353 FASTech WIRE DIAGRAM INDEX

THUNDERBIRD PRODUCTS ENGINEERING

01

WIRE COLORS AND ABBREVIATIONS

```
BLACK    ----------BK
BLUE     ----------BL
BROWN    ----------BN
GRAY     ----------GY
GREEN    ----------GN
ORANGE   ----------OR
PINK     ----------PK
PURPLE   ----------PR
RED      ----------RD
TAN      ----------TN
WHITE    ----------WT
YELLOW   ----------YL
```

COMMON COLOR CODES

BL/RD/RD

NOTE:

COLOR OF WIRE MAY HAVE LT. OR DK. BEFORE THE COLOR CODE. THIS STATES THAT THE WIRE IS EITHER LIGHT OR DARK COLORED.

EXAMPLE: LT.BL/BK = LIGHT BLUE WIRE WITH A BLACK STRIPE.

CODE	COLOR	STRIPE	STRIPE
BK	BLACK		
BL/RD/RD	BLUE	RED	RED
BN/WT/RD	BROWN	WHITE	RED
GY/BN/BN	GRAY	BROWN	BROWN
GN/BL/BL	GREEN	BLUE	BLUE
OR/RD/BN	ORANGE	RED	BROWN
PK/RD	PINK	RED	
PR/WT/WT	PURPLE	WHITE	WHITE
RD/PK	RED	PINK	
TN/RD	TAN	RED	
WT/PR	WHITE	PURPLE	
YL	YELLOW		

353 FASTech HARNESS AND PIGTIAL #'S

HARNESSES
DECK HARNESS.............................61521

HULL HARNESS.............................61522

PIGTAIL
AC/DC PANEL.............................61523

ACCESSORY PANEL.........................61316

AFT CIRCUIT BREAKER......................9115

BOLSTER SEAT............................7328

DASH CIRCUIT BREAKER....................61320

HEAD PIGTAIL...........................61981

IGNITION PANEL.........................61315

INSTRUMENT PANEL........................6704

K-PLANE...............................103447

STEREO L-PAD...........................61231

V-BERTH................................6060

THUNDERBIRD
PRODUCTS
ENGINEERING

120V AC SCHEMATIC (Diagram 04A)

Components and labels:
- GN, WT, BK (main supply wires)
- ACC. 15A
- CABIN OUTLET 15A
- REFRIG 15A
- BATT. CHGR. 20A
- BK
- BLACK WIRES TO THEIR RESPECTIVE APPLIANCES
- AC AVAILABLE LIGHT (GREEN)
- REVERSE POLARITY LIGHT
- GN, WT
- MAIN 30A
- MAIN 30A
- VOLT COIL
- BK, WT, BK, WT, GN
- TO THE NEUTRAL WIRE TERMINAL
- TO THE GALVANIC ISOLATOR AND SAFETY GREEN WIRE TERMINAL

TITLE: 120V AC SCHEMATIC
MOD.: 353 FASTech
DR BY: SAJ
04A

220V AC SCHEMATIC (Diagram 04B)

Components and labels:
- GN/YL, BL, BN (main supply wires)
- ACC. 15A
- CABIN OUTLET 15A
- REFRIG 15A
- BATT. CHGR. 15A
- BN
- BROWN WIRES TO THEIR RESPECTIVE APPLIANCES
- AC AVAILABLE LIGHT (GREEN)
- REVERSE POLARITY LIGHT
- GN/YL, BL
- MAIN 16A
- MAIN 16A
- VOLT COIL
- BN, BL, BN, BL
- TO THE NEUTRAL WIRE TERMINAL
- TO THE GALVANIC ISOLATOR AND SAFETY GREEN/YELLOW WIRE TERMINAL

THUNDERBIRD PRODUCTS ENGINEERING

TITLE: 220V AC SCHEMATIC
MOD.: 353 FASTech
DR BY: SAJ
04B

LEGEND

BREAKER	⚡
3 WIRE AC CONDUCTOR	—

CAUTION!
HIGH VOLTAGE

15A FUSE

AC WIRE CONNECTIONS

(BR) BLACK
WHITE
(BL)
GREEN
(GN/YL)

40A FUSES

DC WIRE CONNECTIONS

RED
RED
BLACK

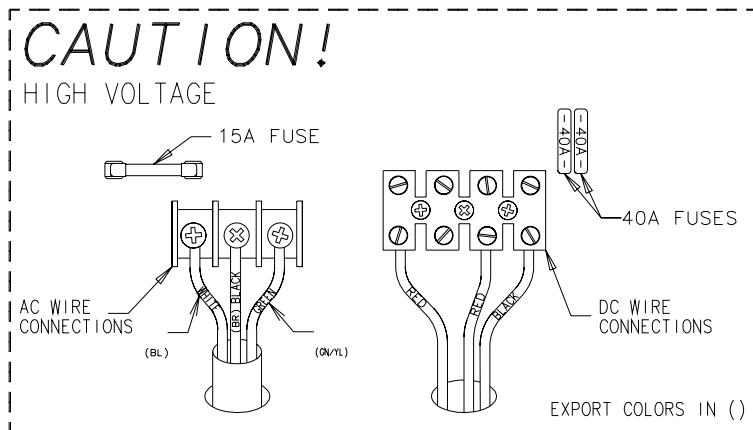EXPORT COLORS IN ( )
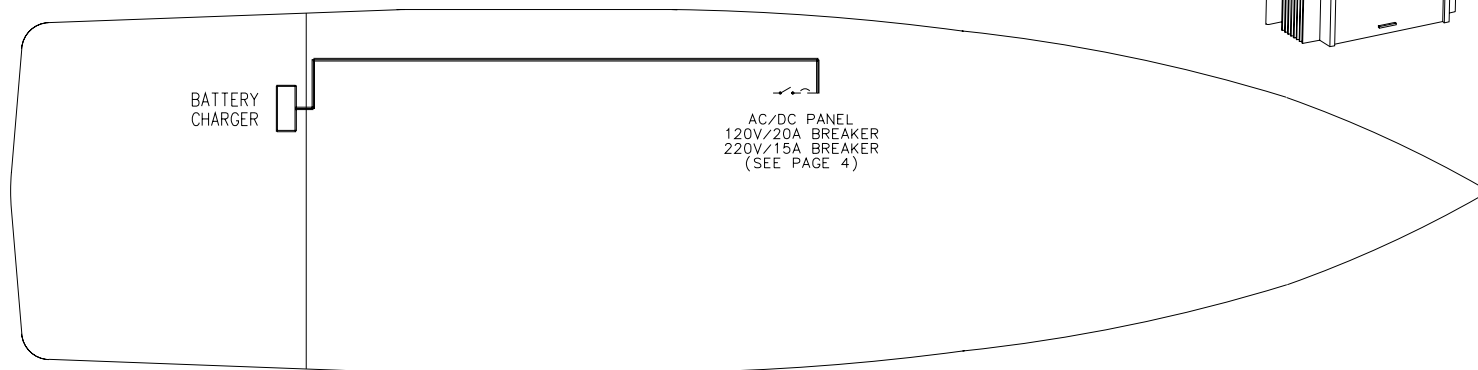
TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.
2. MAKE SURE THE BOAT IS SUPPLIED WITH SHOREPOWER
3. ON THE AC/DC PANEL IN THE CABIN. SWITCH THE "BATTERY CHARGER" BREAKER TO "ON".
4. CHECK FACE OF BATTERY CHARGER FOR GREEN 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.

C-CHARGER

50 AMP
5000 SERIES

BATTERY CHARGER

AC/DC PANEL
120V/20A BREAKER
220V/15A BREAKER
(SEE PAGE 4)

THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE:	BATTERY CHARGER
MOD.:353 FASTech	
DR BY:SAJ	05

LEGEND

BREAKER SWITCH	⌁
GFCI OUTLET	■
OUTLET	●

120V AC GFCI OUTLET

BLACK (TO NEXT OUTLET)

WHITE (TO NEXT OUTLET)

HOT — LOAD — WHITE

HOT — LINE — WHITE

BLACK (AC HOT)

WHITE (FROM WHITE NEUTRAL BUSS)

GREEN

120 AC OUTLET (REAR VIEW)

WHITE

BLACK

GREEN (SAFETY GROUND)
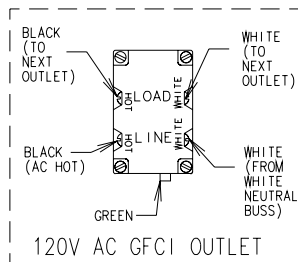
220V AC OUTLET (REAR VIEW)

BLUE

BROWN

GREEN/YELLOW (SAFETY GROUND)
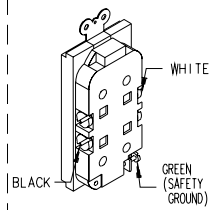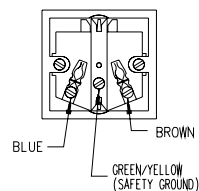
THUNDERBIRD PRODUCTS
ENGINEERING

TO OPERATE:

1. MAKE SURE THE BOAT IS SUPPLIED WITH SHOREPOWER.

2. LOCATED BEHIND THE COCKPIT SLIDING STORAGE DOOR (STBD SIDE), SWITCH SHOREPOWER BREAKER TO "ON".

3. ON THE AC/DC PANEL IN THE CABIN, SWITCH AC "MAIN" BREAKER TO "ON".

4. ON THE AC/DC PANEL, SWITCH THE "CABIN OUTLETS" BREAKER TO "ON".

5. THE CABIN OUTLET IS NOW SUPPLIED WITH 120V/220V AC POWER.

AC/DC PANEL
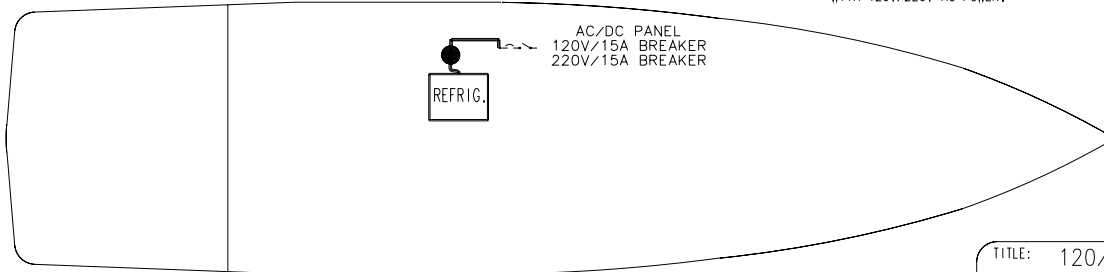120V/15A BREAKER
220V/15A BREAKER
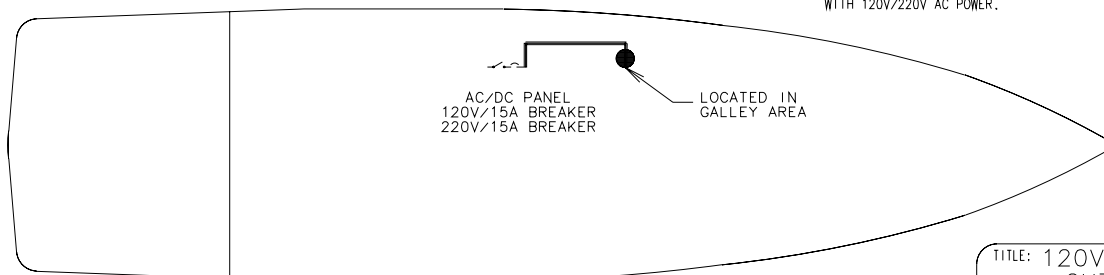
LOCATED IN GALLEY AREA

NOTE:

SEE PAGE 36A FOR 12V OPERATING USE. REFRIGERATOR SHOULD USE 120V/220V POWER WHEN POSSIBLE TO MAXIMIZE REFRIGERATION.

TO OPERATE:

1. MAKE SURE THE BOAT IS SUPPLIED WITH SHOREPOWER.

2. LOCATED BEHIND THE COCKPIT SLIDING STORAGE DOOR (STBD SIDE), SWITCH SHOREPOWER BREAKERS TO "ON".

3. ON THE AC/DC PANEL IN THE CABIN, SWITCH AC "MAIN" BREAKER TO "ON".

4. ON THE AC/DC PANEL, SWITCH THE 120V/220V "REFRIG." BREAKER TO "ON".

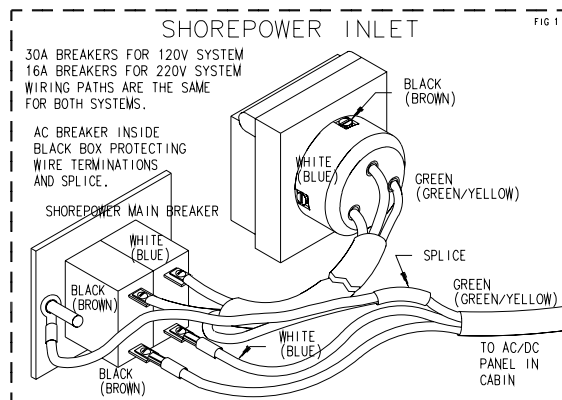5. THE REFRIGERATOR IS NOW SUPPLIED WITH 120V/220V AC POWER.

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

REFRIG.

SHOREPOWER INLET

FIG 1

30A BREAKERS FOR 120V SYSTEM
16A BREAKERS FOR 220V SYSTEM
WIRING PATHS ARE THE SAME
FOR BOTH SYSTEMS.

AC BREAKER INSIDE
BLACK BOX PROTECTING
WIRE TERMINATIONS
AND SPLICE.

SHOREPOWER MAIN BREAKER

BLACK
(BROWN)

WHITE
(BLUE)

GREEN
(GREEN/YELLOW)

SPLICE

GREEN
(GREEN/YELLOW)

TO AC/DC
PANEL IN
CABIN

WHITE
(BLUE)

BLACK
(BROWN)

WHITE
(BLUE)

BLACK
(BROWN)

*(READ THIS COMPLETLEY BEFORE OPERATING)

TO OPERATE:

1. BEFORE PLUGGING INTO SHOREPOWER SWITCH "OFF" ALL
   AC EQUIPMENT AND MAIN BREAKER ON AC/DC PANEL
   IN CABIN. ALSO SWITCH "OFF" SHOREPOWER MAIN
   BREAKER BEHIND AFT COCKPIT LOUNGE SEAT (STBD
   SIDE).

2. PLUG BOAT'S SHOREPOWER CORD INTO SHOREPOWER.

3. LOCATED BEHIND THE COCKPIT SLIDING STORAGE DOOR
   (STBD SIDE), SWITCH SHOREPOWER MAIN BREAKER TO
   "ON".

4. IN CABIN, SWITCH SHOREPOWER BREAKER TO "ON".
      WARNING !
   IF REVERSED POLARITY LIGHT IS "ILLUMINATED"
   -DO NOT TOUCH ELECTRICAL APPLIANCES
   -LEAVE SHIP IMMEDIATELY
   -DISCONNECT ALL SHORE POWER
   ALSO:
   -CONTACT MARINA TO HAVE SHOREPOWER
    TESTED FOR REVERSED POLARITY.
   -CONTACT FORMULA'S TECHNICAL ASSISTANCE
    GROUP FOR ADDITIONAL ASSISTANCE.

5. WHEN THE MAIN BREAKER IS ON AND THE REVERSE
   POLARITY LIGHT ISN'T ILLUMINATED ALL AC
   EQUIPMENT BREAKERS ARE SUPPLIED WITH 120/220V
   AC POWER

6. EQUIPMENT IS OPERATIONAL WHEN THE BREAKER
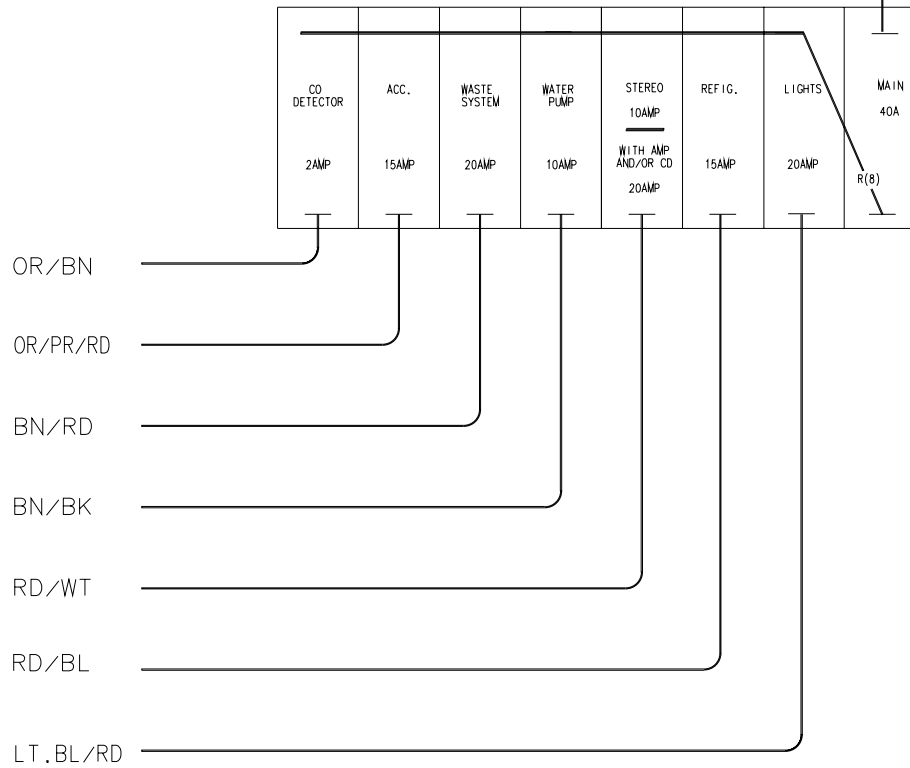   BEARING THE EQUIPMENT'S NAME IS "ON".

AC/DC PANEL
120V/30A BREAKER
220V/16A BREAKER

SHOREPOWER INLET
(SEE FIG 1)

SHOREPOWER MAIN BREAKER
(COCKPIT STBD STORAGE)
(SEE FIG. 1)
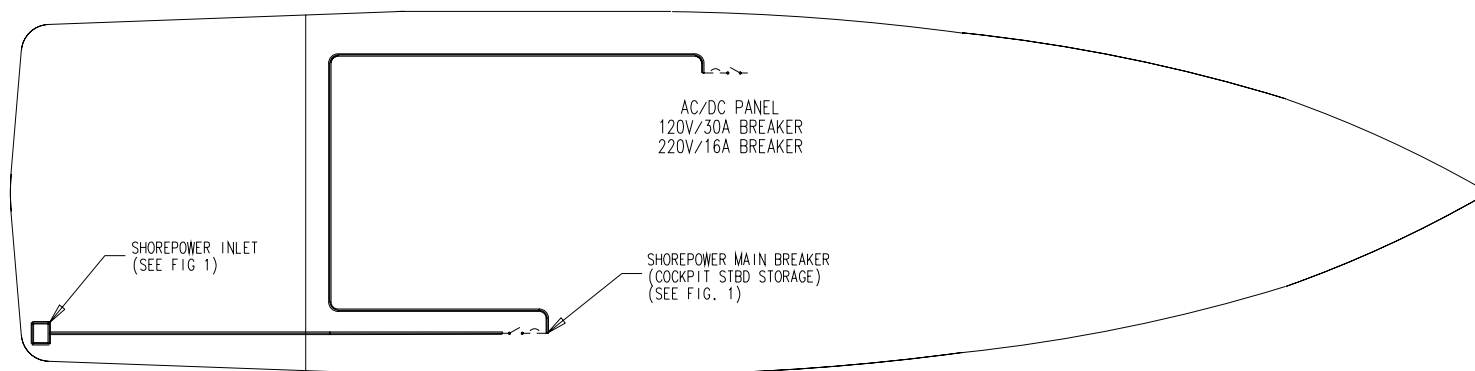
THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: SHOREPOWER

MOD.: 353 FASTech

DR BY: SAJ

07

+12V DC FROM
PLEX BLOCK

CO DETECTOR	ACC.	WASTE SYSTEM	WATER PUMP	STEREO 10AMP WITH AMP AND/OR CD 20AMP	REFIG.	LIGHTS	MAIN 40A
2AMP	15AMP	20AMP	10AMP		15AMP	20AMP	R(8)

OR/BN

OR/PR/RD

BN/RD

BN/BK

RD/WT

RD/BL

LT.BL/RD

DC PANEL
(REAR VIEW)

LEGEND

GROUND	⏚
BREAKER	⊞
FLOAT SWITCH	⌐•⌐
ALARM	≣◁
PLUG	▯

10 SECOND DELAY MODULE

FIG. 1

2 AMP

ORANGE/WHITE/RED

HIGH WATER ALARM CIRCUIT BREAKER LOCATED ON AFT BREAKER PANEL.

HIGH WATER ALARM FLOAT SWITCH.

ORANGE/WHITE/BLACK

GRAY

BLUE

RED

BLACK

RED

BLACK

HIGH WATER ALARM LOCATED UNDER DASH

HIGH WATER ALARM DELAY MODULE MOUNTED UNDER DASH NEAR ALARM UNIT.

GROUND TO BOAT'S ELECTRICAL SYSTEM.
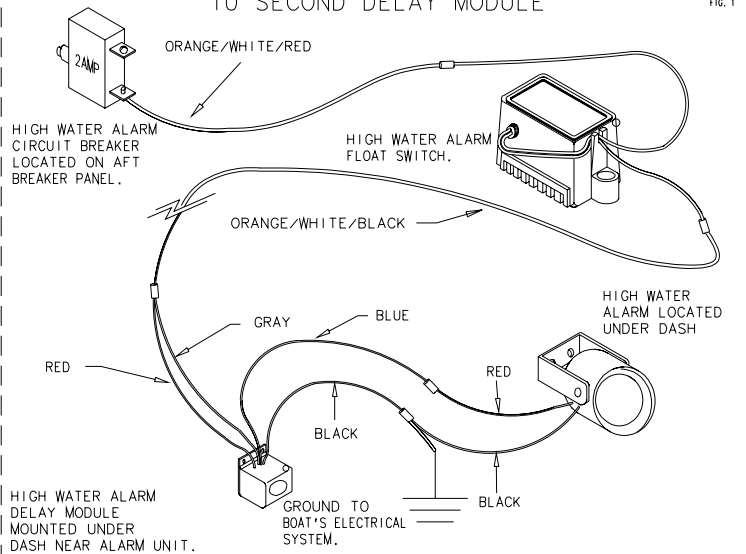
NOTE:

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 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.

ENGINE AREA

AFT BREAKER PIGTAIL #9115

OR/WH/RD

OR/WH/BK

HULL HARNESS #61522

DECK HARNESS #61521

DELAY MODULE

OR/WH/BK
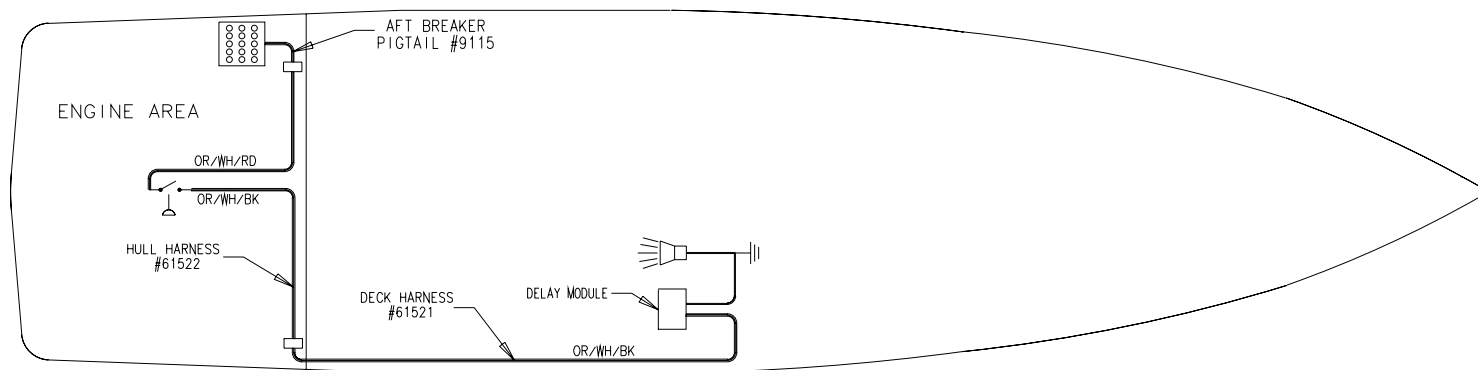
THUNDERBIRD PRODUCTS ENGINEERING

TITLE: HIGH WATER ALARM

MOD.: 353 FASTech

DR BY: SAJ

09

LEGEND

BATTERY	BATT.
ALTERNATOR	ALT
BREAKER PANEL	

BATT. SELECTOR SWITCH
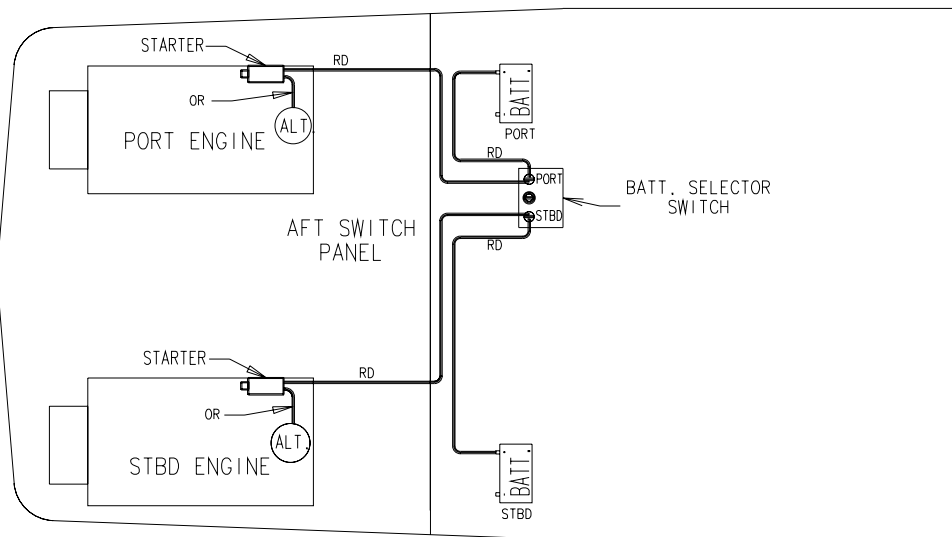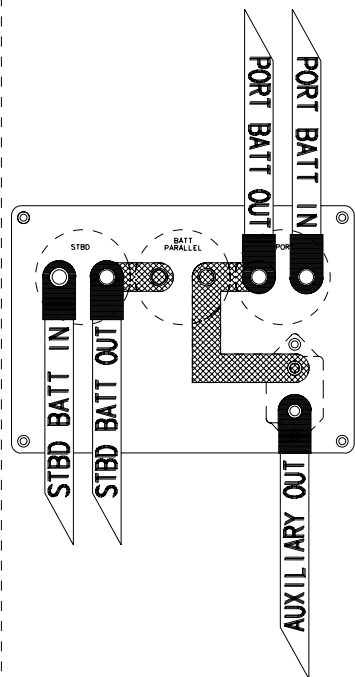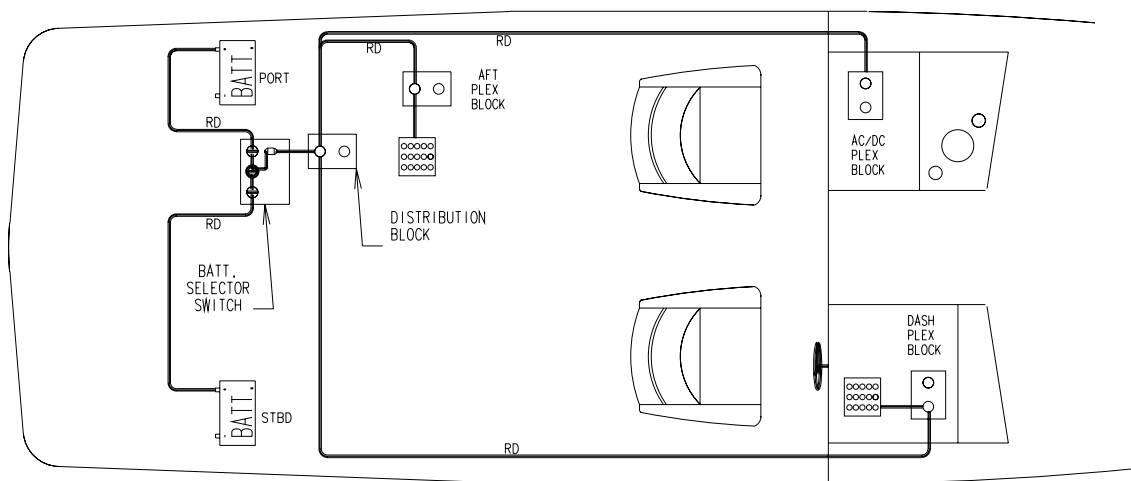
PORT BATT IN
PORT BATT OUT
STBD BATT IN
STBD BATT OUT
AUXILIARY OUT
STBD
BATT PARALLEL
PORT

STARTER
OR
ALT
PORT ENGINE
RD

STARTER
OR
ALT
STBD ENGINE
RD

AFT SWITCH PANEL

BATT. PORT
BATT. STBD

RD
PORT
STBD
RD
RD

BATT. SELECTOR SWITCH

BATT. PORT
RD
RD
RD
AFT PLEX BLOCK

RD
BATT. SELECTOR SWITCH
DISTRIBUTION BLOCK

BATT. STBD
RD

AC/DC PLEX BLOCK

DASH PLEX BLOCK

LEGEND

GROUND	⏚
BREAKER	▦
PLUGS	▯ ▭
BLOWER	⊗

BLOWER BKR 5A
(AFT BKR PANEL)
(REAR VIEW)

YL

YL
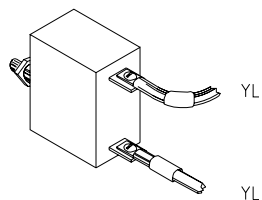
BLOWER BKR 15A
(DASH BKR PANEL)
(REAR VIEW)

+ 12V DC

YL/BN/RD
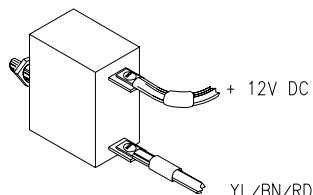
BLOWER SWITCH
(IGNITION PANEL)
(REAR VIEW)

YL

YL/BN/RD

BL

BK
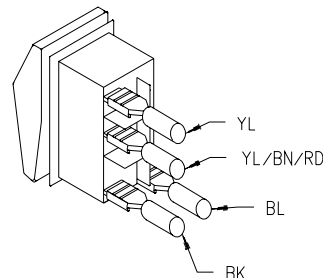
WARNING!

GASOLINE VAPORS CAN EXPLODE,
BEFORE STARTING ENGINES:
-CHECK ENGINGE BILGE FOR GASOLINE
 VAPORS
-OPERATE BLOWERS FOR 4 MINUTES
 RUN BLOWERS BELOW CRUISING SPEED.

TO OPERATE:

1. LOCATED UNDER COCKPIT FLIP-UP SEAT,
   TURN THE PORT BATTERY SWITCH TO "ON".

2. ON THE DASH BREAKER PANEL, THE "BILGE
   BLOWER" BREAKER MUST BE PUSHED IN
   (CLOSED).

3. ON THE AFT BREAKER PANEL, BOTH OF THE
   "BLOWER" BREAKERS MUST BE PUSHED IN
   (CLOSED).

4. THE BLOWERS CAN NOW BE OPERATED BY THE
   "BLOWER" SWITCH ON THE IGNITION PANEL.

BLOWER
UNIT

YL

AFT BREAKER
PIGTAIL #9115

HULL HARNESS
#61522

YL

DECK HARNESS
#61521

DASH BREAKER
PIGTAIL #61320

YL

YL/RD/BN

ACCESSORY
PIGTAIL #61316
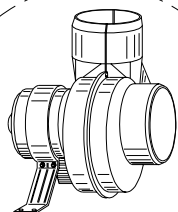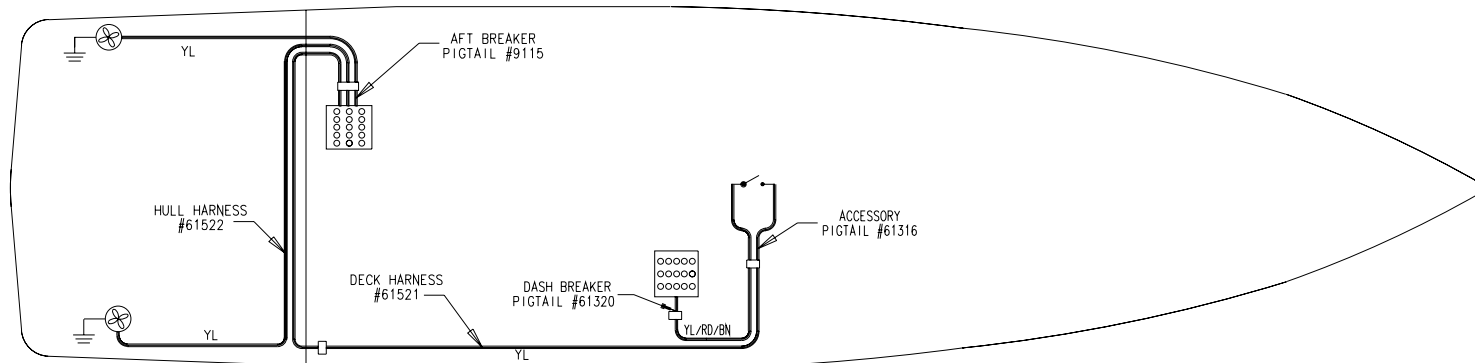
THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE:	BLOWERS, ENGINE BILGE
MOD.: 353 FASTech	
DR BY: SAJ	11

LEGEND

GROUND	⏚
BREAKER PANEL	⊞
BLOWER	⊕
PLUG	▭
SWITCH	⌁

HEAD BLOWER
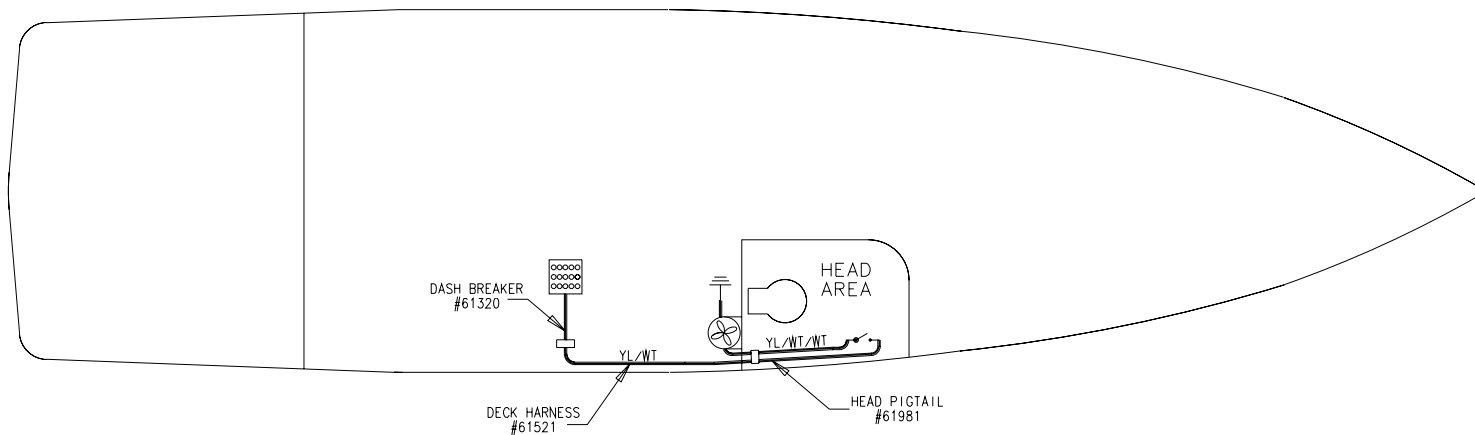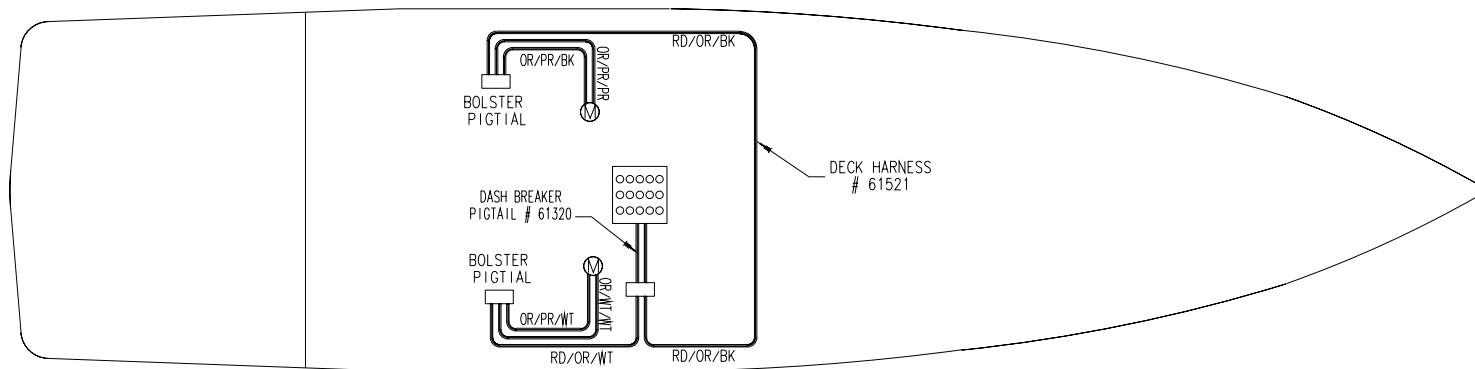SWITCH
(REAR VIEW)

YL/WT/WT
YL/WT
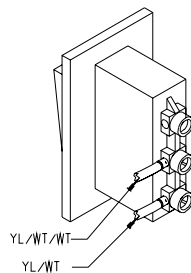
BLOWER BKR 5A
(DASH BKR PANEL)
(REAR VIEW)
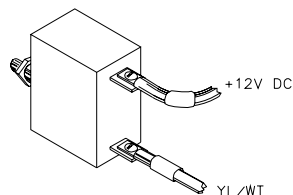
+12V DC

YL/WT

TO OPERATE:

1. LOCATED UNDER COCKPIT FLIP-UP SEAT, TURN THE PORT BATTERY SWITCH TO "ON".

2. ON THE DASH BREAKER PANEL, THE "HEAD BLOWER" BREAKER MUST BE PUSHED IN (CLOSED).

3. THE "BLOWER" CAN NOW BE OPERATED BY THE BLOWER SWITCH IN THE HEAD.

DASH BREAKER
#61320

HEAD
AREA

YL/WT/WT

YL/WT

DECK HARNESS
#61521

HEAD PIGTAIL
#61981

THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE:	BLOWER, HEAD
MOD.: 353 FASTech	12
DR BY: SAJ	

LEGEND

GROUND	⏚
DASH BREAKER	⊞
PLUG	▭
MOTOR	Ⓜ

PORT BOLSTER SEAT 25A
(DASH BKR PANEL)
(REAR VIEW)

+12V

RD/OR/WT
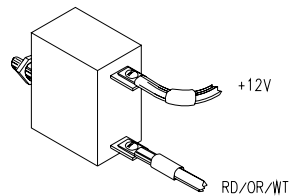
STBD BOLSTER SEAT 25A
(DASH BKR PANEL)
(REAR VIEW)

+12V

RD/OR/BK
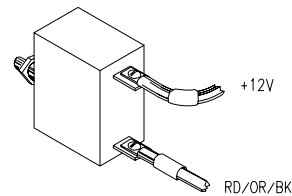
TO OPERATE:

1. LOCATED UNDER COCKPIT AFT FLIP UP SEAT, TURN THE PORT BATTERY SWITCH TO "ON".

2. ON DASH BREAKER PANEL, THE "FOOT/SEAT" BREAKERS MUST BE PUSHED IN (CLOSED).

3. THE BOLSTER SEAT AND FOOT REST CAN NOW BE RAISED AND LOWERED BY THE SWITCHES, LOCATED ON EACH SEAT'S ARM REST.

OR/PR/BK

OR/PR/PR

RD/OR/BK

BOLSTER PIGTIAL

DECK HARNESS # 61521

DASH BREAKER PIGTAIL # 61320

BOLSTER PIGTIAL

OR/WT/WT

OR/PR/WT

RD/OR/WT

RD/OR/BK

THUNDERBIRD PRODUCTS
ENGINEERING

LEGEND

GROUND	⏚
BREAKER PANEL	⊞
BLOWER	⊗
PLUG	⊂⊃
SWITCH	⟍⟋

ELECTRONIC'S BKR 5A
(DASH BKR PANEL)
(REAR VIEW)

+12V DC

YL/WT/RD
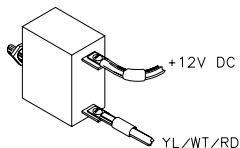
ENG. HATCH BKR 20A
(DASH BKR PANEL)
(REAR VIEW)
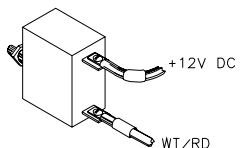
+12V DC

WT/RD

ENGINE HATCH SWITCH
(IGNITION PANEL)
(REAR VIEW)
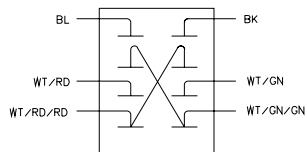
BL		BK
WT/RD		WT/GN
WT/RD/RD		WT/GN/GN

THUNDERBIRD
PRODUCTS
ENGINEERING

TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.
2. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, PORT SIDE, TURN THE PORT BATTERY SWITCH TO "ON".
3. ON THE DASH BREAKER PANEL THE "ELECTRONICS" BREAKER MUST BE PUSHED IN (CLOSED).
4. THE DEPTH SOUNDER CAN NOW BE OPERATED BY THE "DEPTH" SWITCH ON THE ACCESSORY PANEL.
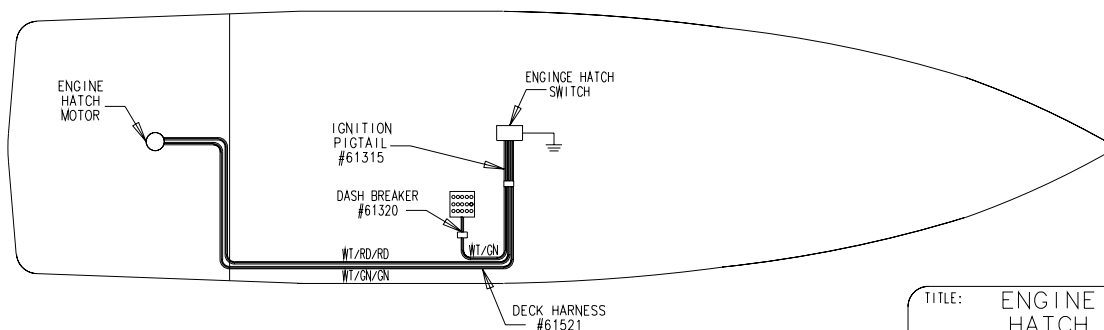
BATT.

ACCESSORY PIGTAIL #61316

K-PLANE PIGTIAL #61322

DASH BREAKER #61320

OR/BN/BK

OR/BN/BK

DECK HARNESS #61521
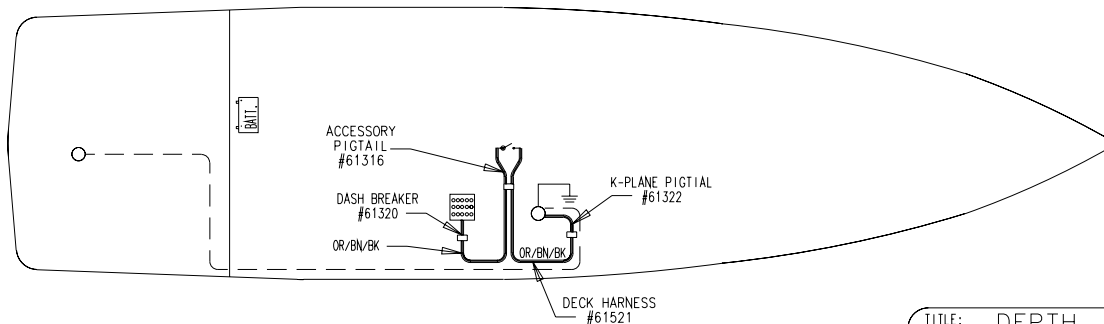
TITLE:	DEPTH SOUNDER	
MOD.: 353 FASTech		14A
DR BY: SAJ		

TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.
2. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, PORT SIDE, TURN THE PORT BATTERY SWITCH TO "ON".
3. ON THE DASH BREAKER PANEL THE "ENGINE HATCH" BREAKER MUST BE PUSHED IN (CLOSED).
4. THE ENGINE HATCH CAN NOW BE OPERATED BY THE "ENGINE HATCH" SWITCH ON THE IGNITION PANEL.

ENGINE HATCH MOTOR

ENGINGE HATCH SWITCH

IGNITION PIGTAIL #61315

DASH BREAKER #61320

WT/RD/RD

WT/GN

WT/GN/GN

DECK HARNESS #61521

TITLE:	ENGINE HATCH	
MOD.: 353 FASTech		14B
DR BY: SAJ		

LEGEND

GROUND	⏚
HALON LIGHT	◯
PLUG	▯
FIRE EXTINGUISHER	
IGNITION	◯

LABEL REPRESENTS THE PRESENCE OF A DRY CHEMICAL EXTINGUISHER WITHIN

OPERATION:

THE HALON INDICATOR LIGHT IS POWERED BY THE STARTING BATTERY WHEN THE IGNITION SWITCH IS IN THE "ON" POSITION. THE LIGHT INDICATES TO THE OPERATOR THERE IS SUFFICIENT PRESSURIZATION TO EXPEL THE AGENT OF THE ENGINE COMPARTMENT EXTINGUISHER. THE UNIT DOES NOT REQUIRE 12 VOLTS TO EXPEL THE AGENT.
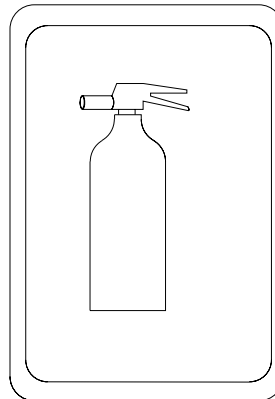
PORT SIDE STORAGE COMPARTMENT

LOCATED IN CABINET BESIDE REFRIG

IGNITION PANEL PIGTAIL # 65164

HALON LIGHT

PORT IGNITION SWITCH

PR/BK

RD/BK

HALON LOCATED IN BILGE AREA

NOTE:

IGNITION IS SUPPLIED WITH 12V DC FROM THE START BATTERY. (SEE IGNITION CIRCUITS)

HULL HARNESS # 61522

DECK HARNESS # 61521

OR/RD/RD
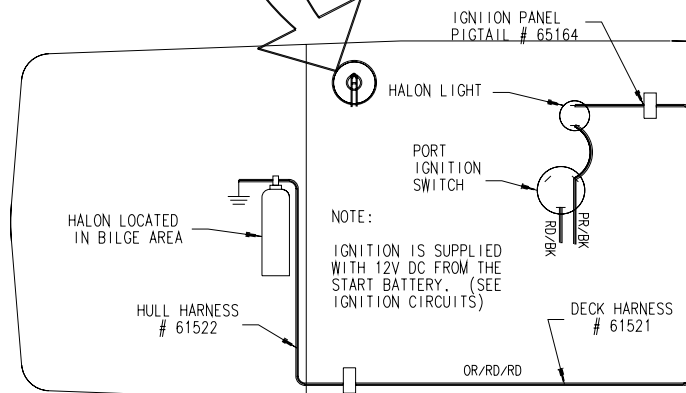
THUNDERBIRD PRODUCTS ENGINEERING

TITLE:	FIRE SYSTEM
MOD.: 353FASTech	
DR BY: SAJ	15

LEGEND

GROUND	⏚
PLUG	▭
BREAKER	⌇
DASH BREAKER	▦

CO DETECTOR BKR 2A
(AC/DC PANEL)
(REAR VIEW)

+12V DC

OR/BN

ELECTRONICS BKR 10A
(DASH BKR PANEL)
(REAR VIEW)

+12V DC

OR/BN/RD
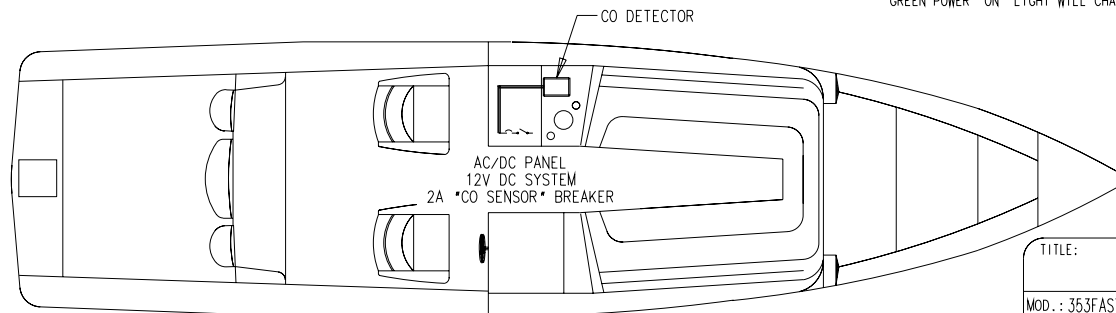
THUNDERBIRD PRODUCTS
ENGINEERING
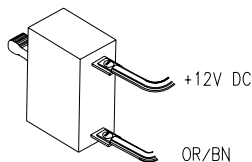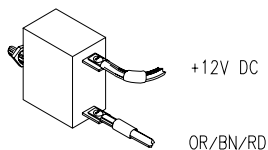
NOTE: THE CO DETECTOR PROVIDES AN AUDIBLE AND VISUAL ALARM IF CARBON MONOXIDE IS PRESENT IN THE CABIN AREA.

TO OPERATE:

READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.

1. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, TURN THE PORT BATTERY SWITCH TO "ON".

2. ON AC/DC PANEL IN THE CABIN, SWITCH THE "MAIN" AND "CO SENSOR" BREAKER TO "ON".

3. CHECK THE CO SENSOR 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 O.K., THE AUDIBLE ALARM WILL SOUND AND THE GREEN POWER "ON" LIGHT WILL CHANGE TO RED.

CO DETECTOR

AC/DC PANEL
12V DC SYSTEM
2A "CO SENSOR" BREAKER

TITLE: CO SENSOR
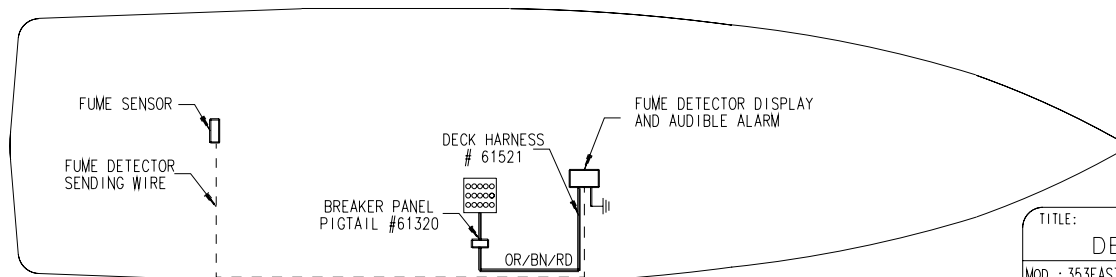MOD.: 353FASTech
DR BY: SAJ
16A

NOTE: THE FUME DETECTOR PROVIDES AN AUDIBLE AND VISUAL ALARM IF EXPLOSIVE GASES ARE PRESENT IN THE ENGINE BILGE AREA.

IN THE EVENT THE DETECTOR GOES INTO THE ALARM MODE, OPERATE THE ENGINE BLOWERS AND INSPECT FOR THE SOURCE.

TO OPERATE:

READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.

1. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, TURN THE PORT BATTERY SWITCH TO "ON".

2. ON DASH BREAKER PANEL THE "ELECTRONICS" BREAKER MUST BE PUSHED IN (CLOSED).

3. PRESS THE "ON" BUTTON LOCATED UPON THE DETECTOR FACE.

4. PRESS "TEST"

FUME SENSOR

FUME DETECTOR SENDING WIRE
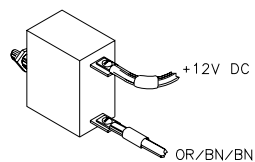
FUME DETECTOR DISPLAY AND AUDIBLE ALARM

DECK HARNESS # 61521

BREAKER PANEL PIGTAIL #61320

OR/BN/RD

TITLE: FUME DETECTOR
MOD.: 353FASTech
DR BY: SAJ
16B

LEGEND

GROUND	⏚
SWITCH	⊸⌇⊸
PLUG	▭
BREAKER PANEL	⊞

ELECTRONICS BKR 10A
(DASH BKR PANEL)
(REAR VIEW)

+12V DC

OR/BN/BN

HORN SWITCH
(IGNITION PANEL)
(REAR VIEW)

OR/WT/WT

OR/WT

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

+12V DC

OR/WH

THUNDERBIRD
PRODUCTS
ENGINEERING

TO OPERATE:

1. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, TURN THE PORT BATTERY SWITCH TO "ON".

2. ON DASH BREAKER PANEL, THE "ELECTRONICS" BREAKER MUST BE PUSHED IN (CLOSED).

3. THE GPS CAN NOW BE OPERATED.

GPS ANTENNA

GPS

IGNITION PANEL PIGTAIL #61315

BREAKER PANEL PIGTAIL #61320

OR/BN/BN

TITLE: GPS

MOD.: 353FASTech

DR BY: SAJ

17A
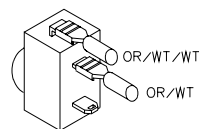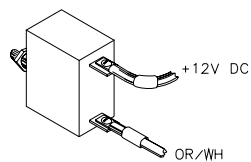
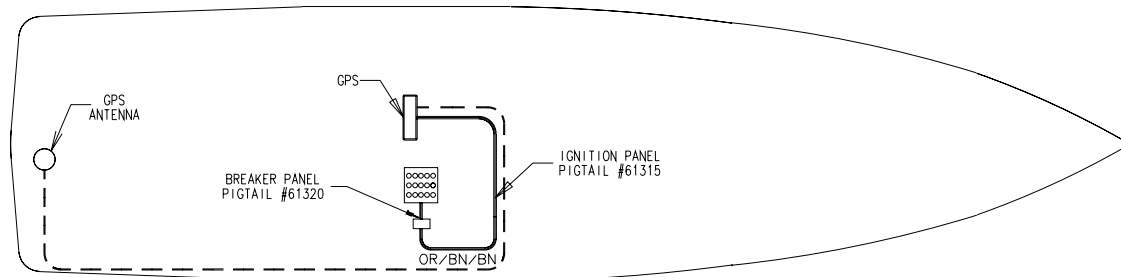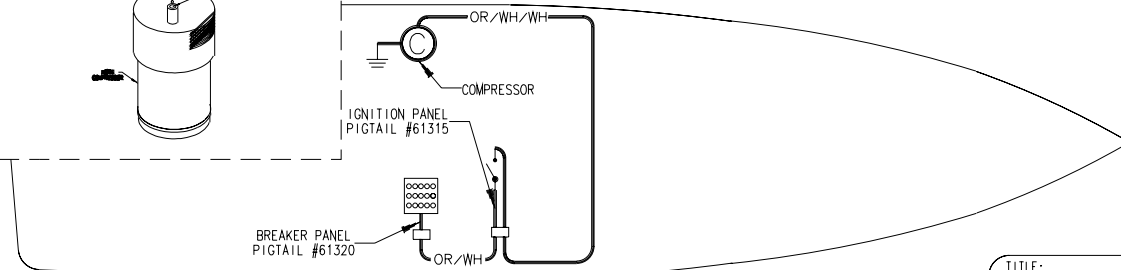
HORN COMPRESSOR MAINTENANCE

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.

OIL

OR/WH/WH

C

COMPRESSOR

IGNITION PANEL PIGTAIL #61315

BREAKER PANEL PIGTAIL #61320

OR/WH

TO OPERATE:

1. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, TURN THE PORT BATTERY SWITCH TO "ON".

2. ON DASH BREAKER PANEL, THE "HORN" BREAKER MUST BE PUSHED IN (CLOSED).

3. THE HORN CAN NOW BE OPERATED BY THE "HORN" SWITCH ON THE IGNITION PANEL.
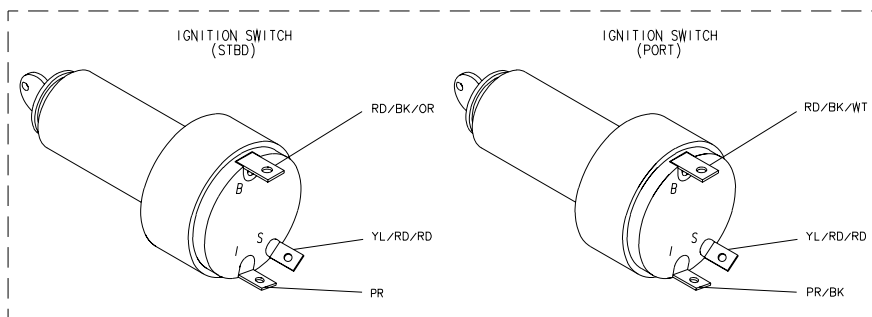
TITLE: HORN

MOD.: 353FASTech

DR BY: SAJ

17B

LEGEND

GROUND

IGNITION BREAKER SWITCH PANEL

IGNITION SWITCH (STBD)
- RD/BK/OR
- YL/RD/RD
- PR

IGNITION SWITCH (PORT)
- RD/BK/WT
- YL/RD/RD
- PR/BK
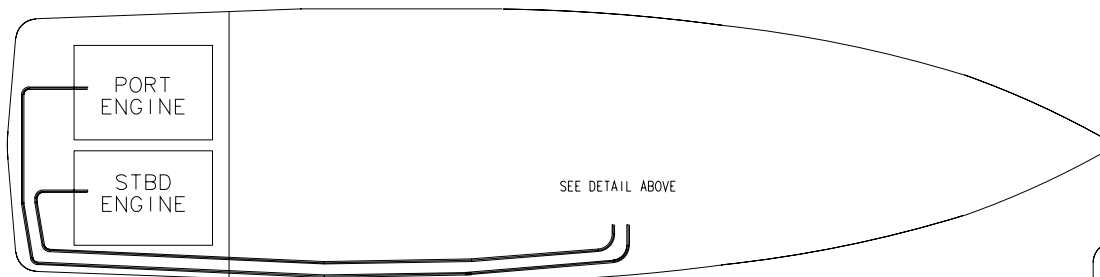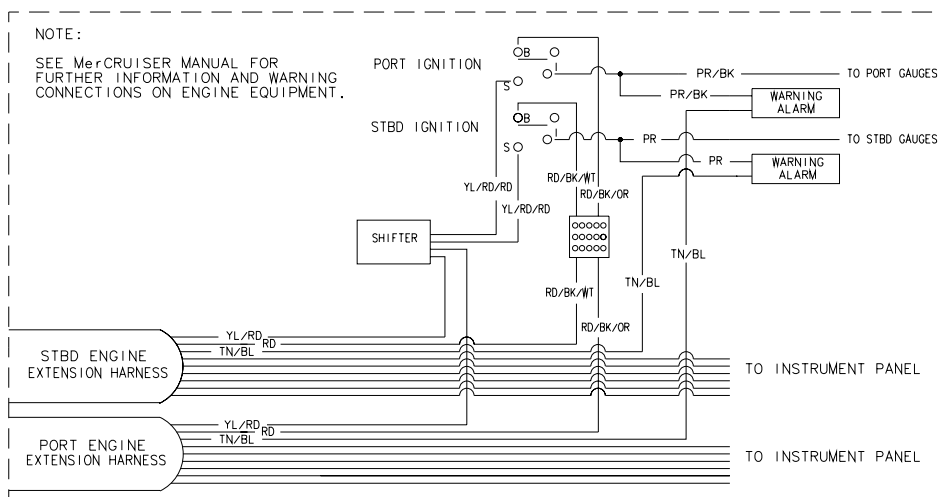
TO OPERATE:

1. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, TURN THE BATTERY SWITCHES TO "ON".

2. THIS WILL ALOW BOTH THE FUME DETECTOR AND THE ENGINE BLOWERS TO OPERATE WHEN NEEDED.

3. LOCATED ON THE UNDER DASH BREAKER PANEL IGN. BREAKERS MUST BE PUSHED IN "CLOSED".

4. ENGINES ARE NOW READY TO BE STARTED BY TURNING THE IGNITION SWITCHES CLOCKWISE.

IGNITION BKRS 20A
(DASH BKR PANEL)
(REAR VIEW)

PORT
STBD
- RD +12V DC IGN. IN (PORT)
- RD +12V DC IGN. IN (STBD)
- RD/BK/WT
- RD/BK/OR
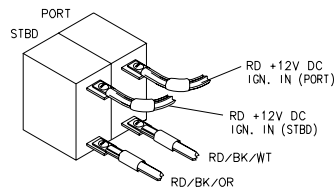
NOTE:

SEE MerCRUISER MANUAL FOR FURTHER INFORMATION AND WARNING CONNECTIONS ON ENGINE EQUIPMENT.

PORT IGNITION
STBD IGNITION

PR/BK — TO PORT GAUGES
PR/BK — WARNING ALARM
PR — TO STBD GAUGES
PR — WARNING ALARM

YL/RD/RD
YL/RD/RD
RD/BK/WT
RD/BK/OR
TN/BL
TN/BL

SHIFTER

RD/BK/WT
RD/BK/OR

STBD ENGINE EXTENSION HARNESS
- YL/RD/RD
- TN/BL
TO INSTRUMENT PANEL

PORT ENGINE EXTENSION HARNESS
- YL/RD/RD
- TN/BL
TO INSTRUMENT PANEL
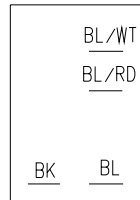
PORT ENGINE
STBD ENGINE
SEE DETAIL ABOVE

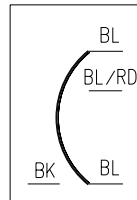THUNDERBIRD PRODUCTS ENGINEERING

TITLE: IGNITION, GASOLINE

MOD.: 353FASTech

DR BY: SAJ

18

353 FASTech
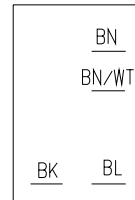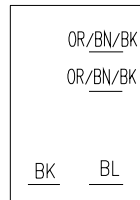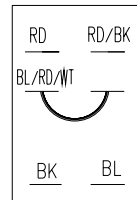# ACCESSORY PANEL
(REAR VIEW)

COURTESY LIGHTS
- BL/WT
- BL/RD
- BK
- BL

PANEL LIGHTS
- BL
- BL/RD
- BK
- BL

NAV/ANCH LIGHT
- BL
- BK
- GY/RD
- BL/RD
- BL/RD
- GY/WT

BILGE PUMP
- BN
- BN/WT
- BK
- BL

DEPTH SOUNDER
- OR/BN/BK
- OR/BN/BK
- BK
- BL
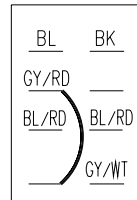
DOCKING LIGHTS
- RD
- RD/BK
- BL/RD/WT
- BK
- BL
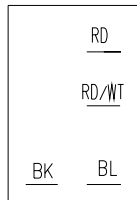
EXHAUST
- RD
- RD/WT
- BK
- BL

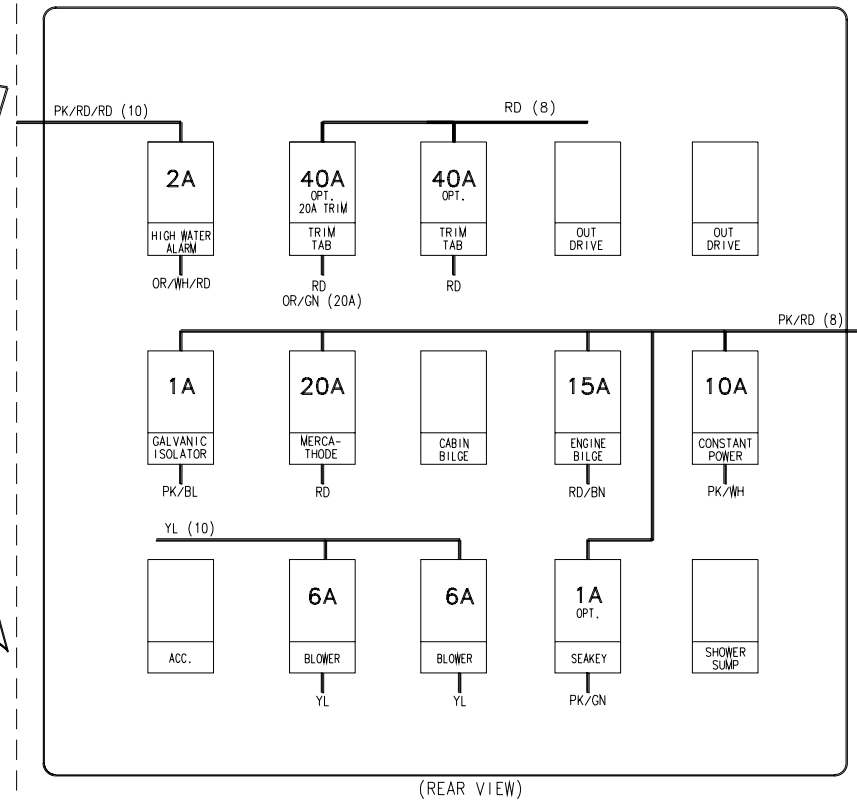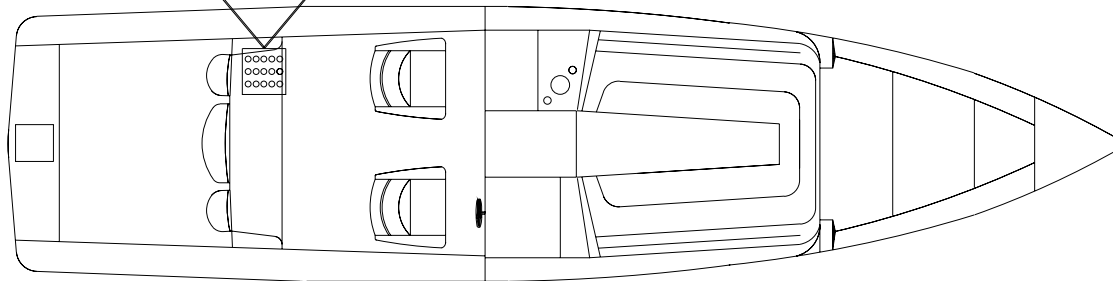| CODE	COLOR	STRIPE	STRIPE
BL	BLUE		
BL/RD	BLUE	RED	
BL/WT	BLUE	WHITE	
BL/WT/RD	BLUE	WHITE	RED
BK	BLACK		
BN	BROWN		
BN/WT	BROWN	WHITE	
GY/RD	GRAY	RED	
GY/WT	GRAY	WHITE	
OR/BN/BK	ORANGE	BROWN	BLACK
RD	RED		
RD/BK	RED	BLACK	
RD/WT	RED	WHITE	

PANEL   #61652
PIGTAIL #61316

TITLE: ACCESSORY PANEL
MOD.: 353 FASTech
DR BY: SAJ
19

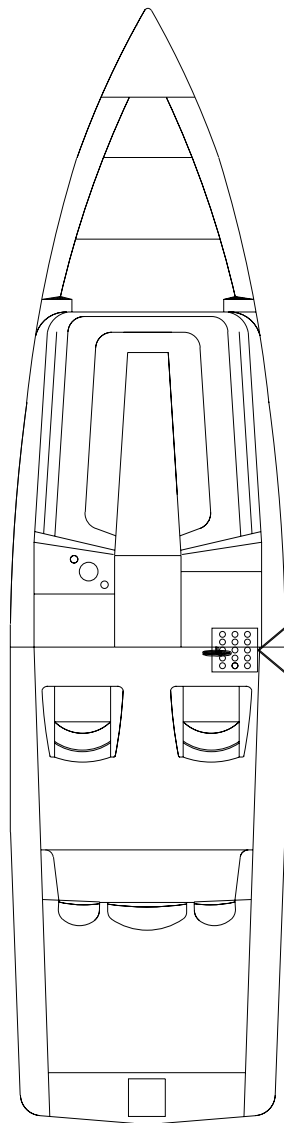AFT BREAKER PANEL
(LOCATED UNDER COCKPIT
AFT FLIP-UP SEAT)

PK/RD/RD (10)

RD (8)

2A	40A OPT. 20A TRIM	40A OPT.		
HIGH WATER ALARM	TRIM TAB	TRIM TAB	OUT DRIVE	OUT DRIVE
OR/WH/RD	RD OR/GN (20A)	RD		

PK/RD (8)

1A	20A		15A	10A
GALVANIC ISOLATOR	MERCA- THODE	CABIN BILGE	ENGINE BILGE	CONSTANT POWER
PK/BL	RD		RD/BN	PK/WH

YL (10)

	6A	6A	1A OPT.	
ACC.	BLOWER	BLOWER	SEAKEY	SHOWER SUMP
	YL	YL	PK/GN	

(REAR VIEW)

PANEL   #185112

PIGTAIL #9115

TITLE: AFT
BREAKER PANEL
MOD.: 353 FASTech
DR BY: SAJ
20

PANEL #9069

PIGTAIL #61320

DASH BREAKER PANEL
(BELOW DASH STBD SIDE)

	RD		IN (STBD) RD/OR/BK	IN (PORT) RD/WT/BK
20A ENG HATCH	20A HORN	NOT USED IGNITION	20A IGNITION	20A IGNITION
WT/RD	OR/WT		RD/OR/BK OUT	RD/WT/BK OUT

RD

15A LIGHTS	10A ELECTRONICS	15A 12V OUTLET	15A BILGE PUMP	15A BILGE BLOWER
BL/RD	(OR/BN/BN OR/BN/BK OR/BN/RD RD/BL/GY)	OR/PR	BN/WT	YL

15A OPT. FOOT/ SEAT	15A OPT. FOOT/ SEAT	25A OPT. DOCK LTS	NOT USED BATT/WNDLS	5A HEAD BLOWER
RD/OR/WT	RD/OR/BK	BL/RD/WT	YL	YL/WT
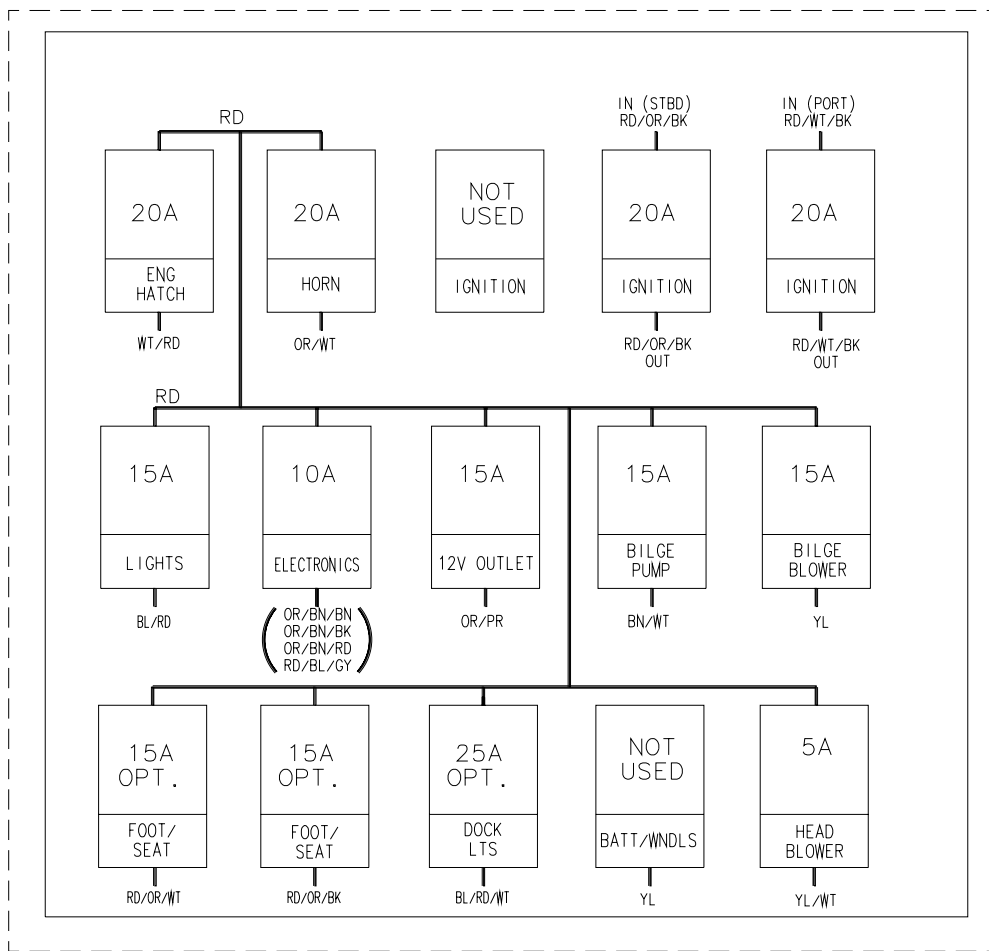
THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: DASH
BREAKER PANEL

MOD.: 353 FASTech

DR BY: SAJ   21

IGNITION PANEL
353 FASTech
(REAR VIEW)

ENGINE HATCH

- BL
- BK
- WT/GN
- WT/RD
- WT/GN/GN
- WT/RD/RD

BLOWER

- YL/BL
- YL
- BK
- BL

HORN

- OR/WT/WT - OUT
- OR/WT- IN

HALON LIGHT

- OR/RD/RD

STBD IGNITION

- PR
- RD/BK/OR
- YL/RD/RD

PORT IGNITION
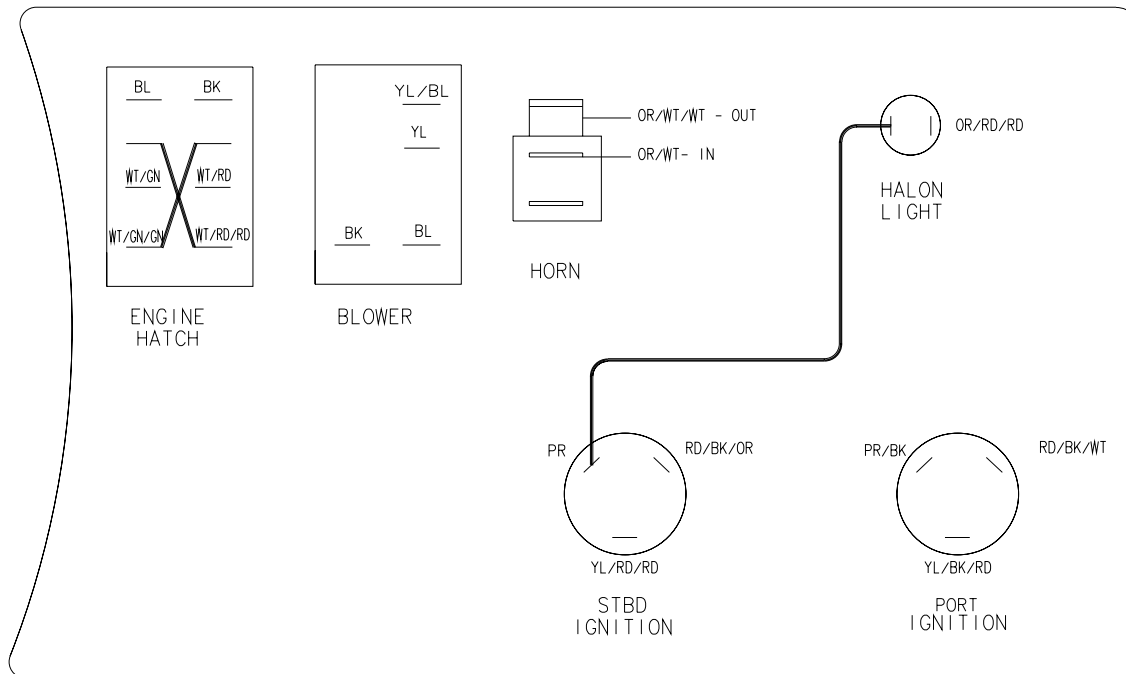
- PR/BK
- RD/BK/WT
- YL/BK/RD

CODE	COLOR	STRIPE	STRIPE
BK	BLACK		
BL	BLUE		
OR/RD/RD	ORANGE	RED	RED
OR/WT	ORANGE	WHITE	
OR/WT/WT	ORANGE	WHITE	WHITE
PR	PURPLE		
PR/BK	PURPLE	BLACK	
RD/BK/OR	RED	BLACK	ORANGE
RD/BK/WT	RED	BLACK	WHITE
YL	YELLOW		
YL/BL	YELLOW	BLUE	
YL/BK/RD	YELLOW	BLACK	RED
YL/RD/RD	YELLOW	RED	RED
WT/GN	WHITE	GREEN	
WT/GN/GN	WHITE	GREEN	GREEN
WT/RD	WHITE	RED	
WT/RD/RD	WHITE	RED	RED

PANEL   #61648
PIGTAIL #61315

TITLE:	IGNITION PANEL
MOD.: 353 FASTech	22
DR BY: SAJ	

INSTRUMENT PANEL
353 FASTech
(REAR VIEW)

TACH (STBD)

BL | PR
GY

SPEEDO

BL

TACH (PORT)

BL | PR/BK
GY/BK

STBD OIL TEMP

BL
BL
PR

PORT OIL TEMP

BL
BL
PR/BK

GPS

OR/BN/BK

STBD OIL PRESS

BL
BL/TN
PR

PORT OIL PRESS

BL
BL/TN/BK
PR/BK

VOLT

BL
PR

FUEL

BL
PK
PR

STBD TEMP

BL
TN
PR

PORT TEMP

BL
TN
PR/BK
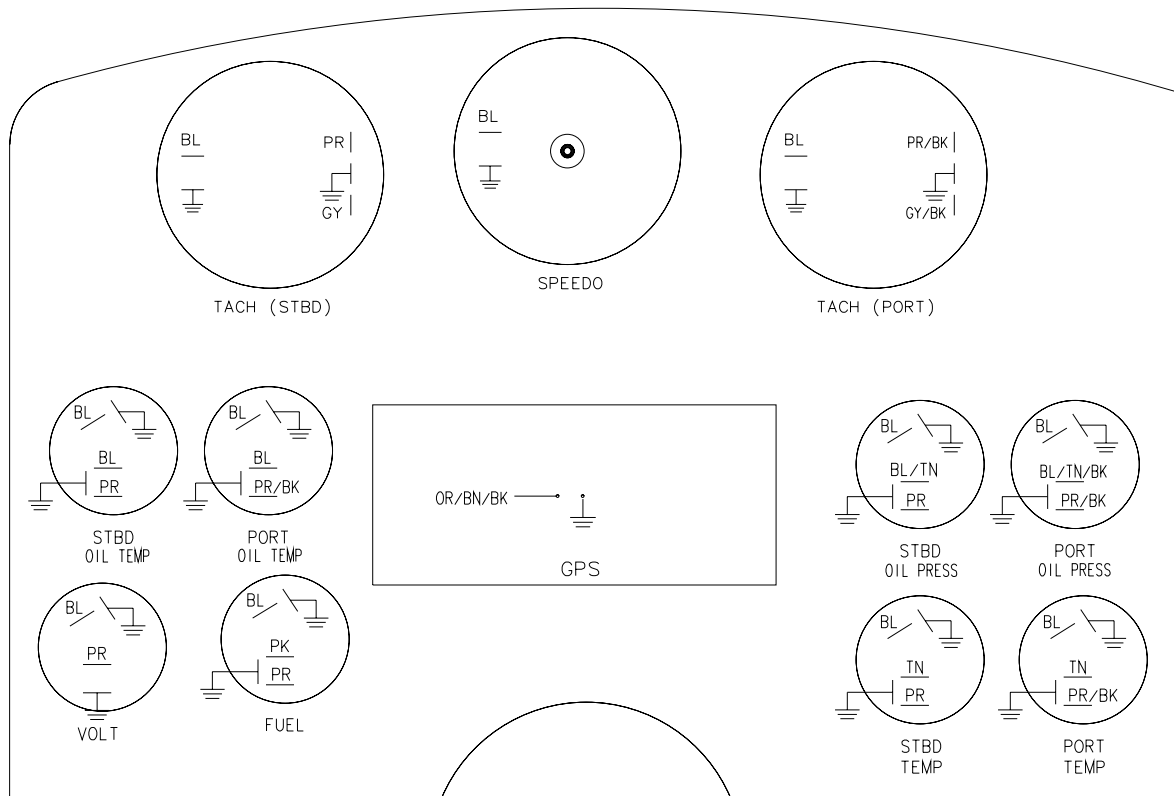
CODE	COLOR	STRIPE	STRIPE
BK	BLACK		
BL	BLUE		
GY	GRAY		
GY	GRAY	BLACK	
OR/BN/BK	ORANGE	BROWN	BLACK
OR/BN/BN	ORANGE	BROWN	BROWN
PK	PINK		
PR	PURPLE		
PR/BK	PURPLE	BLACK	
TN	TAN		

THUNDERBIRD
PRODUCTS
ENGINEERING

PANEL   #61665
PIGTAIL #6704
         3471 (2)

INSTRUMENT SHIFTER PANEL
353 FASTech
(REAR VIEW)

OR/BN/BK —

DEPTH

BL/RD
RD/GN
GN/BL

BL/RD/RD
RD/GN/GN
GN/BL/BL

TABS

GN/WT
RD/PR
BL/GN

GN/WT/WT
RD/PR/PR
BL/GN/GN

DRIVES

TN/RD
BK
RD

STEREO
REMOTE

PR/WT

PR/WT/WT
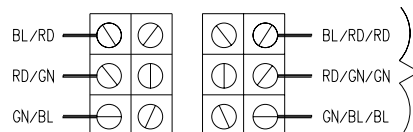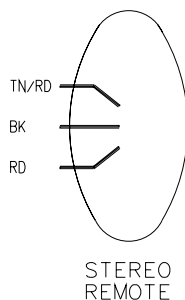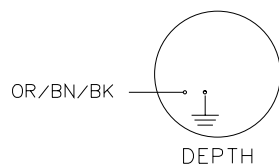
DRIVES
TRAILER

CODE	COLOR	STRIPE	STRIPE
BK	BLACK		
BL/GN	BLUE	GREEN	
BL/GN/GN	BLUE	GREEN	GREEN
BL/RD	BLUE	RED	
BL/RD/RD	BLUE	RED	RED
GN/BL	GREEN	BLUE	
GN/BL/BL	GREEN	BLUE	BLUE
GN/WT	GREEN	WHITE	
GN/WT/WT	GREEN	WHITE	WHITE
OR/BN/BK	ORANGE	BROWN	BLACK
PR/WT	PURPLE	WHITE	
PR/WT/WT	PURPLE	WHITE	WHITE
RD	RED		
RD/GN	RED	GREEN	
RD/GN/GN	RED	GREEN	GREEN
RD/PR	RED	PURPLE	
RD/PR/PR	RED	PURPLE	PURPLE
TN/RD	TAN	RED	

PANEL   #61649
PIGTAIL #61322

LEGEND

GROUND	⏚
SWITCH	⌁
AC/DC BREAKER	⌁
PLUG	▭
LIGHT	⊗

LIGHT SWITCH, FLOOR
— LT.BL/RD
— LT.BL

MAIN CABIN LIGHT SWITCHES
FLOOR
OVERHEAD
VALANCE
V-BERTH

LIGHT SWITCH, CABIN
— LT.BL/RD
— LT.BL/WT

THUNDERBIRD
PRODUCTS
ENGINEERING

Panel 25A

AC/DC PANEL
PIGTAIL #61523

AC/DC PANEL
12V DC SYSTEM
20A "LIGHTS" BREAKER

DECK HARNESS
#61521

LT.BL
LT.BL/RD
LT.BL

LT.BL
LT.BL
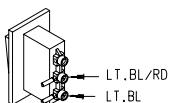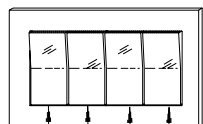
TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.

2. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, PORT SIDE, TURN THE PORT BATTERY SWITCH TO "ON".

3. ON THE AC/DC PANEL IN THE CABIN, SWITCH THE 12V DC SYSTEM "MAIN" AND "LIGHTS" BREAKERS TO "ON".

4. THE FLOOR LIGHTS CAN NOW BE OPERATED BY THE FIRST LIGHT SWITCH AT THE ENTRYWAY.
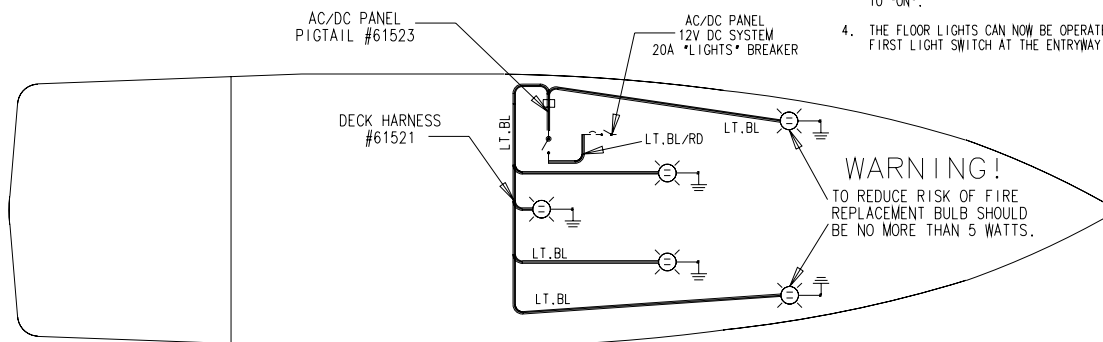
WARNING!
TO REDUCE RISK OF FIRE REPLACEMENT BULB SHOULD BE NO MORE THAN 5 WATTS.
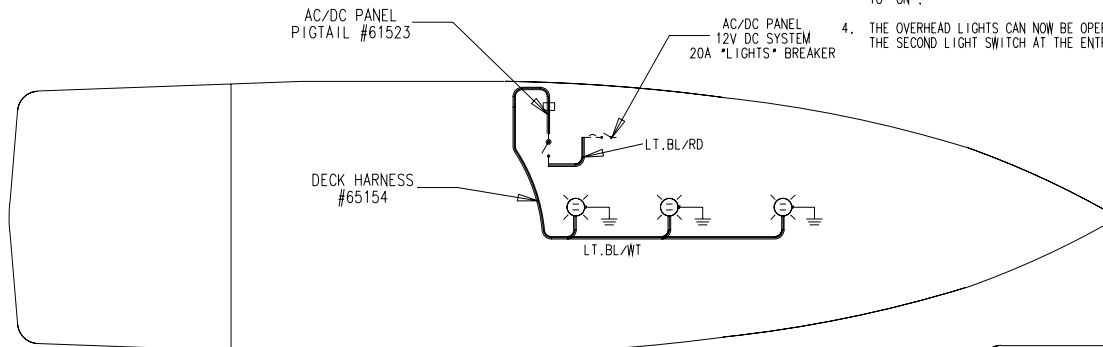
TITLE:	LIGHTS, FLOOR	
MOD.: 353FASTech		25A
DR BY: SAJ		

Panel 25B

TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.

2. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, PORT SIDE, TURN THE PORT BATTERY SWITCH TO "ON".

3. ON THE AC/DC PANEL IN THE CABIN, SWITCH THE 12V DC SYSTEM "MAIN" AND "LIGHTS" BREAKERS TO "ON".

4. THE OVERHEAD LIGHTS CAN NOW BE OPERATED BY THE SECOND LIGHT SWITCH AT THE ENTRYWAY.

AC/DC PANEL
PIGTAIL #61523

AC/DC PANEL
12V DC SYSTEM
20A "LIGHTS" BREAKER

DECK HARNESS
#65154

LT.BL/RD

LT.BL/WT

TITLE:	LIGHTS, OVERHEAD	
MOD.: 353FASTech		25B
DR BY: SAJ		

LEGEND

GROUND	⏚
SWITCH	╶•╱•
AC/DC BREAKER	╶•╱•╴
PLUG	▭
LIGHT	⊖

LIGHT SWITCH, VALANCE
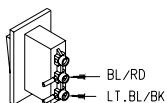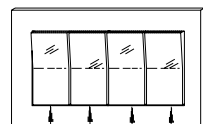
— BL/RD
— LT.BL/BK

MAIN CABIN LIGHT SWITCHES

FLOOR
OVERHEAD
VALANCE
V-BERTH

LIGHT SWITCH, V-BERTH
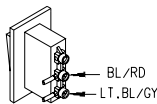
— BL/RD
— LT.BL/GY

THUNDERBIRD
PRODUCTS
ENGINEERING

Panel 26A
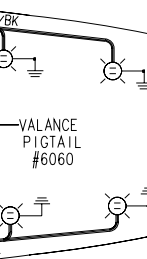
TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.

2. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, PORT SIDE, TURN THE PORT BATTERY SWITCH TO "ON".

3. ON THE AC/DC PANEL IN THE CABIN, SWITCH THE 12V DC SYSTEM "MAIN" AND "LIGHTS" BREAKERS TO "ON".

4. THE VALANCE LIGHTS CAN NOW BE OPERATED BY THE THIRD LIGHT SWITCH AT THE ENTRYWAY.

AC/DC PANEL PIGTAIL #61523

AC/DC PANEL 12V DC SYSTEM 20A "LIGHTS" BREAKER

LT.BL/BK
LT.BL/BK
LT.BL/BK
LT.BL/RD

DECK HARNESS #61521

VALANCE PIGTAIL #6060

LT.BL/BK

TITLE:	LIGHTS, VALANCE	
MOD.: 353FASTech		26A
DR BY: SAJ		

Panel 26B

TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.

2. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, PORT SIDE, TURN THE PORT BATTERY SWITCH TO "ON".

3. ON THE AC/DC PANEL IN THE CABIN, SWITCH THE 12V DC SYSTEM "MAIN" AND "LIGHTS" BREAKERS TO "ON".

4. THE V-BERTH LIGHTS CAN NOW BE OPERATED BY THE FOURTH LIGHT SWITCH AT THE ENTRYWAY.

AC/DC PANEL PIGTAIL #61523

AC/DC PANEL 12V DC SYSTEM 20A "LIGHTS" BREAKER

LT.BL/RD

DECK HARNESS #61521

LT.BL/GY

TITLE:	LIGHTS, V-BERTH	
MOD.: 353FASTech		26B
DR BY: SAJ		

LEGEND

GROUND	⏚
SWITCH	⌐•⁄•
AC/DC BREAKER	⌐•⁄•⁄•
PLUG	▭
LIGHT	⊗

LIGHT SWITCH, HEAD

LT.BL/RD
LT.BL
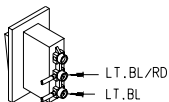
HEAD SWITCHES
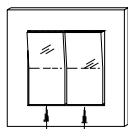
BLOWER — LIGHT

LIGHTS BKR 15A
(DASH BKR PANEL)
(REAR VIEW)
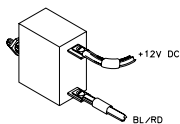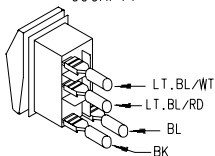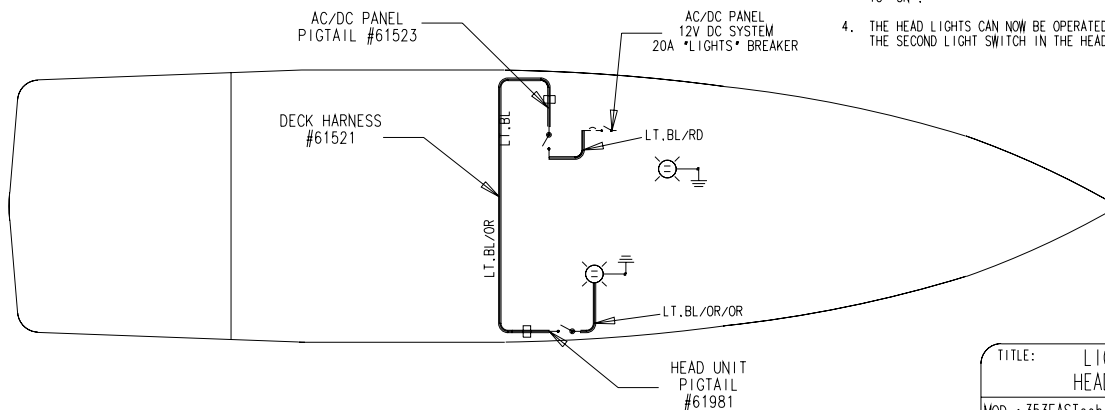
+12V DC
BL/RD

COURTESY COCKPIT

LT.BL/WT
LT.BL/RD
BL
BK

THUNDERBIRD PRODUCTS
ENGINEERING

TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.

2. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, PORT SIDE, TURN THE PORT BATTERY SWITCH TO "ON".

3. ON THE AC/DC PANEL IN THE CABIN, SWITCH THE 12V DC SYSTEM "MAIN" AND "LIGHTS" BREAKERS TO "ON".

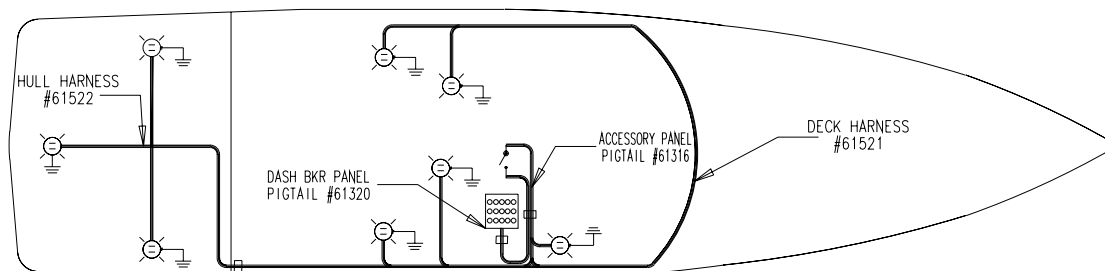4. THE HEAD LIGHTS CAN NOW BE OPERATED BY THE SECOND LIGHT SWITCH IN THE HEAD.

AC/DC PANEL PIGTAIL #61523

AC/DC PANEL 12V DC SYSTEM 20A "LIGHTS" BREAKER

DECK HARNESS #61521

LT.BL
LT.BL/RD
LT.BL/OR
LT.BL/OR/OR

HEAD UNIT PIGTAIL #61981

TITLE:	LIGHTS, HEAD UNIT
MOD.: 353FASTech	27A
DR BY: SAJ	

TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.

2. LOCATED UNDER THE COCKPIT AFT FLIP-UP SEAT, PORT SIDE, TURN THE PORT BATTERY SWITCH TO "ON".

3. ON THE DASH BREAKER PANEL, THE "LIGHTS" BREAKER MUST BE PUSHED IN (CLOSED).

4. THE COURTESY LIGHTS CAN NOW BE OPERATED BY THE "COURT LTS" SWITCH ON THE ACCESSORY PANEL.

HULL HARNESS #61522

ACCESSORY PANEL PIGTAIL #61316

DASH BKR PANEL PIGTAIL #61320

DECK HARNESS #61521

TITLE:	LIGHTS, COCKPIT COURTESY
MOD.: 353FASTech	27B
DR BY: SAJ	

LEGEND

GROUND	⏚
SWITCH	⟋
BREAKER	▦
PLUG	▭
LIGHT	⊗
DPDT SWITCH	⫶

LIGHT SWITCH, DOCKING
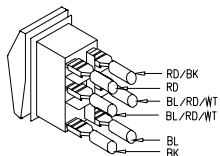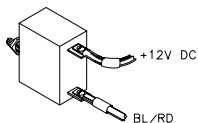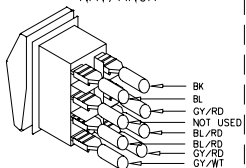
RD/BK
RD
BL/RD/WT
BL/RD/WT
BL
BK

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

+12V DC
BL/RD

LIGHT SWITCH, NAV/ANCH

BK
BL
GY/RD
NOT USED
BL/RD
RD/BK
GY/RD
GY/WT
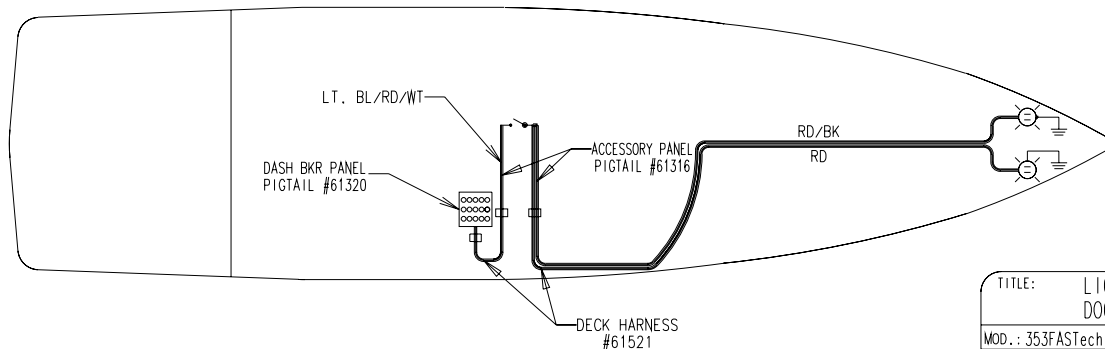
THUNDERBIRD
PRODUCTS
ENGINEERING

TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.

2. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, PORT SIDE, TURN THE PORT BATTERY SWITCH TO "ON".

3. ON THE DASH BREAKER PANEL, THE "LIGHTS" BREAKER MUST BE PUSHED IN (CLOSED).

4. THE DOCKING LIGHTS CAN NOW BE OPERATED BY THE "DOCK LTS" SWITCH ON THE ACCESSORY PANEL.

LT. BL/RD/WT

RD/BK
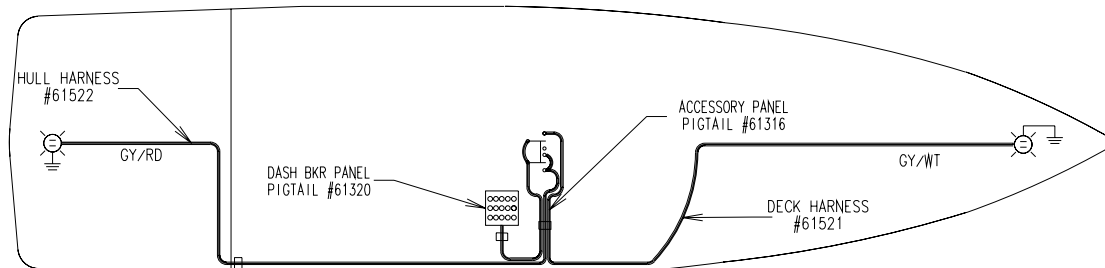RD

ACCESSORY PANEL
PIGTAIL #61316

DASH BKR PANEL
PIGTAIL #61320

DECK HARNESS
#61521

TITLE:	LIGHTS, DOCKING
MOD.: 353FASTech	28A
DR BY: SAJ	

TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.

2. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, PORT SIDE, TURN THE PORT BATTERY SWITCH TO "ON".

3. ON THE DASH BREAKER PANEL, THE "LIGHTS" BREAKER MUST BE PUSHED IN (CLOSED).

4. THE NAV/ANCH LIGHTS CAN NOW BE OPERATED BY THE "NAV/ANCH" SWITCH ON THE ACCESSORY PANEL.

HULL HARNESS
#61522

GY/RD

ACCESSORY PANEL
PIGTAIL #61316

DASH BKR PANEL
PIGTAIL #61320

GY/WT

DECK HARNESS
#61521

TITLE:	LIGHTS, NAVIGATION/ANCHOR
MOD.: 353FASTech	28B
DR BY: SAJ	

LEGEND

GROUND	⏚
SWITCH	⌐•⌐
AC/DC BREAKER	⌐•⌐
PLUG	▭

TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.

2. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, PORT SIDE, TURN THE PORT BATTERY SWITCH TO "ON".

3. ON THE AC/DC PANEL IN THE CABIN, SWITCH THE 12V DC SYSTEM "MAIN" AND "WASTE SYSTEM" BREAKERS TO "ON".

4. IN THE ENGINE BILGE, PLACE THE Y-VALVE IN THE "DISCHARGE" POSITION.

5. IN THE V-BERTH NEXT TO THE HEAD, PRESS AND HOLD THE MACERATOR BUTTON UNTIL THE "EMPTY" LIGHT (ON LEVEL MONITOR) ILLUMINATES.

AC/DC PANEL PIGTAIL #61523

AC/DC PANEL 12V DC SYSTEM 20A "MACERATOR" BREAKER

DECK HARNESS #61521

HULL HARNESS #61522

GN/RD

GN/OR

HEAD UNIT PIGTAIL #61981

CAUTION!!
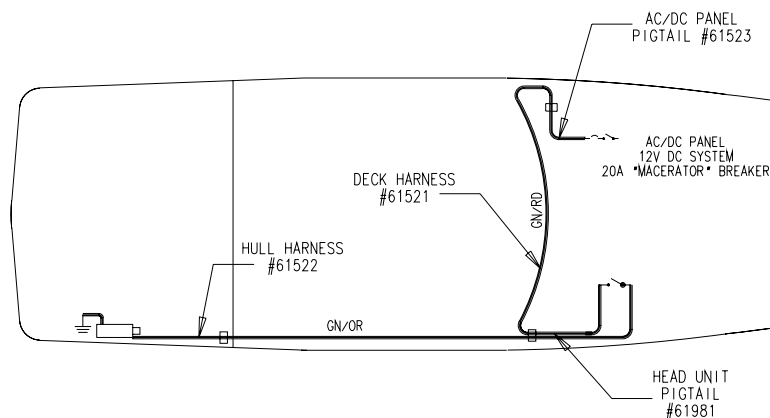FOLLOW LOCAL, STATE, AND FEDERAL GUIDLINES FOR WASTE DISCHARGE.

MACERATOR SWITCH (LOCATED NEXT TO HEAD UNIT) (REAR VIEW)

GN/OR   GN/RD   NOT USED
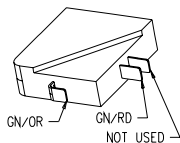
MACERATOR BKR 20A (DASH BKR PANEL) (REAR VIEW)

+12V DC

GN/RD

TITLE:	MACERATOR, ELECTRICAL	
MOD.: 353FASTech		29A
DR BY: SAJ		

SEACOCK THROUGH HULL

"Y" VALVE

MACERATED WASTE OPEN/CLOSE VALVE LOCATED AT BOTTOM OF HULL.

PUMP OUT PORT

WASTE FLOW DIRECTION VALVE

FROM WASTE TANK

MACERATOR

MACERATOR (OPTION)

VAC PUMP AND HOLDING TANK

SEACOCK

DECK PUMPOUT

TOILET

Y-VALVE

THUNDERBIRD PRODUCTS ENGINEERING
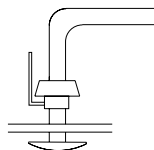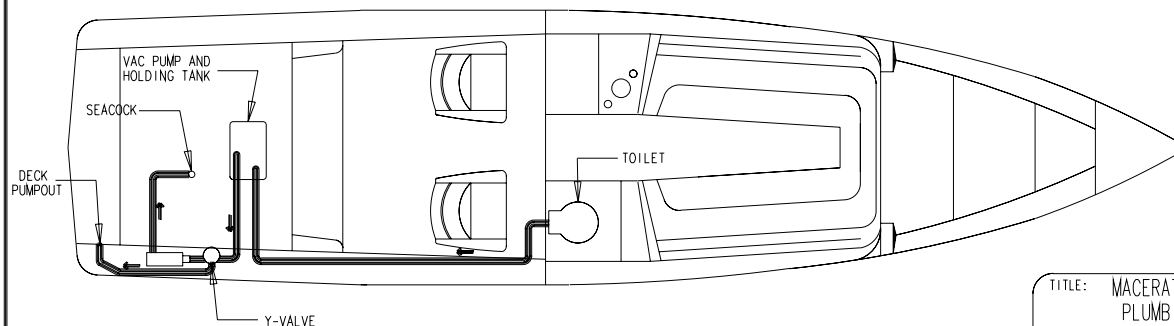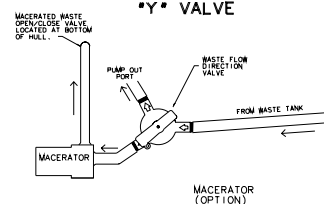
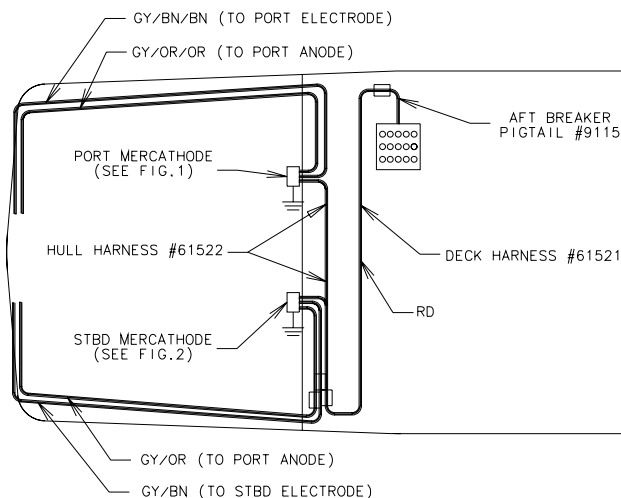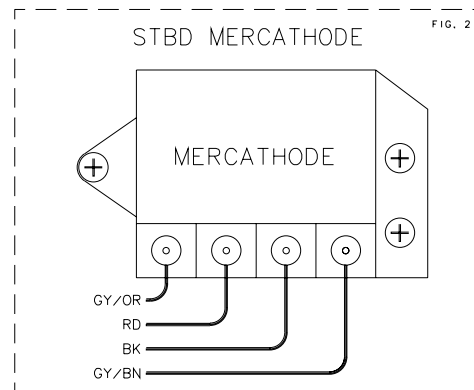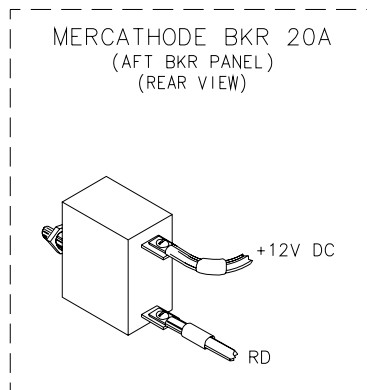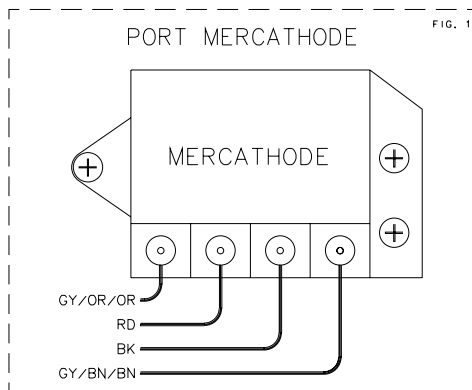| TITLE:	MACERATOR, PLUMBING	
MOD.: 353FASTech		29B
DR BY: SAJ		

LEGEND

PLUG	☐
BREAKER PANEL	⊞
DC GROUND	⏚

TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.
2. ON THE AFT BREAKER PANEL, THE "MERC." BREAKER MUST BE PUSHED IN (CLOSED).
3. THE MERCATHODE IS NOW SUPPLIED WITH POWER AND SHOULD BE OPERATING.

NOTE: THE MARCATHODE ONLY OPERATES WHEN THE BOAT IS ON WATER.

PORT MERCATHODE   FIG. 1

MERCATHODE

GY/OR/OR
RD
BK
GY/BN/BN

MERCATHODE BKR 20A
(AFT BKR PANEL)
(REAR VIEW)

+12V DC

RD

STBD MERCATHODE   FIG. 2

MERCATHODE

GY/OR
RD
BK
GY/BN

GY/BN/BN (TO PORT ELECTRODE)
GY/OR/OR (TO PORT ANODE)

AFT BREAKER PIGTAIL #9115

PORT MERCATHODE (SEE FIG.1)

HULL HARNESS #61522

DECK HARNESS #61521

RD

STBD MERCATHODE (SEE FIG.2)

GY/OR (TO PORT ANODE)

GY/BN (TO STBD ELECTRODE)

THUNDERBIRD PRODUCTS
ENGINEERING

TITLE:	MERCATHODE	
MOD.: 353FASTech		30
DR BY: SAJ		

LEGEND

GROUND	⏚
BREAKER PANEL	(breaker panel symbol)
PLUG	▭
BATTERY	BATT.

OUTDRIVES diagram

OUTDRIVE PUMP

GN/WT/WT
RD/PR/PR
BL/GN/GN — TO DRIVE SWITCHES SEE PAGE 24

RD
BK
BATT.

GROUND PLEX BLOCK

OUTDRIVE PUMP

BK
RD
BATT.

GN/WT
RD/PR
BL/GN — TO DRIVE SWITCHES SEE PAGE 24

AFT BREAKER PANEL

BATT.

K-PLANE PIGTIAL #61322

TO K-PLANE SWITCHES SEE PAGE 24

OUTDRIVE PUMPS LOCATED ON BILGE WALL

HULL HARNESS #61522

BATT.

DECK HARNESS #61521

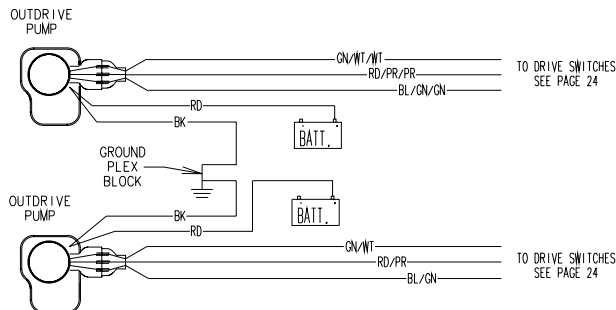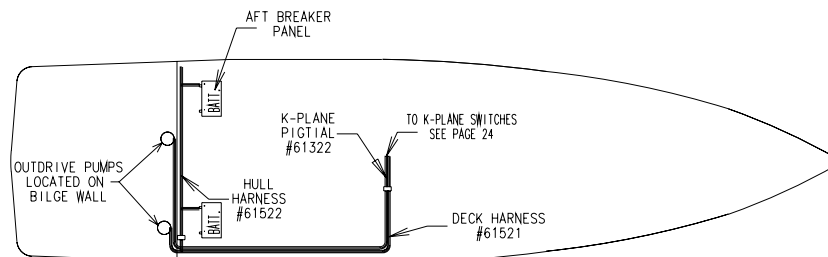**TO OPERATE:**

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.
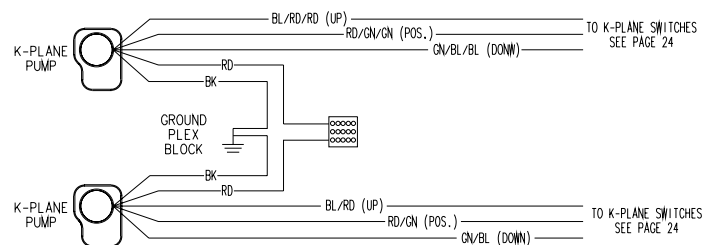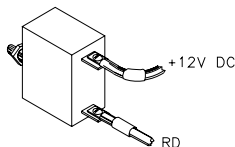2. THE OUTDRIVES ARE CONNECTED DIRECTLY TO THE BATTERY AND ARE OPERATIONAL AT ALL TIMES.

TITLE:	OUTDRIVES	
MOD.: 353 FASTech		**31A**
DR BY: SAJ		

TRIM TABS BKR 5A
(AFT BKR PANEL)
(REAR VIEW)

+12V DC

RD

TRIM TABS diagram

K-PLANE PUMP

BL/RD/RD (UP)
RD/GN/GN (POS.)
GN/BL/BL (DOWN) — TO K-PLANE SWITCHES SEE PAGE 24

RD
BK

GROUND PLEX BLOCK

BK
RD

K-PLANE PUMP

BL/RD (UP)
RD/GN (POS.)
GN/BL (DOWN) — TO K-PLANE SWITCHES SEE PAGE 24

AFT BREAKER PANEL

K-PLANE PIGTIAL #61322

TO K-PLANE SWITCHES SEE PAGE 24

K-PLANE PUMPS LOCATED ON BILGE WALL

HULL HARNESS #61522

DECK HARNESS #61521

TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.
2. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, PORT SIDE, TURN THE PORT BATTERY SWITCH TO "ON".
3. ON THE AFT BREAKER PANEL THE "TRIM TABS" BREAKERS MUST BE PUSHED IN (CLOSED).
4. THE TRIM TABS CAN NOW BE OPERATED BY THE TRIM TAB SWITCHES ON THE SHIFTER PANEL.
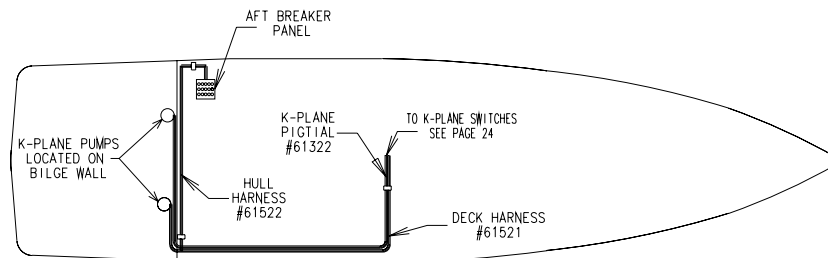
TITLE:	TRIM TABS	
MOD.: 353 FASTech		**31B**
DR BY: SAJ		

THUNDERBIRD PRODUCTS
ENGINEERING

LEGEND

BREAKER SWITCH	
DC GROUND	
BREAKER PANEL	

ACCESSORY BKR 15A
(DASH BKR PANEL)
(REAR VIEW)

+12V DC
OR/PR/RD

12V DC OUTLET
(REAR VIEW)

BK
OR/PR (COCKPIT)
OR/PR/RD (CABIN)
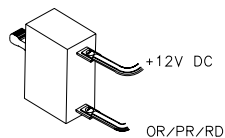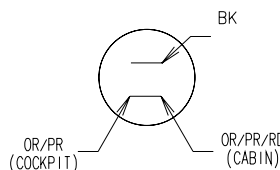
12V OUTLET BKR 15A
(DASH BKR PANEL)
(REAR VIEW)
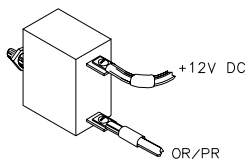
+12V DC
OR/PR

THUNDERBIRD PRODUCTS ENGINEERING

TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.
2. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, PORT SIDE, TURN THE PORT BATTERY SWITCH TO "ON".
3. ON THE AC/DC PANEL IN THE CABIN, SWITCH THE "MAIN" AND "ACC" BREAKER TO "ON".
4. THE 12V DC OUTLET IS SUPPLIED WITH POWER AND READY TO OPERATE.

AC/DC PANEL
12V DC SYSTEM
15A "ACC" BREAKER

12V DC OUTLET
(LOCATED ABOVE SINK IN CABIN)

OR/PR/RD

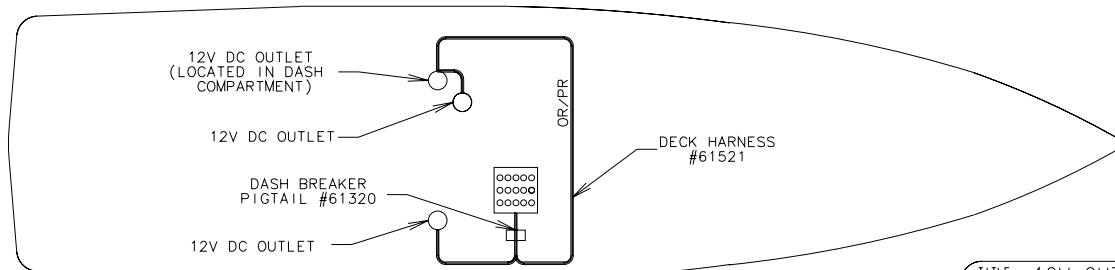12V DC OUTLET
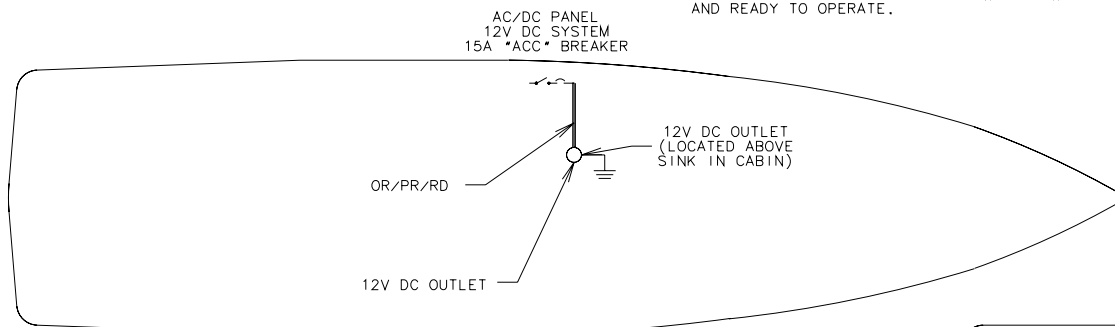
TITLE: 12V OUTLET, CABIN
MOD.: 353FASTech
DR BY: SAJ
32A

TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.
2. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, PORT SIDE, TURN THE PORT BATTERY SWITCH TO "ON"
3. ON THE DASH BREAKER PANEL, THE "OUTLET" BREAKER MUST BE PUSHED IN (CLOSED).
4. THE 12V DC OUTLETS ARE SUPPLIED WITH POWER AND READY TO OPERATE.

12V DC OUTLET
(LOCATED IN DASH COMPARTMENT)

12V DC OUTLET

OR/PR

DECK HARNESS #61521

DASH BREAKER PIGTAIL #61320

12V DC OUTLET

TITLE: 12V OUTLET, COCKPIT
MOD.: 353FASTech
DR BY: SAJ
32B

LEGEND

BREAKER PANEL	○○○○○ ○○○○○ ○○○○○
FLOAT SWITCH	
SWITCH	
PUMP	Ⓟ
PLUG	□
DC GROUND	

ENGINE BILGE 15A
(AFT BKR PANEL)
(REAR VIEW)

+12V DC

RD/BN
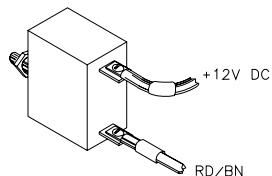
BILGE PUMP BKR 15A
(DASH BKR PANEL)
(REAR VIEW)

+12V DC

BN/WT
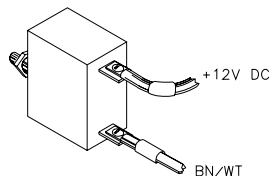
BILGE PUMP SWITCH
(ACCESSORY PANEL)
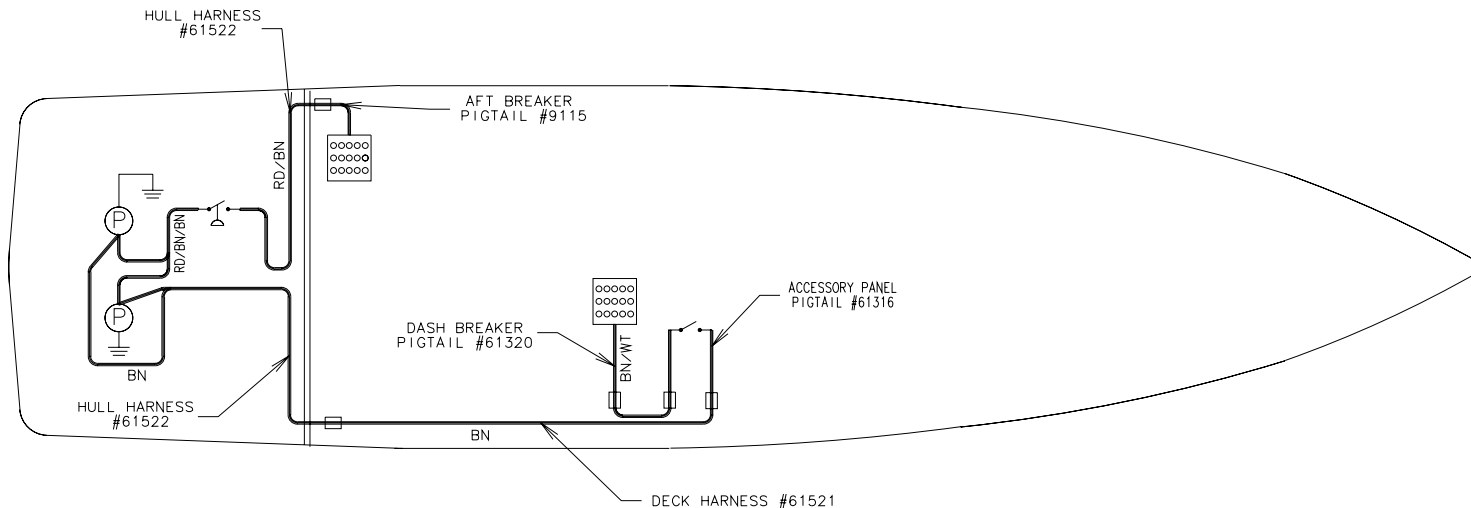(REAR VIEW)
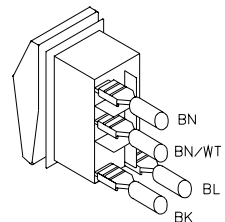
BN
BN/WT
BL
BK

TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.
2. ON THE AFT BREAKER PANEL, THE "ENGINE BILGE" BREAKER MUST BE PUSHED IN (CLOSED).
3. THE ENGINE BILGE PUMP IS NOW SUPPLIED WITH POWER AND OPERATIONAL.

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

THE ENGINE BILGE PUMP CAN NOT BE TURNED OFF BY TURNING THE PORT BATTERY SWITCH TO "OFF".

TO OPERATE MANUALLY:

1. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, PORT SIDE, TURN THE PORT BATTERY SWITCH TO "ON".
2. ON THE DASH BREAKER PANEL, THE "BILGE PUMP" BREAKER MUST BE PUSHED IN (CLOSED).
3. THE ENGINE BILGE PUMP CAN NOW BE OPERATED BY THE "BILGE PUMP" SWITCH ON THE ACCESSORY PANEL.

HULL HARNESS
#61522

AFT BREAKER
PIGTAIL #9115

RD/BN

RD/BN/BN

BN

HULL HARNESS
#61522

DASH BREAKER
PIGTAIL #61320

BN/WT

ACCESSORY PANEL
PIGTAIL #61316

BN

DECK HARNESS #61521

THUNDERBIRD
PRODUCTS
ENGINEERING

LEGEND

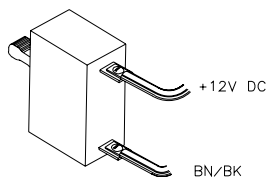|	
BREAKER SWITCH	
PUMP	P
PLUG	
DC GROUND	

WATER PUMP BKR 5A
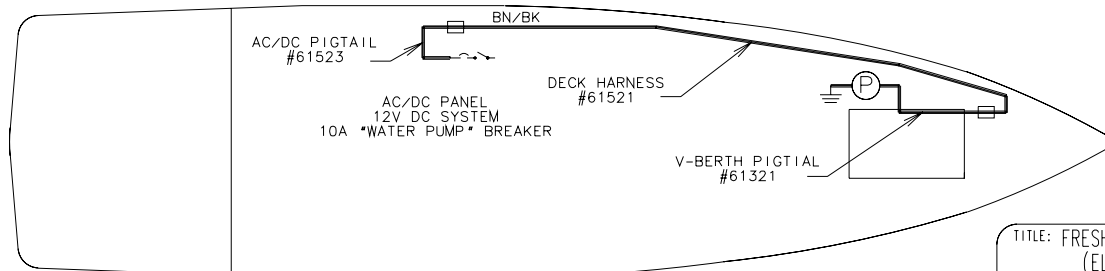### (AC/DC BKR PANEL)
(REAR VIEW)

+12V DC

BN/BK

TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.
2. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, PORT SIDE, TURN THE PORT BATTERY SWITCH TO "ON".
3. ON THE AC/DC PANEL, IN THE CABIN, SWITCH THE "DC MAIN" AND THE "WATER PUMP" BREAKER TO "ON".
4. THE 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 THE 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.
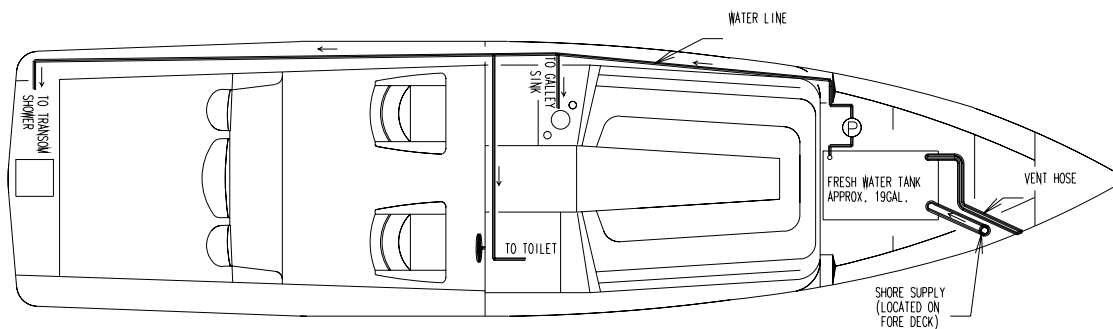
BN/BK

AC/DC PIGTAIL #61523

DECK HARNESS #61521

AC/DC PANEL 12V DC SYSTEM 10A "WATER PUMP" BREAKER

V-BERTH PIGTIAL #61321

TITLE:	FRESH WATER PUMP (ELECTRICAL)
MOD.: 353FASTech	**34A**
DR BY: SAJ	

WATER LINE

TO GALLEY SINK

TO TRANSOM SHOWER

TO TOILET

FRESH WATER TANK APPROX. 19GAL.

VENT HOSE

SHORE SUPPLY (LOCATED ON FORE DECK)

THUNDERBIRD PRODUCTS ENGINEERING

TITLE:	FRESH WATER PUMP (PLUMBING)
MOD.: 353FASTech	**34B**
DR BY: SAJ	

LEGEND

GROUND	⏚
BREAKER	⌁
SPLICE	▬
PRESSURE SWITCH	⦂⦂

BK

12V+ BL

30
85 86
87a
87

VAC PUMP RELAY

FULL FLOAT SWITCH

GN

MOTOR

12V+

WH

3/4 FLOAT SWITCH

RD
OR
WH
BK

HULL HARNESS #61522

CIRCUIT BREAKER

BR/RD
12V+

AC/DC PIGTAIL #61523

BR/RD
WH/YL/BK
YL/WH/BK
BK

DECK HARNESS #61521
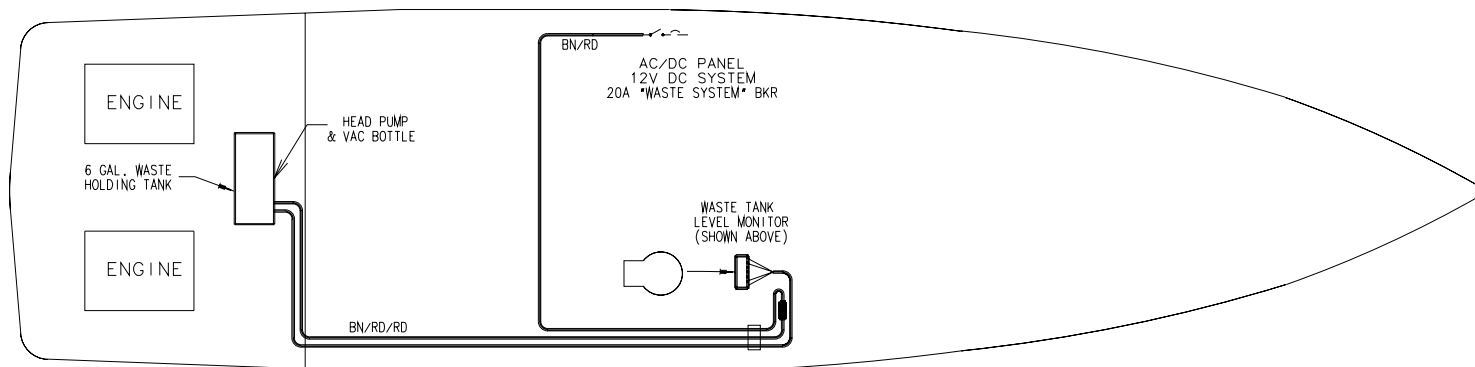
RD
RD
YL

HEAD PIGTAIL #61981

3/4   FULL

INDICATOR PANEL
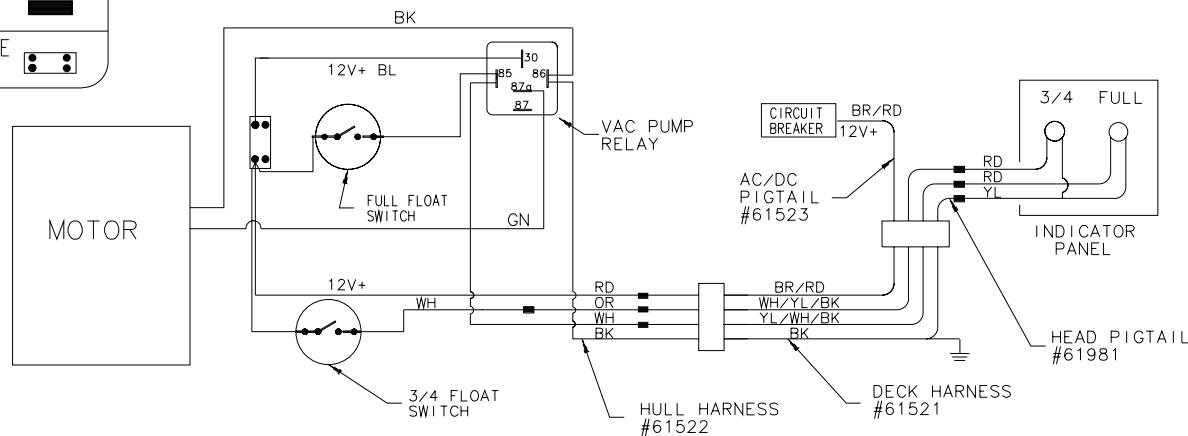
TO OPERATE:

1. LOCATED UNDER COCKPIT FLIP-UP SEAT, TURN THE PORT BATTERY SWITCH TO "ON".

2. ON THE AC/DC PANEL, IN THE CABIN, SWITCH THE DC "MAIN" BREAKER TO "ON".

3. ON THE AC/DC PANEL, SWITCH THE "WASTE SYSTEM" BREAKER TO "ON".

4. THE 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.

ENGINE

6 GAL. WASTE HOLDING TANK

HEAD PUMP & VAC BOTTLE

ENGINE

BN/RD/RD

BN/RD

AC/DC PANEL 12V DC SYSTEM 20A "WASTE SYSTEM" BKR

WASTE TANK LEVEL MONITOR (SHOWN ABOVE)

TITLE: WASTE VAC PUMP	
MOD.: 353 FASTech	35
DR BY: SAJ	

LEGEND

BREAKER PANEL	⬚⬚⬚⬚⬚ / ⬚⬚⬚⬚⬚ / ⬚⬚⬚⬚⬚
PLUG	☐
DC GROUND	⏚
BREAKER SWITCH	⤏

"REFRIG" BKR 10A
(AC/DC BKR PANEL)
(REAR VIEW)
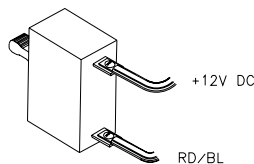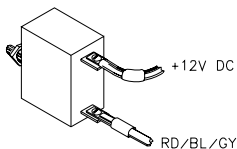
+12V DC

RD/BL

ELECTRONICS BKR 10A
(DASH BKR PANEL)
(REAR VIEW)

+12V DC

RD/BL/GY

THUNDERBIRD
PRODUCTS
ENGINEERING
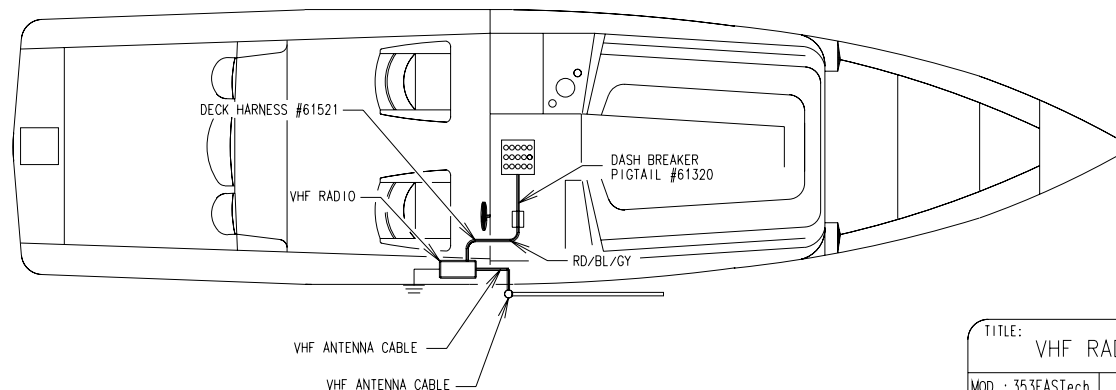

TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.
2. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, PORT SIDE, TURN THE PORT BATTERY SWITCH TO "ON".
3. ON THE AC/DC PANEL, IN THE CABIN, SWITCH THE "DC MAIN" AND "REFRIG" BREAKERS TO "ON".
4. THE REFRIGERATOR IS NOW SUPPLIED WITH POWER AND READY TO OPERATE.

REFRIGERATOR

AC/DC PANEL
12V DC SYSTEM
10A "REFRIG" BKR
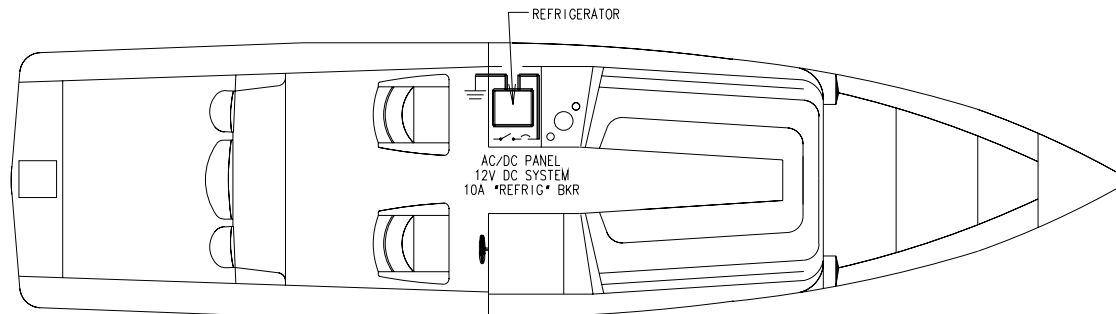
TITLE:	REFRIGERATOR	
MOD.: 353FASTech		**36A**
DR BY: SAJ		

TO OPERATE:

1. READ AND FULLY UNDERSTAND THE OWNER'S MANUAL.
2. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, PORT SIDE, TURN THE PORT BATTERY SWITCH TO "ON".
3. ON THE DASH BREAKER PANEL, THE "ELECTRONICS" BREAKER MUST BE PUSHED IN (CLOSED).
4. THE VHF RADIO IS NOW SUPPLIED WITH POWER AND READY TO OPERATE.
5. SEE THE VHF RADIO'S OPERATORS MANUAL FOR FURTHER INSTRUCTIONS ON OPERATING RADIO FUNCTIONS.

DECK HARNESS #61521

DASH BREAKER
PIGTAIL #61320

VHF RADIO

RD/BL/GY

VHF ANTENNA CABLE

VHF ANTENNA CABLE

TITLE:	VHF RADIO	
MOD.: 353FASTech		**36B**
DR BY: SAJ		

LEGEND

GROUND	⏚
BREAKER PANEL	(breaker panel symbol)
AC/DC BREAKER	(switch symbol)
PLEX BLOCK	(plex block symbol)
SPEAKER	(speaker symbol)
SOLENOID	(solenoid symbol)

WT/RD/RD   WT/PR
WT/BL/BL   WT/BN
WT/BN/BN   WT/BL
WT/PR/PR   WT/RD

VOLUME CONTROL
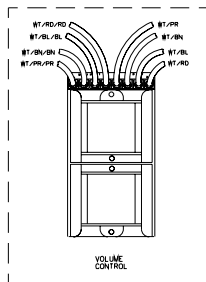
STEREO BKR 20A
(AC/DC BKR PANEL)
(REAR VIEW)

+12V DC

RD/WT
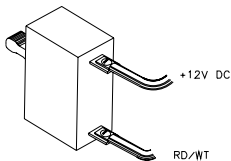
CONST. PWR BKR 15A
(AFT BKR PANEL)
(REAR VIEW)

+12V DC

PK/WT
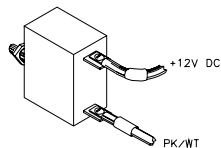
TO OPERATE:

1. LOCATED UNDER COCKPIT FLIP UP SEAT, TURN THE PORT BATTERY SWITCH TO "ON".

2. ON THE AFT BREAKER PANEL, THE "CONST. POWER" BREAKER MUST BE PUSHED IN (CLOSED).

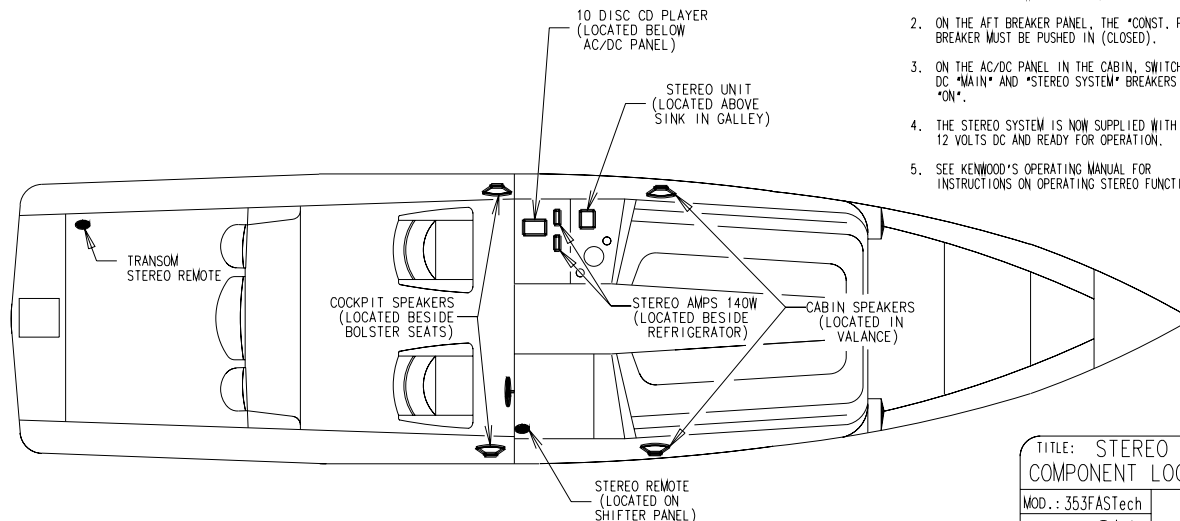3. ON THE AC/DC PANEL IN THE CABIN, SWITCH THE DC "MAIN" AND "STEREO SYSTEM" BREAKERS TO "ON".

4. THE STEREO SYSTEM IS NOW SUPPLIED WITH 12 VOLTS DC AND READY FOR OPERATION.

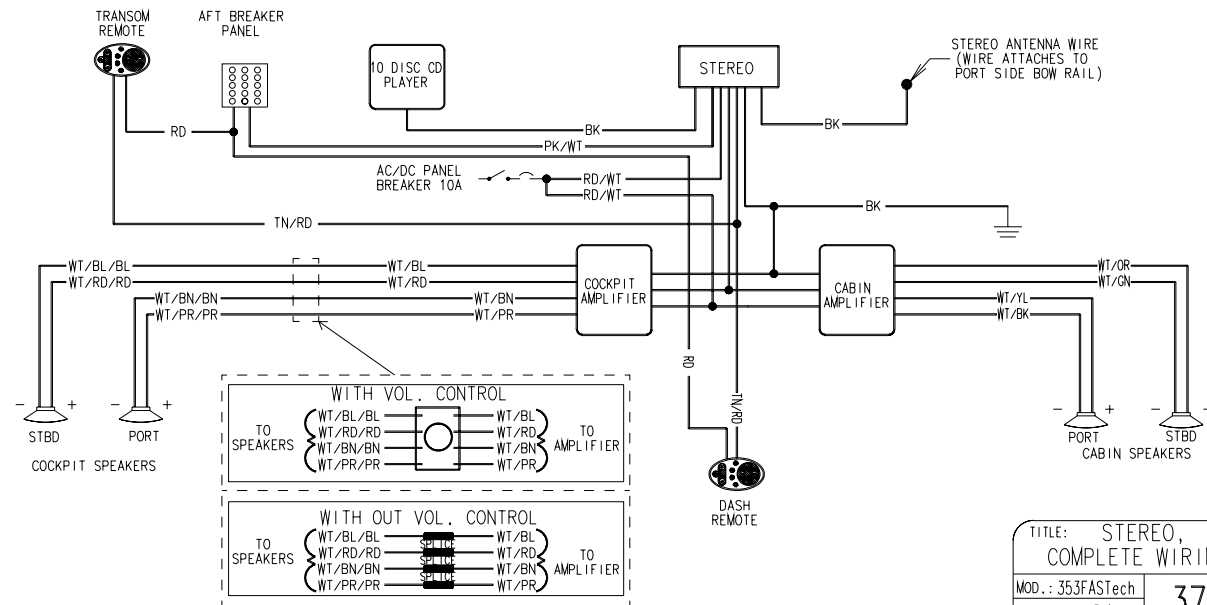5. SEE KENWOOD'S OPERATING MANUAL FOR INSTRUCTIONS ON OPERATING STEREO FUNCTIONS.

10 DISC CD PLAYER (LOCATED BELOW AC/DC PANEL)

STEREO UNIT (LOCATED ABOVE SINK IN GALLEY)

TRANSOM STEREO REMOTE

COCKPIT SPEAKERS (LOCATED BESIDE BOLSTER SEATS)

STEREO AMPS 140W (LOCATED BESIDE REFRIGERATOR)

CABIN SPEAKERS (LOCATED IN VALANCE)

STEREO REMOTE (LOCATED ON SHIFTER PANEL)

TITLE:	STEREO COMPONENT LOCATION	
MOD.: 353FASTech		37A
DR BY: SAJ		

TRANSOM REMOTE

AFT BREAKER PANEL

10 DISC CD PLAYER

STEREO

STEREO ANTENNA WIRE (WIRE ATTACHES TO PORT SIDE BOW RAIL)

RD

BK

PK/WT

BK

AC/DC PANEL BREAKER 10A

RD/WT
RD/WT

BK

TN/RD

WT/BL/BL   WT/BL
WT/RD/RD   WT/RD

WT/OR
WT/GN

WT/BN/BN   WT/BN
WT/PR/PR   WT/PR

COCKPIT AMPLIFIER

CABIN AMPLIFIER

WT/YL
WT/BK

STBD   PORT
COCKPIT SPEAKERS

RD

TN/RD

DASH REMOTE

PORT   STBD
CABIN SPEAKERS

WITH VOL. CONTROL

TO SPEAKERS		TO AMPLIFIER
WT/BL/BL		WT/BL
WT/RD/RD		WT/RD
WT/BN/BN		WT/BN
WT/PR/PR		WT/PR

WITH OUT VOL. CONTROL

TO SPEAKERS		TO AMPLIFIER
WT/BL/BL		WT/BL
WT/RD/RD		WT/RD
WT/BN/BN		WT/BN
WT/PR/PR		WT/PR

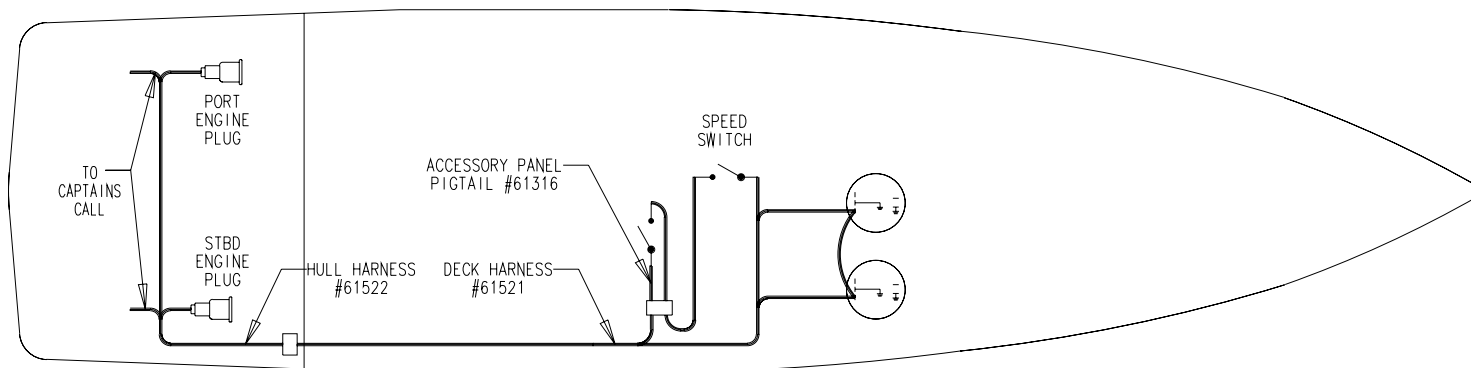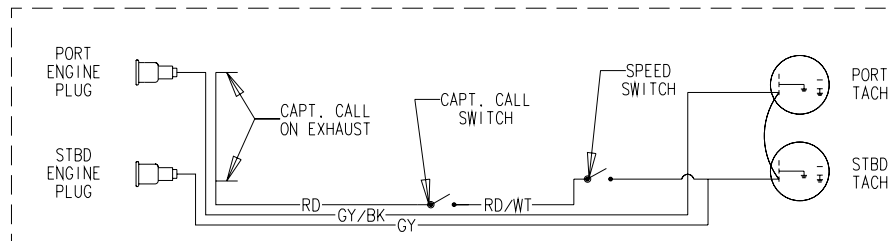| TITLE:	STEREO, COMPLETE WIRING	
MOD.: 353FASTech		37B
DR BY: SAJ		

LEGEND

ENGINE PLUG	
AC/DC BREAKER	
PLUG	

TO OPERATE:

1. LOCATED UNDER THE COCKPIT FLIP-UP SEAT, TURN THE PORT BATTERY SWITCH TO "ON".

2. THE CAPTIAN'S CALL CAN BE OPERATED BY "CAPT. CALL" SWITCH LOCATED ON THE ACCESSORY PANEL.

NOTE: THE CAPTIAN'S CALL WILL NOT OPERATE UNTIL EITHER ENGINE HAS REACHED 3000 RPM.

PORT ENGINE PLUG

STBD ENGINE PLUG

CAPT. CALL ON EXHAUST

CAPT. CALL SWITCH

SPEED SWITCH

PORT TACH

STBD TACH

RD — GY/BK — RD/WT
GY

TO CAPTAINS CALL

PORT ENGINE PLUG

STBD ENGINE PLUG

ACCESSORY PANEL PIGTAIL #61316

SPEED SWITCH

HULL HARNESS #61522

DECK HARNESS #61521

THUNDERBIRD PRODUCTS
ENGINEERING

TITLE: CAPTAIN'S CALL

MOD.: 353FASTech

DR BY: JAW

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LEGEND

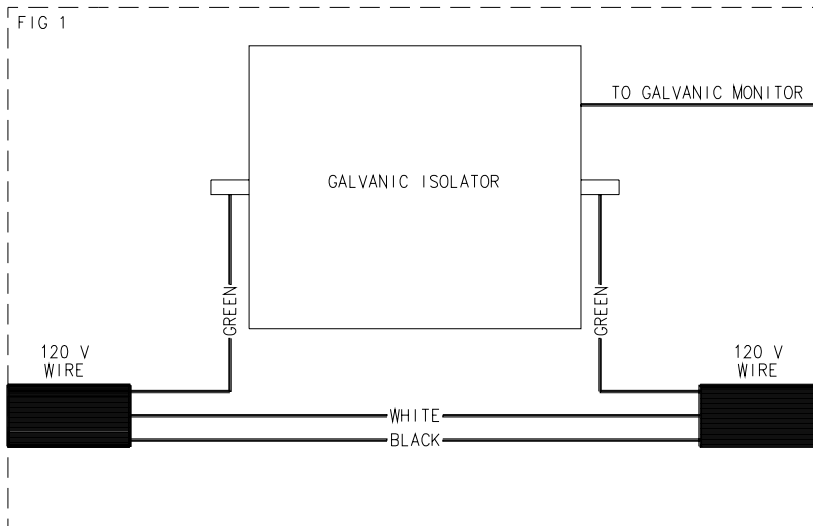|	
GROUND	⏚
AC/DC BREAKER	⌒⌒
PLUG	▯ ▭

FIG 1

GALVANIC ISOLATOR

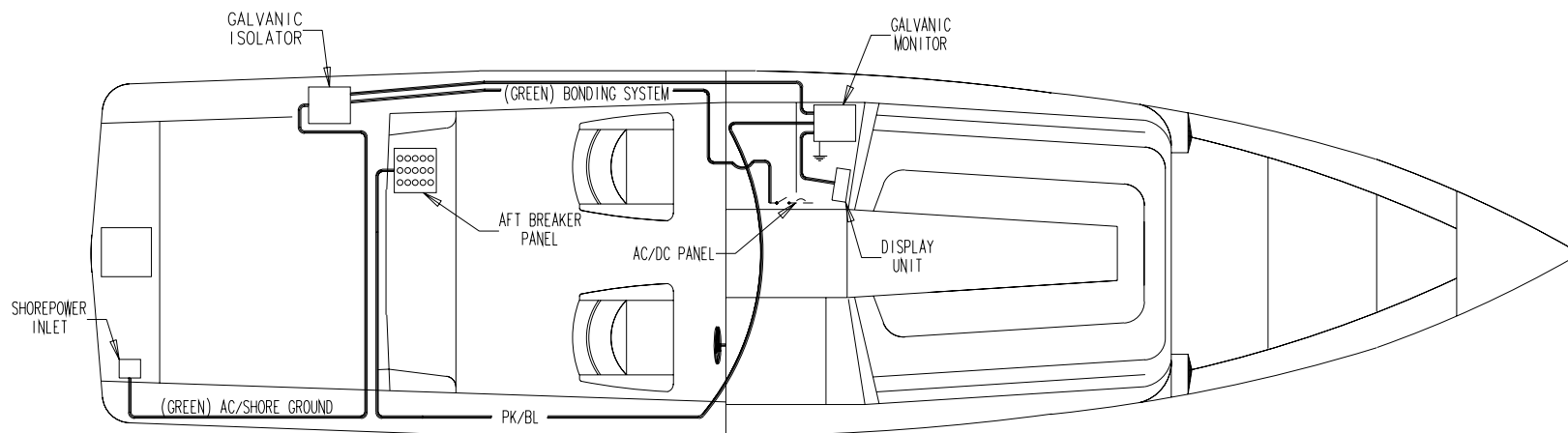TO GALVANIC MONITOR

GREEN

GREEN

120 V WIRE

120 V WIRE

WHITE

BLACK

TEST PROCEDURE:

1. PLUG IN SHORE CORD AND TURN ON SHOREPOWER BREAKER.

2. LOOK AT GALVANIC DISPLAY; IT SHOULD SAY GROUND WIRE NORMAL AND GALVANIC ISOLATOR NORMAL.

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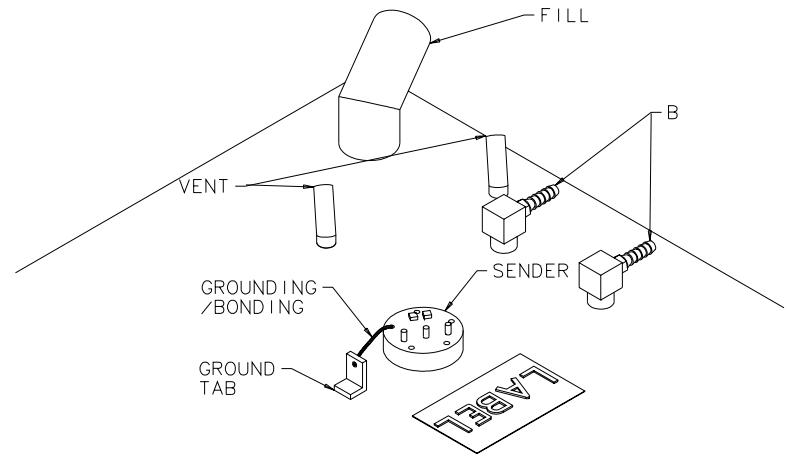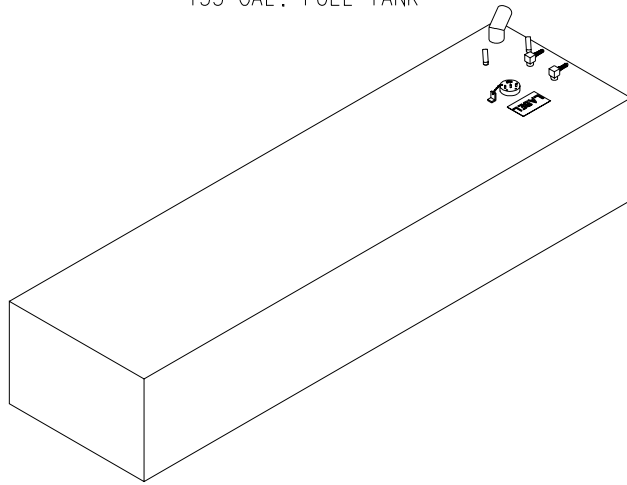GALVANIC ISOLATOR WILL OPERATE AUTOMATICALLY WHEN BOAT IS SUPPLIED WITH SHOREPOWER.

GALVANIC ISOLATOR

GALVANIC MONITOR

(GREEN) BONDING SYSTEM

AFT BREAKER PANEL

AC/DC PANEL

DISPLAY UNIT

SHOREPOWER INLET

(GREEN) AC/SHORE GROUND

PK/BL

THUNDERBIRD PRODUCTS
ENGINEERING

TITLE:	GALVANIC ISOLATOR
MOD.: 353FASTech	
DR BY: JAW	39

155 GAL. FUEL TANK

FILL

B

VENT

GROUNDING/BONDING

SENDER

GROUND TAB

LABEL

FUEL TANK PICKUP LINES

PORT ENGINE

STBD ENGINE

FUEL TANK

PORT
TRANSOM

PORT DRAIN
PLUG

FUEL TANK

THRU HULL

STBD DRAIN
PLUG

STBD
TRANSOM

GUNWALE

FUEL FILL

THUNDERBIRD
PRODUCTS
ENGINEERING

TITLE: BONDING

MOD.: 353FASTech

DR BY: JAW

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