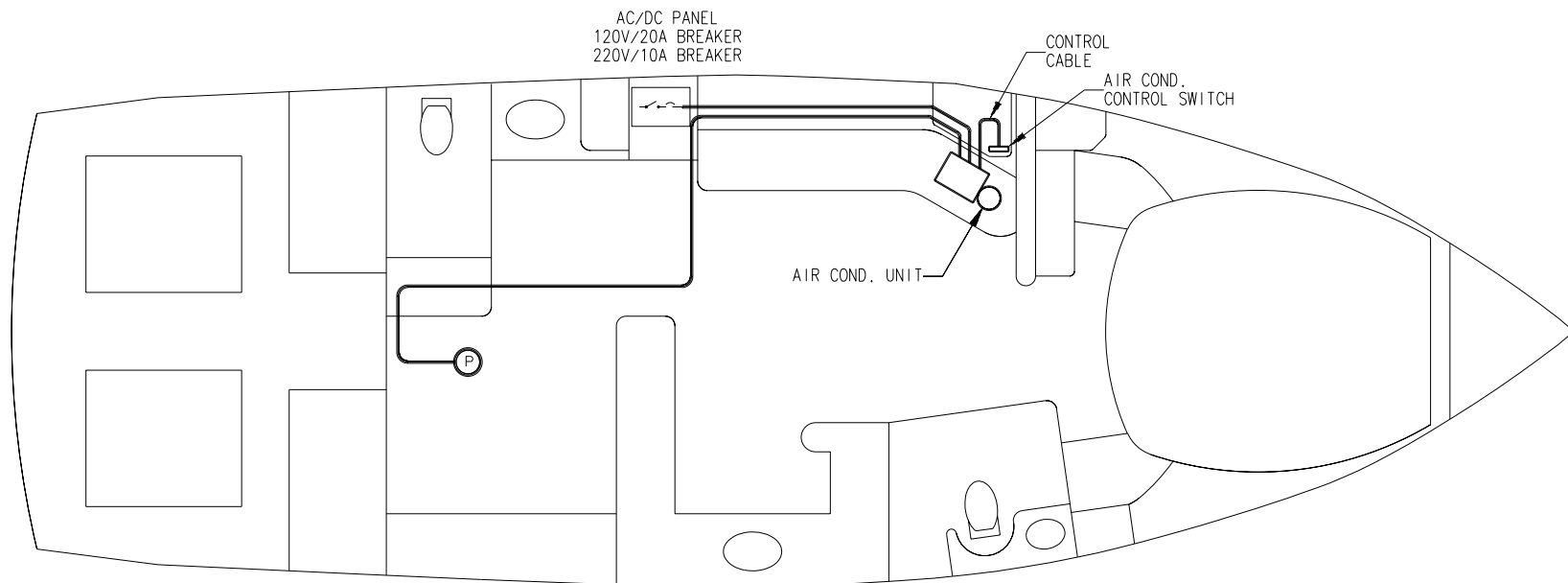
# LEGEND

3-WIRE AC CONDUCTOR	
BREAKER	
PUMP	



## 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.



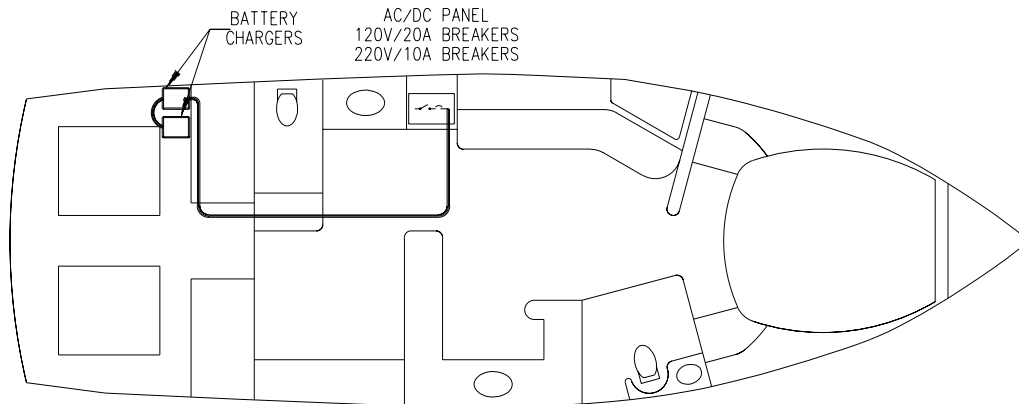
THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: AIR CONDITIONER, SALON	
MOD.: 47Y	09
DR BY: JAW	

# LEGEND

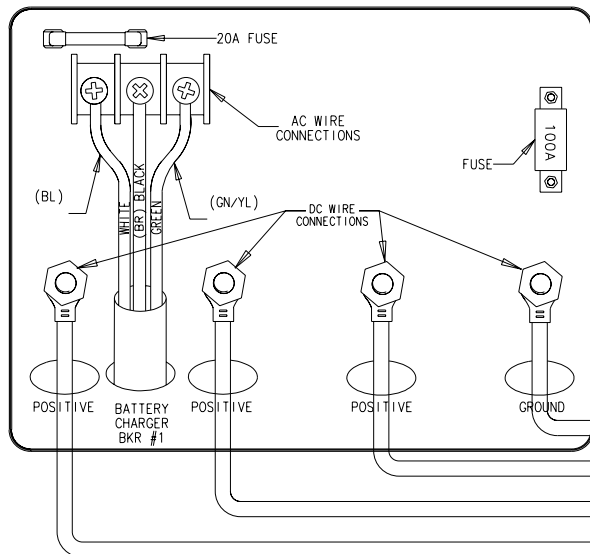
BREAKER 

3-WIRE AC CONDUCTOR 



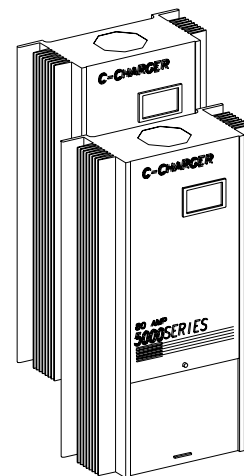
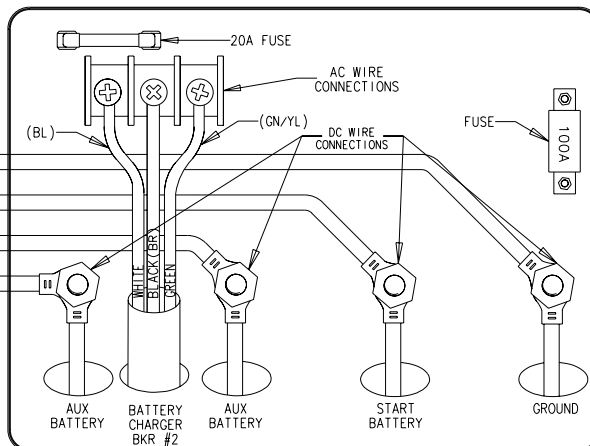
## TO OPERATE:

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".
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.: 47Y

DR BY: JAW

10

# LEGEND

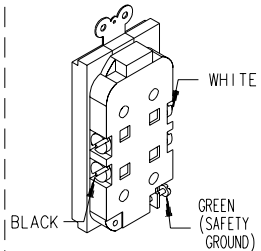
3-WIRE AC  
CONDUCTOR

BREAKER

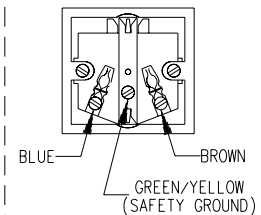
AC PLUG

OUTLET

## 120V AC OUTLET (REAR VIEW)



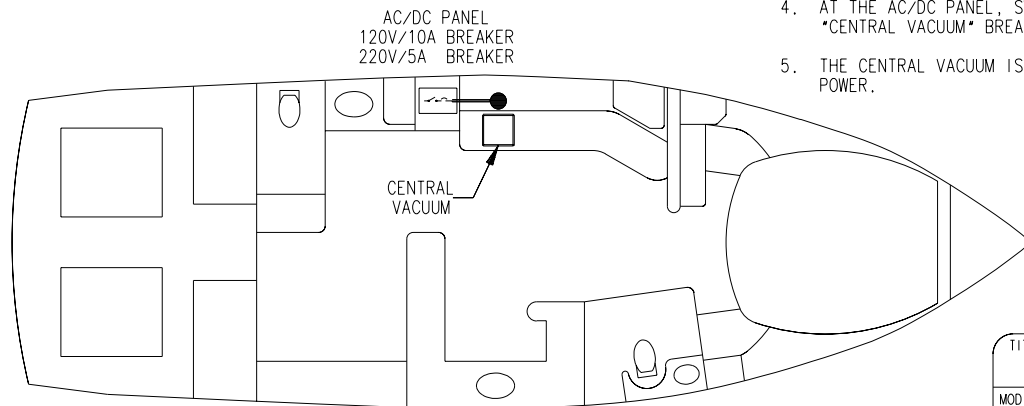
## 220V AC OUTLET (REAR VIEW)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

### 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

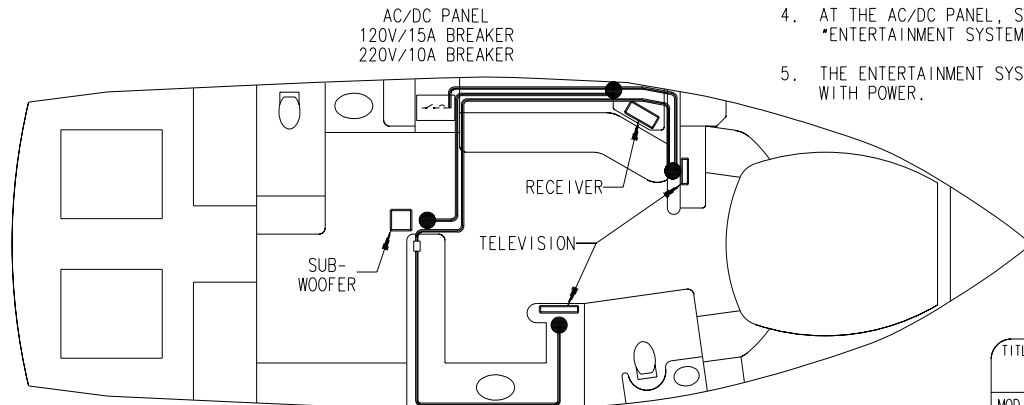
MOD.: 47Y

DR BY: JAW

11A

### 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.: 47Y

DR BY: JAW

11B

# LEGEND

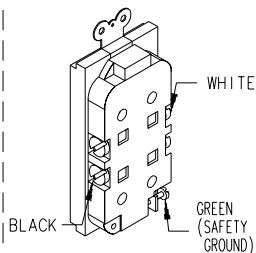
OUTLET ●

BREAKER 

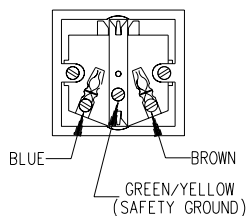
AC PLUG □

3-WIRE AC CONDUCTOR 

120V AC OUTLET  
(REAR VIEW)



220V AC OUTLET  
(REAR VIEW)

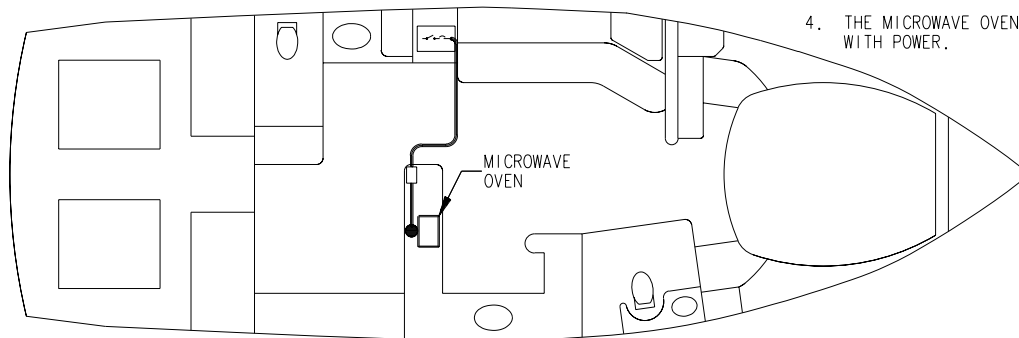


THUNDERBIRD  
PRODUCTS  
ENGINEERING

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/15A BREAKER  
220V/10A BREAKER



TITLE: MICROWAVE  
OVEN

MOD.: 47Y

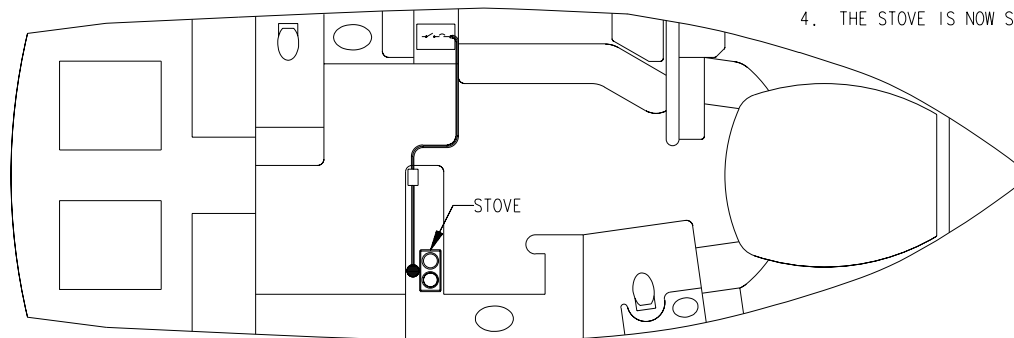
DR BY: JAW

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 "STOVE" BREAKER TO "ON".
4. THE STOVE IS NOW SUPPLIED WITH POWER.

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



TITLE: STOVE

MOD.: 47Y

DR BY: JAW

12B

# LEGEND

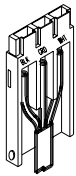
3-WIRE AC  
CONDUCTOR

BREAKER

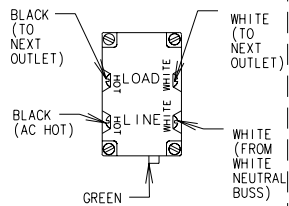
OUTLET

GFCI  
OUTLET

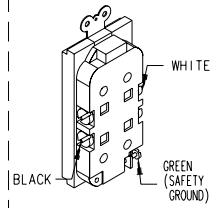
AC HARNESS PLUG



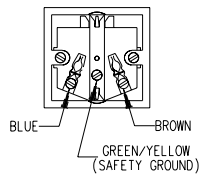
## 120V AC GFCI OUTLET



## 120V AC OUTLET (REAR VIEW)

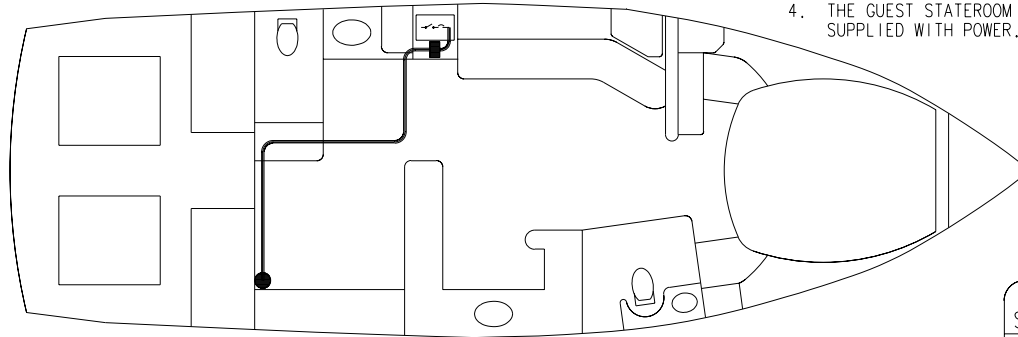


## 220V AC OUTLET (REAR VIEW)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

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



TITLE: GUEST  
STATEROOM OUTLETS  
MOD.: 47Y  
DR BY: JAW

13A

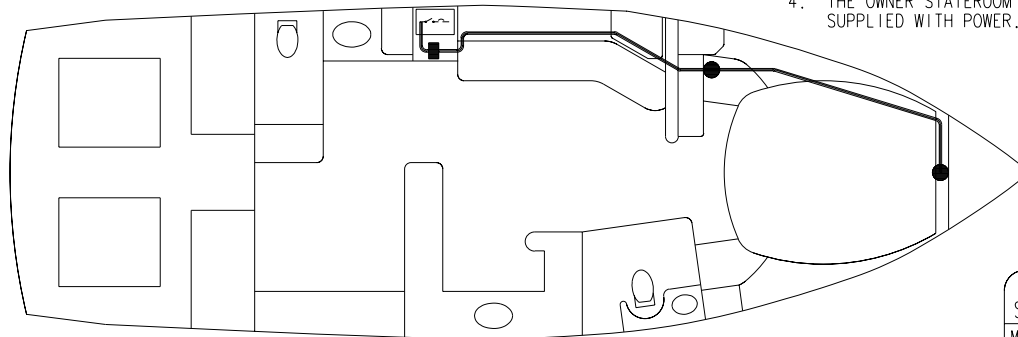
TO OPERATE:

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 3 & 4, TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "GUEST STATEROOM OUTLETS" BREAKER TO "ON".
4. THE GUEST STATEROOM OUTLETS ARE NOW SUPPLIED WITH POWER.

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.: 47Y  
DR BY: JAW

13B

# LEGEND

AC PLUG



BREAKER



OUTLET



GFCI

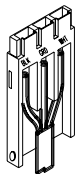


OUTLET

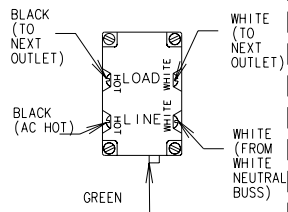
3-WIRE AC  
CONDUCTOR



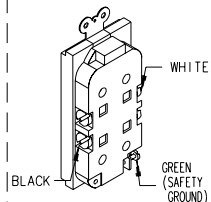
AC HARNESS PLUG



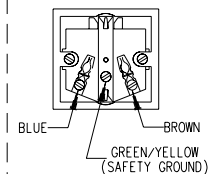
## 120V AC GFCI OUTLET



## 120V AC OUTLET (REAR VIEW)



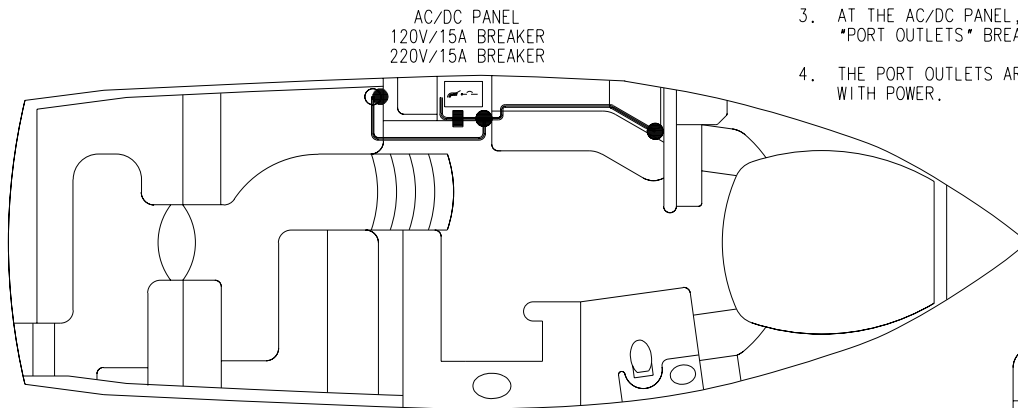
## 220V AC OUTLET (REAR VIEW)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

## 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 "PORT OUTLETS" BREAKER TO "ON".
4. THE PORT OUTLETS ARE NOW SUPPLIED WITH POWER.



TITLE: PORT  
OUTLETS

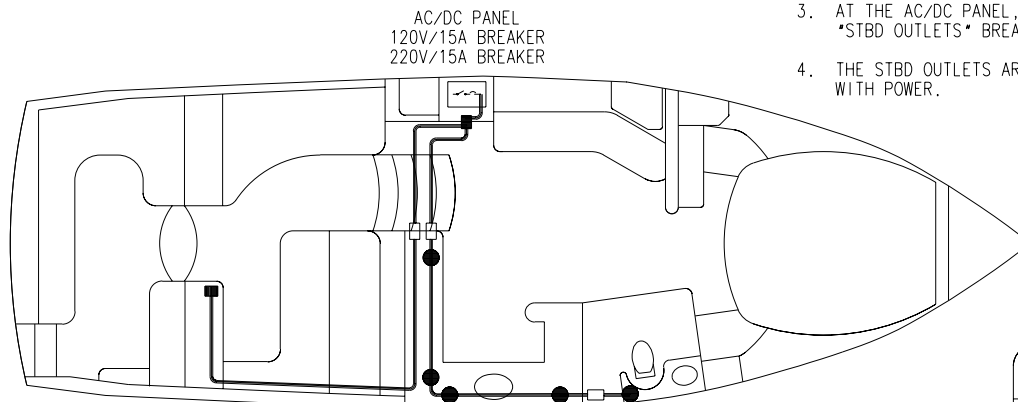
MOD.: 47Y

DR BY: JAW

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 "STBD OUTLETS" BREAKER TO "ON".
4. THE STBD OUTLETS ARE NOW SUPPLIED WITH POWER.



TITLE: STBD  
OUTLETS

MOD.: 47Y

DR BY: JAW

14B

# LEGEND

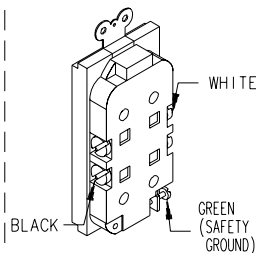
OUTLET ●

BREAKER 

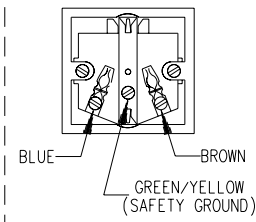
AC PLUG 

3-WIRE AC CONDUCTOR 

120V AC OUTLET  
(REAR VIEW)

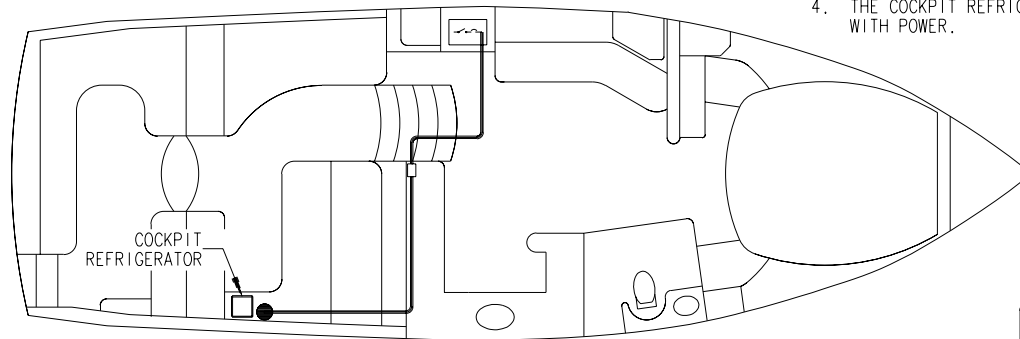


220V AC OUTLET  
(REAR VIEW)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

AC/DC PANEL  
120V/10A BREAKER  
220V/5A BREAKER



- 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.

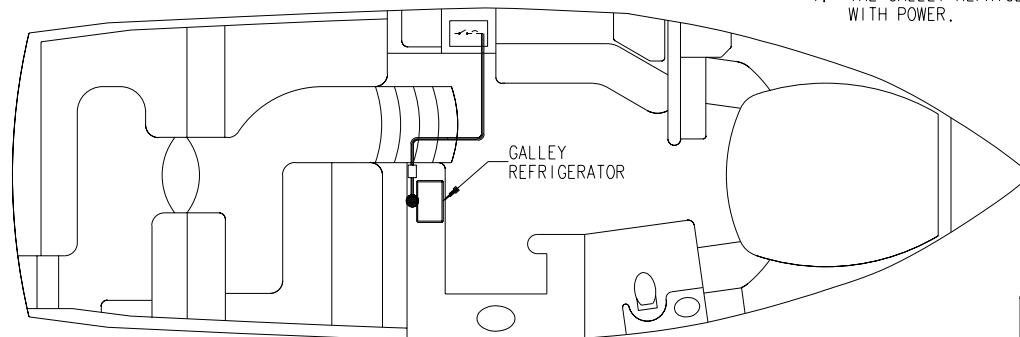
TITLE: COCKPIT  
REFRIGERATOR

MOD.: 47Y

DR BY: JAW

15A

AC/DC PANEL  
120V/10A BREAKER  
220V/5A BREAKER



- 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.: 47Y

DR BY: JAW

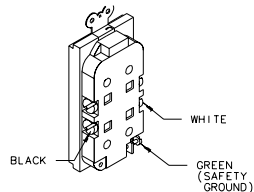
15B

# LEGEND

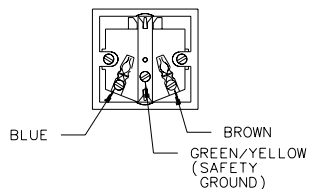
OUTLET ●

BREAKER 

3-WIRE AC CONDUCTOR 



120V AC OUTLET  
(REAR VIEW)



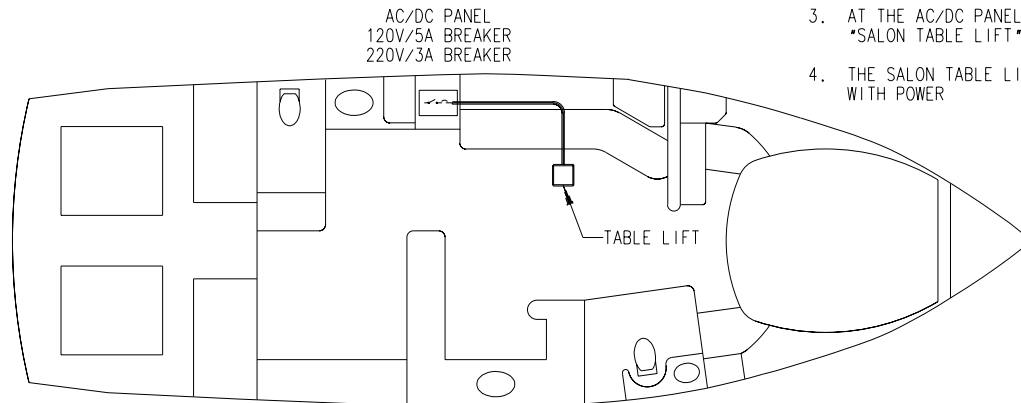
220V AC OUTLET  
(REAR VIEW)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

## TO OPERATE:

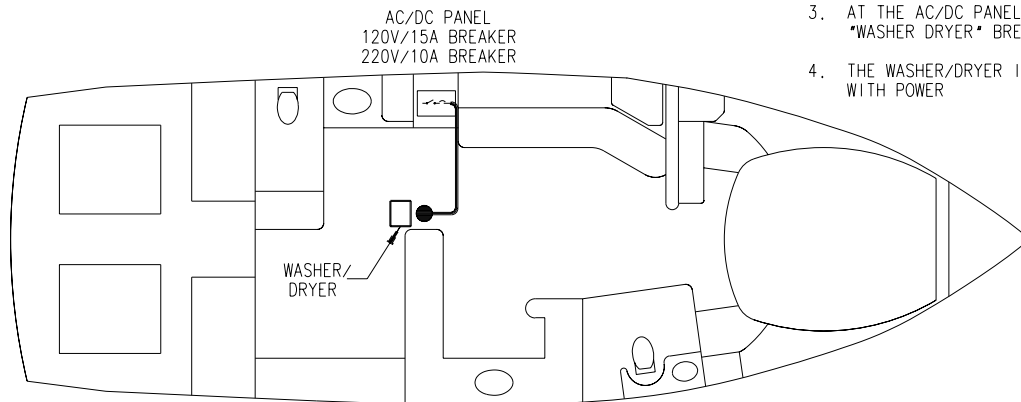
1. MAKE SURE THE BOAT IS SUPPLIED WITH SHOREPOWER OR GENERATOR POWER.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH SHOREPOWER BREAKER OR GENERATOR BREAKER, GROUP 1 & 2, TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "SALON TABLE LIFT" BREAKER TO "ON".
4. THE SALON TABLE LIFT IS NOW SUPPLIED WITH POWER



TITLE: SALON  
TABLE LIFT  
MOD.: 47Y  
DR BY: JAW  
16A

## 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 "WASHER DRYER" BREAKER TO "ON".
4. THE WASHER/DRYER IS NOW SUPPLIED WITH POWER



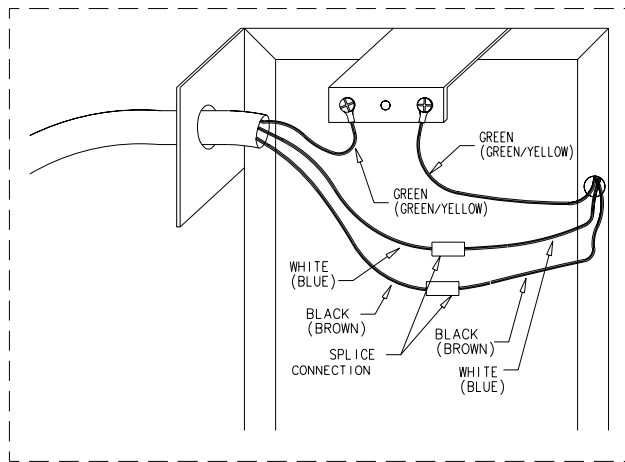
TITLE: WASHER/  
DRYER  
MOD.: 47Y  
DR BY: JAW  
16B



# LEGEND

BREAKER 

3-WIRE AC  
CONDUCTOR 

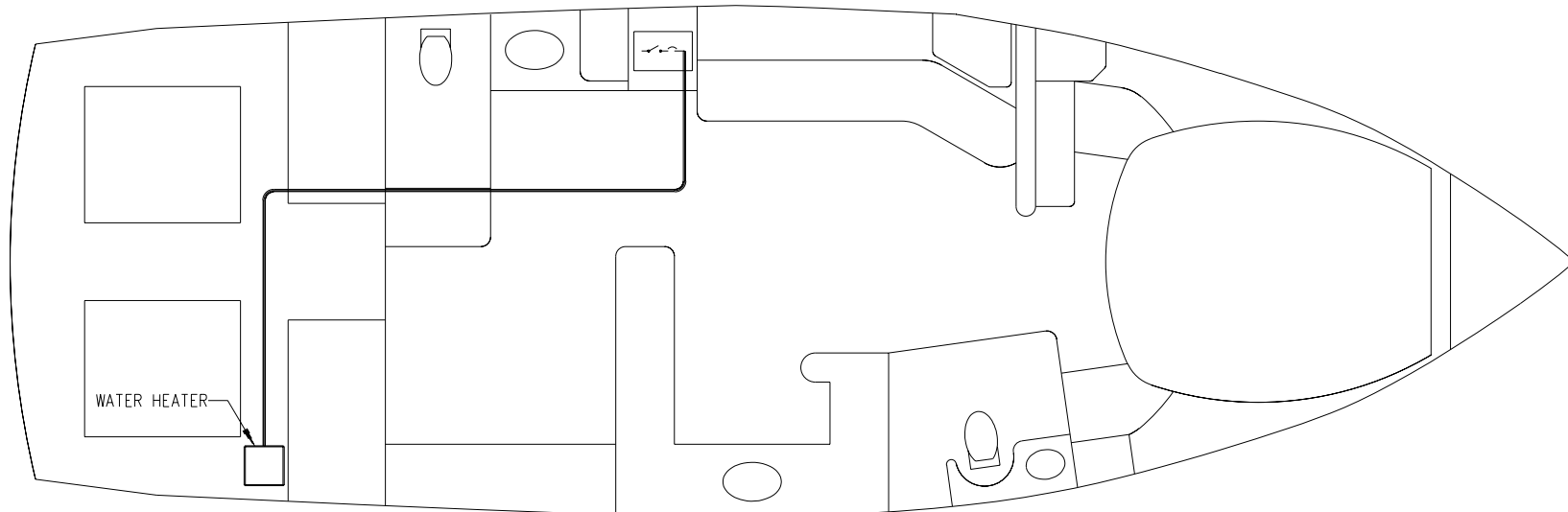


TO OPERATE:

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.

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



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: WATER HEATER

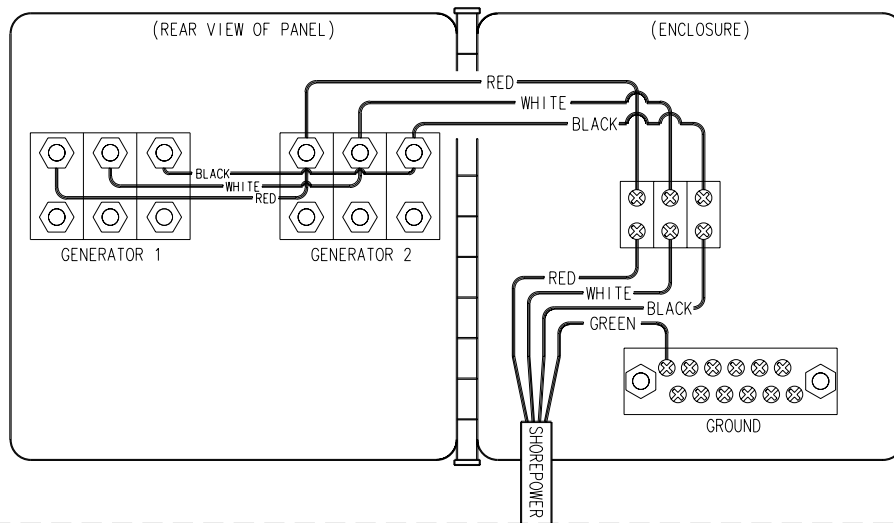
MOD.: 47Y

DR BY: JAW

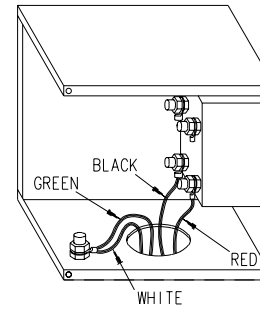
17

FIG. 1

AC/DC PANEL (W/ DOOR OPEN)



GENERATOR WIRING FROM AC/DC PANEL



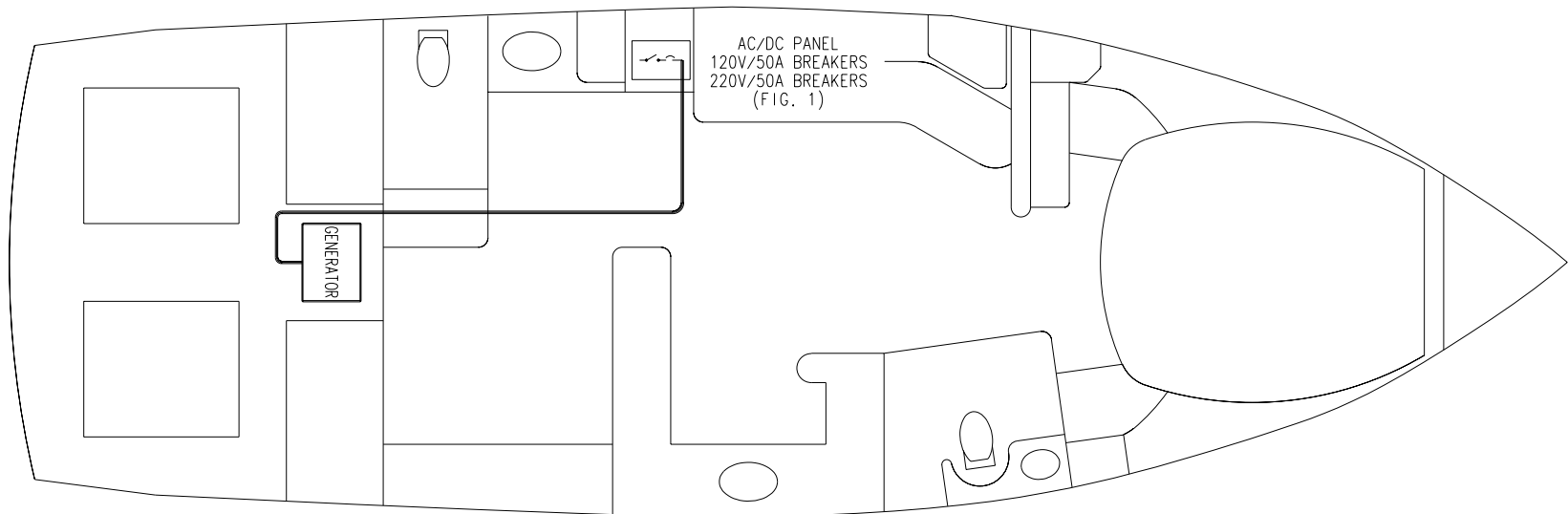
AFTER READING AND UNDERSTANDING THE GENERATOR OPERATOR'S MANUAL:

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.

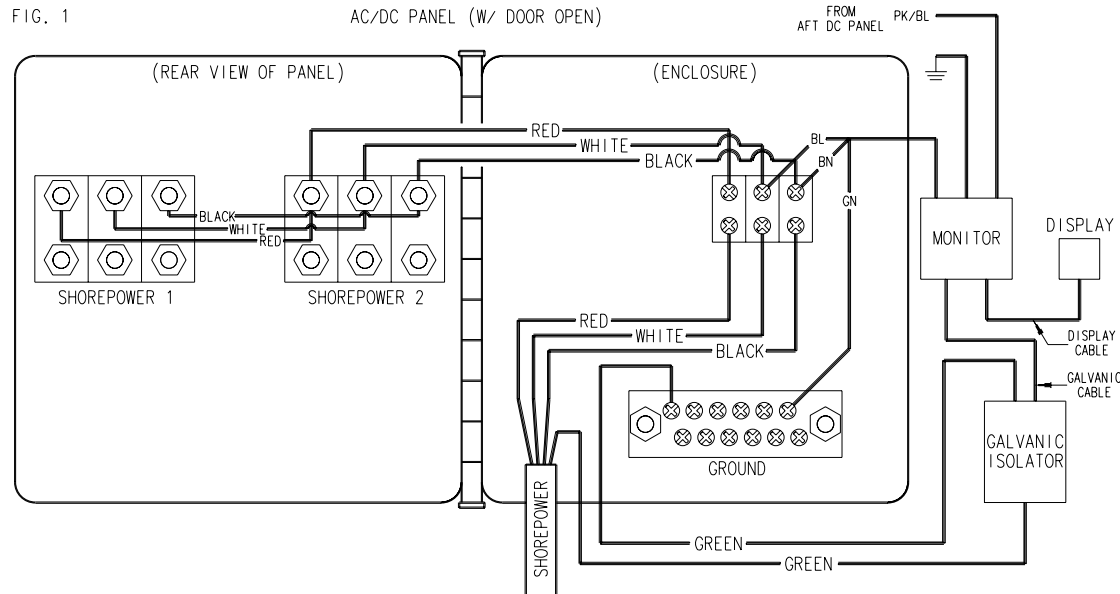


THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: GENERATOR	
MOD.: 47Y	18
DR BY: JAW	

FIG. 1

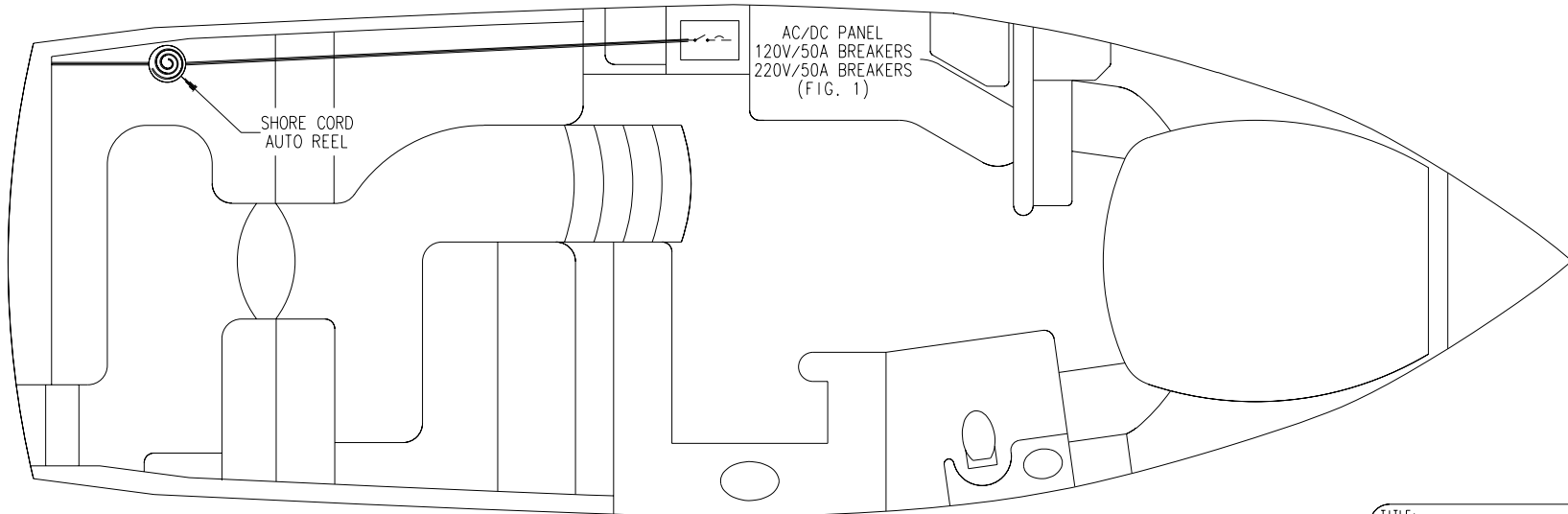
AC/DC PANEL (W/ DOOR OPEN)



\*(READ THIS COMPLETELY BEFORE OPERATING)

TO OPERATE:

- BEFORE PLUGGING INTO SHOREPOWER, SWITCH \*OFF\* ALL AC EQUIPMENT AND MAIN BEAKERS AT THE AC/DC PANEL, LOCATED IN THE CABIN.
- PLUG BOAT'S SHOREPOWER CORD INTO SHOREPOWER.
- IN CABIN, SWITCH SHOREPOWER BREAKERS TO \*ON\*.  
WARNING !  
IF REVERSED POLARITY LIGHT IS \*ILLUMINATED\*:  
-DO NOT TOUCH ELECTRICAL APPLIANCES  
-LEAVE SHIP IMMEDIATELY  
-DISCONNECT SHOREPOWER  
ALSO:  
-CONTACT MARINA TO HAVE SHOREPOWER TESTED FOR REVERSED POLARITY  
-CONTACT FORMULA'S TECHNICAL ASSISTANCE GROUP FOR ADDITIONAL ASSISTANCE.
- WHEN THE MAIN BREAKERS ARE \*ON\* AND NO REVERSE POLARITY LIGHT IS ILLUMINATED, ALL AC EQUIPMENT BREAKERS ARE NOW SUPPLIED WITH POWER.



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: SHOREPOWER

MOD.: 47Y

DR BY: JAW

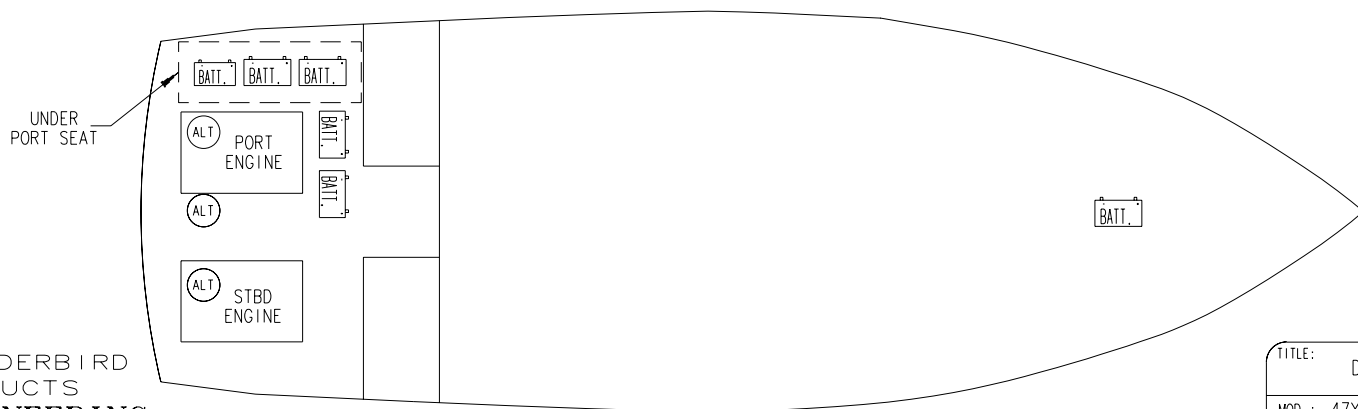
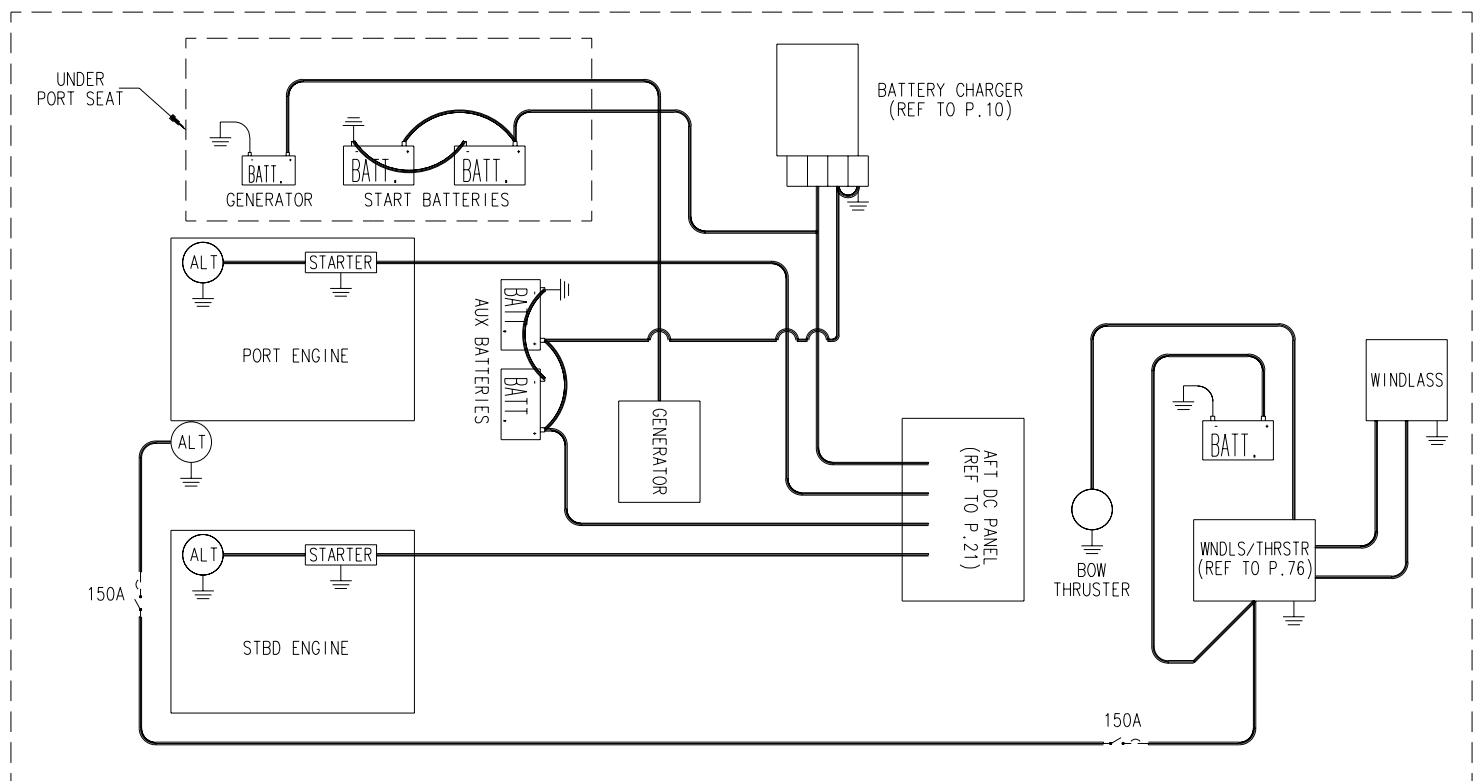
19

# LEGEND

GROUND 

BATTERY 

BREAKER 



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: DC SUPPLY

MOD.: 47Y  
DR BY: JAW

20

# LEGEND

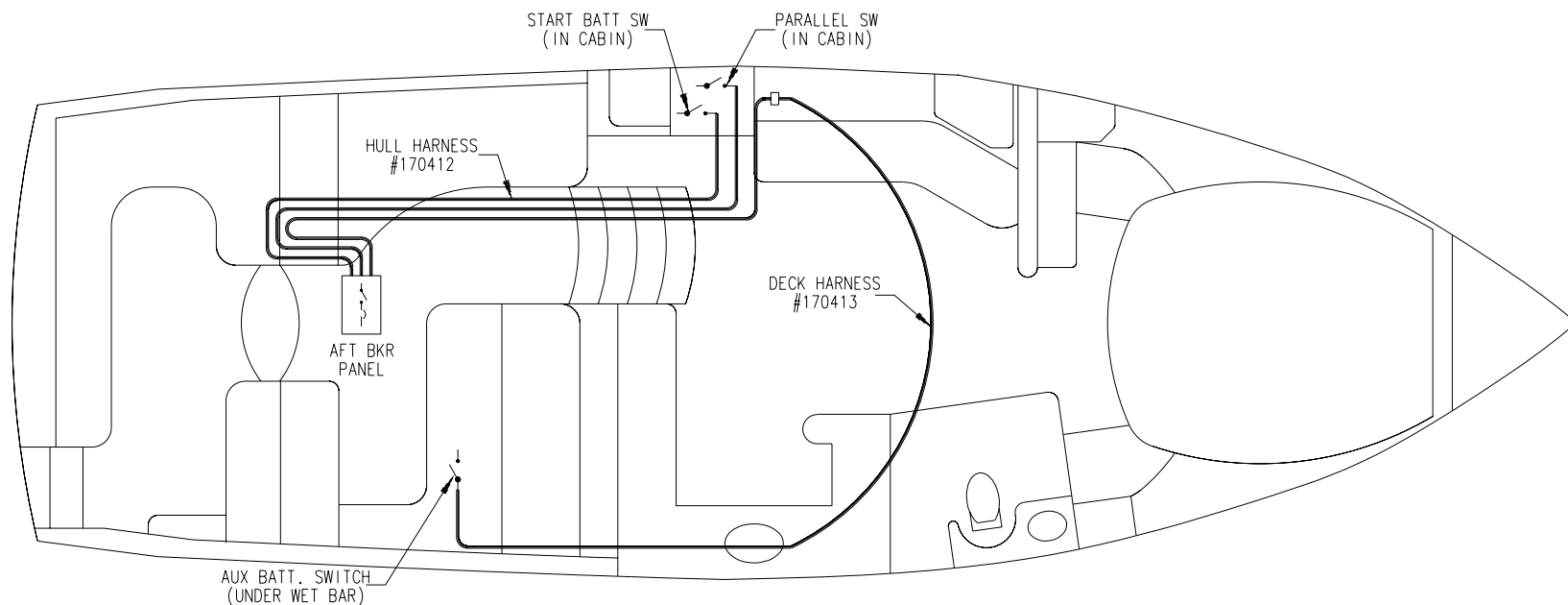
BATTERY 

SWITCH 

PLUGS 

NOTE:

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

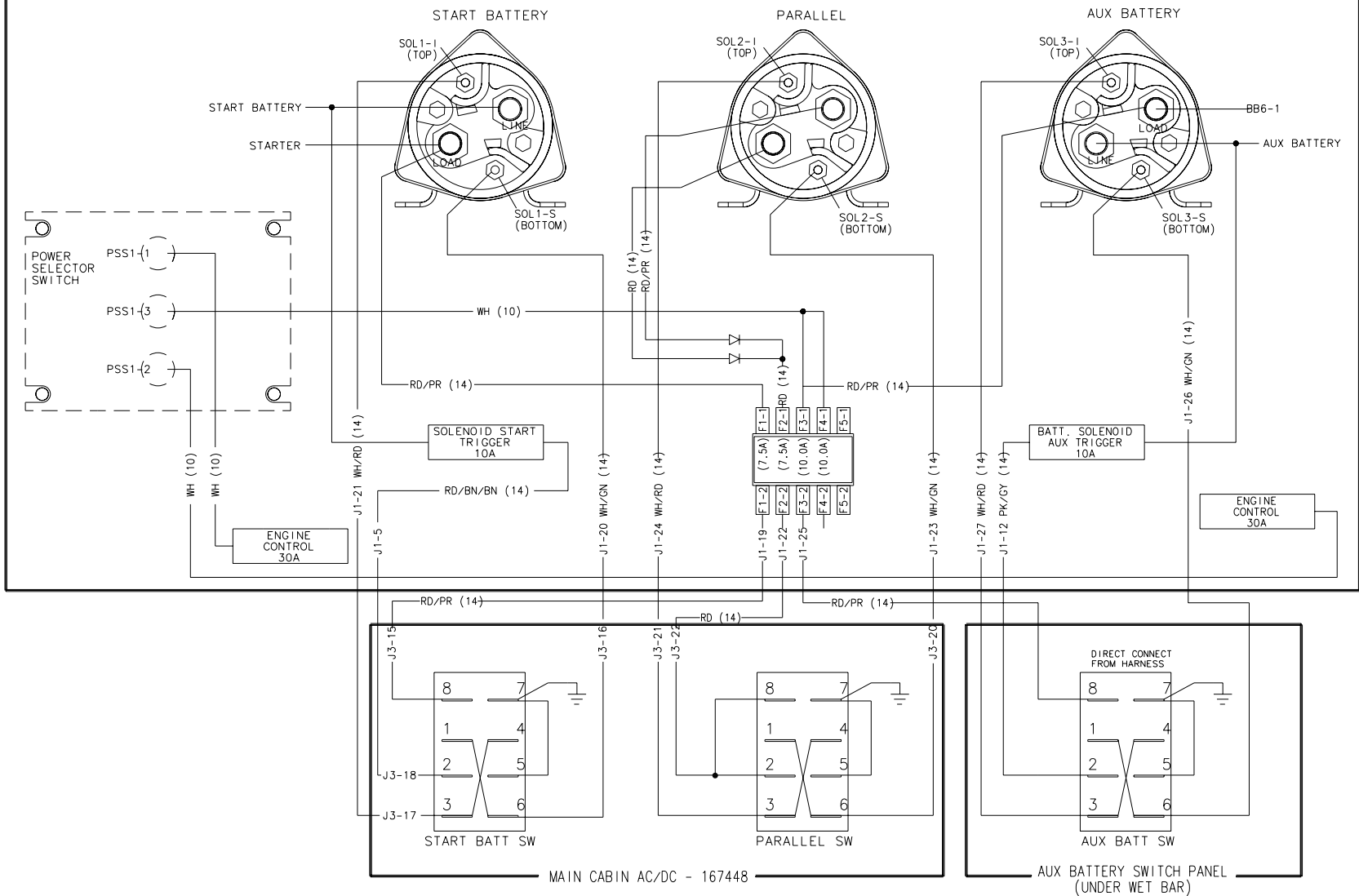


THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: 12V SUPPLY  
SWITCHES, LOCATION

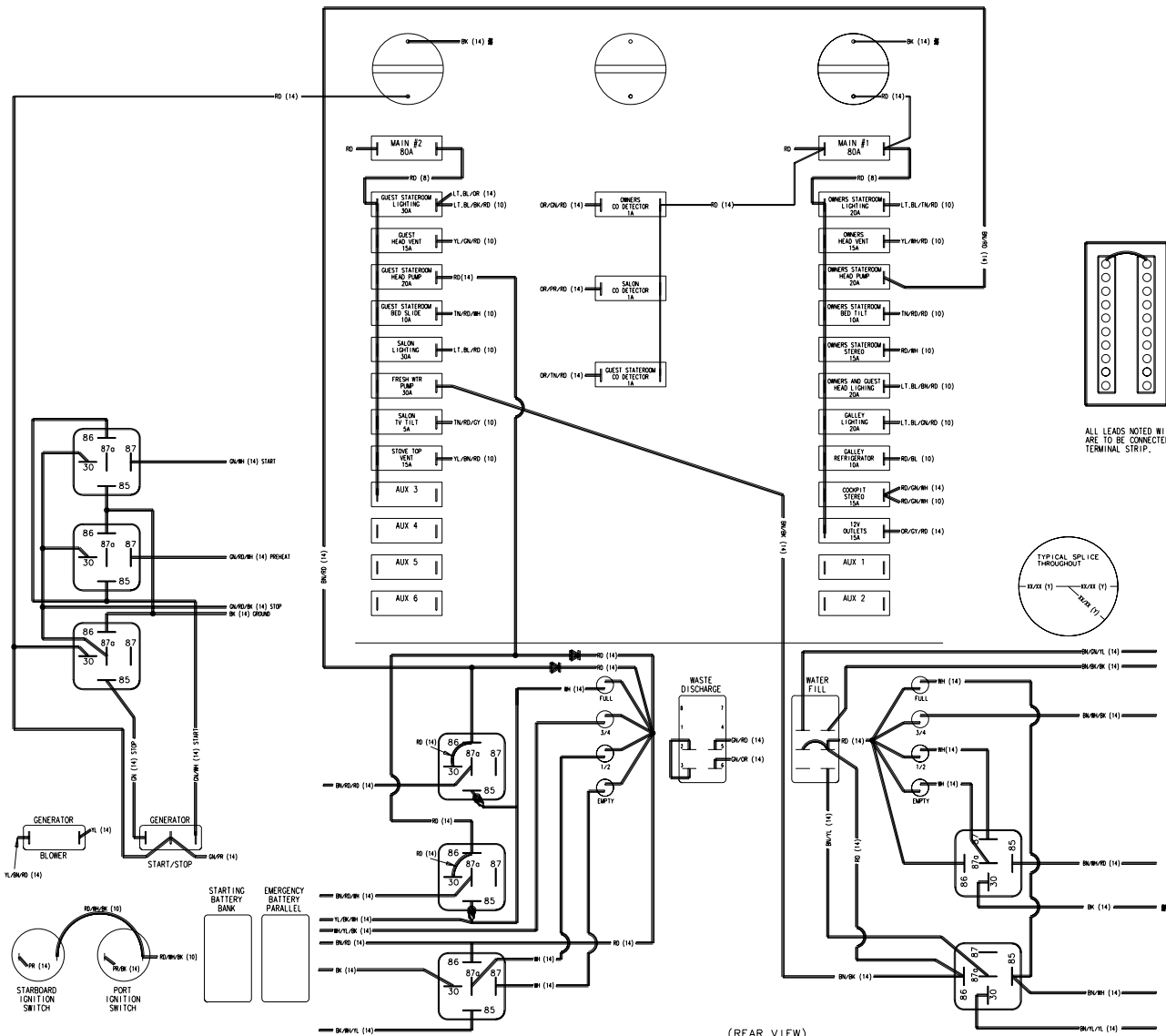
MOD.: 47Y  
DR BY: JAW

21





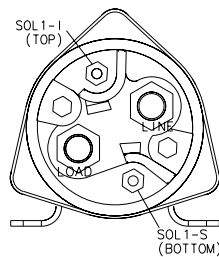
THUNDERBIRD  
PRODUCTS  
ENGINEERING



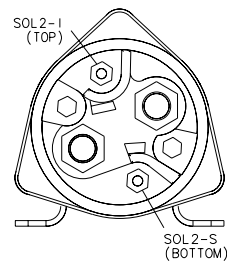
TITLE: 12V AC/DC  
PANEL SCHEMATIC  
MOD.: 47Y  
DR BY: JAW

23

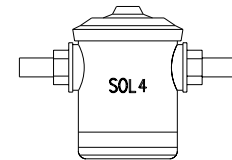
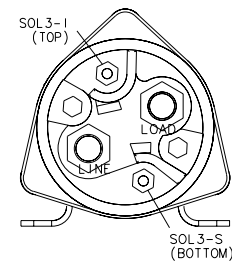
START BATTERY



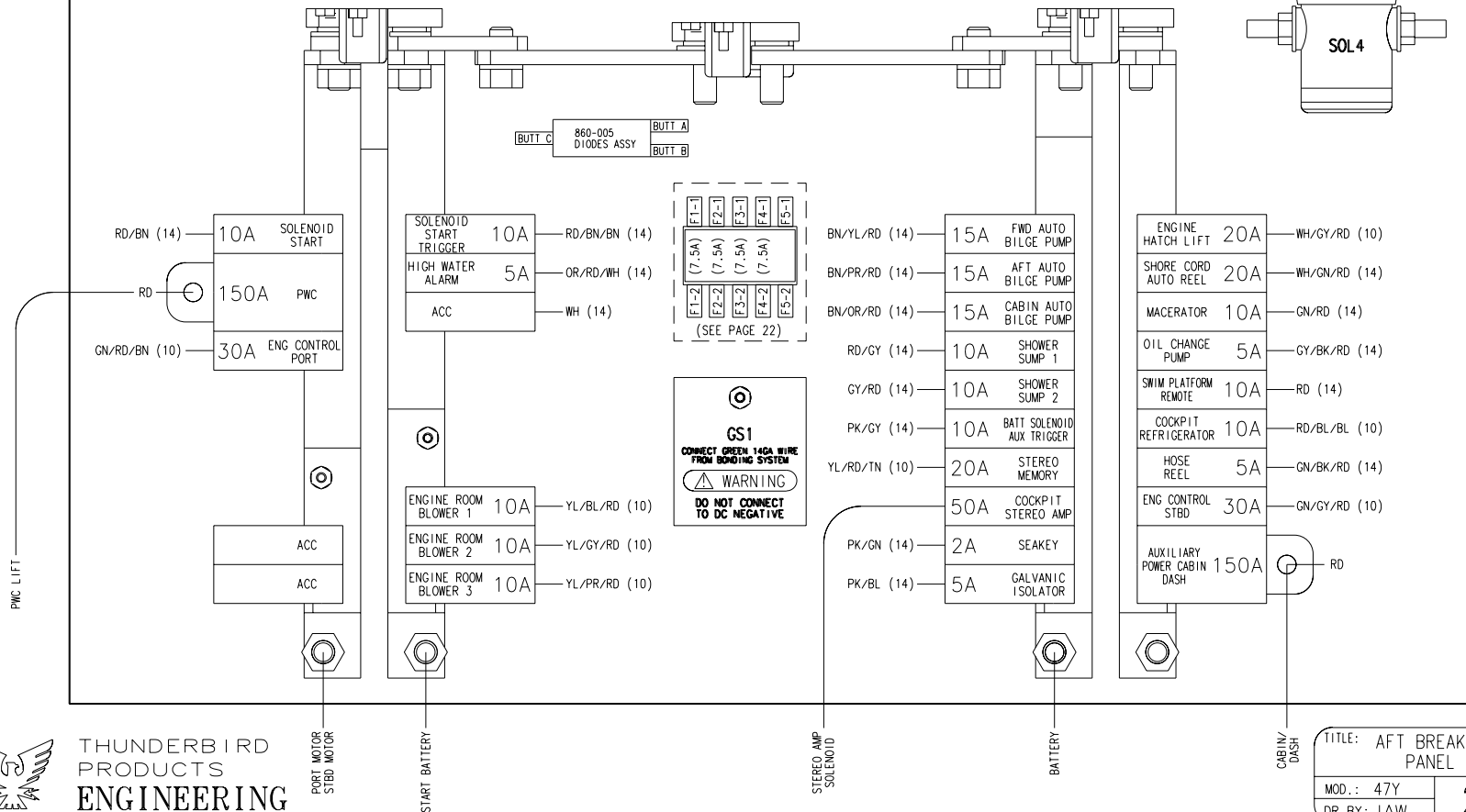
PARALLEL



AUX BATTERY







BUTT C 860-005 DIODES ASSY BUTT A BUTT B



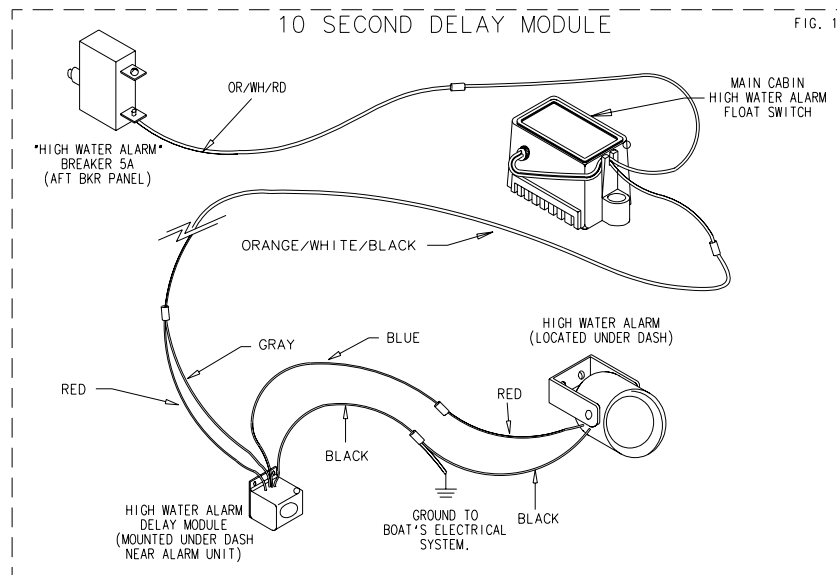


# LEGEND

GROUND	
ALARM	
FLOAT SWITCH	
PLUGS	

## 10 SECOND DELAY MODULE

FIG. 1



### TO OPERATE:

1. THE "CONST POWER" BREAKER MUST BE PUSHED IN (CLOSED).
2. AT THE AFT BKR PANEL, SWITCH THE "HIGH WATER ALARM" BREAKER TO "ON".

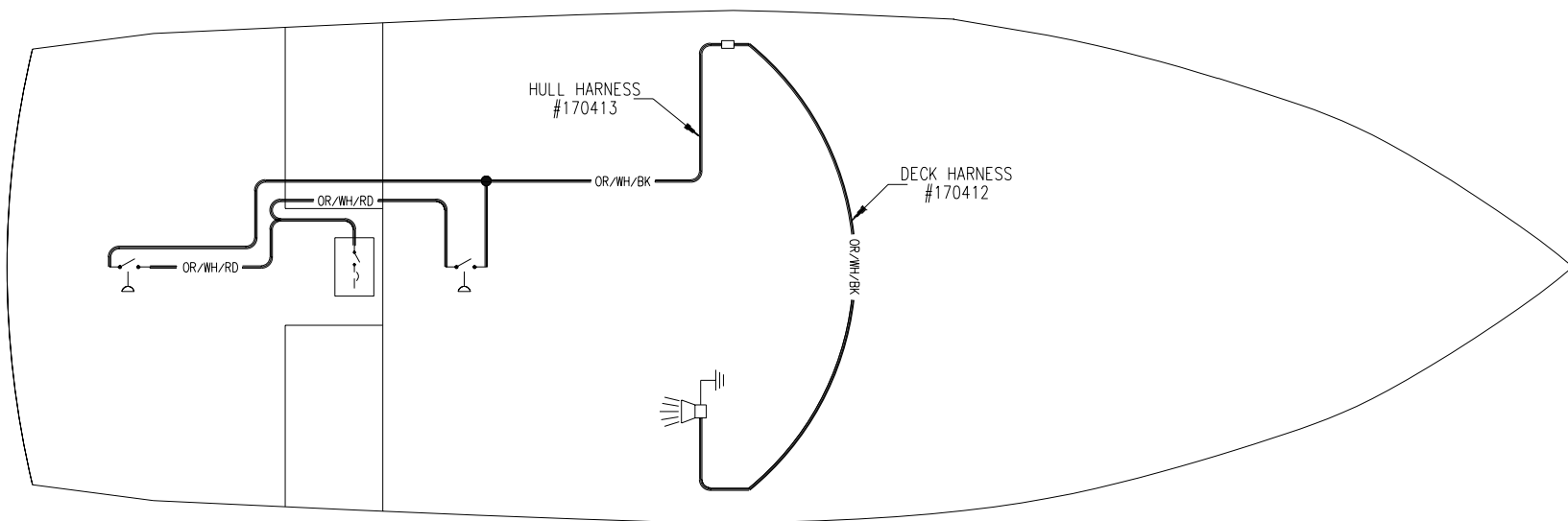
### NOTE:

THE BATTERY SELECTOR 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.



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: HIGH WATER  
ALARM

MOD.: 47Y  
OR BY: JAW

25

# LEGEND

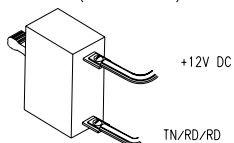
GROUND 

BREAKER 

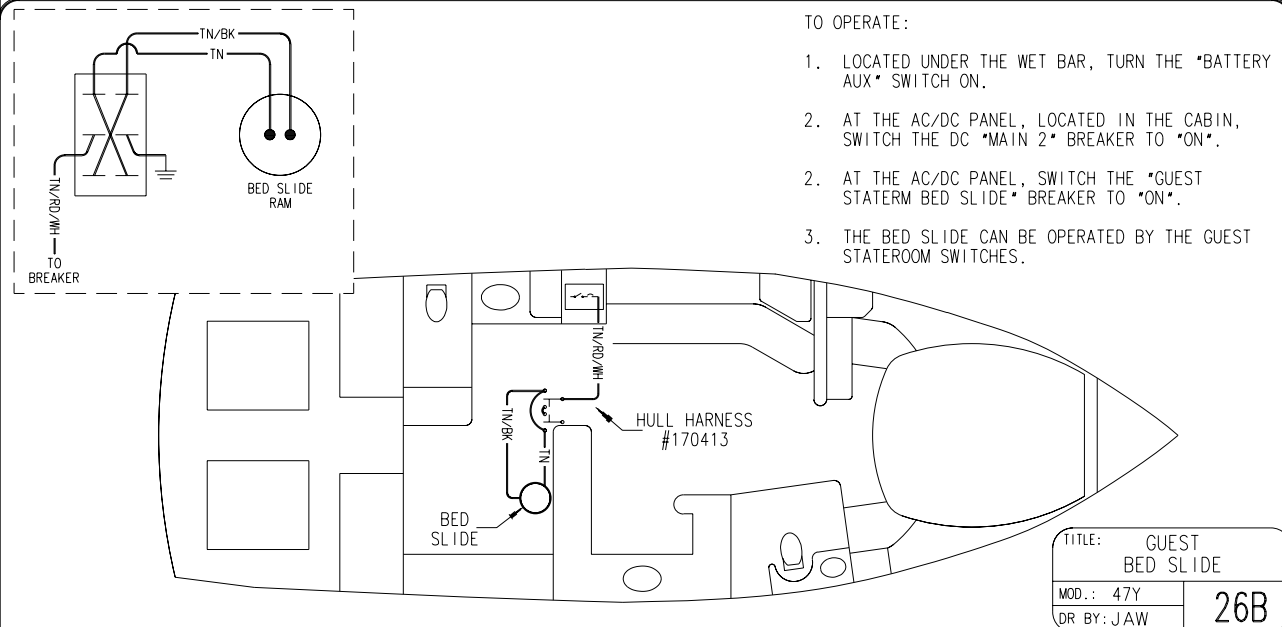
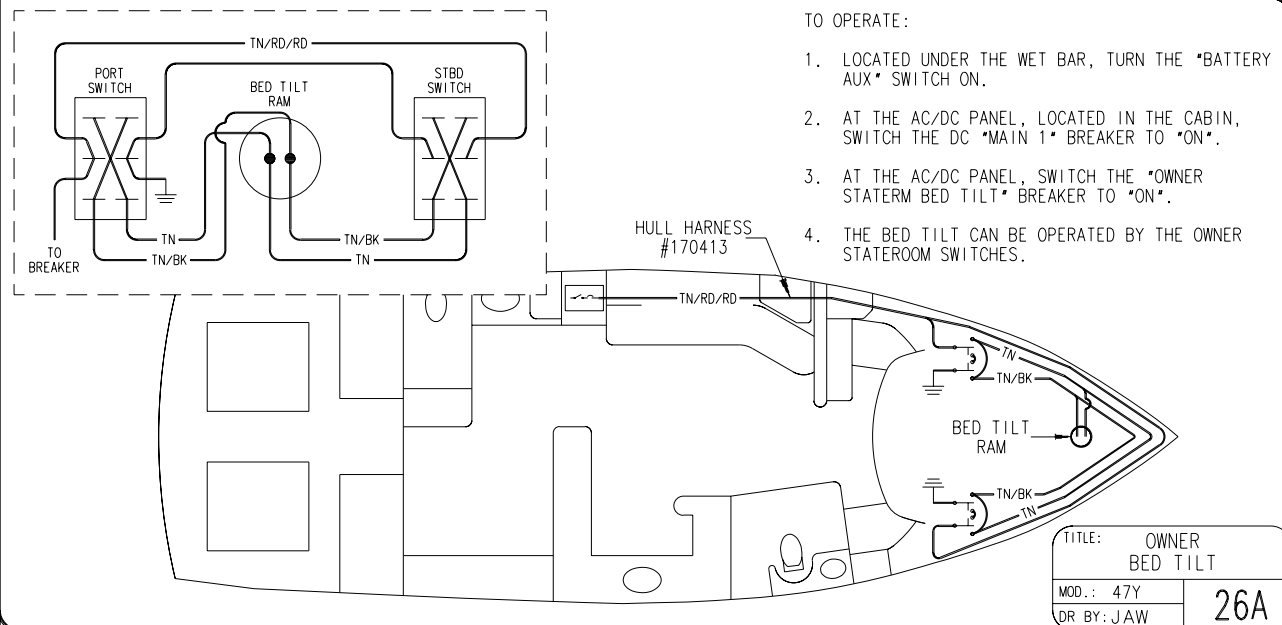
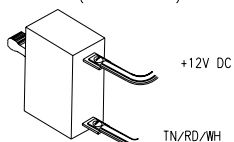
SWITCH 

DPDT SWITCH 

OWNER STATERM BED TILT  
BKR 10A  
(AC/DC BKR PANEL)  
(REAR VIEW)









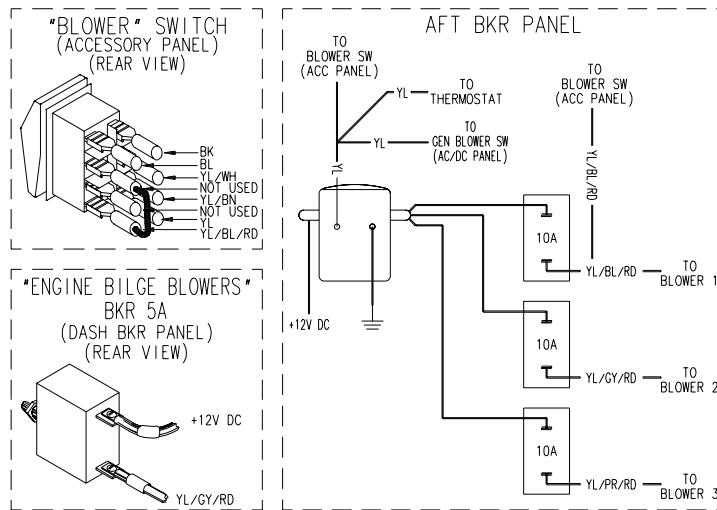
GUEST STATERM BED SLIDE  
BKR 10A  
(AC/DC BKR PANEL)  
(REAR VIEW)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

## LEGEND

GROUND	
BLOWER	
DPDT SWITCH	
PLUGS	
BREAKER	
BREAKER PANEL	

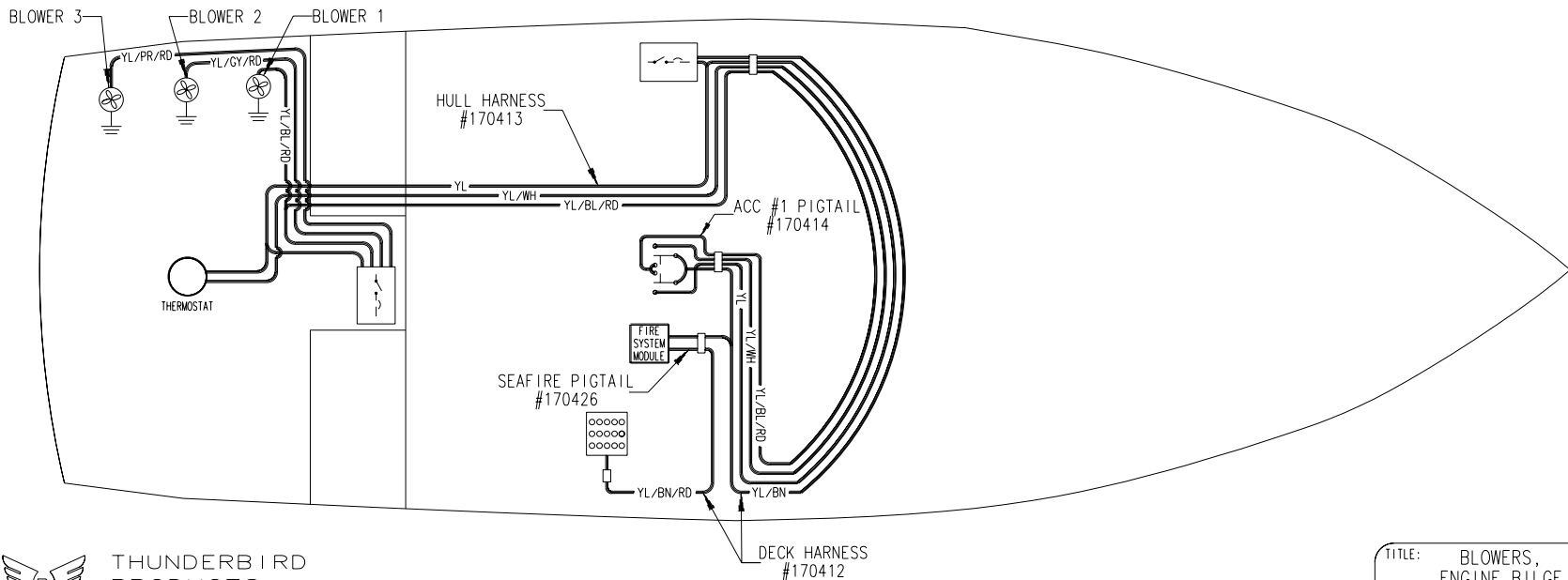


WARNING!

GASOLINE VAPORS CAN EXPLODE.  
BEFORE STARTING ENGINE:  
-CHECK ENGINE BILGE FOR GASOLINE VAPORS.  
-OPERATE BLOWERS FOR FOUR (4) MINUTES,  
RUN BLOWERS BELOW CRUISING SPEED.

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.: 47Y  
DR BY: JAW

27

# LEGEND

GROUND



BLOWER



BREAKER



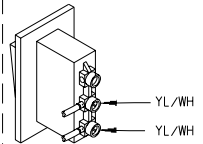
PLUGS



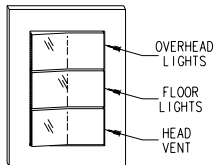
SWITCH



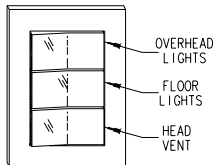
OWNER HEAD BLOWER  
SWITCH  
(REAR VIEW)



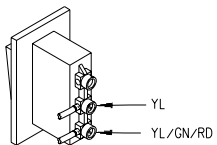
OWNER HEAD  
LIGHT SWITCHES



GUEST HEAD  
LIGHT SWITCHES



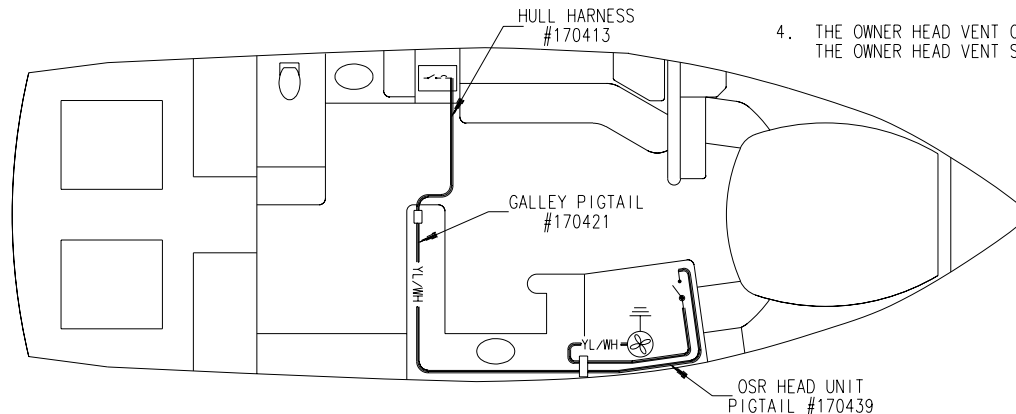
GUEST HEAD BLOWER  
SWITCH  
(REAR VIEW)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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

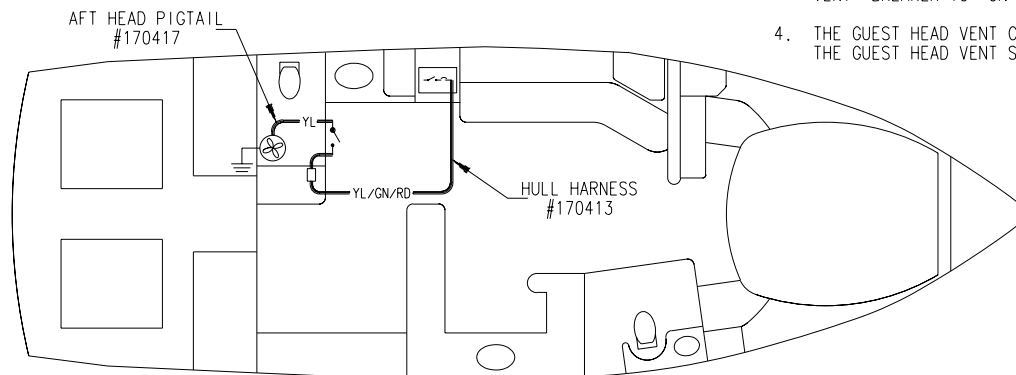
MOD.: 47Y

DR BY: JAW

28A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.: 47Y

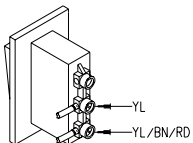
DR BY: JAW

28B

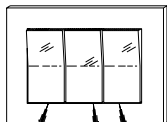
# LEGEND

GROUND	
BLOWER	
BREAKER	
PLUGS	
SWITCH	
BREAKER PANEL	
12V OUTLET	

STOVE TOP VENT  
SWITCH  
(REAR VIEW)

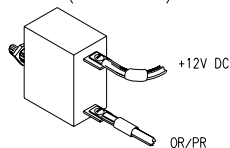


## GALLEY SWITCHES

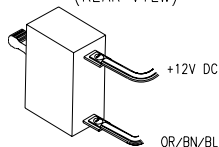


GALLEY MOOD LIGHTS  
STOVE TOP VENT  
UNDER CABINET LIGHTS

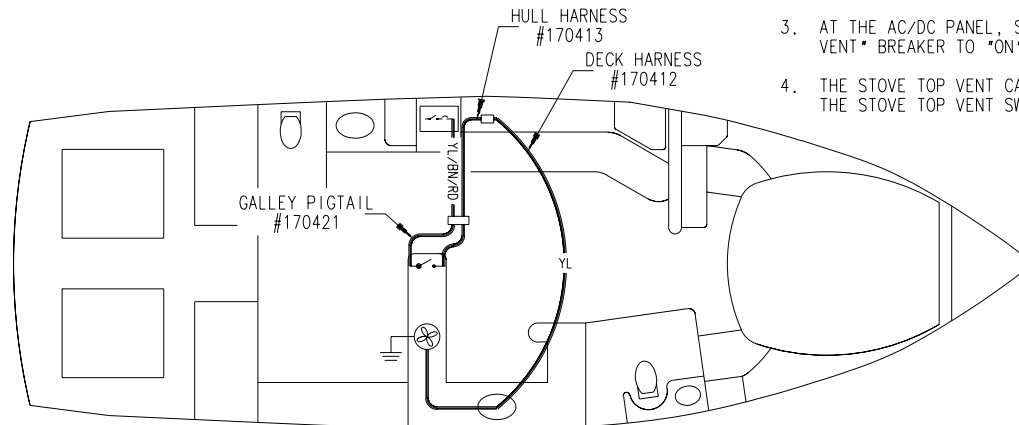
\*12 VOLT OUTLET\* BKR 15A  
(DASH BKR PANEL)  
(REAR VIEW)



\*12 VOLT OUTLETS\* BKR 15A  
(CABIN AC/DC PANEL)  
(REAR VIEW)



THUNDERBIRD  
PRODUCTS  
ENGINEERING



TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE \*BATTERY AUX\* 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 \*STOVE TOP VENT\* BREAKER TO \*ON\*.
4. THE STOVE TOP VENT CAN NOW BE OPERATED BY THE STOVE TOP VENT SWITCH.

TITLE: BLOWER,  
STOVE TOP

MOD.: 47Y

DR BY: JAW

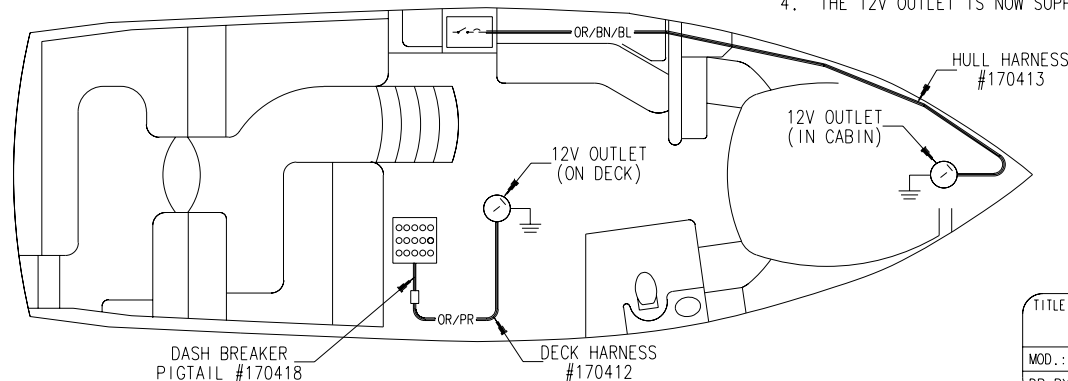
29A

TO OPERATE (DECK 12V OUTLET):

1. LOCATED UNDER THE WET BAR, TURN THE \*BATTERY AUX\* 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.

TO OPERATE (CABIN 12V OUTLET):

1. LOCATED UNDER THE WET BAR, TURN THE \*BATTERY AUX\* 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 \*12V OUTLETS\* BREAKER TO \*ON\*.
4. THE 12V OUTLET IS NOW SUPPLIED WITH POWER.



TITLE: 12V OUTLETS

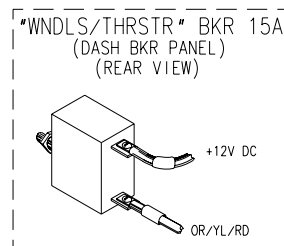
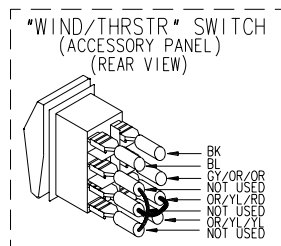
MOD.: 47Y

DR BY: JAW

29B

## LEGEND

PLUGS	
BREAKER PANEL	
GROUND	
SWITCH	
SOLENOID	



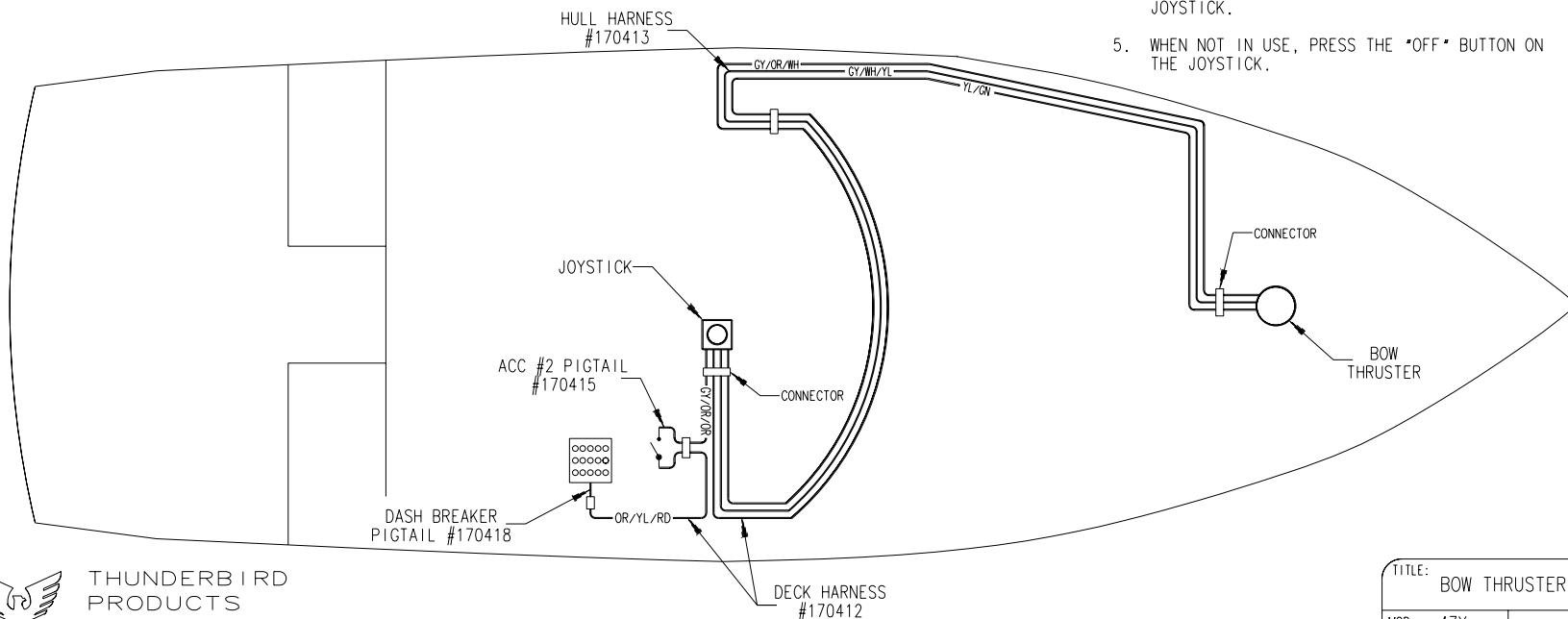
## WARNING!

### 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 "BATTERY AUX" 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.



THUNDERBIRD  
PRODUCTS  
ENGINEERING

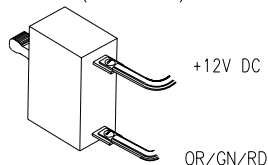
TITLE: BOW THRUSTER	
MOD.: 47Y	30
DR BY: JAW	

# LEGEND

GROUND	
PLUGS	
BREAKER PANEL	
BREAKER	

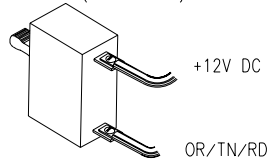
## "OWNER STATERM CO DETECTOR"

BKR 1A  
(CABIN AC/DC PANEL)  
(REAR VIEW)



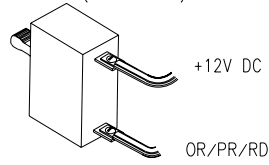
## "GUEST STATERM CO DETECTOR"

BKR 1A  
(CABIN AC/DC PANEL)  
(REAR VIEW)



## "SALON CO DETECTOR"

BKR 1A  
(CABIN AC/DC PANEL)  
(REAR VIEW)

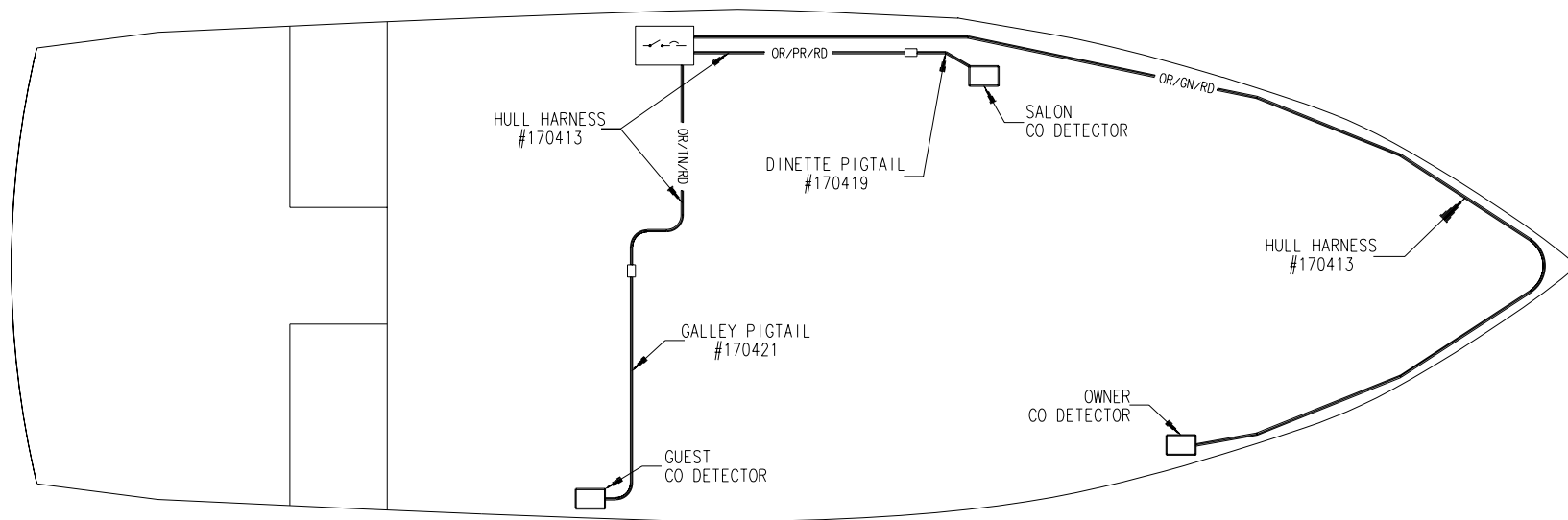


## TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE "OWNERS STATERM CO DETECTOR", "SALON CO DETECTOR", AND "GUEST STATERM CO DETECTOR" BREAKERS 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.



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: CO DETECTORS

MOD.: 47Y  
OR BY: JAW


31

# LEGEND

GROUND 

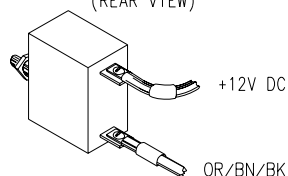
PLUGS 

BREAKER PANEL 

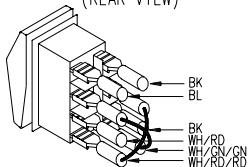
SWITCH 

BREAKER 

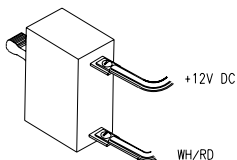
"DEPTH SOUNDER" BKR 5A  
(DASH BKR PANEL)  
(REAR VIEW)



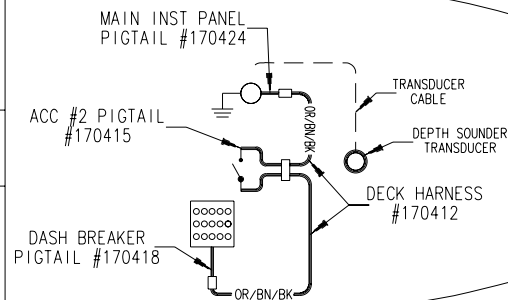
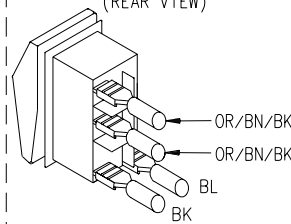
"ENG HATCH" SWITCH  
(AFT BKR PANEL)  
(REAR VIEW)



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



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



TO OPERATE:

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

TITLE: DEPTH  
SOUNDER

MOD.: 47Y

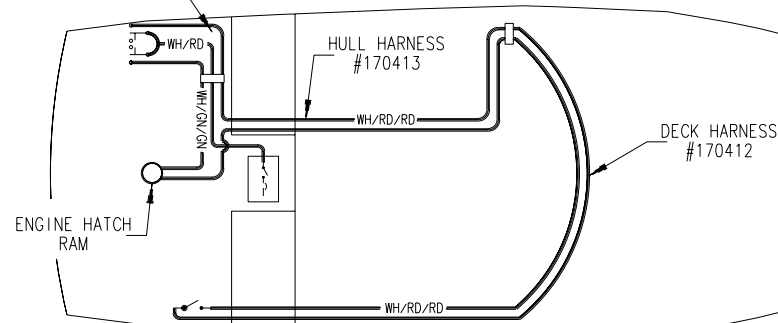
DR BY: JAW

32A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.

ENGINE HATCH  
PIGTAIL #170420



TITLE: ENGINE  
HATCH

MOD.: 47Y

DR BY: JAW

32B

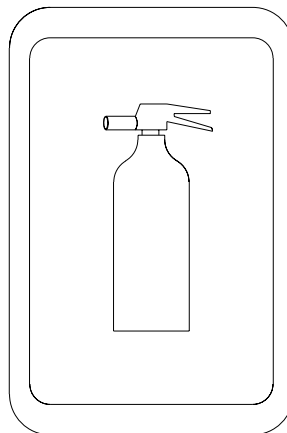


# LEGEND

PLUGS □ □

GROUND ⏏

FIRE EXTINGUISHER 🔑



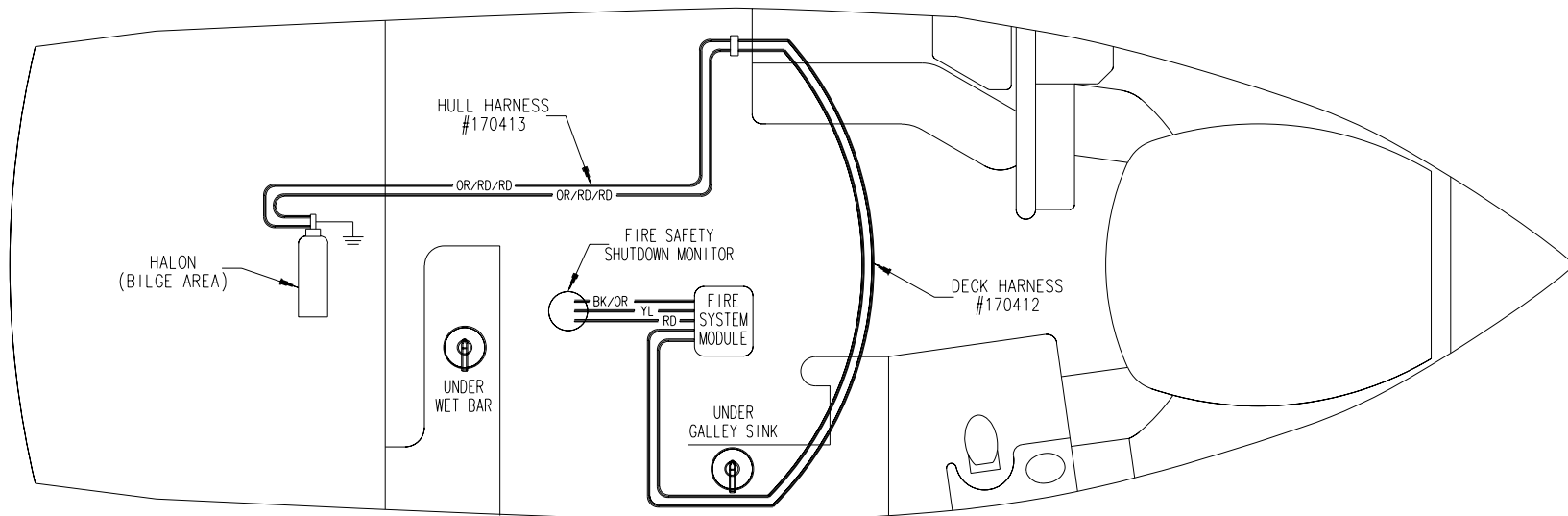
LABEL REPRESENTS THE PRESENCE OF A DRY CHEMICAL EXTINGUISHER WITHIN

## 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).

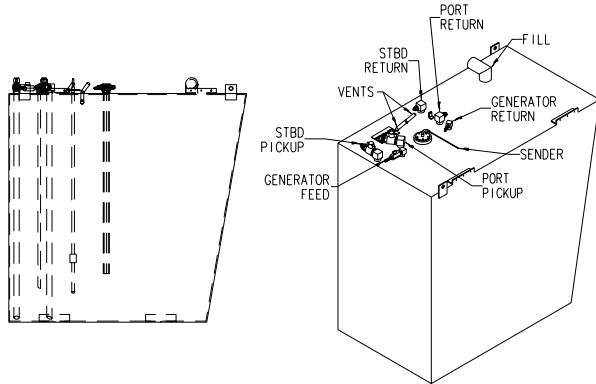
SYSTEM STATUS	DISPLAY UNIT INDICATOR LIGHT STATUS		
	AUDIBLE SOUND	GREEN LED	RED LED
NORMAL POWER *ON*	OFF	ON	OFF
ALARM (DISCHARGE)	ON	OFF	ON
OVERRIDE MODE	OFF	OFF	OFF



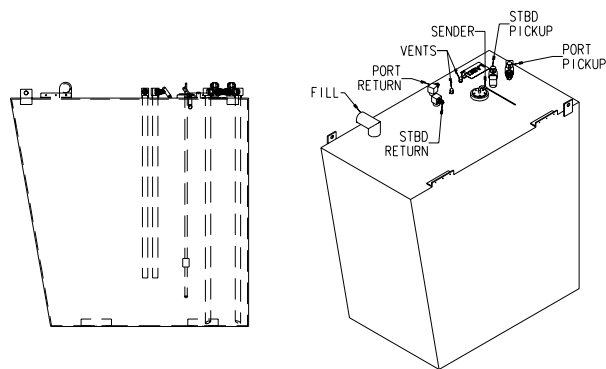
THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: FIRE SYSTEM	
MOD.: 47Y	33
DR BY: JAW	

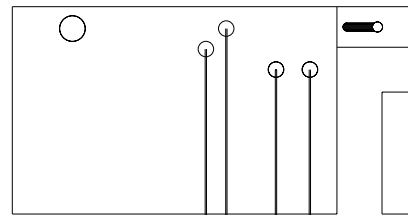
## PORT FUEL TANK



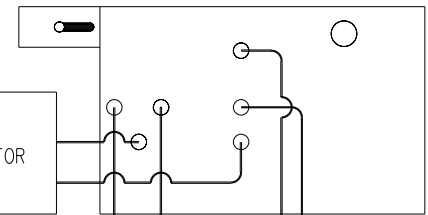
## STBD FUEL TANK



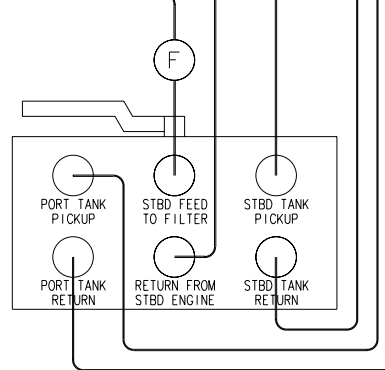
## STBD FUEL TANK (TOP VIEW)



## PORT FUEL TANK (TOP VIEW)

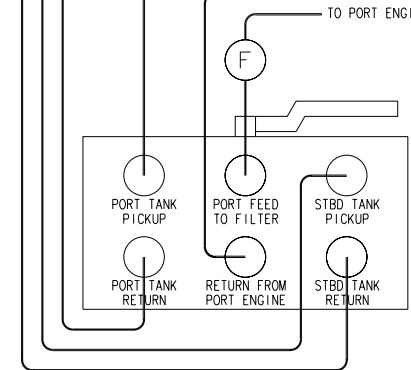


FROM STBD ENGINE  
TO STBD ENGINE



STBD VALVE  
(BACK VIEW)

FROM PORT ENGINE  
TO PORT ENGINE



PORT VALVE  
(BACK VIEW)






THUNDERBIRD  
PRODUCTS  
ENGINEERING

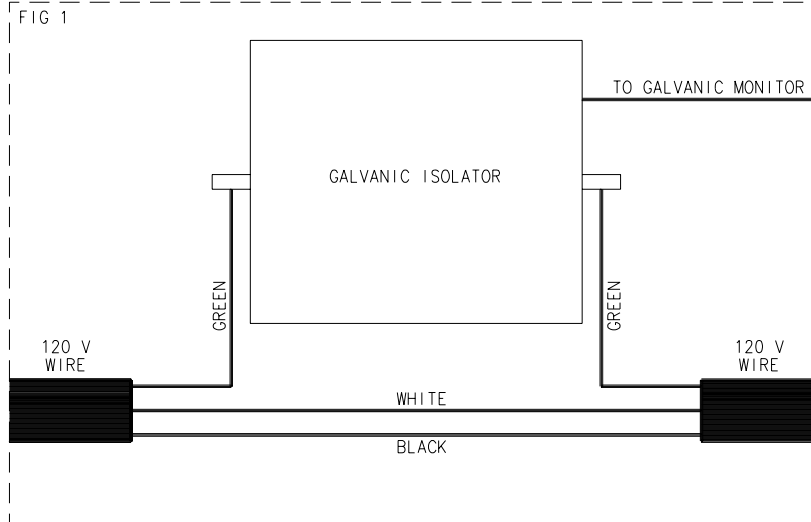
TITLE: FUEL  
SYSTEM

MOD.: 47Y  
DR BY: JAW

34

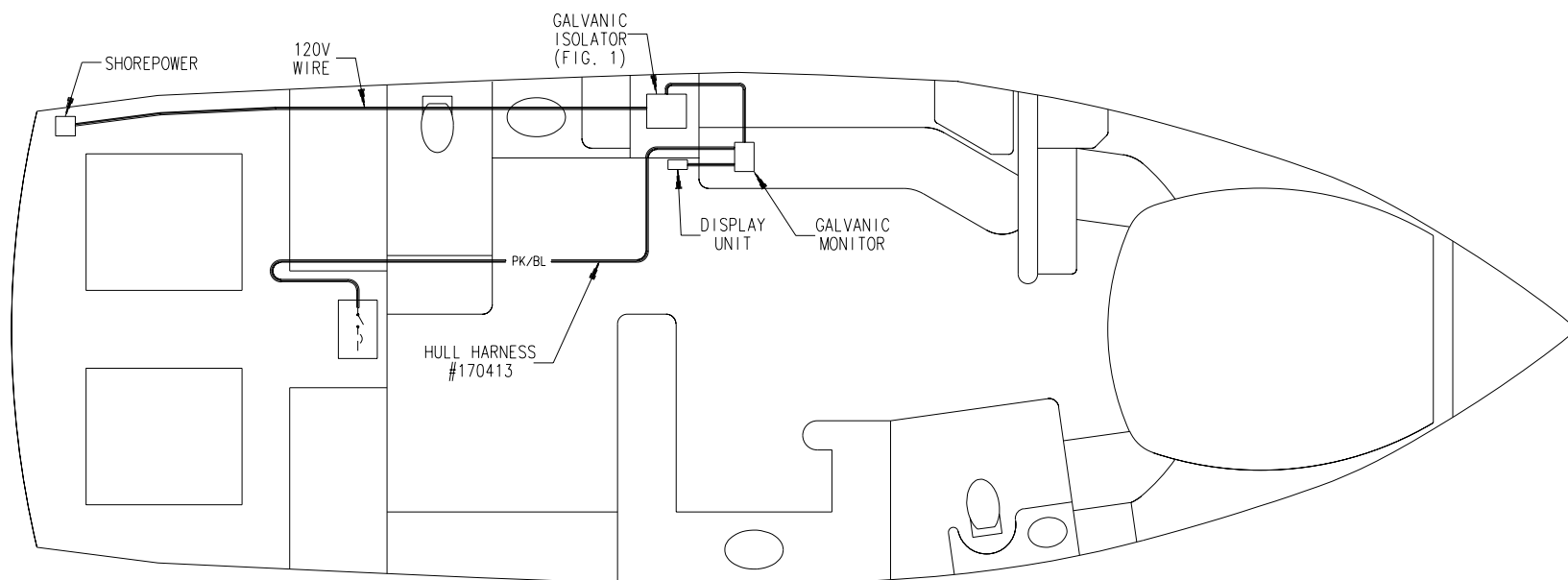
# LEGEND

PLUGS	
BREAKER	
GROUND	



NOTE:

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



THUNDERBIRD  
PRODUCTS  
ENGINEERING


TITLE:	GALVANIC ISOLATOR
MOD.:	47Y
DR BY:	JAW


# LEGEND

GROUND 

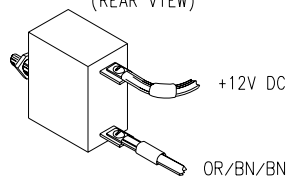
PLUGS 

BREAKER PANEL 

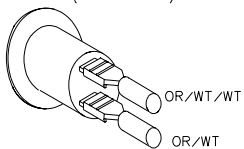
SWITCH 

COMPRESSOR 

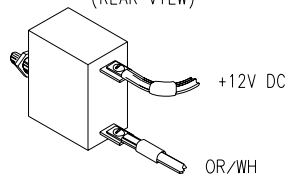
"GPS" BKR 5A  
(DASH BKR PANEL)  
(REAR VIEW)



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



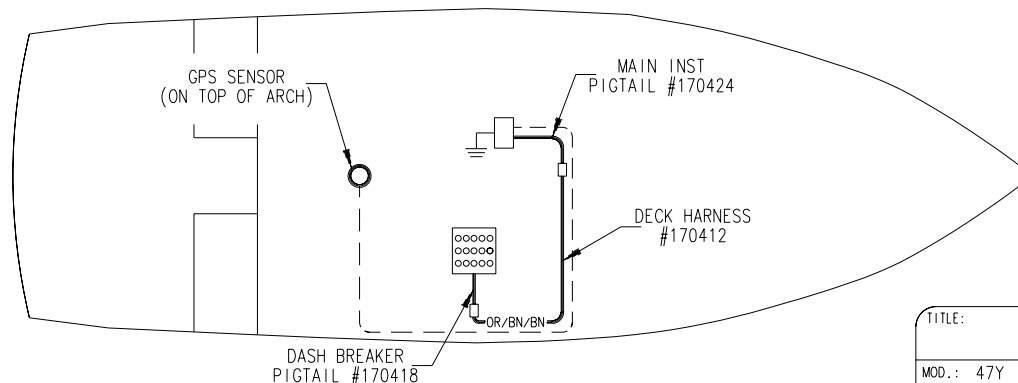
"HORN" BKR 20A  
(DASH BKR PANEL)  
(REAR VIEW)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.: 47Y

DR BY: JAW

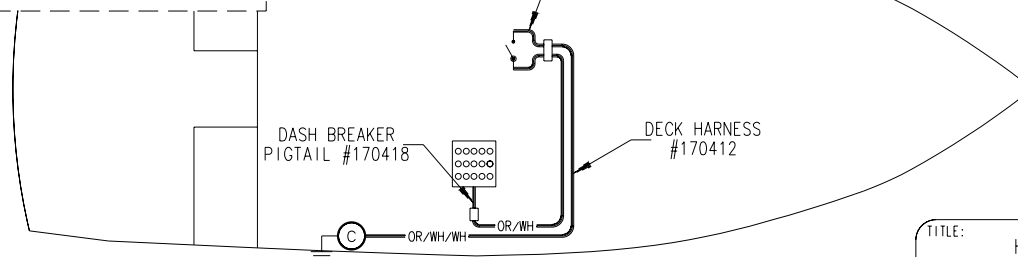
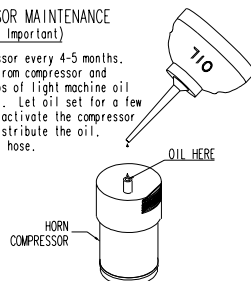
36A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.

## 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.



TITLE: HORN

MOD.: 47Y

DR BY: JAW

36B

# LEGEND

GROUND



BREAKER

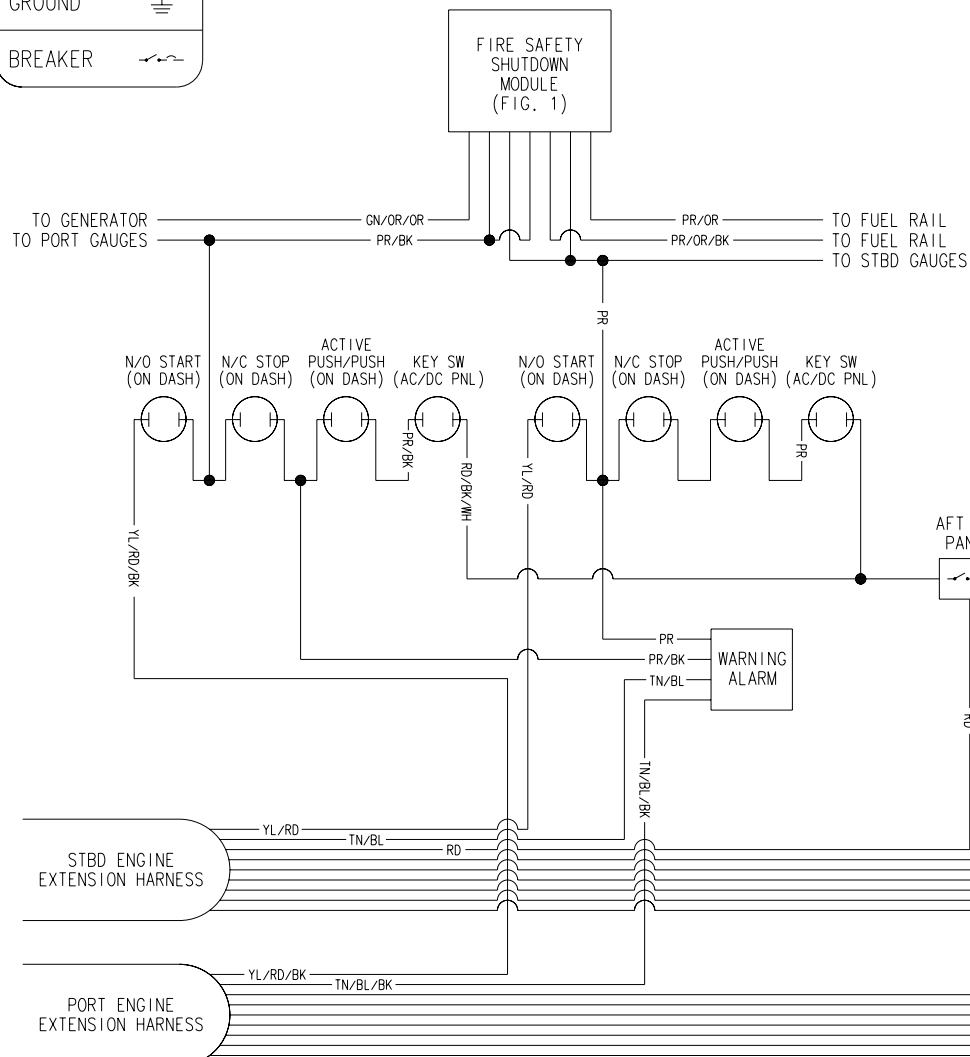
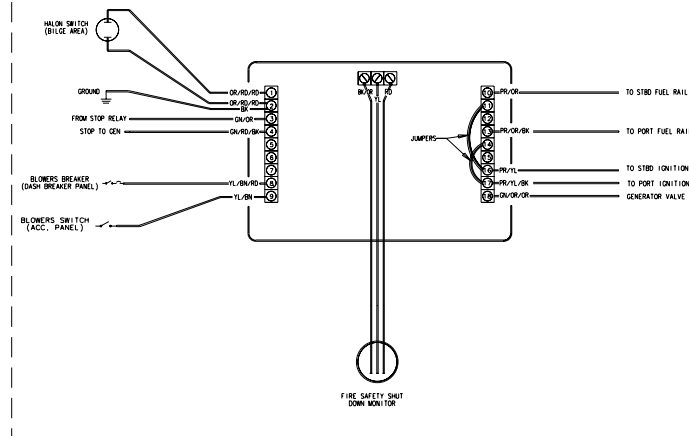
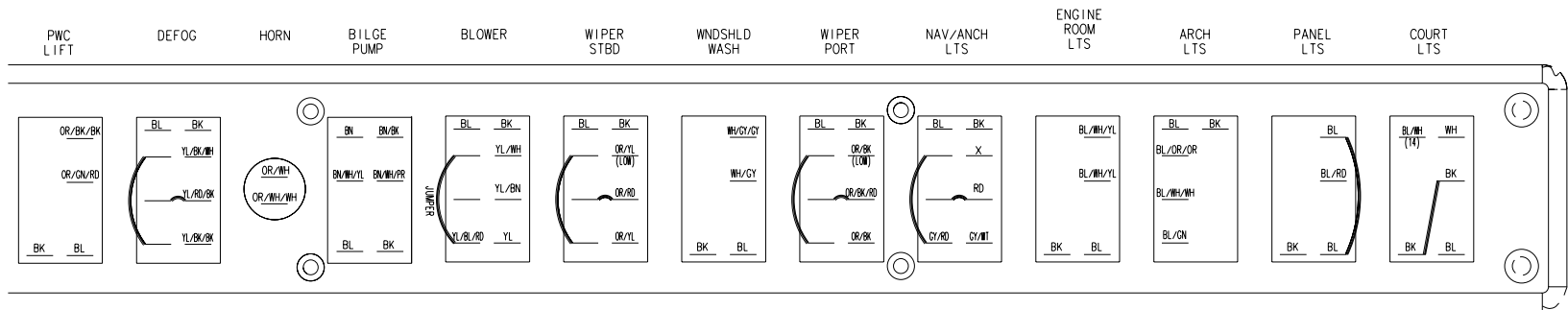


FIG. 1 FIRE SAFETY SHUTDOWN MODULE

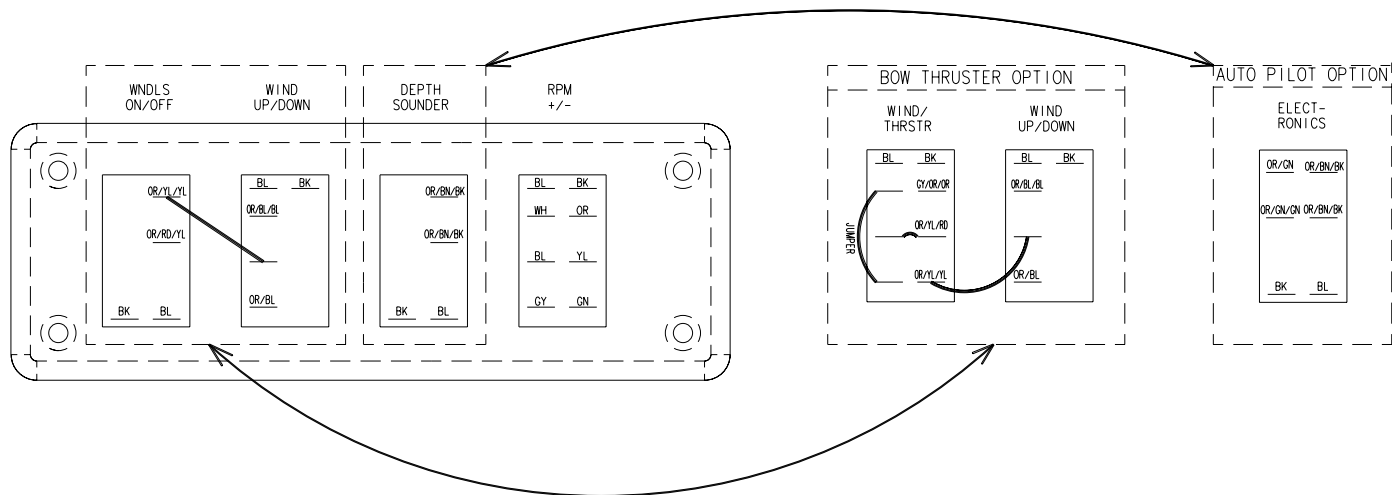




### ACCESSORY PANEL #1

PANEL #169584

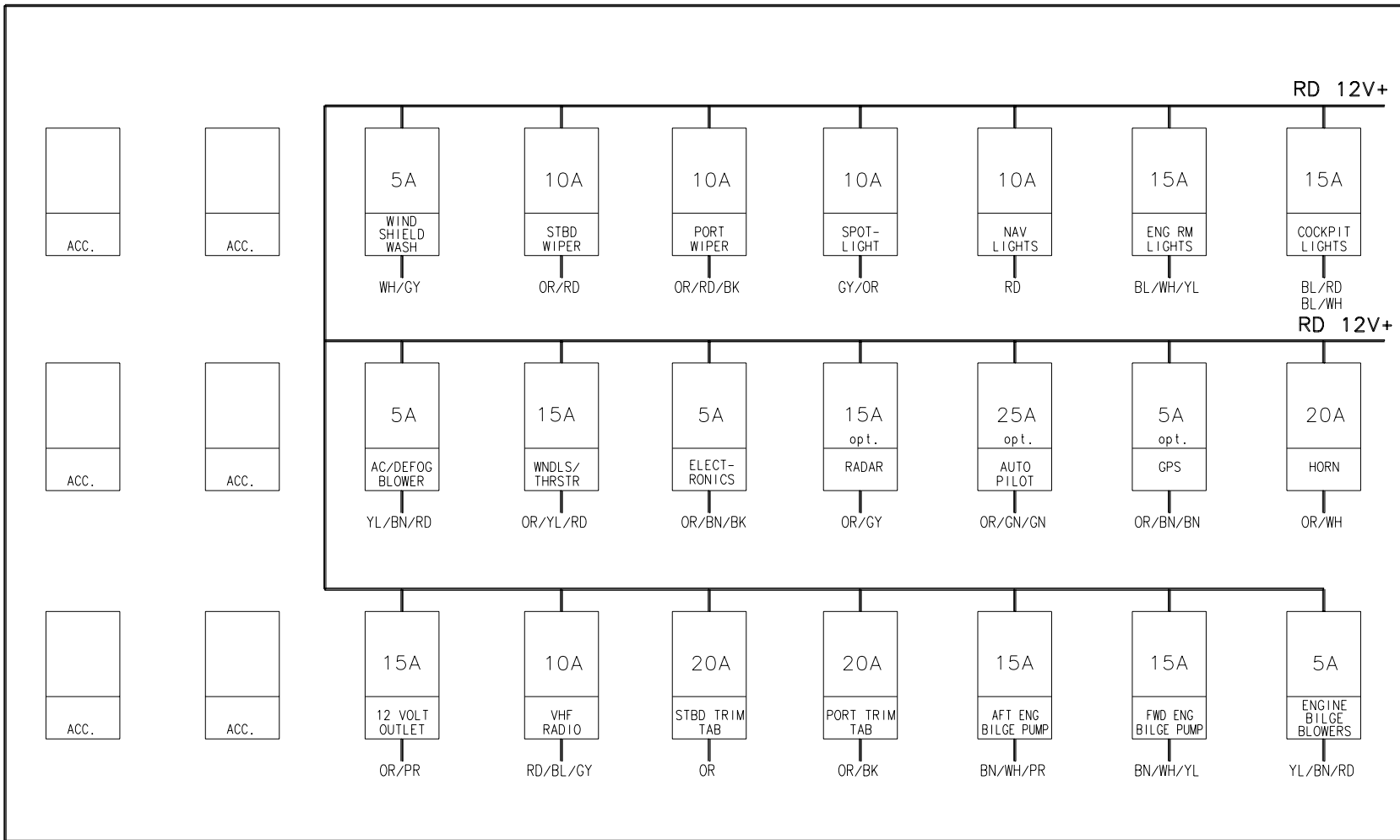
PIGTAIL #170414



### ACCESSORY PANEL #2

PANEL #169585

PIGTAIL #170415



(rear view)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

PANEL #169643

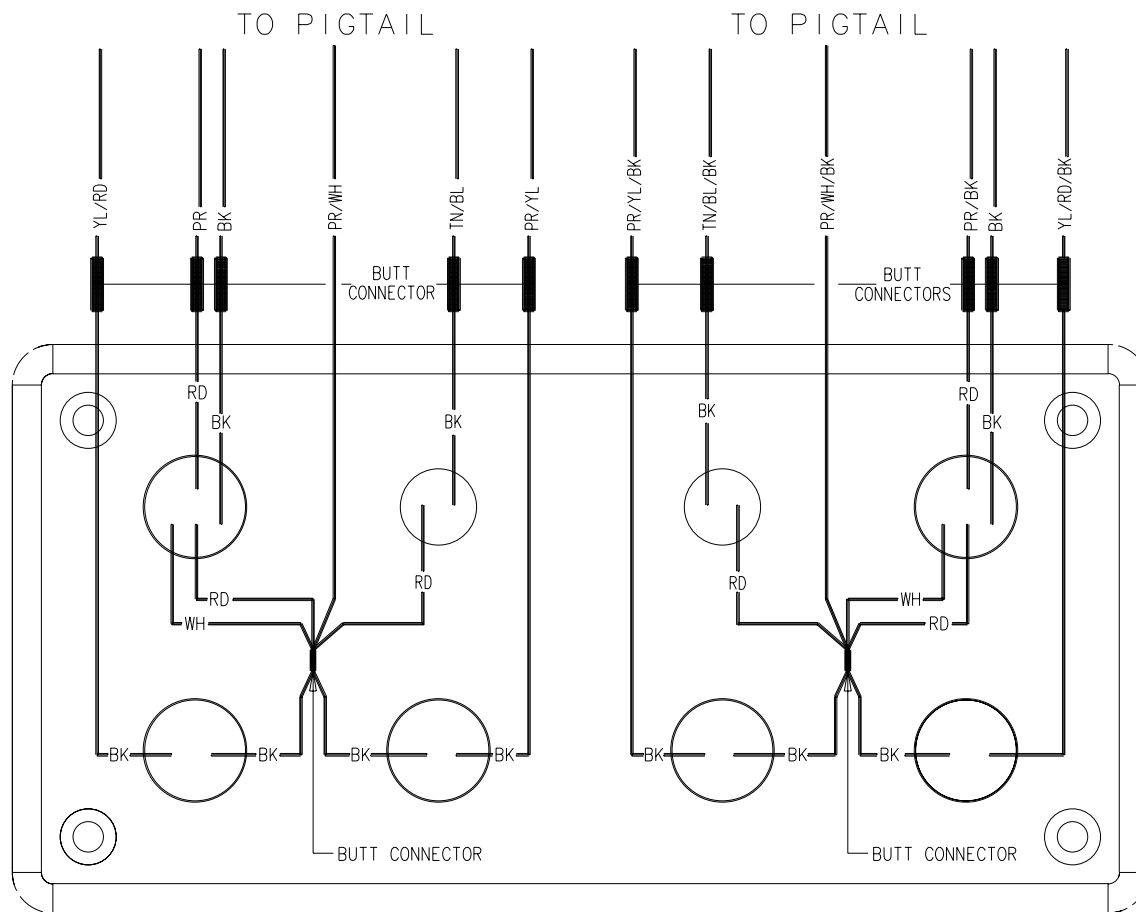
PIGTAIL #170418

TITLE: DASH  
BREAKER PANEL

MOD.: 47Y

DR BY: JAW

39



THUNDERBIRD  
PRODUCTS  
ENGINEERING

PANEL #169583

PIGTAIL #170422

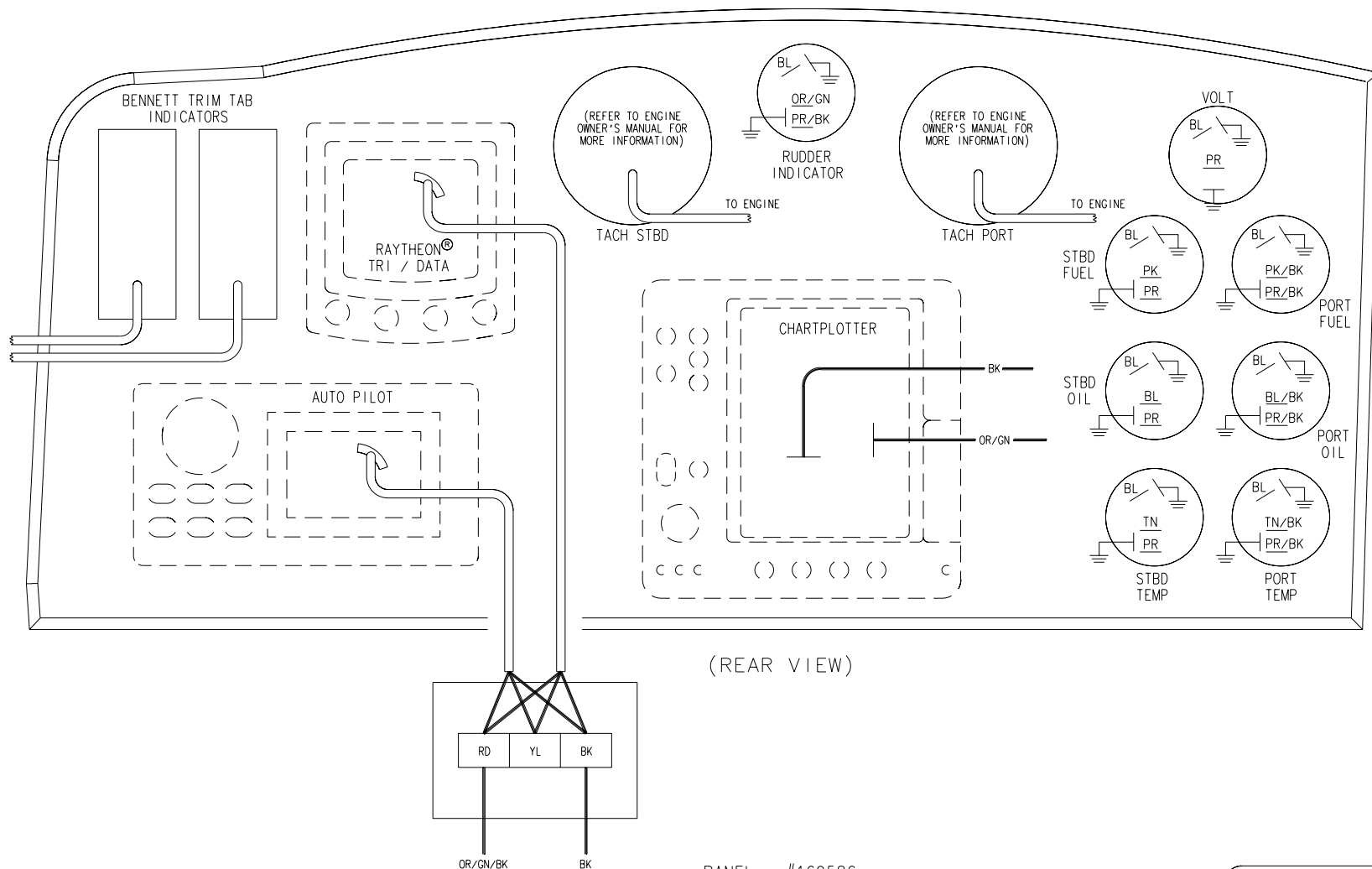
TITLE: IGNITION  
PANEL

MOD.: 47Y  
DR BY: JAW

40

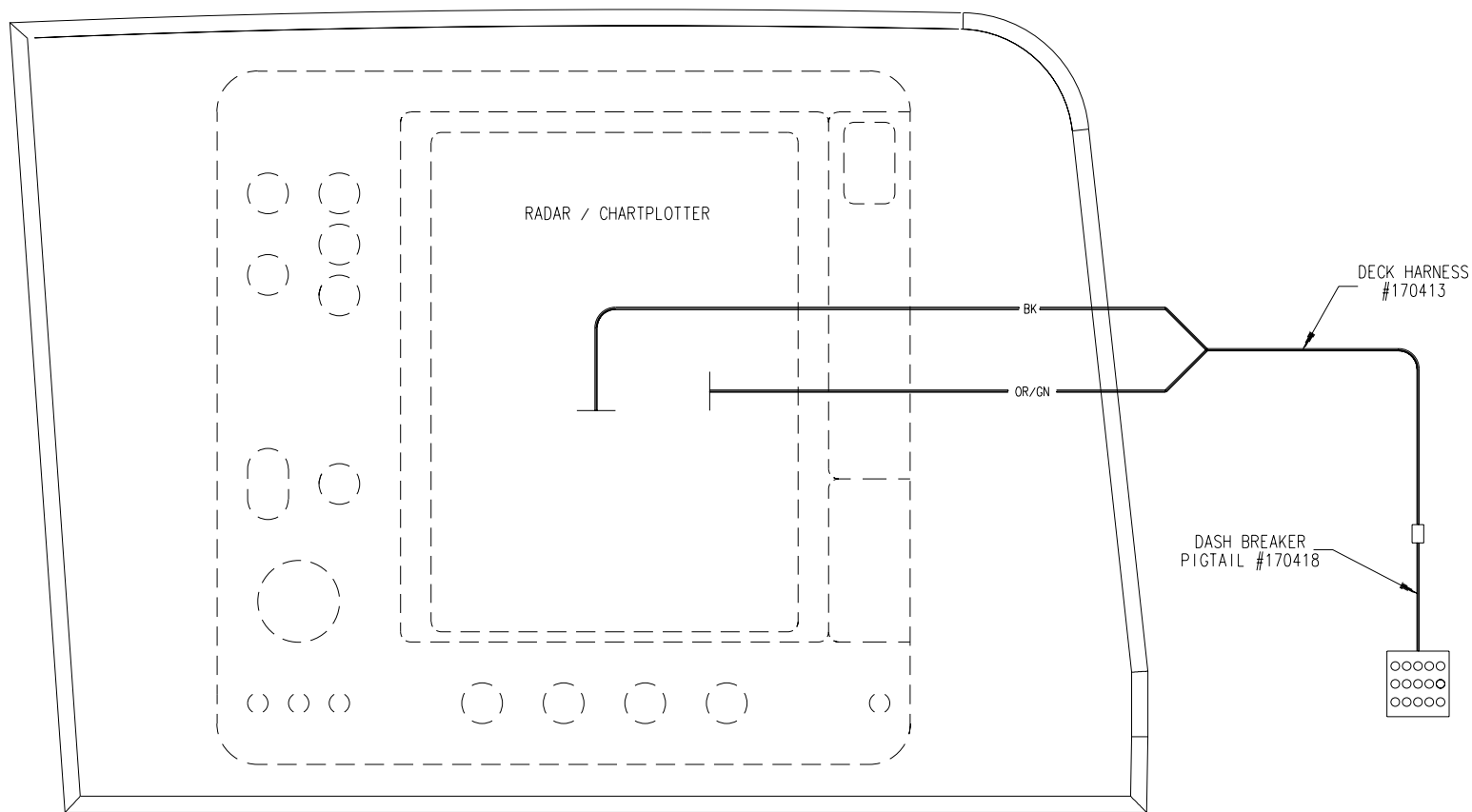


NOTE:  
RAYTHEON® TRI/DATA IS STANDARD  
EQUIPMENT. SEE RAYTHEON® TRIDATA  
USER MANUAL FOR INSTRUCTIONS.



PANEL #169586

PIGTAIL #170424



THUNDERBIRD  
PRODUCTS  
ENGINEERING

PANEL #169587

TITLE: MAIN INBOARD PANEL	
MOD.: 47Y	42
DR BY: JAW	

# LEGEND

GROUND



BREAKER



PLUGS



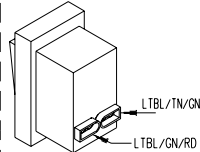
SWITCH



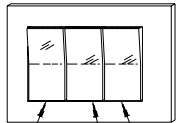
ROPE  
LIGHTS



GALLEY MOOD  
LIGHT SWITCH  
(REAR VIEW)



GALLEY  
LIGHT SWITCHES

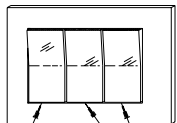


MOOD  
LIGHTS

STOVE  
VENT

UNDER  
CABINET  
LIGHTS

STBD ENTRY WALL  
LIGHT SWITCHES

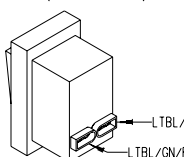


SALON  
FLOOR  
LIGHTS

RACETRACK  
LIGHTS

GALLEY  
OVERHEAD  
LIGHTS

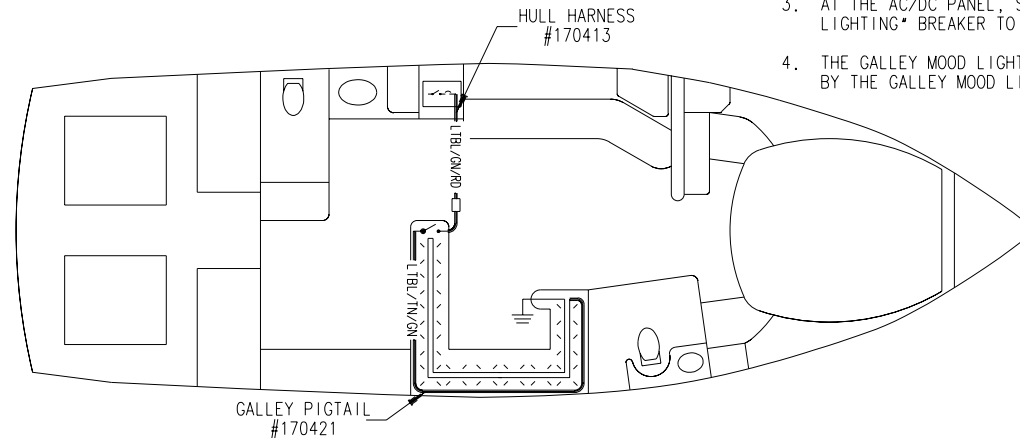
RACETRACK  
LIGHT SWITCH  
(REAR VIEW)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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 MOOD LIGHTS CAN NOW BE OPERATED BY THE GALLEY MOOD LIGHTS SWITCH.



TITLE: LIGHTS,  
GALLEY MOOD

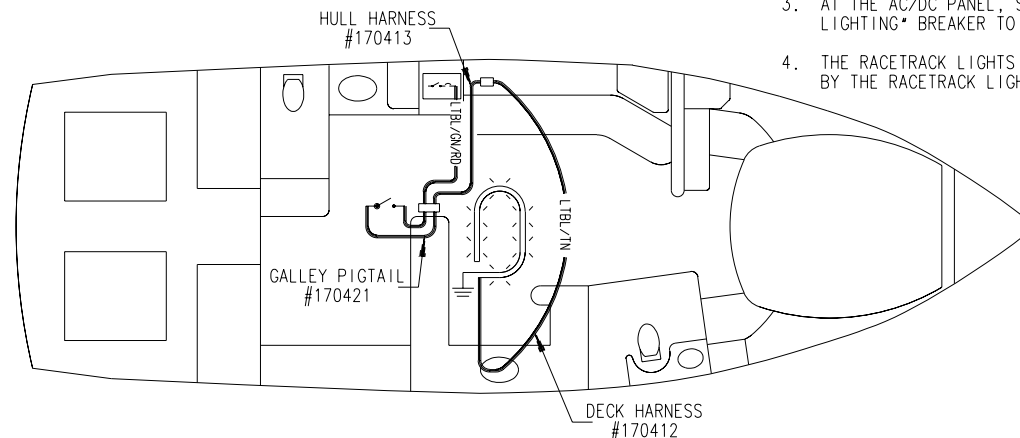
MOD.: 47Y

DR BY: JAW

43A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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 RACETRACK LIGHTS CAN NOW BE OPERATED BY THE RACETRACK LIGHTS SWITCH.



TITLE: LIGHTS,  
RACETRACK

MOD.: 47Y

DR BY: JAW

43B

# LEGEND

GROUND



LIGHT



BREAKER



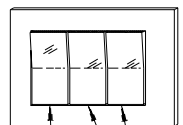
PLUGS



SWITCH

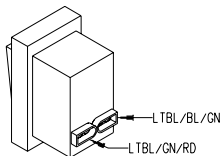


## GALLEY LIGHT SWITCHES

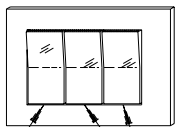


MOOD LIGHTS  
STOVE VENT  
UNDER CABINET LIGHTS

## GALLEY UNDER CABINET LIGHT SWITCH (REAR VIEW)

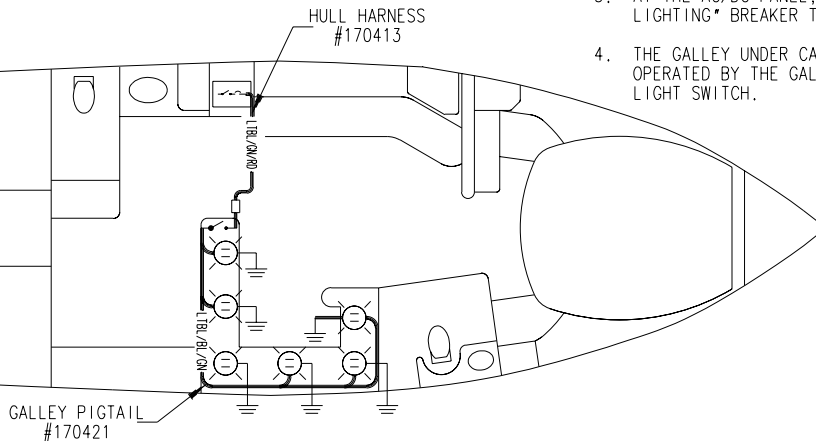
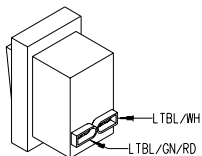


## STBD ENTRY WALL LIGHT SWITCHES



SALON FLOOR LIGHTS  
RACETRACK LIGHTS  
GALLEY OVERHEAD LIGHTS

## GALLEY OVERHEAD LIGHT SWITCH (REAR VIEW)



## TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE \*BATTERY AUX\* 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 UNDER CABINET LIGHTS CAN NOW BE OPERATED BY THE GALLEY UNDER CABINET LIGHT SWITCH.

TITLE: LIGHTS, GALLEY UNDER CABINET

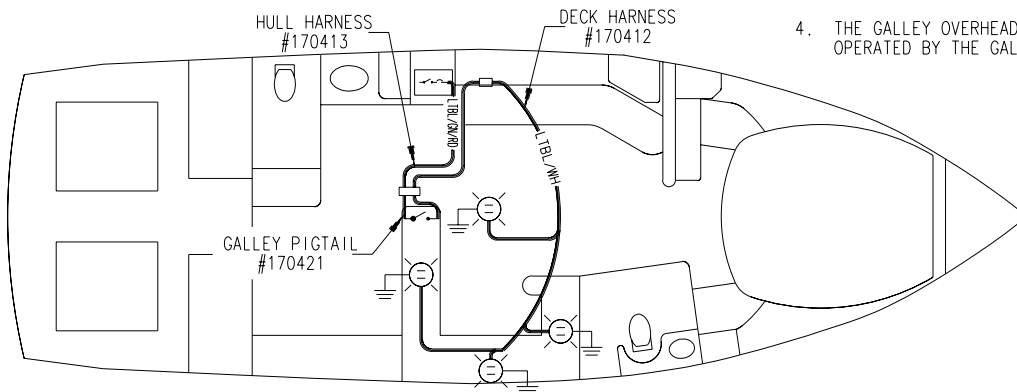
MOD.: 47Y

DR BY: JAW

44A

## TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE \*BATTERY AUX\* 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 OVERHEAD LIGHTS CAN NOW BE OPERATED BY THE GALLEY OVERHEAD LIGHT SWITCH.



TITLE: LIGHTS, GALLEY OVERHEAD

MOD.: 47Y

DR BY: JAW

44B



THUNDERBIRD  
PRODUCTS  
ENGINEERING

# LEGEND

GROUND

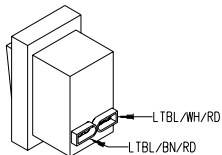
LIGHT

BREAKER

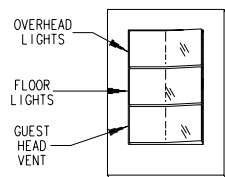
PLUGS

SWITCH

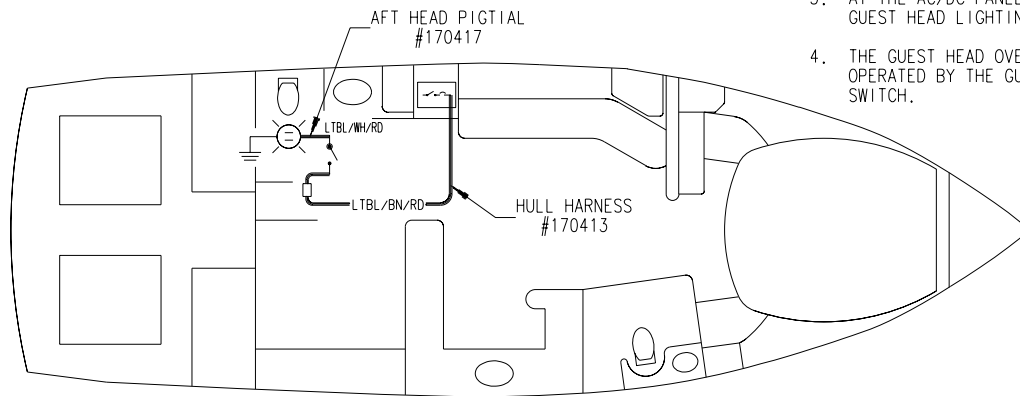
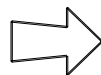
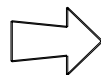
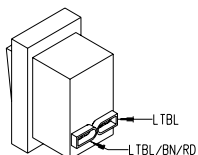
GUEST HEAD OVERHEAD  
LIGHT SWITCH  
(REAR VIEW)



GUEST HEAD  
LIGHT SWITCHES



GUEST HEAD FLOOR  
LIGHT SWITCH  
(REAR VIEW)



TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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 OVERHEAD LIGHTS CAN NOW BE OPERATED BY THE GUEST HEAD OVERHEAD LIGHT SWITCH.

TITLE: LIGHTS, GUEST  
HEAD OVERHEAD

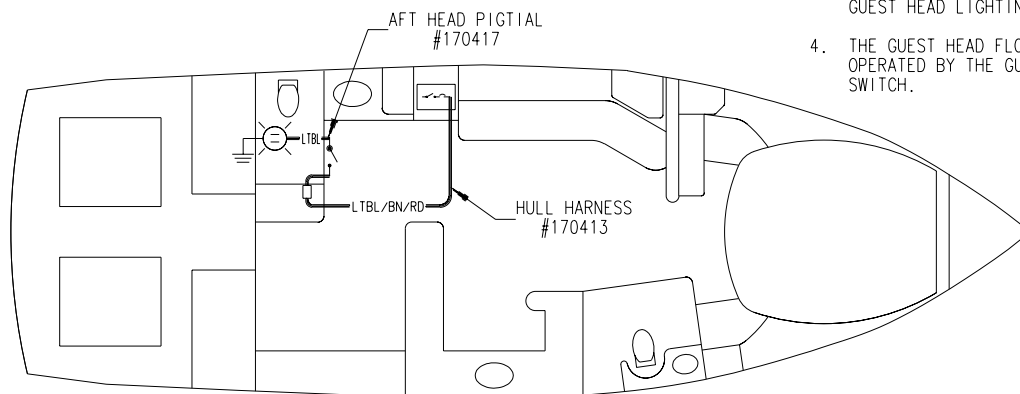
MOD.: 47Y

DR BY: JAW

45A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.: 47Y

DR BY: JAW

45B



THUNDERBIRD  
PRODUCTS  
ENGINEERING

# LEGEND

GROUND



LIGHT



BREAKER



PLUGS



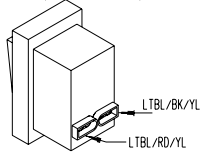
SWITCH



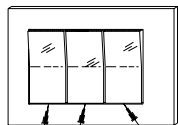
ROPE  
LIGHTS



GUEST MOOD  
LIGHT SWITCH  
(REAR VIEW)



GUEST STATEROOM  
LIGHT SWITCHES

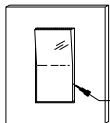


OVERHEAD  
LIGHTS

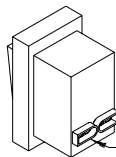
MOOD  
LIGHTS

FLOOR  
LIGHTS

GUEST VANITY  
LIGHT SWITCHES



GUEST VANITY  
LIGHT SWITCH  
(REAR VIEW)



LTBL/GN/GN

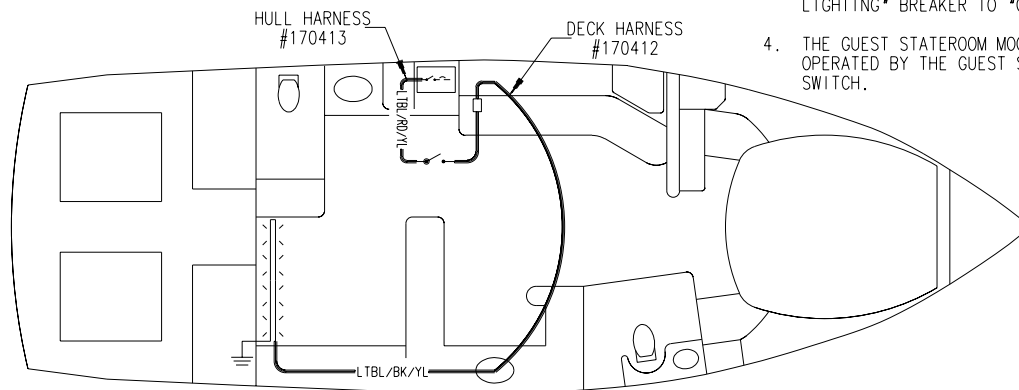
LTBL/BN/RD



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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 MOOD LIGHTS CAN NOW BE OPERATED BY THE GUEST STATEROOM MOOD LIGHT SWITCH.



TITLE: LIGHTS, GUEST  
STATEROOM MOOD

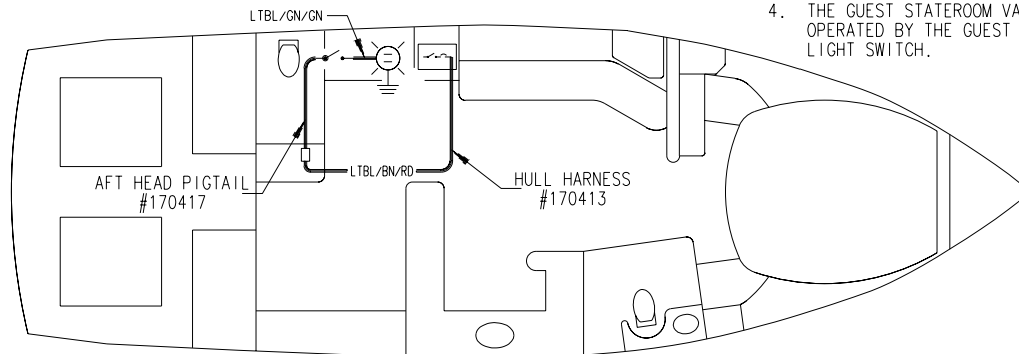
MOD.: 47Y

DR BY: JAW

46A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.: 47Y

DR BY: JAW

46B


# LEGEND

GROUND 

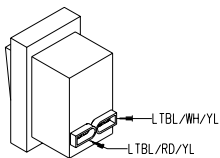
LIGHT 

BREAKER 

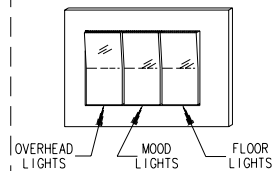
PLUGS 

SWITCH 

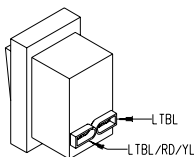
GUEST OVERHEAD  
LIGHT SWITCH  
(REAR VIEW)



GUEST STATEROOM  
LIGHT SWITCHES



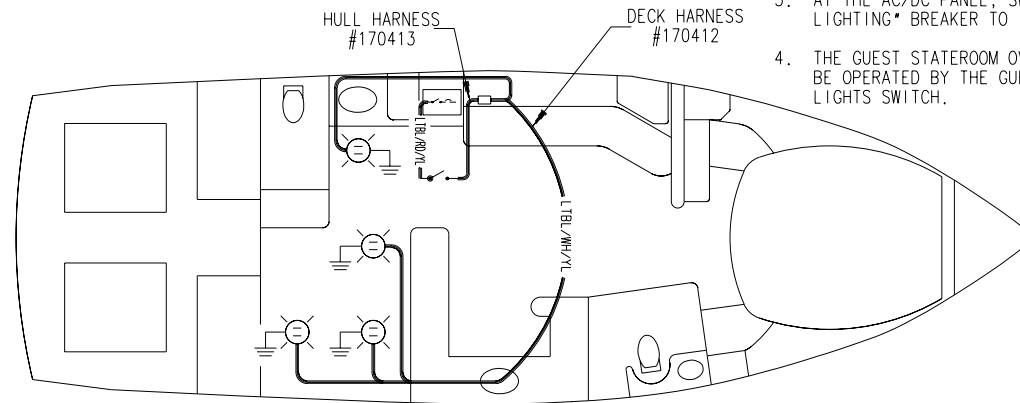
GUEST FLOOR  
LIGHT SWITCH  
(REAR VIEW)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TO OPERATE:

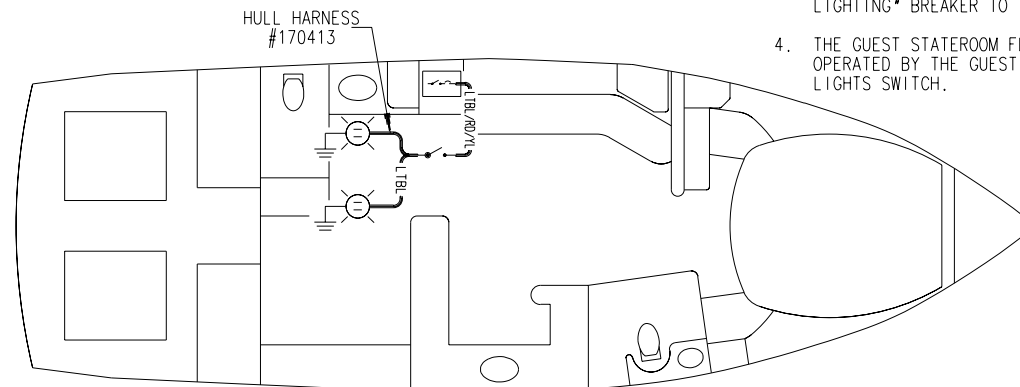
1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 2" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "GUEST STATERM LIGHTING" BREAKER TO "ON".
4. THE GUEST STATEROOM OVERHEAD LIGHTS CAN NOW BE OPERATED BY THE GUEST STATEROOM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



TITLE: LIGHTS, GUEST  
STATEROOM OVERHEAD  
MOD.: 47Y  
DR BY: JAW  
**47A**

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.



TITLE: LIGHTS, GUEST  
STATEROOM FLOOR  
MOD.: 47Y  
DR BY: JAW  
**47B**

# LEGEND

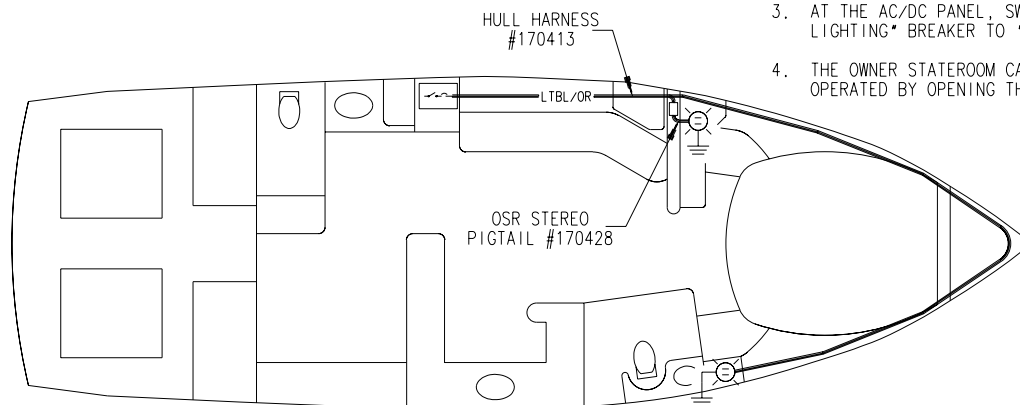
GROUND 

LIGHT 

BREAKER 

PLUGS 

SWITCH 



TITLE: LIGHTS,  
OWNER CABINET

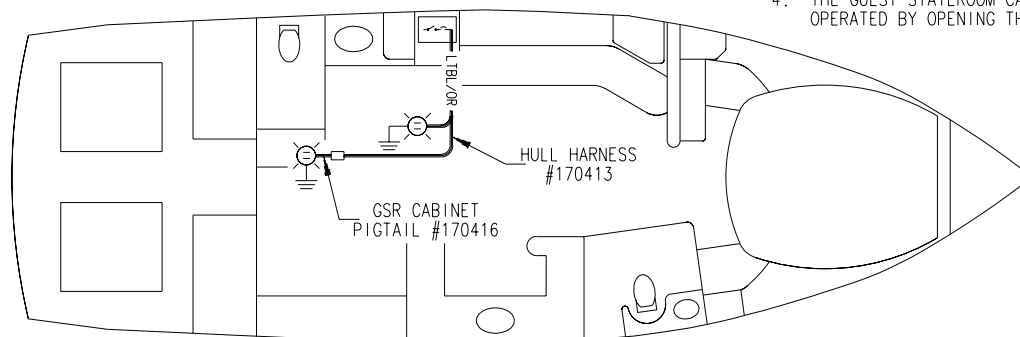
MOD.: 47Y

DR BY: JAW

48A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.: 47Y

DR BY: JAW

48B

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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

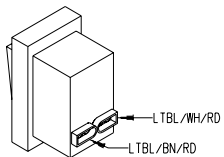
LIGHT

BREAKER

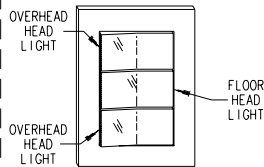
PLUGS

SWITCH

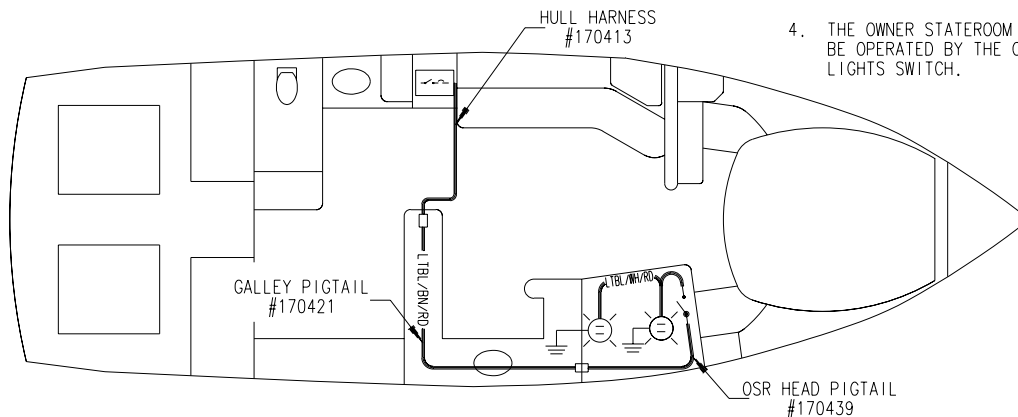
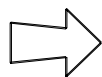
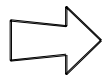
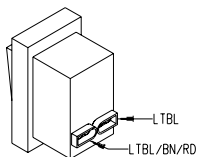
OWNER HEAD OVERHEAD  
LIGHT SWITCH  
(REAR VIEW)



OWNER HEAD  
LIGHT SWITCHES



OWNER HEAD FLOOR  
LIGHT SWITCH  
(REAR VIEW)



TO OPERATE:

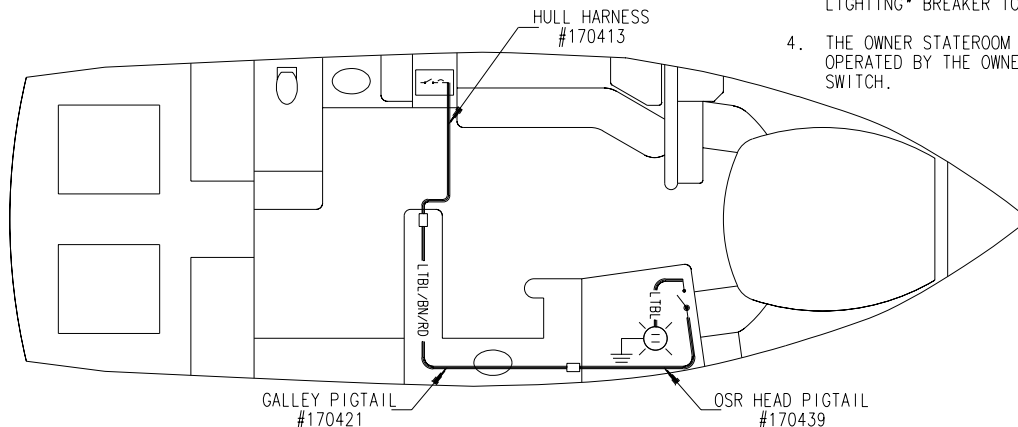
1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" SWITCH ON.
2. AT THE AC/DC PANEL, LOCATED IN THE CABIN, SWITCH THE DC "MAIN 1" BREAKER TO "ON".
3. AT THE AC/DC PANEL, SWITCH THE "OWNER STATERM LIGHTING" BREAKER TO "ON".
4. THE OWNER STATEROOM OVERHEAD LIGHTS CAN NOW BE OPERATED BY THE OWNER STATEROOM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

TITLE: LIGHTS, OWNER  
HEAD OVERHEAD

MOD.: 47Y

DR BY: JAW

49A



TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.: 47Y

DR BY: JAW

49B



THUNDERBIRD  
PRODUCTS  
ENGINEERING

# LEGEND

GROUND



LIGHT



BREAKER



PLUGS



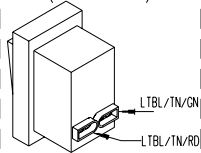
SWITCH



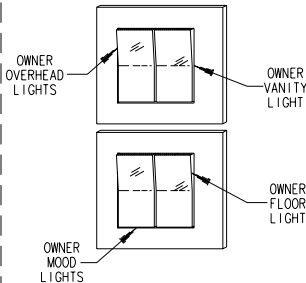
ROPE  
LIGHT



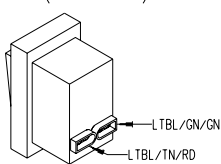
OWNER'S MOOD  
LIGHT SWITCH  
(REAR VIEW)



OWNER'S ENTRY WALL  
LIGHT SWITCHES



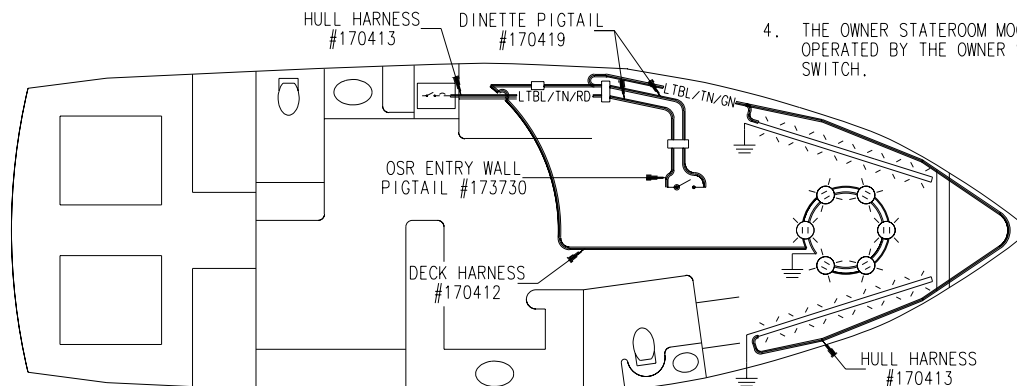
OWNER VANITY  
LIGHT SWITCH  
(REAR VIEW)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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 MOOD LIGHTS CAN NOW BE OPERATED BY THE OWNER STATEROOM MOOD LIGHTS SWITCH.



TITLE: LIGHTS, OWNER  
STATEROOM MOOD

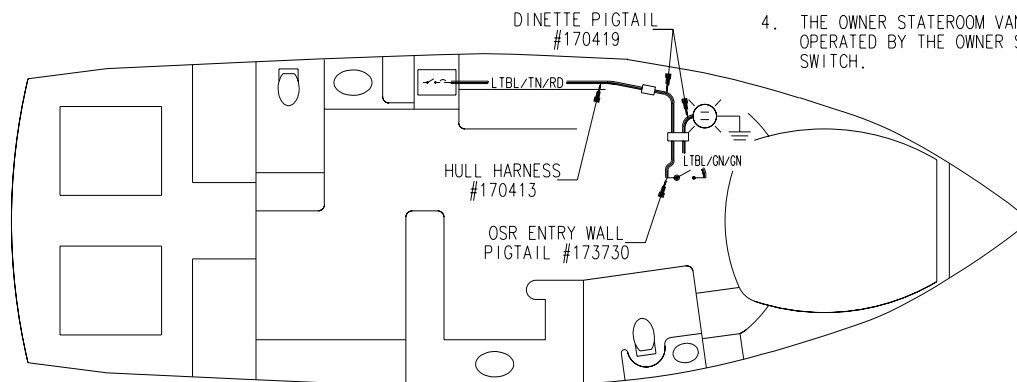
MOD.: 47Y

DR BY: JAW

50A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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 VANITY LIGHTS CAN NOW BE OPERATED BY THE OWNER STATEROOM VANITY LIGHTS SWITCH.



TITLE: LIGHTS, OWNER  
STATEROOM VANITY


MOD.: 47Y

DR BY: JAW

50B

# LEGEND

GROUND 

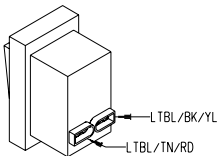
LIGHT 

BREAKER 

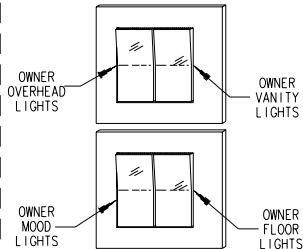
PLUGS 

SWITCH 

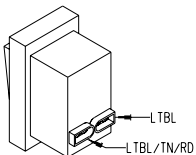
OWNER OVERHEAD  
LIGHT SWITCH  
(REAR VIEW)



OWNER ENTRY WALL  
LIGHT SWITCHES



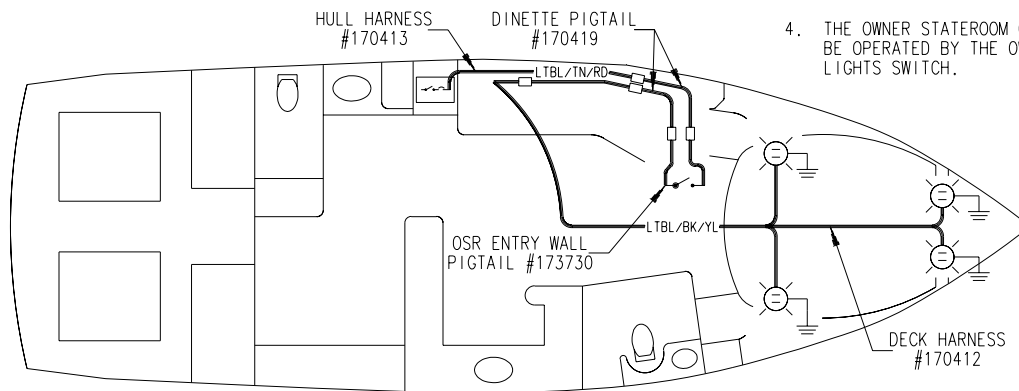
OWNER FLOOR  
LIGHT SWITCH  
(REAR VIEW)



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

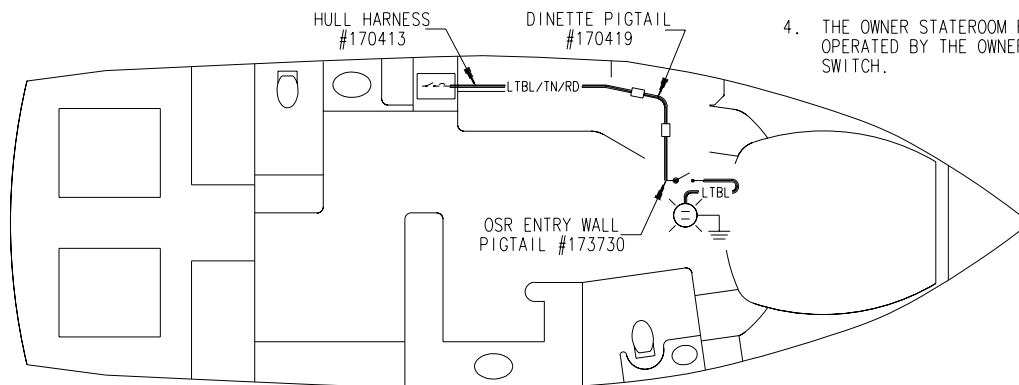
MOD.: 47Y

DR BY: JAW

51A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.: 47Y

DR BY: JAW

51B

# LEGEND

GROUND



LIGHT



BREAKER



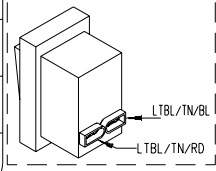
PLUGS



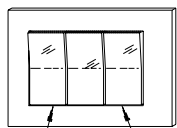
SWITCH



OWNER PORT READING  
LIGHT SWITCH  
(REAR VIEW)



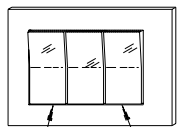
OWNER PORT LIGHT SWITCH



PORT  
READING  
LIGHT

BED  
TILT

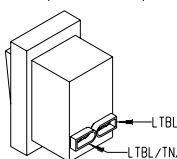
OWNER STBD LIGHT SWITCH



BED  
TILT

STBD  
READING  
LIGHT

OWNER STBD READING  
LIGHT SWITCH  
(REAR VIEW)



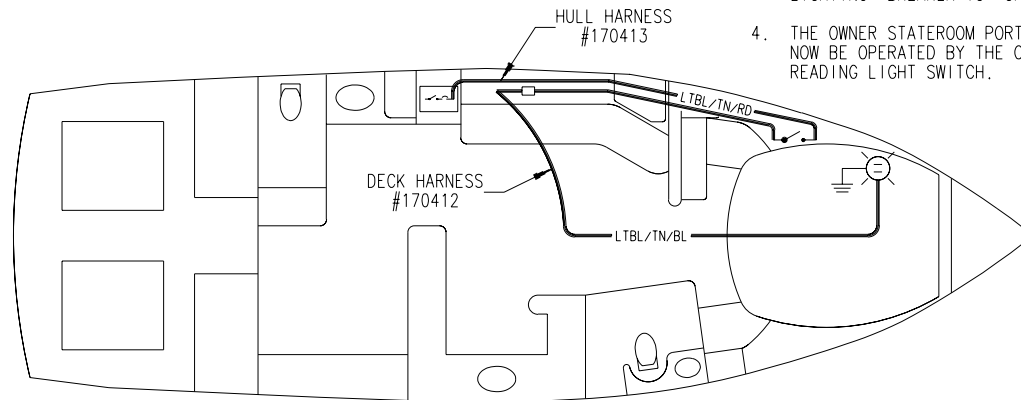
LTBL/WH/OR  
LTBL/TN/RD



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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 PORT READING

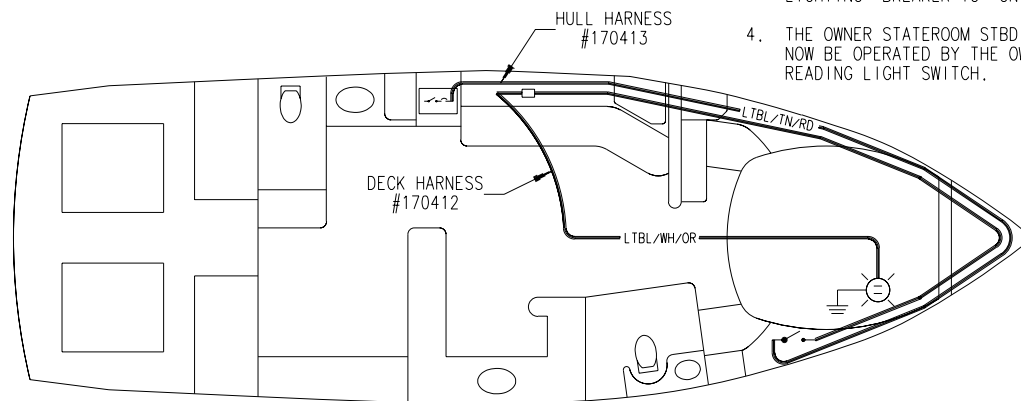
MOD.: 47Y

DR BY: JAW

52A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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 STBD READING LIGHTS CAN NOW BE OPERATED BY THE OWNER STATEROOM STBD READING LIGHT SWITCH.



TITLE: LIGHTS, OWNER  
STATEROOM STBD READING

MOD.: 47Y

DR BY: JAW

52B

## LEGEND

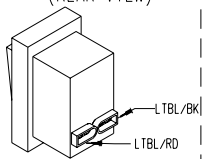
GROUND 

LIGHT 

BREAKER 

PLUGS ☐ ☐SWITCH 

ROPE  
LIGHTS



PORT ENTRY WALL  
LIGHT SWITCHES

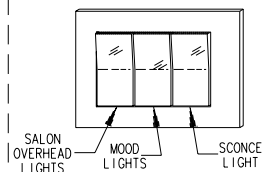
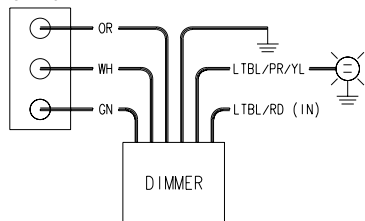


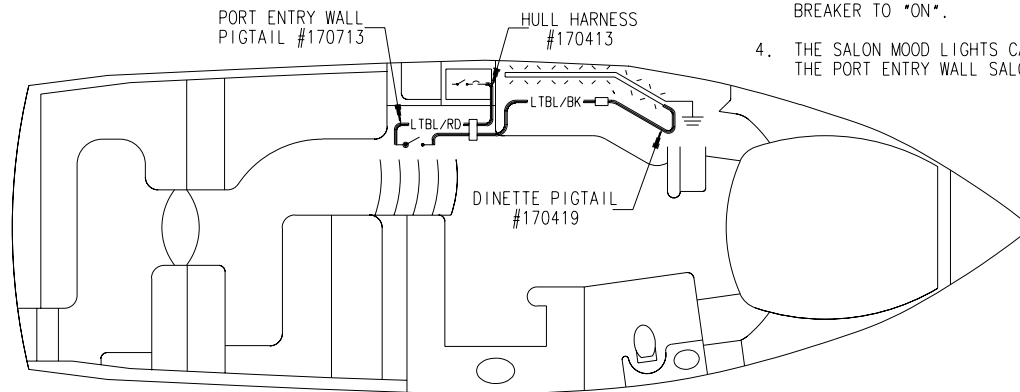
FIG. 1 SALON SCONCE LIGHT  
DIMMER CIRCUIT



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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 MOOD LIGHTS CAN NOW BE OPERATED BY THE PORT ENTRY WALL SALON MOOD LIGHTS SWITCH.



TITLE: LIGHTS,  
SALON MOOD

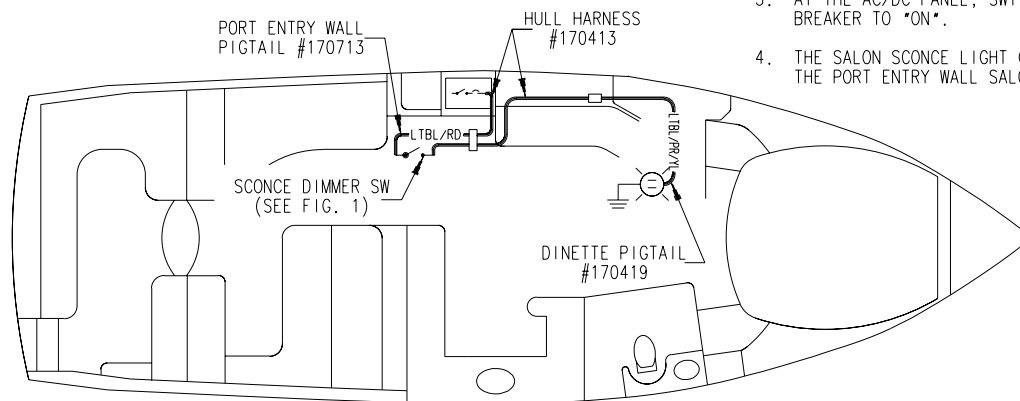
MOD.: 47Y

DR BY: JAW

53A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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 SCNCE LIGHT CAN NOW BE OPERATED BY THE PORT ENTRY WALL SALON SCNCE LIGHT SWITCH.



TITLE: LIGHT,  
SALON SCENCE

MOD.: 47Y

DR BY: JAW

53B

# LEGEND

GROUND



LIGHT



BREAKER



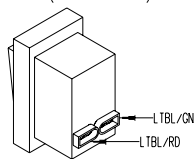
PLUGS



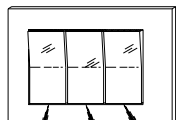
SWITCH



SALON OVERHEAD  
LIGHT SWITCH  
(REAR VIEW)



PORT ENTRY WALL  
LIGHT SWITCHES

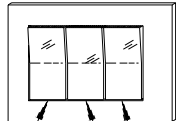


SALON  
OVERHEAD  
LIGHTS

SALON  
MOOD  
LIGHTS

SALON  
SCIENCE  
LIGHTS

STBD ENTRY WALL  
LIGHT SWITCHES

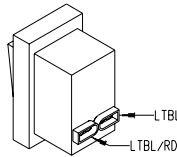


SALON  
FLOOR  
LIGHTS

RACE  
TRACK  
LIGHTS

GALLEY  
OVERHEAD  
LIGHTS

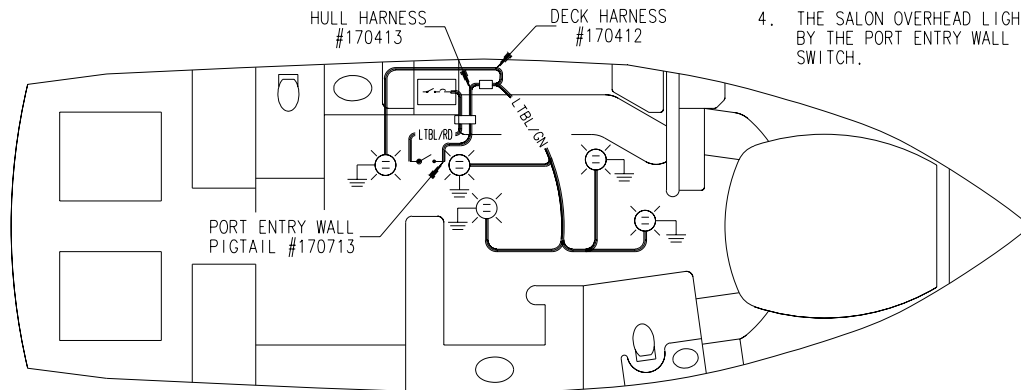
SALON FLOOR  
LIGHT SWITCH  
(REAR VIEW)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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

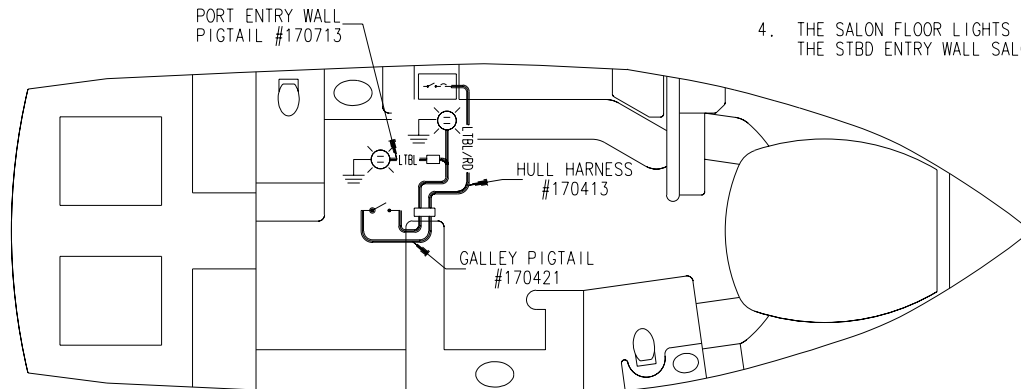
MOD.: 47Y

DR BY: JAW

54A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.: 47Y

DR BY: JAW

54B

# LEGEND

GROUND



BREAKER  
PANEL



SWITCH



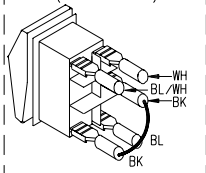
PLUGS



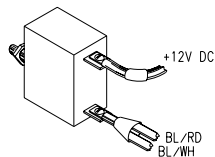
LIGHT



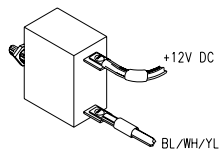
\*COURT LTS\* SWITCH  
(ACCESSORY PANEL)  
(REAR VIEW)



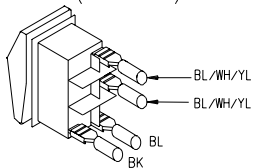
\*COCKPIT LIGHTS\* BKR 15A  
(DASH BKR PANEL)  
(REAR VIEW)



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



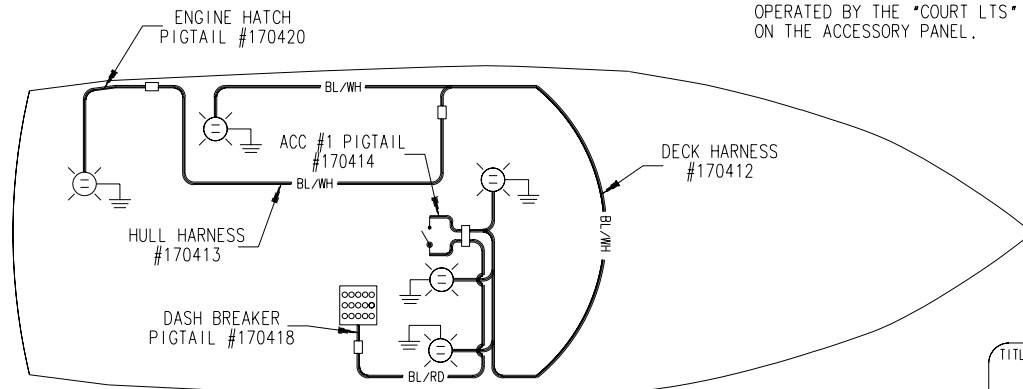
\*ENGINE ROOM LTS\* SWITCH  
(ACCESSORY PANEL)  
(REAR VIEW)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE \*BATTERY AUX\* SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE \*COCKPIT LIGHTS\* BREAKER MUST BE PUSHED IN (CLOSED).
3. THE COCKPIT COURTESY LIGHTS CAN NOW BE OPERATED BY THE \*COURT LTS\* SWITCH LOCATED ON THE ACCESSORY PANEL.

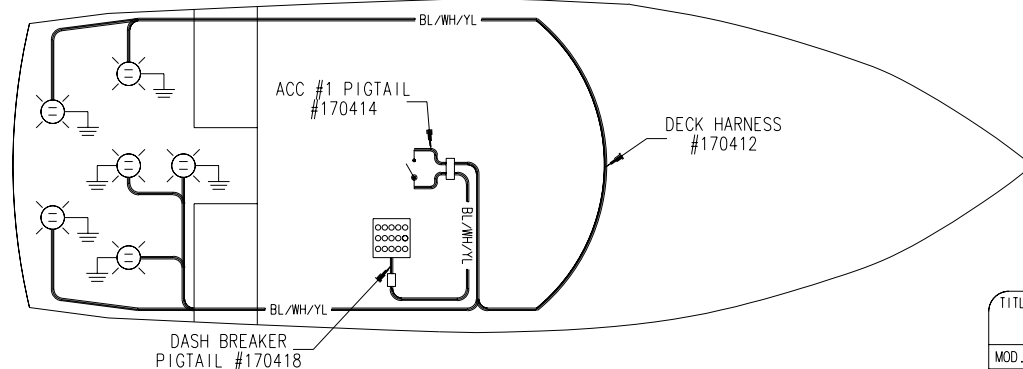


TITLE: LIGHTS,  
COCKPIT COURTESY  
MOD.: 47Y  
DR BY: JAW

55A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE \*BATTERY AUX\* 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.: 47Y  
DR BY: JAW

55B

# LEGEND

GROUND 

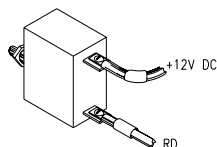
BREAKER PANEL 

SWITCH 

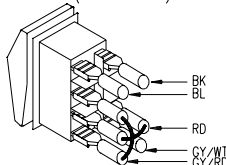
PLUGS 

LIGHT 

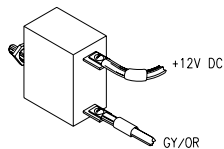
"NAV LIGHTS" BKR 10A  
(DASH BKR PANEL)  
(REAR VIEW)



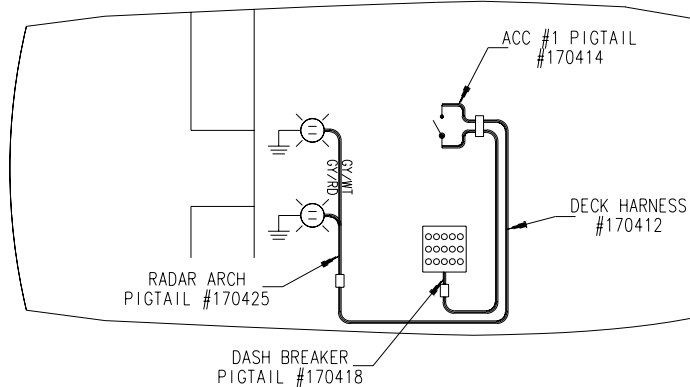
"NAV/ANCH LTS" SWITCH  
(ACCESSORY PANEL)  
(REAR VIEW)



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



THUNDERBIRD  
PRODUCTS  
ENGINEERING



TO OPERATE:

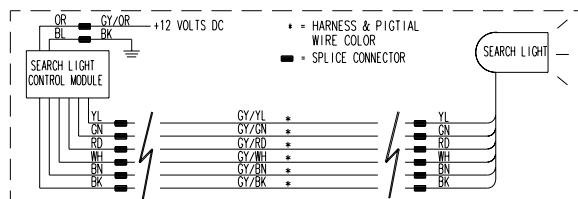
1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE "NAV LIGHTS" BREAKER MUST BE PUSHED IN (CLOSED).
3. THE NAVIGATION / ANCHOR LIGHTS CAN NOW BE OPERATED BY THE "COURT LTS" SWITCH LOCATED ON THE ACCESSORY PANEL.

TITLE: LIGHTS,  
NAV/ANCHOR

MOD.: 47Y

DR BY: JAW

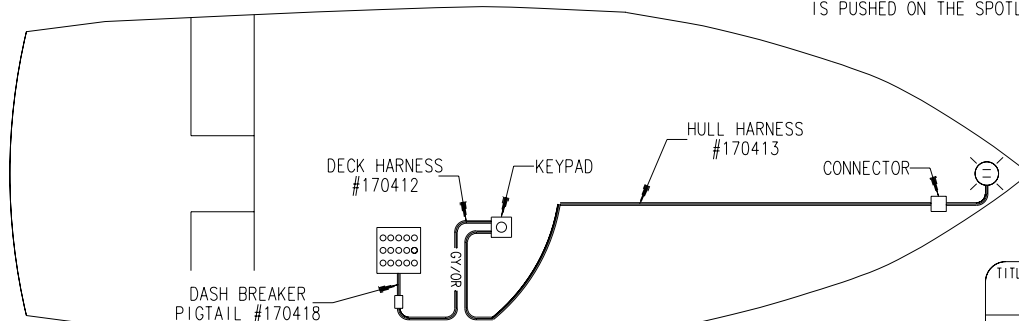
56A



TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.: 47Y

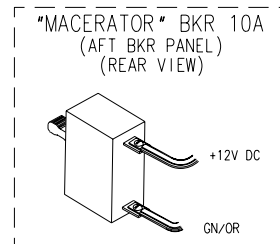
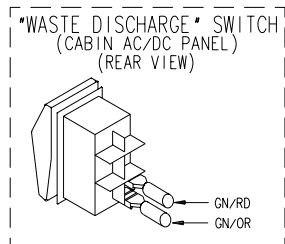
DR BY: JAW

56B



# LEGEND

GROUND	
PLUGS	
BREAKER	
SWITCH	

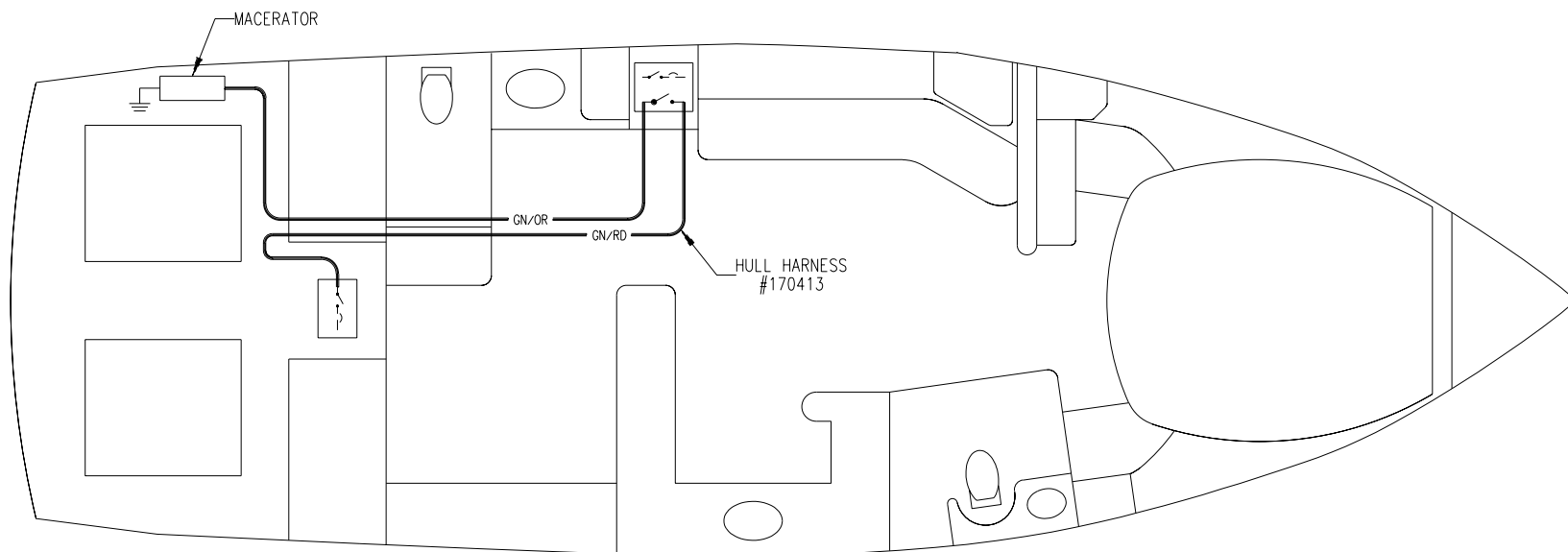


TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.



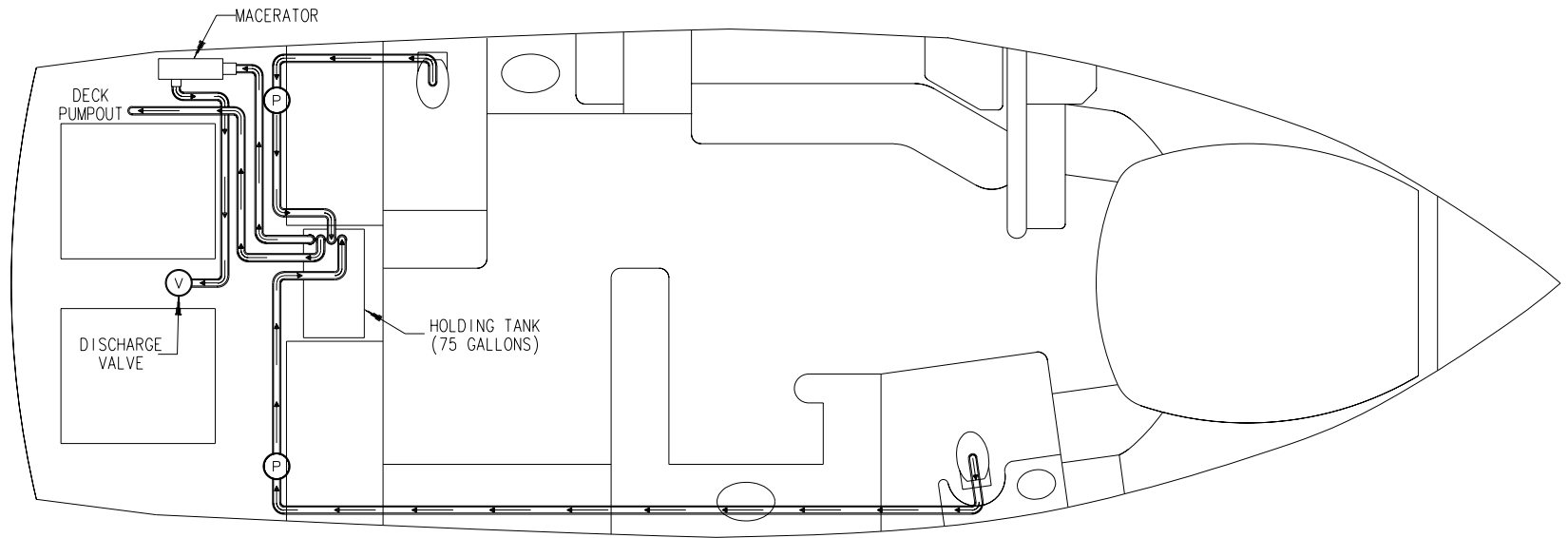
THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: MACERATOR, ELECTRICAL	
MOD.: 47Y	57
DR BY: JAW	

# LEGEND

VALVE (V)

PUMP (P)







THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: MACERATOR,  
PLUMBING

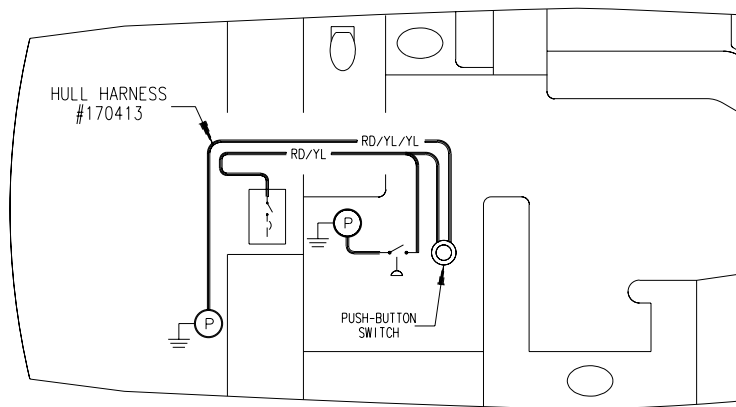
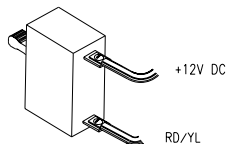
MOD.: 47Y  
DR BY: JAW

58

# LEGEND

GROUND	
BREAKER	
PUMP	
FLOAT SWITCH	

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



## TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" SWITCH ON.
2. AT THE AFT BKR PANEL, SWITCH THE "CABIN AUTO BILGE PUMP" BREAKER TO "ON".
3. 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".

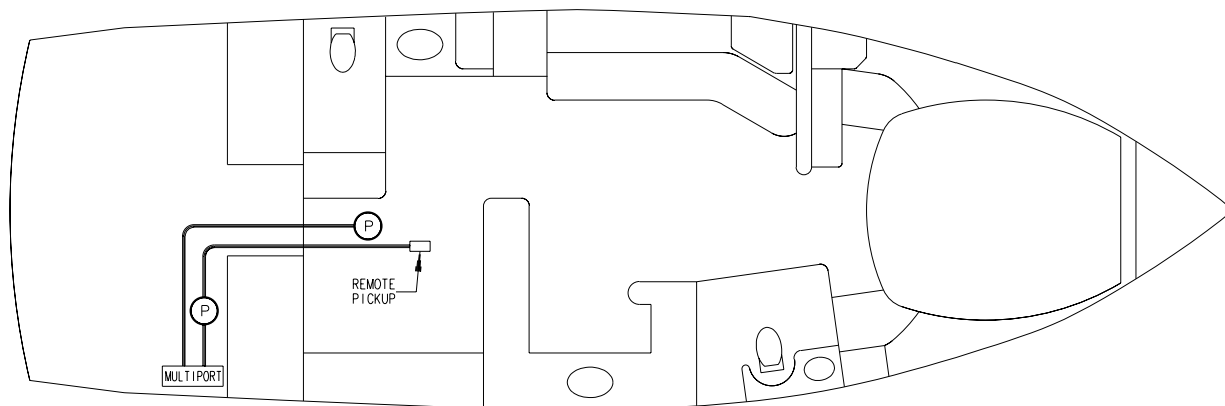
THE CABIN BILGE PUMP CAN ALSO BE OPERATED BY PRESSING AND HOLDING THE PUSH-BUTTON SWITCH LOCATED UNDER THE GUEST STATEROOM FLOOR.

TITLE: CABIN BILGE,  
ELECTRICAL

MOD.: 47Y

DR BY: JAW

59A



TITLE: CABIN BILGE,  
PLUMBING

MOD.: 47Y








DR BY: JAW

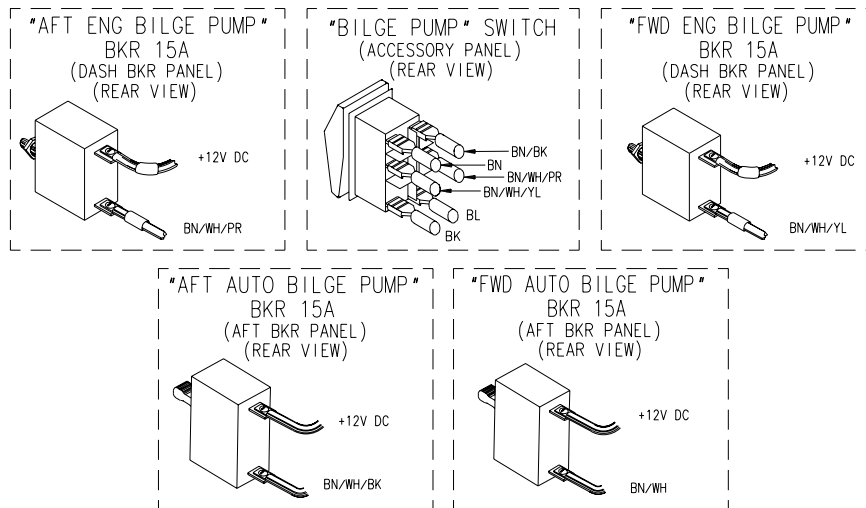
59B



THUNDERBIRD  
PRODUCTS  
ENGINEERING

# LEGEND

GROUND	
BREAKER	
PUMP	
SWITCH	
PLUGS	
FLOAT SWITCH	
BREAKER PANEL	



## TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" SWITCH ON.
2. 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.

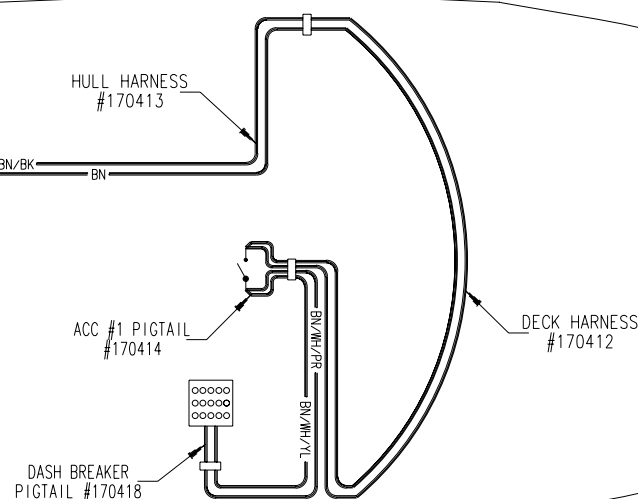
## NOTE:

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.



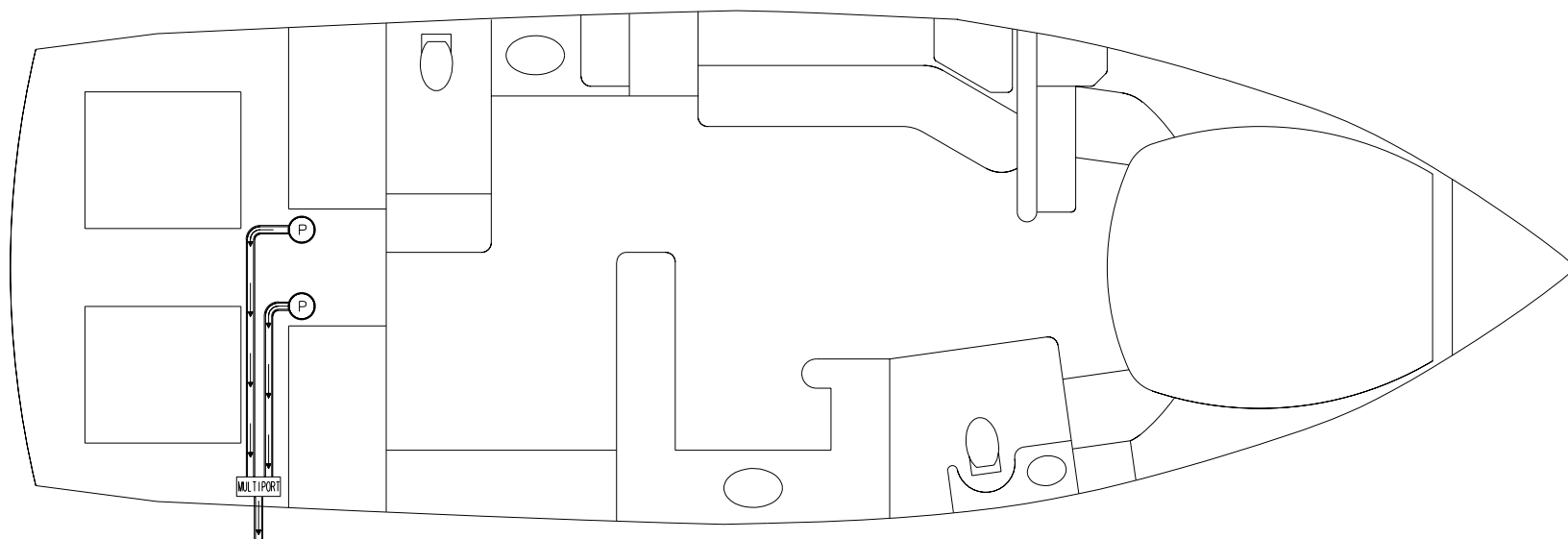
THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: ENGINE BILGE, ELECTRICAL	
MOD.: 47Y	60
DR BY: JAW	

# LEGEND

PUMP

(P)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: ENGINE BILGE,  
PLUMBING


MOD.: 47Y  
DR BY: JAW

61

# LEGEND

PLUGS □ □

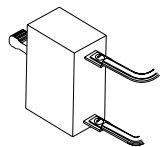
BREAKER 

GROUND 

FUSE 

PUMP 

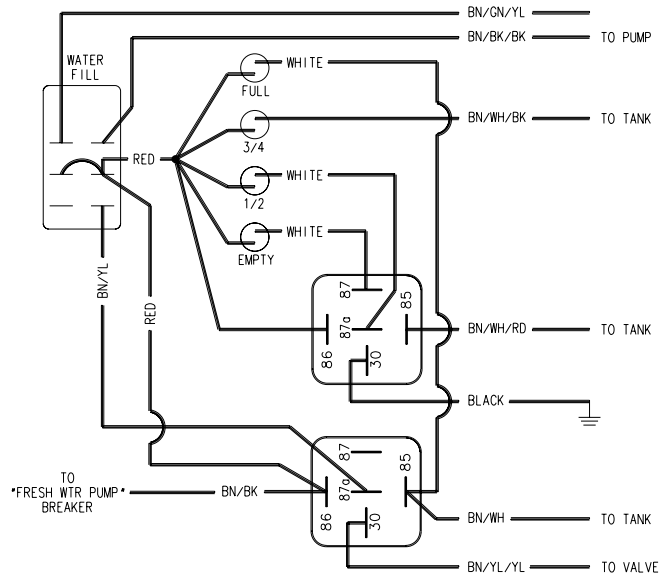
"FRESH WATER PUMP" BKR 30A  
(CABIN AC/DC PANEL)  
(REAR VIEW)



+12V DC

BN/BK

FIG. 1



## TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.

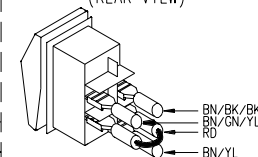
## NOTE:

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. WATER TANK GAUGE IS LOCATED IN CABINET, UNDER SINK.

ONE POINT WATER FILL SWITCH  
(GALLEY UNIT)  
(REAR VIEW)



(SEE FIG. 1 FOR DETAILED  
CIRCUIT INSIDE PANEL)

HULL HARNESS  
#170413

15A FUSE

WATER  
TANK



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: FRESH WATER  
PUMP, ELECTRICAL

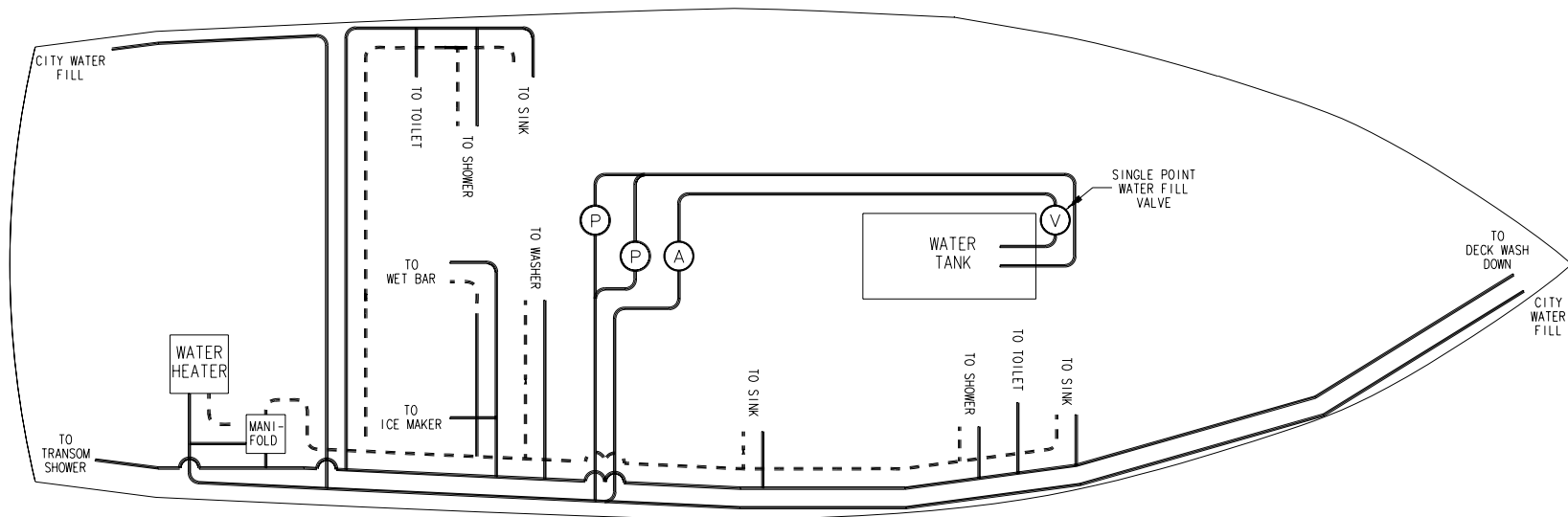
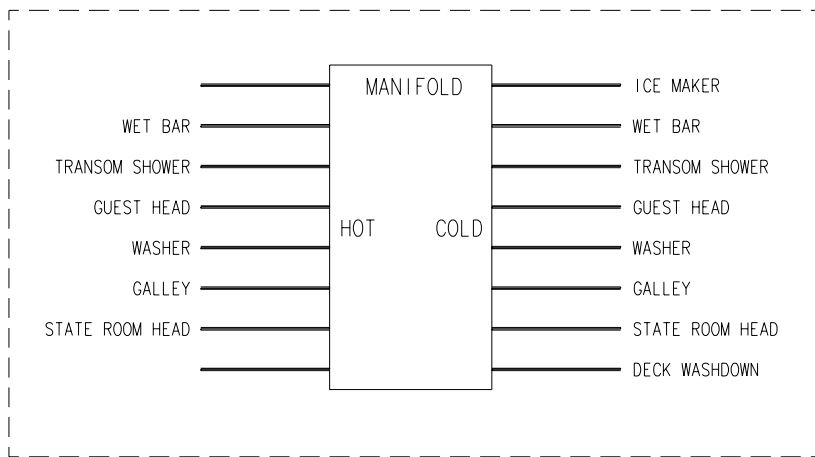
MOD.: 47Y

DR BY: JAW

62

# LEGEND

COLD WATER LINE	—
HOT WATER LINE	- - -
PUMP	(P)
ACCUMULATOR	(A)
VALVE	(V)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: FRESH WATER PUMP, PLUMBING	
MOD.: 47Y	63
DR BY: JAW	

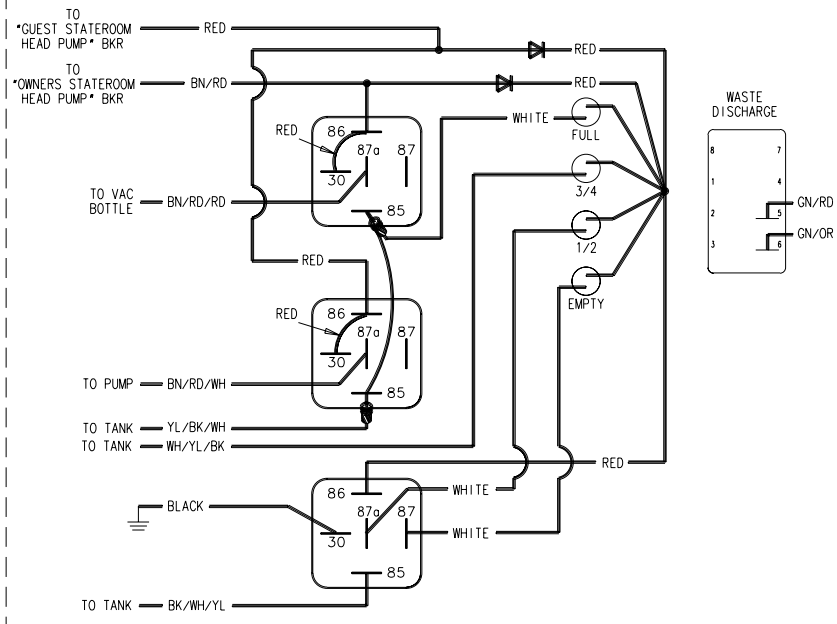
LEGEND

PLUGS  

BREAKER 

GROUND 

PUMP (P)

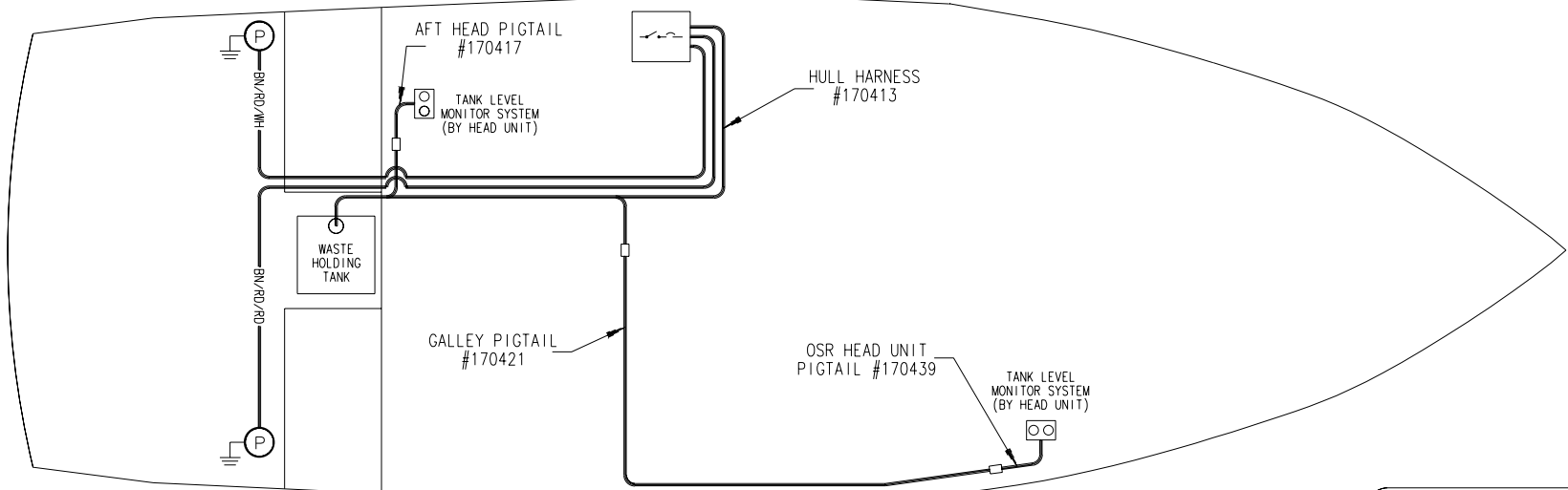
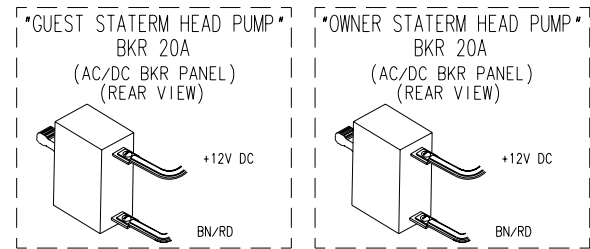


TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: HEAD PUMPS,  
ELECTRICAL

MOD.: 47Y  
DR BY: JAW

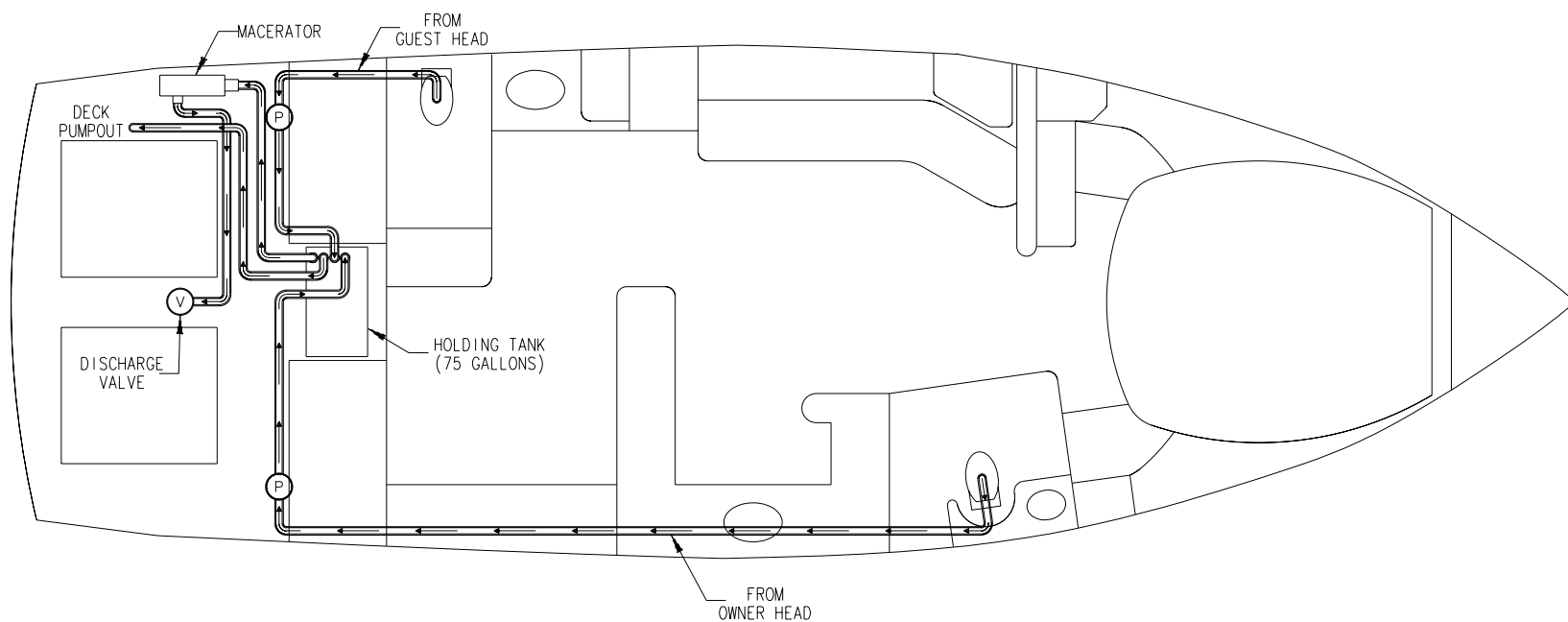
64



# LEGEND

VALVE (V)

PUMP (P)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: HEAD PUMPS,  
PLUMBING

MOD.: 47Y

DR BY: JAW

65

# LEGEND

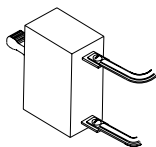
GROUND



BREAKER



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



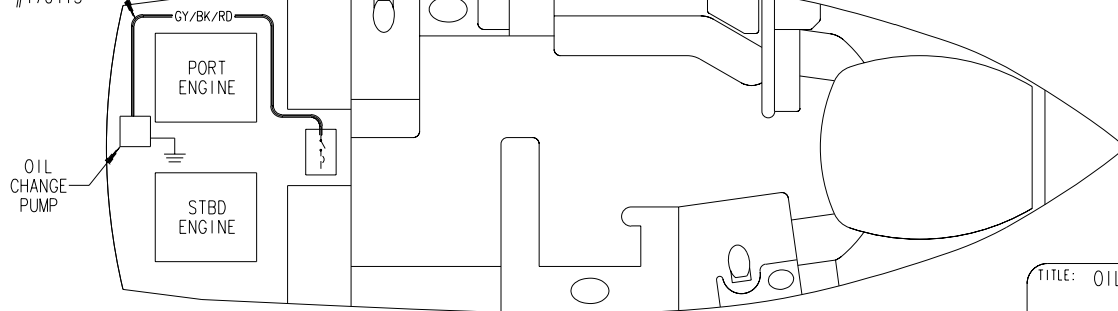
+12V DC

GY/BK/RD

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.

HULL HARNESS  
#170413

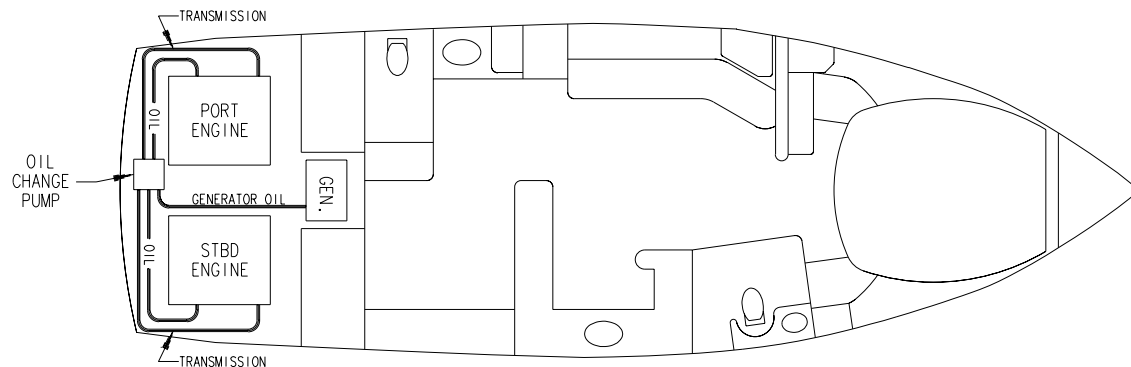


TITLE: OIL CHANGE PUMP,  
ELECTRICAL

MOD.: 47Y

DR BY: JAW

66A



TITLE: OIL CHANGE PUMP,  
PLUMBING

MOD.: 47Y

DR BY: JAW

66B



THUNDERBIRD  
PRODUCTS  
ENGINEERING

# LEGEND

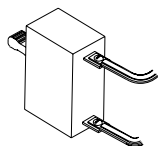
GROUND 

PUMP 

BREAKER 

FLOAT SWITCH 

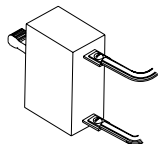
\*SHOWER SUMP 1\* BKR 10A  
(AFT BKR PANEL)  
(REAR VIEW)



+12V DC

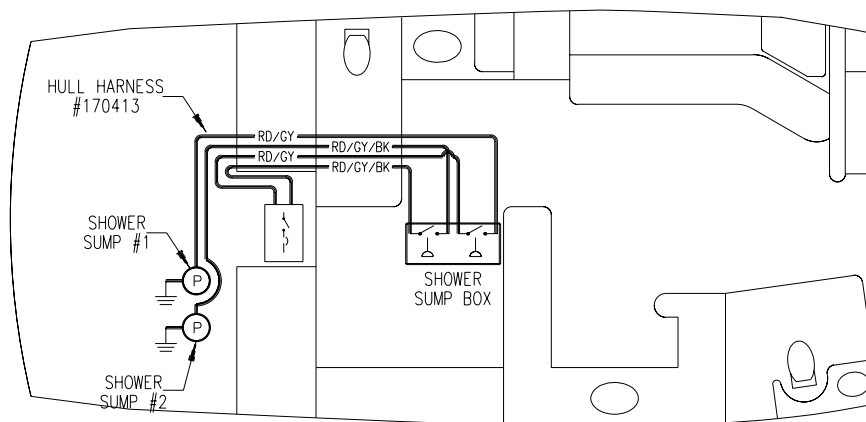
RD/GY

\*SHOWER SUMP 2\* BKR 10A  
(AFT BKR PANEL)  
(REAR VIEW)



+12V DC

RD/GY/BK



TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.

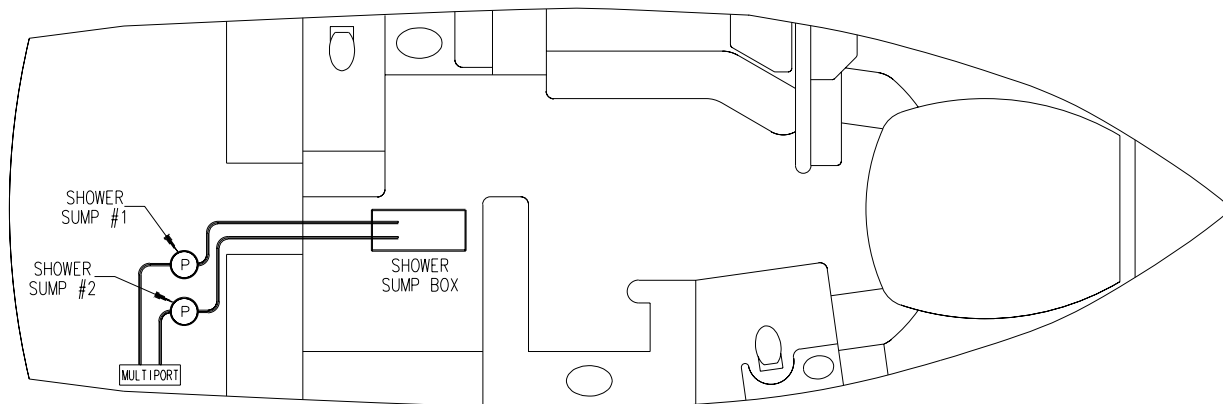
NOTE:  
THE SHOWER SUMPS WILL AUTOMATICALLY START WHEN THE WASTE WATER IS AT A LEVEL HIGH ENOUGH TO ACTIVATE THE FLOAT SWITCH.

TITLE: SHOWER SUMPS,  
ELECTRICAL

MOD.: 47Y

DR BY: JAW

67A



TITLE: SHOWER SUMPS,  
DRAINAGE

MOD.: 47Y

DR BY: JAW


67B




THUNDERBIRD  
PRODUCTS  
ENGINEERING

# LEGEND

GROUND 

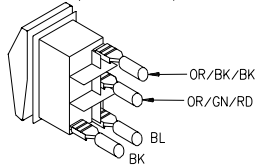
PLUGS 

BREAKER PANEL 

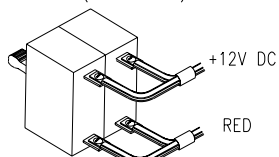
SWITCH 

PUMP 

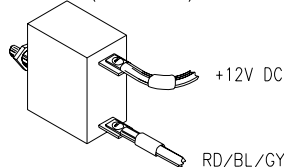
"PWC LIFT" SWITCH  
(ACCESSORY PANEL)  
(REAR VIEW)



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



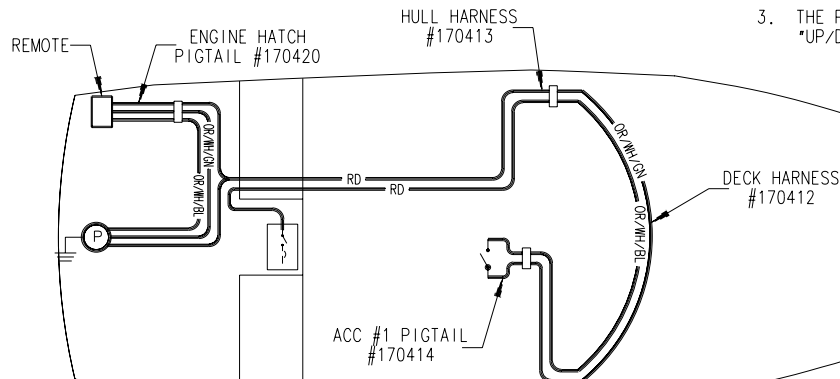
"VHF RADIO" BKR 10A  
(DASH BKR PANEL)  
(REAR VIEW)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" SWITCH ON.
2. AT THE AFT BKR PANEL, SWITCH THE "PWC" BREAKER TO "ON".
3. THE PWC LIFT CAN BE OPERATED BY THE "UP/DOWN" REMOTE.



TITLE: PWC LIFT

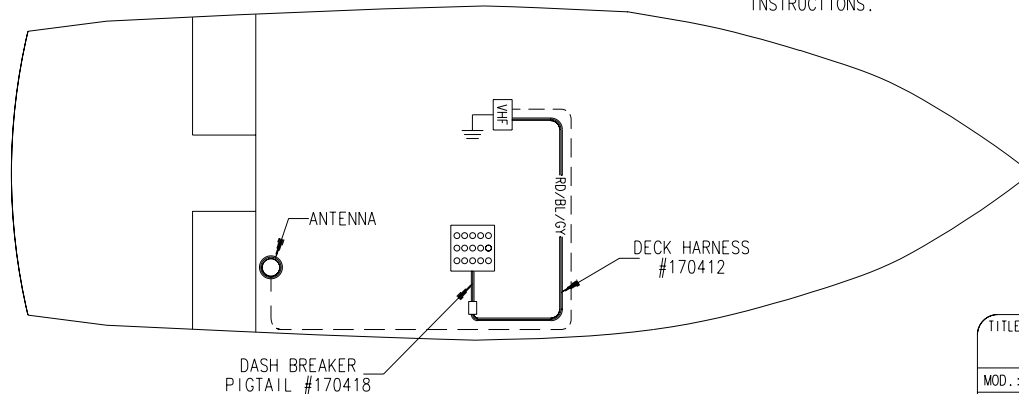
MOD.: 47Y

DR BY: JAW

68A

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.: 47Y

DR BY: JAW

68B

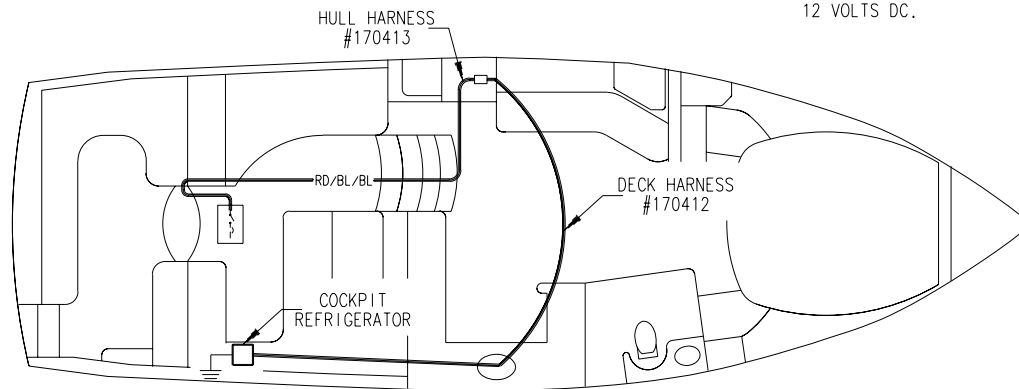
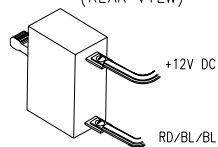
# LEGEND

BREAKER 

PLUG 

GROUND 

"COCKPIT REFRIGERATOR"  
BKR 10A  
(AFT BKR PANEL)  
(REAR VIEW)



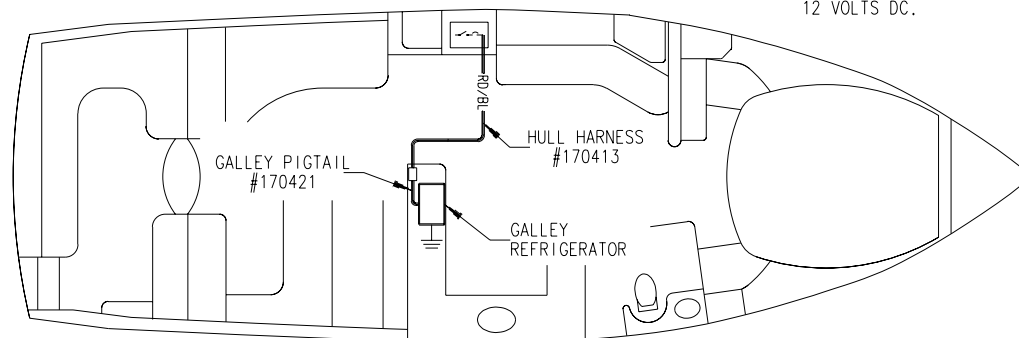
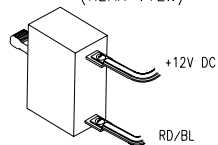
TITLE: COCKPIT  
REFRIGERATOR

MOD.: 47Y

DR BY: JAW

69A

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



TITLE: GALLEY  
REFRIGERATOR

MOD.: 47Y

DR BY: JAW

69B



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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 "BATTERY AUX" 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.

# LEGEND

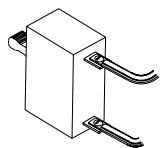
GROUND 

BREAKER 

PLUGS 

FLOAT SWITCH 

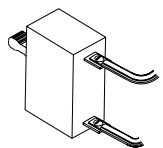
"SEAKEY" BKR 2A  
(AFT BKR PANEL)  
(REAR VIEW)



+12V DC

PK/GN

"HOSE REEL" BKR 5A  
(AFT BKR PANEL)  
(REAR VIEW)



+12V DC

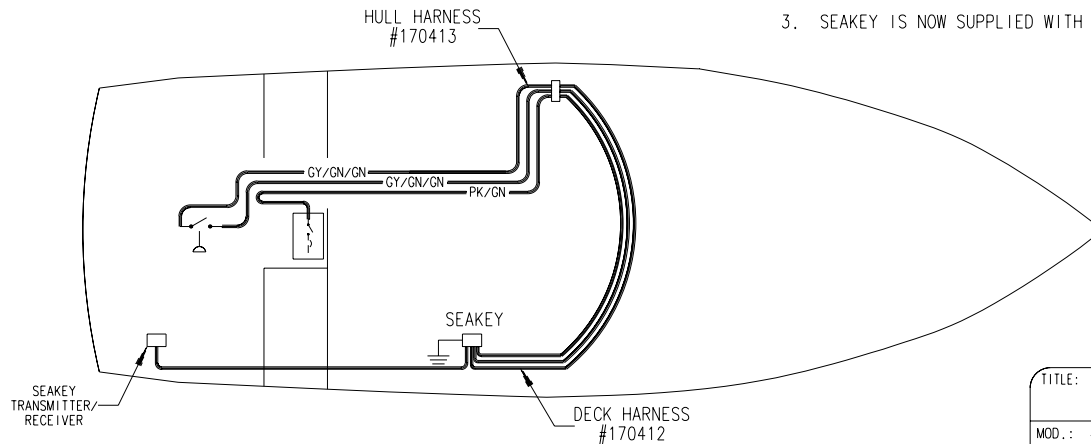
GN/BK/RD



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TO OPERATE:

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



TITLE: SEAKEY

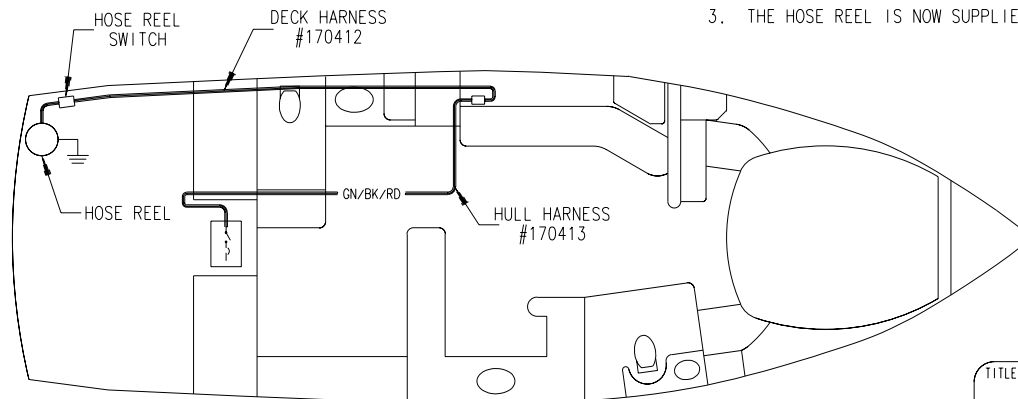
MOD.: 47Y

DR BY: JAW

70A

TO OPERATE:

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



TITLE: HOSE REEL

MOD.: 47Y

DR BY: JAW

70B

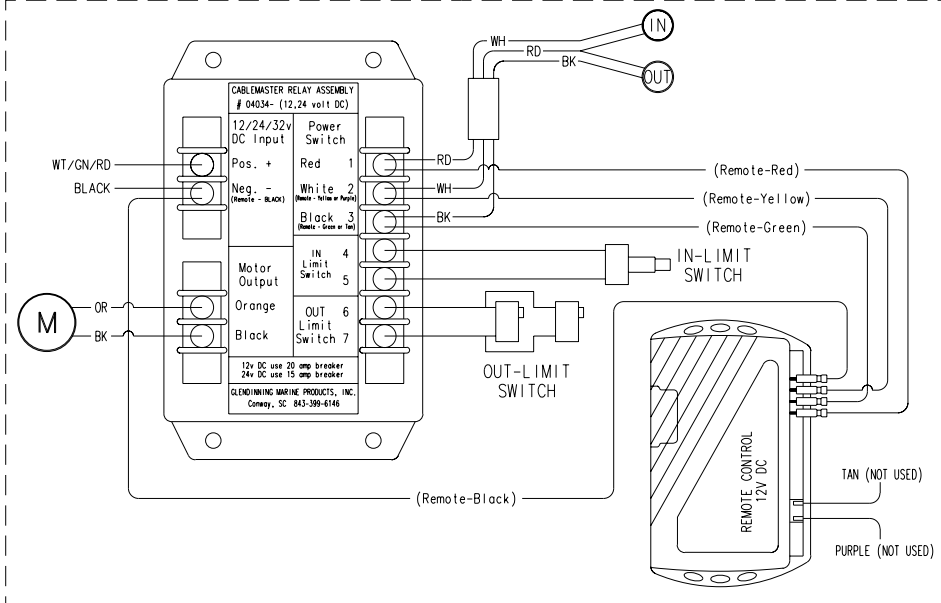
# LEGEND

GROUND 

BREAKER 

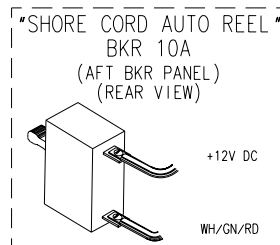
SWITCH 

PLUGS 

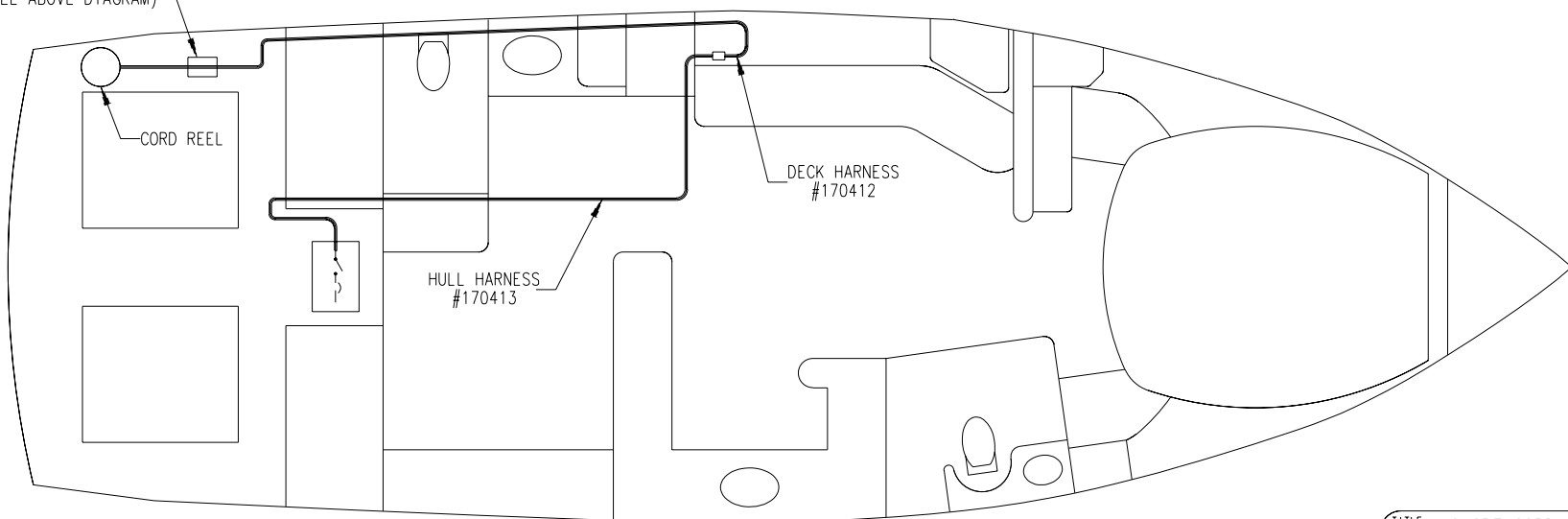


TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: SHORE CORD  
AUTO REEL

MOD.: 47Y  
DR BY: JAW

71

# LEGEND


GROUND 

PLUGS 

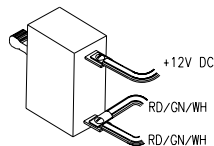
BREAKER 

SPEAKER 

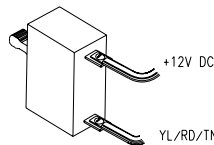
SOLENOID 

PLEX BLOCK 

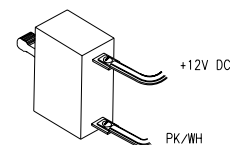
"COCKPIT STEREO" BKR 15A  
(CABIN AC/DC PANEL)  
(REAR VIEW)



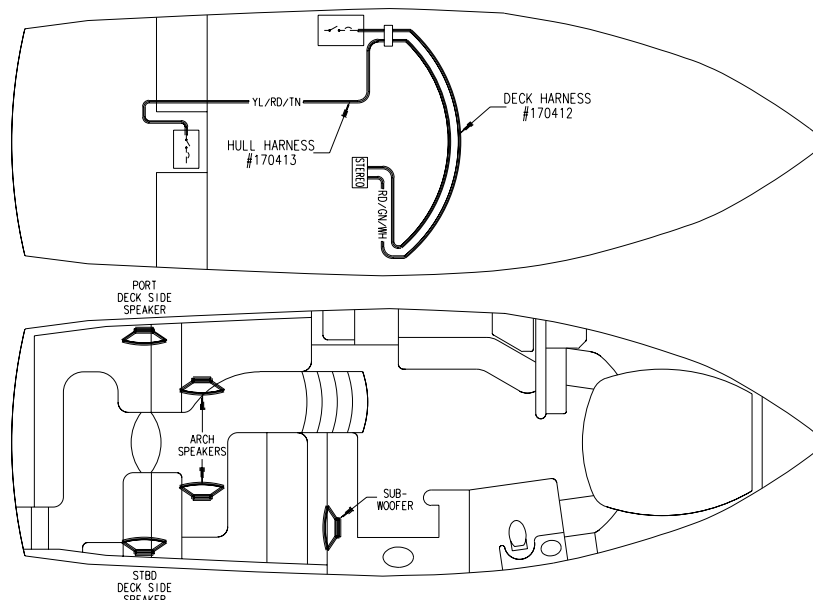
"STEREO MEMORY" BKR 20A  
(AFT BKR PANEL)  
(REAR VIEW)



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



THUNDERBIRD  
PRODUCTS  
ENGINEERING



TO OPERATE:

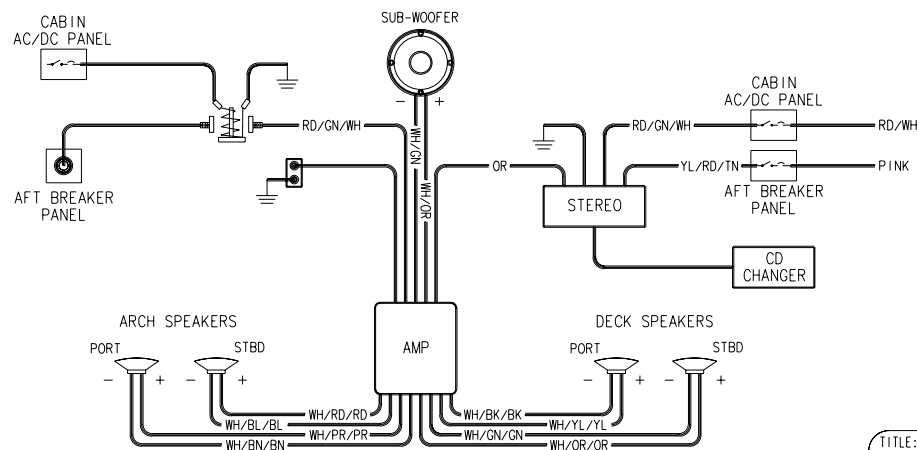
1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" SWITCH ON.
2. AT THE AFT BKR PANEL, SWITCH THE "STEREO MEMORY" AND "COCKPIT STEREO AMP" BREAKERS TO "ON".
3. THE COCKPIT STEREO SYSTEM IS NOW SUPPLIED WITH 12 VOLTS DC AND READY FOR OPERATION.
4. SEE STEREO'S OPERATING MANUAL FOR INSTRUCTIONS ON OPERATING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

TITLE: COCKPIT STEREO,  
COMPONENT LOCATION

MOD.: 47Y

DR BY: JAW

72A



TITLE: COCKPIT STEREO,  
COMPLETE WIRING




MOD.: 47Y

DR BY: JAW

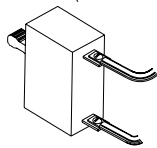
72B



# LEGEND

GROUND	
BREAKER	
SPEAKER	

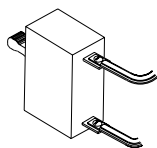
"OWNER STATERM STEREO"  
BKR 15A  
(AC/DC BKR PANEL)  
(REAR VIEW)



+12V DC

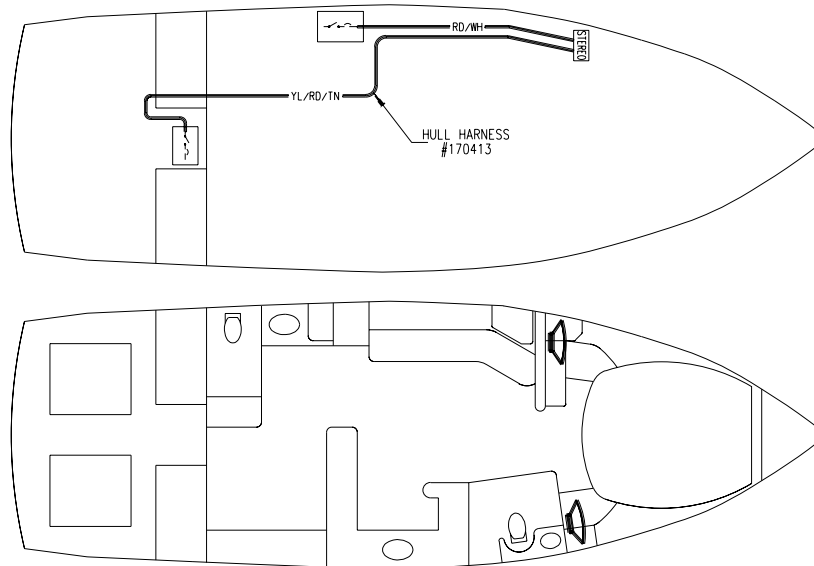
RD/WH

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



+12V DC

YL/RD/TN



TO OPERATE:

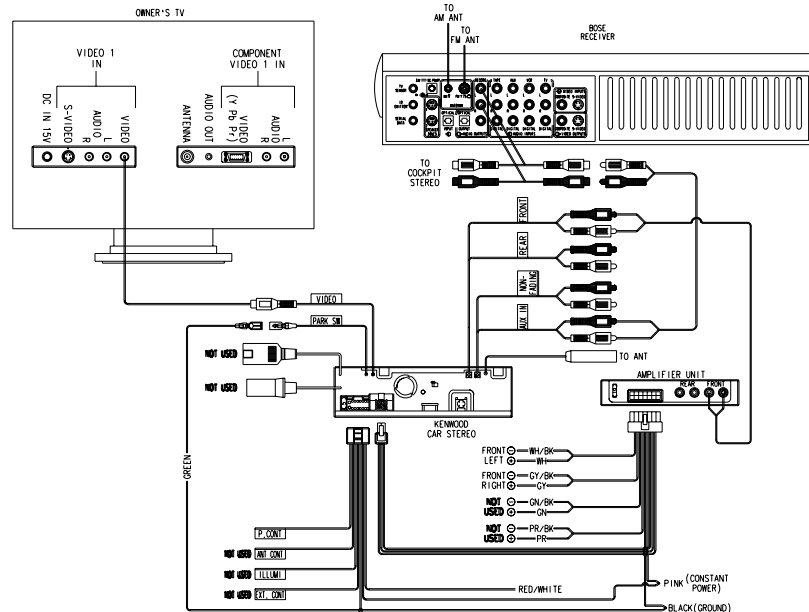
1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" SWITCH ON.
2. AT THE AFT DC PANEL, SWITCH THE "STEREO MEMORY" BREAKER TO "ON".
3. AT THE CABIN AC/DC PANEL, SWITCH THE "OWNER STATERM STEREO" BREAKER TO "ON".
4. THE OWNER STATEROOM STEREO IS NOW SUPPLIED WITH 12 VOLTS DC AND IS READY FOR OPERATION.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

TITLE: OWNER STEREO,  
COMPONENT LOCATION

MOD.: 47Y

DR BY: JAW

73A



TITLE: OWNER STEREO,  
COMPLETE WIRING

MOD.: 47Y

DR BY: JAW

73B



THUNDERBIRD  
PRODUCTS  
ENGINEERING

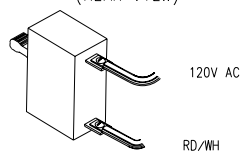
# LEGEND

GROUND 

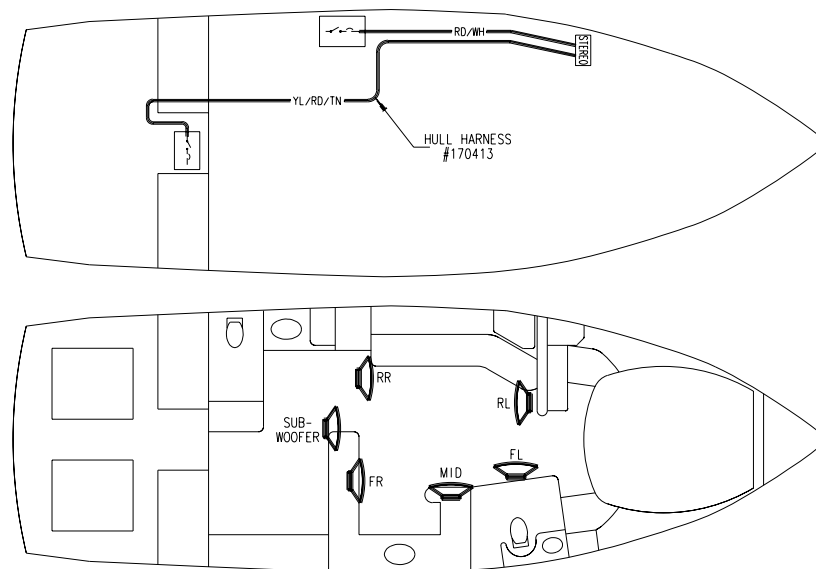
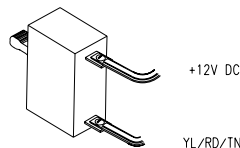
BREAKER 

SPEAKER 

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



\*STEREO MEMORY\* BKR 20A  
(AFT BKR PANEL)  
(REAR VIEW)



TO OPERATE:

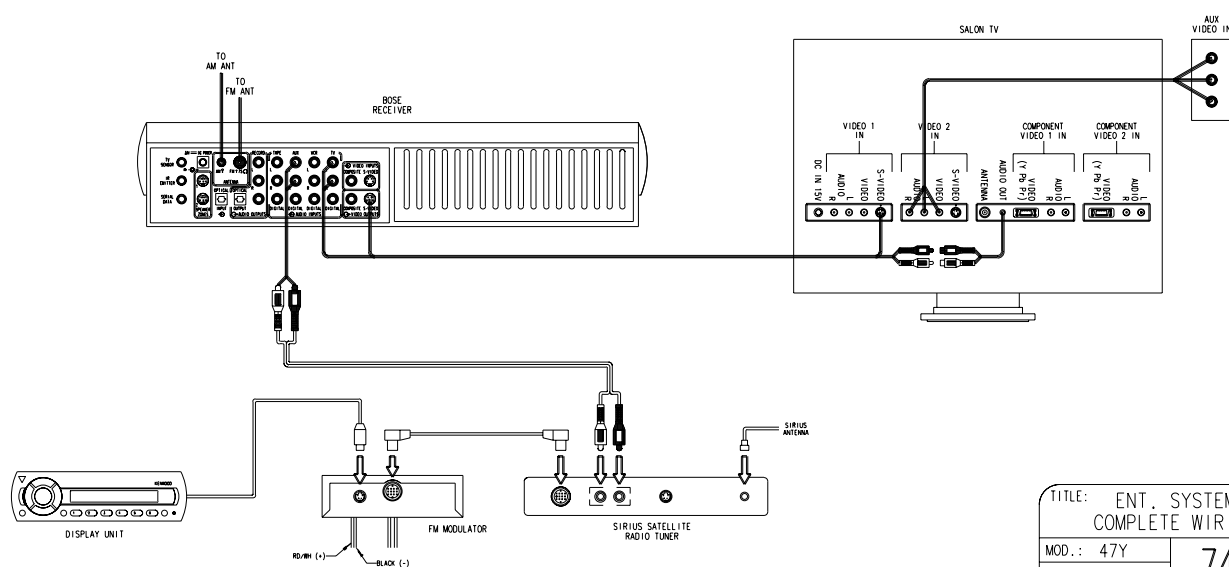
1. LOCATED UNDER THE WET BAR, TURN THE \*BATTERY AUX\* SWITCH ON.
2. AT THE AFT DC PANEL, SWITCH THE \*STEREO MEMORY\* BREAKER TO \*ON\*.
3. AT THE CABIN AC/DC PANEL, SWITCH THE \*ENTERTAINMENT SYSTEM\* BREAKER TO \*ON\*.
4. THE SALON ENTERTAINMENT SYSTEM IS NOW SUPPLIED WITH 12 VOLTS DC AND IS READY FOR OPERATION.
5. SEE SALON ENTERTAINMENT SYSTEM OPERATING MANUAL FOR INSTRUCTIONS ON OPERATING STEREO FUNCTIONS. (ALSO SEE PAGE 09B.)

TITLE: ENT. SYSTEM,  
COMPONENT LOCATION

MOD.: 47Y

DR BY: JAW

74A



TITLE: ENT. SYSTEM,  
COMPLETE WIRING

MOD.: 47Y

DR BY: JAW

74B



THUNDERBIRD  
PRODUCTS  
ENGINEERING

# LEGEND

BREAKER  
PANEL



PUMP



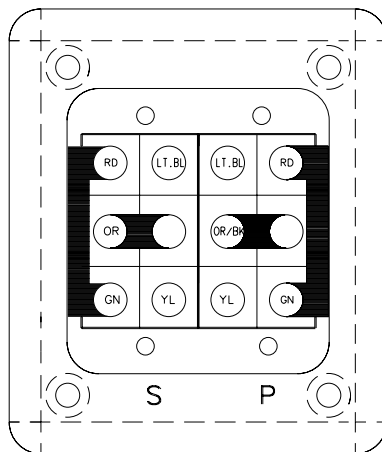
PLUGS



GROUND



## TRIM TAB SWITCHES (TRIM TAB PANEL) (REAR VIEW)



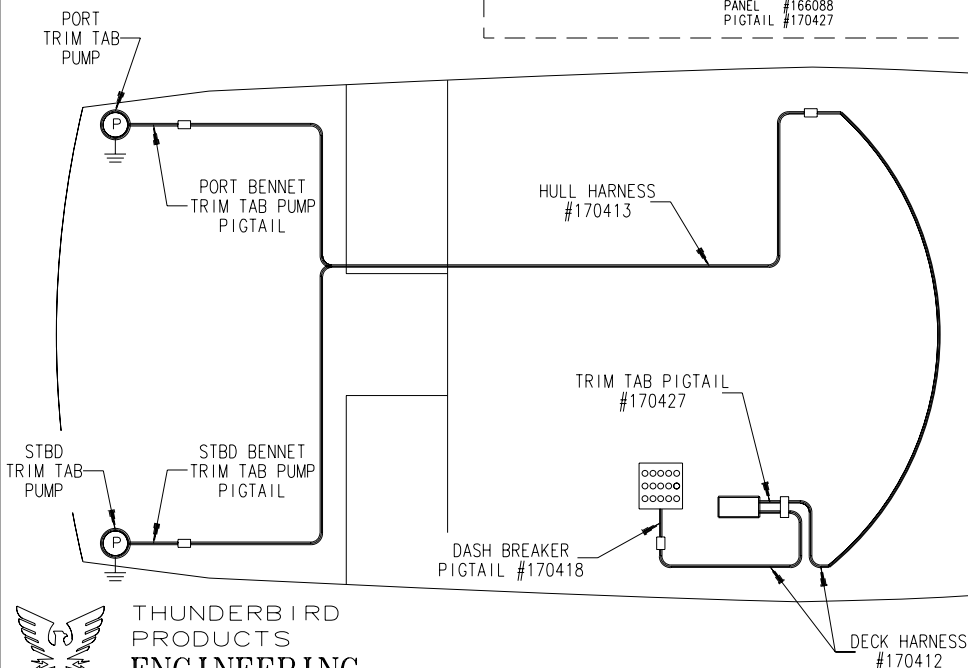
PANEL #166088  
PIGTAIL #170427

### TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.: 47Y

DR BY: JAW

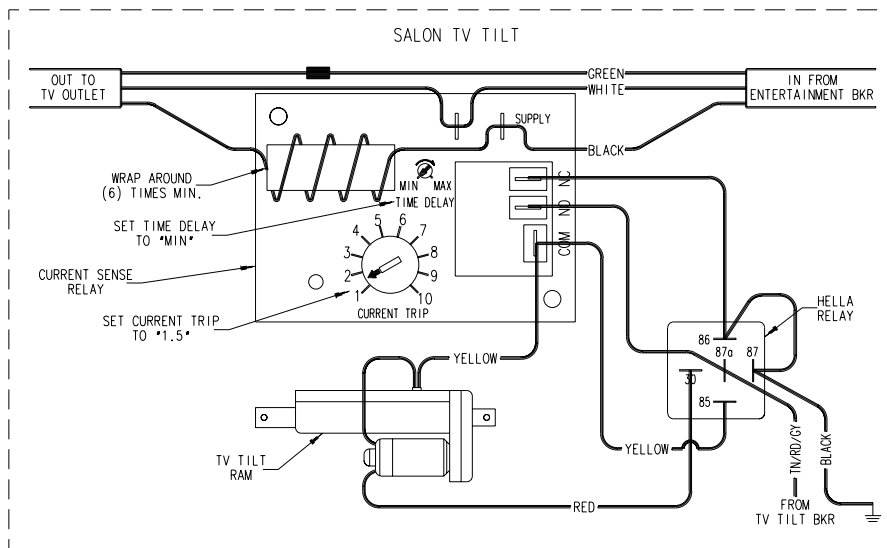
75

# LEGEND

PLUGS 

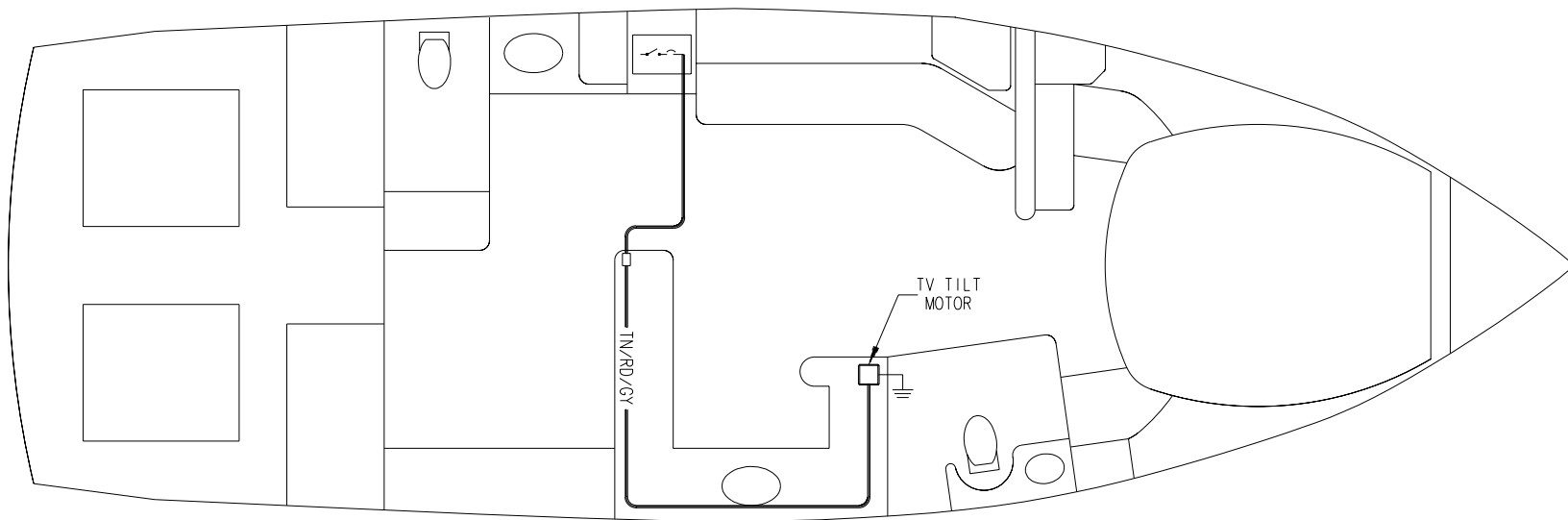
BREAKER 

GROUND 



## TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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 "ENTERTAINMENT SYSTEM" BREAKER TO "ON".
4. AT THE AC/DC PANEL, SWITCH THE "SALON TV TILT" BREAKER TO "ON".
5. THE TELEVISION WILL TILT OUT WHEN POWER IS TURNED "ON".
6. THE TELEVISION WILL TILT IN WHEN POWER IS TURNED "OFF".



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: TV TILT,  
SALON


MOD.: 47Y  
DR BY: JAW

76

# LEGEND

PLUGS □ □

BREAKER PANEL 

GROUND 

SOLENOID 

FUSE 

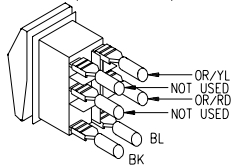
MOTOR 

BREAKER 

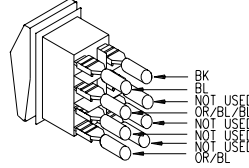
DPDT SWITCH 

SWITCH 

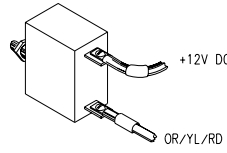
"WNDLS ON/OFF" SWITCH  
(ACCESSORY PANEL)  
(REAR VIEW)



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

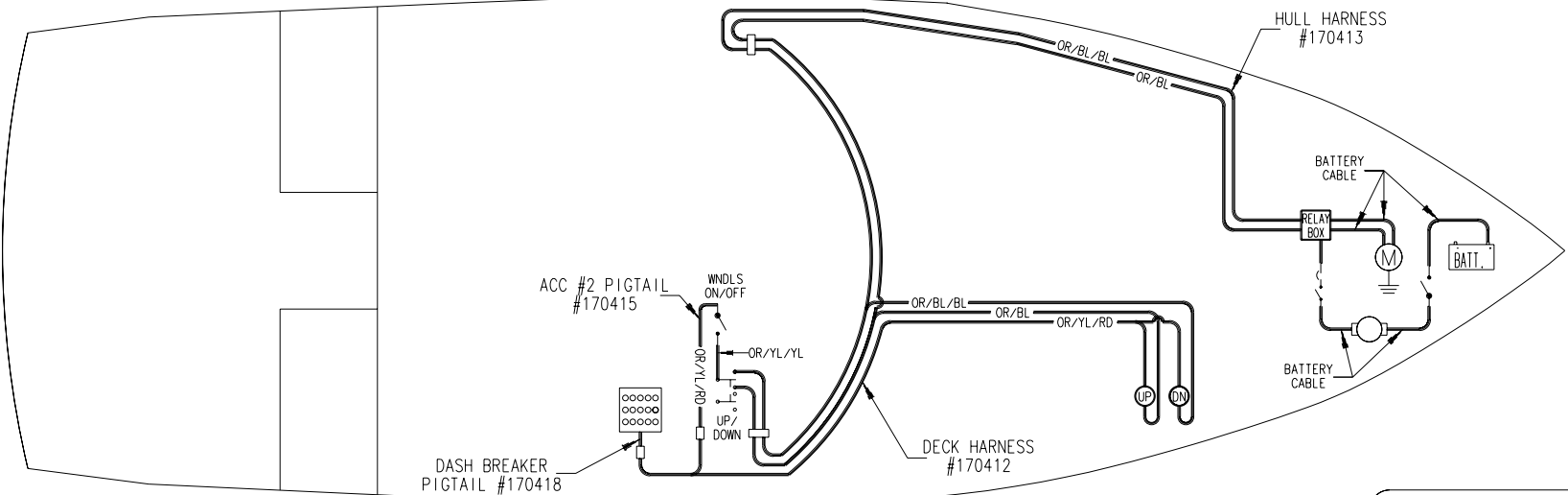
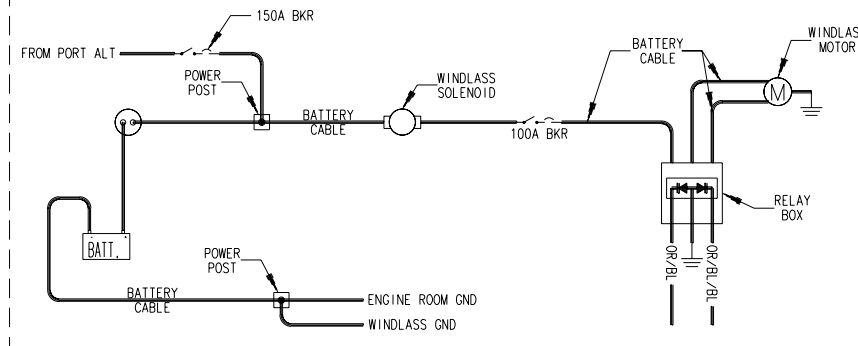


"WNDLS/THRSTR" BKR 15A  
(DASH BKR PANEL)  
(REAR VIEW)












TO OPERATE:

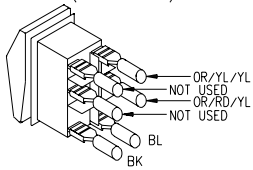
1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" SWITCH ON.
2. AT THE DASH BREAKER PANEL, THE "WNDLS/THRSTR" BREAKER MUST BE PUSHED IN (CLOSED).
3. SWITCH "WNDLS ON/OFF" SWITCH TO "ON".
4. WINDLASS CAN NOW BE OPERATED BY THE "WIND UP/DOWN" SWITCH LOCATED ON THE ACCESSORY PANEL, OR BY THE "UP" OR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



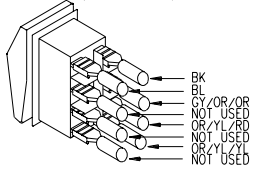
# LEGEND

PLUGS	
BREAKER PANEL	
GROUND	
SOLENOID	
FUSE	
MOTOR	
BREAKER	
DPDT SWITCH	
SWITCH	

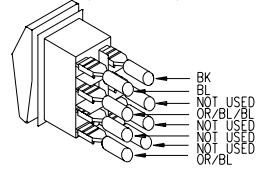
"WINDLS ON/OFF" SWITCH  
(ACCESSORY PANEL)  
(REAR VIEW)



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

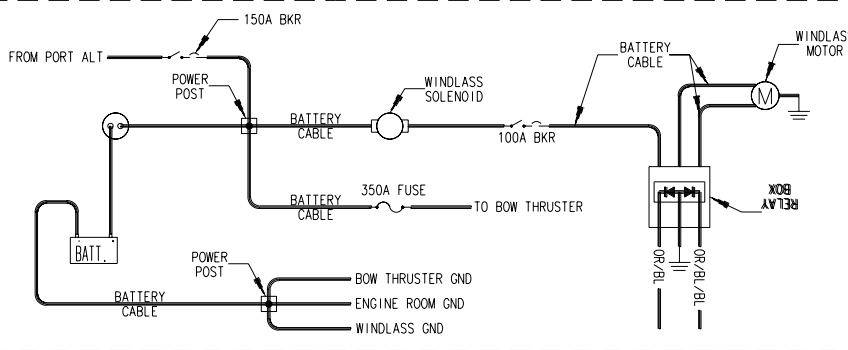


"WIND UP/DOWN" SWITCH  
(ACCESSORY PANEL)  
(REAR VIEW)

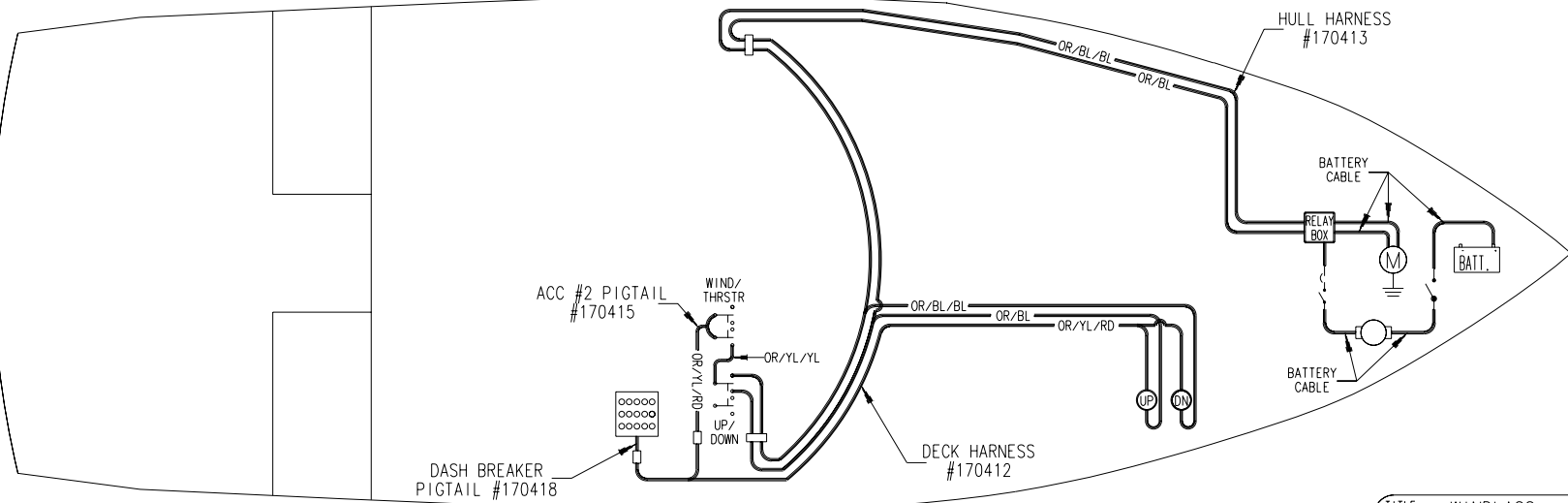
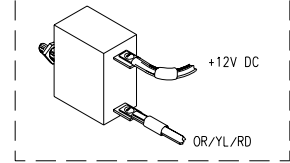


TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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)



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: WINDLASS, WITH BOW THRUSTER	
MOD.: 47Y	78
DR BY: JAW	

# LEGEND

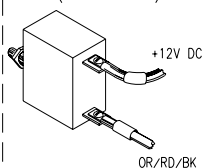
GROUND 

PLUGS 

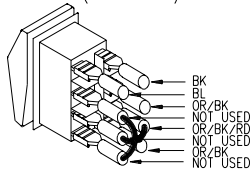
BREAKER PANEL 

DPDT SWITCH 

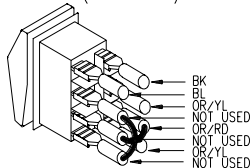
"PORT WIPER" BKR 10A  
(DASH BKR PANEL)  
(REAR VIEW)



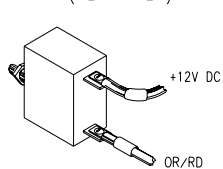
"WIPER PORT" SWITCH  
(ACCESSORY PANEL)  
(REAR VIEW)



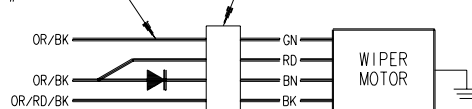
"WIPER STBD" SWITCH  
(ACCESSORY PANEL)  
(REAR VIEW)



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



HULL HARNESS  
#170413



CONNECTOR

WIPER MOTOR

ACC #1 PIGTAIL  
#170414

DASH BREAKER  
PIGTAIL #170414

DECK HARNESS  
#170412

WIPER MOTOR

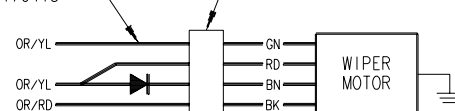
TITLE: WIPER, PORT  
MOD.: 47Y  
DR BY: JAW

79A

TO OPERATE:

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

HULL HARNESS  
#170413



CONNECTOR

WIPER MOTOR

ACC #1 PIGTAIL  
#170414

DASH BREAKER  
PIGTAIL #170414

DECK HARNESS  
#170412

WIPER MOTOR

TITLE: WIPER, STBD  
MOD.: 47Y  
DR BY: JAW

79B

TO OPERATE:


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



THUNDERBIRD  
PRODUCTS  
ENGINEERING

# LEGEND

GROUND 

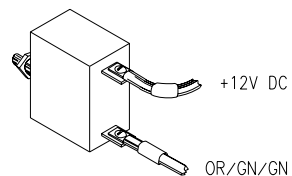
SWITCH 

BREAKER  
PANEL 

PLUGS 

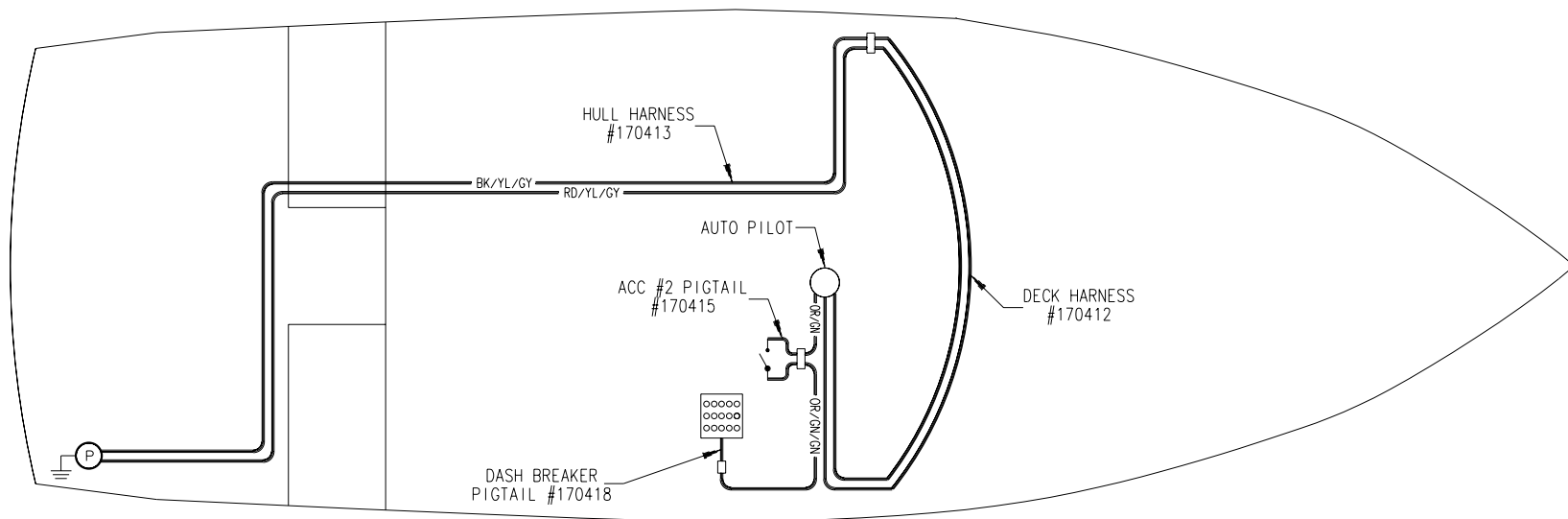
PUMP 

"AUTO PILOT" BKR 25A  
(DASH BKR PANEL)  
(REAR VIEW)



TO OPERATE:

1. LOCATED UNDER THE WET BAR, TURN THE "BATTERY AUX" 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.



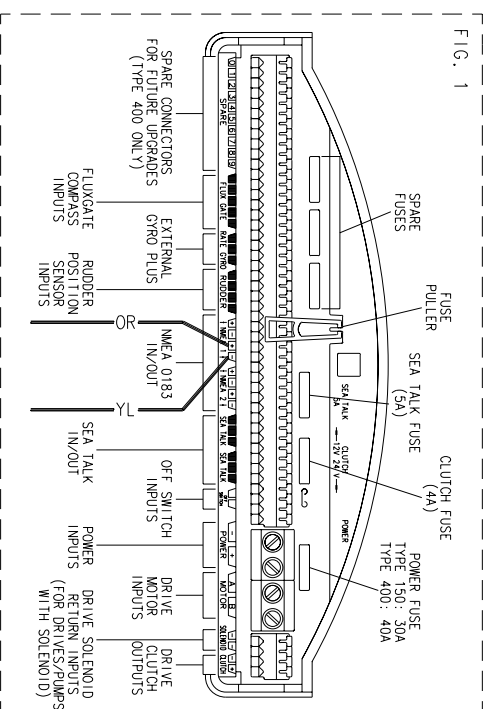
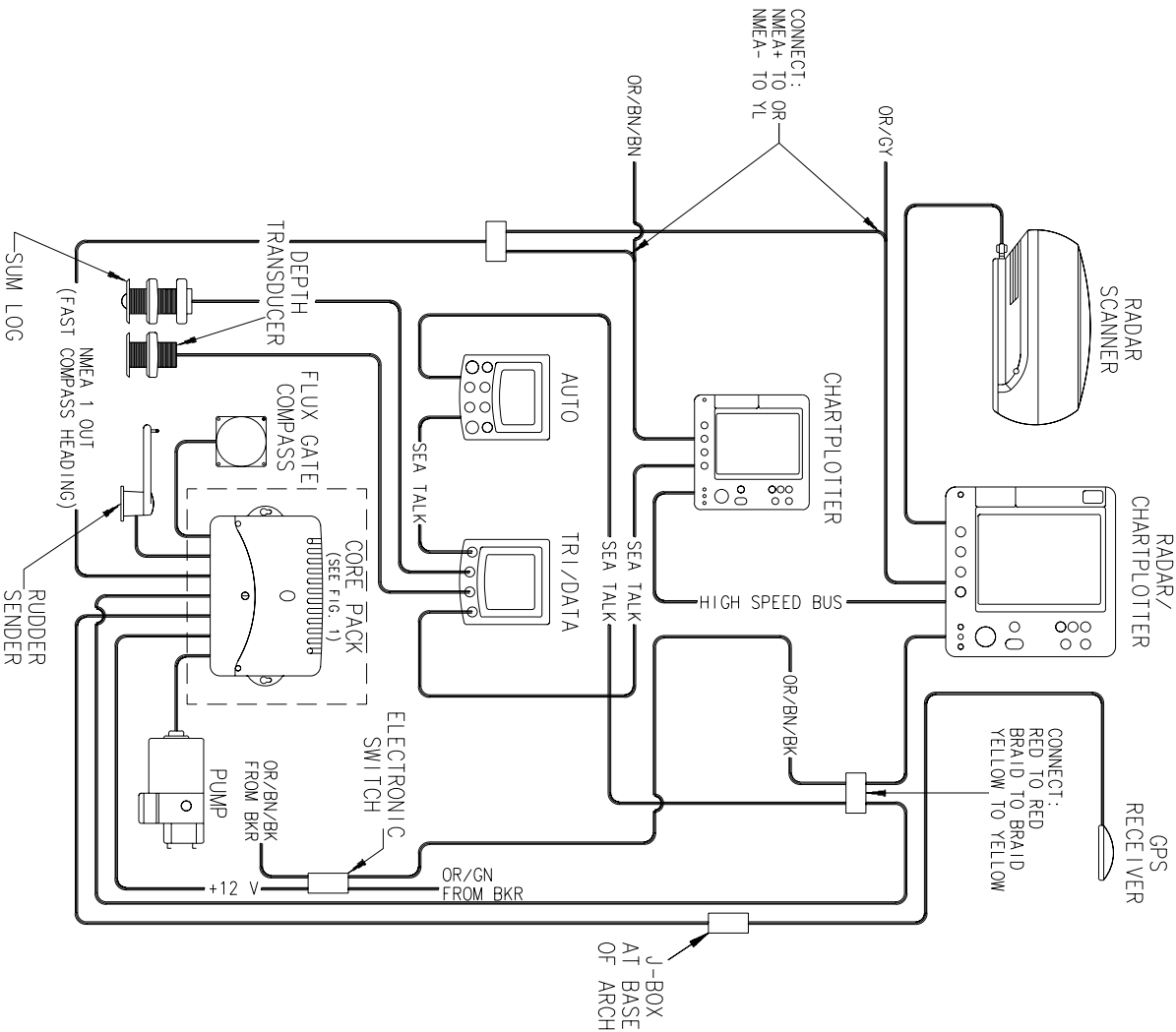
THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: AUTO PILOT

MOD.: 47Y  
DR BY: JAW

80



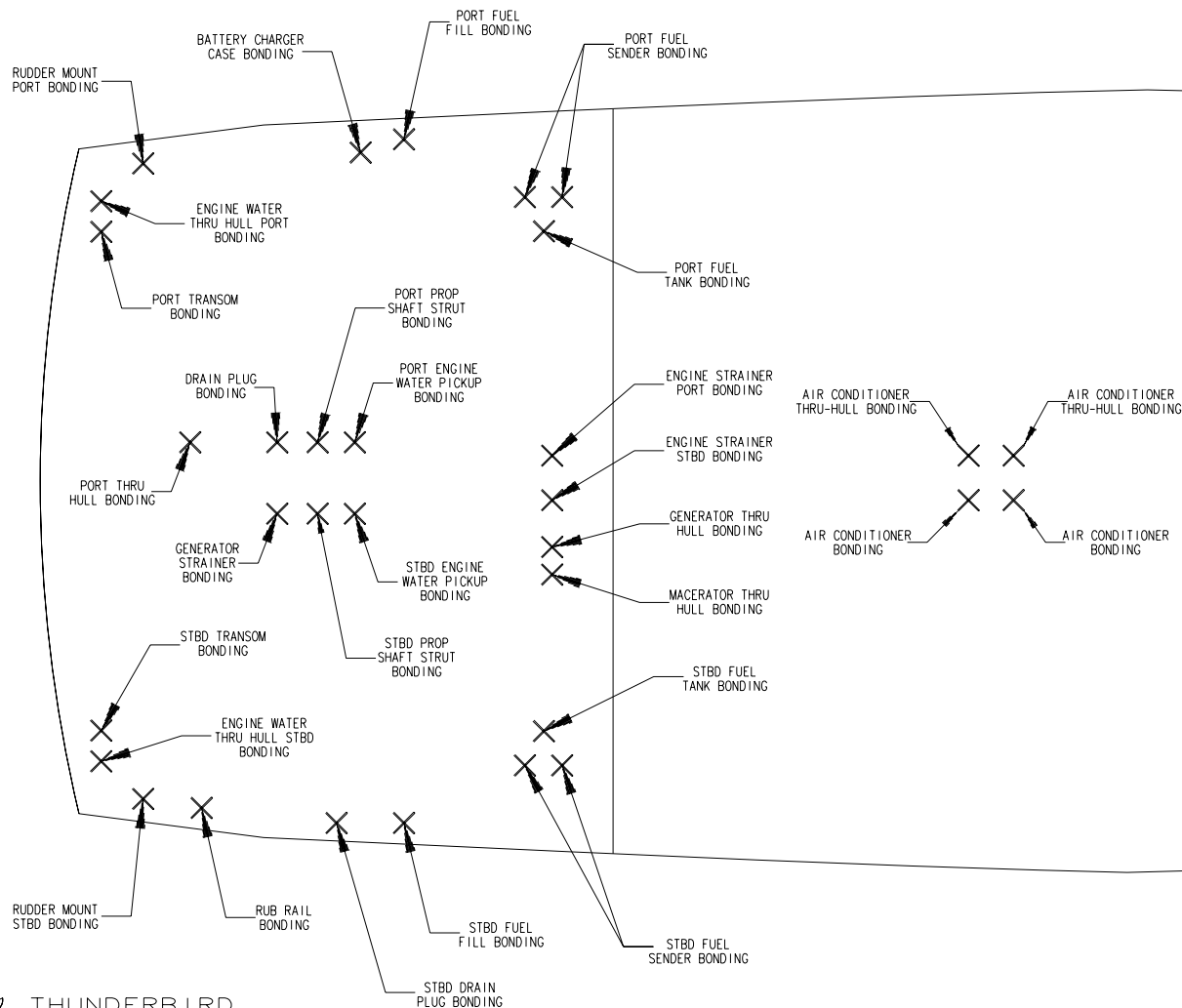


# LEGEND

GROUND



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



THUNDERBIRD  
PRODUCTS  
ENGINEERING

TITLE: BONDING

MOD.: 47Y  
DR BY: JAW

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