**VERSION 2** 

## MILITARY EMERGENCY BOAT SERVICE TECHNICAL MANUAL BOOK 07

## **LANDING CRAFT 350 CLASS**

DISTRIBUTION STATEMENT: APPROVED FOR PUBLIC RELEASE, DISTRIBUTION IS UNLIMITED.

PUBLISHED BY DIRECTION OF COMMANDER, NEW YORK NAVAL MILITIA

### MILBOATSTECHMAN/BK-07 LC 350 CLASS

## 22FEB23

From: Commander, New York State Military Emergency Boat Service

## Subj: PROMULGATION OF MILITARY BOATS TECHNICAL MANUAL SERIES BOOK 7; LC 350 CLASS VESSEL

1. The New York State Military Emergency Boat Service Technical Manuals (MILBOATSTECHMAN) are consolidated information for each class of vessel in the boat service. They are intended to provide basic information regarding each class, with an overview on operational parameters, missions, equipment layout, and some basic troubleshooting guides if not provided by commercial owner's manuals.

2. Book 7 of the MILBOATSTECHMAN covers the LC 350 Class vessel.

3. This manual does not replace existing repair manuals provide by equipment suppliers.

D. K. MCKNIGHT CAPT NYNM



LC 350 New York Harbor

#### LC 350 CLASS VESSEL INFORMATION AND OPERATIONAL CAPABILITIES

#### A. <u>General</u>.

The LC 350 Class vessel is a 39 foot boat (LOA) with twin outboard engines, and includes an accompanying trailer.

The class consists of two boats, built by William E. Munson Company, of Burlington, Washington. LC-350 was received in July 2018. LC-351 was received in March 2022.

- 1. The model of boat is: Munson 35 PackCat
- 2. Length: hull length: 35 feet. Length Overall (LOA): 39 feet, 0 inches.
- 3. Beam: 12 feet 2.5 inches
- 4. Hull type: Catamaran
- 5. Draft: Motor in lowered position: 30 inches
- 6. Freeboard: 41 inches
- 7. Height on trailer: 13 feet 1 inches
- 8. Average full weight: 15,000 lbs. with fuel
- 9. Fuel capacity: 300 gallons (gasoline), 1 tank
- 10. Crew size: 2-3 (Maximum 30 persons)
- 11. Propulsion:

LC-350: Two Mercury Optimax 250 hp 2-stroke outboard motors

LC-351: Two Mercury Four-stroke 250 hp V-8 outboard motors

- a. Maximum speed: 45 MPH (6000 RPM)
- 12. Generator: n/a

#### B. Operational Parameters.

The following are important guidelines to safely operate the vessel:

## 1. Adding cargo or other weight forward will change the center of buoyancy, causing the bow to settle further into the water, especially at slower speeds.

a. Do not open bow door until vessel is at bare steerageway, or stopped. Otherwise, flooding may occur. This is especially important when carrying any cargo or weight in the forward area. (see image)



b. Plug the 1" drains near the bow door to prevent water coming up onto the deck.

2. LC-350 (only) is equipped with two-stroke engines, which consume injection oil along with gasoline. Operators must routinely check injection oil levels in the reservoirs found in the locker at the transom to ensure adequate supply.

3. The radar arch is designed to be removable for trailering operations. There are 8 nuts/bolts that secure arch (which includes blue strobe lights, radar sensor, and white light mast) to the cabin roof. The arch must be removed for trailering on public roads.

4. The vessel is considered a "Wide-Load" for towing.

#### C. <u>Missions.</u>

The boat is capable of several missions including patrol and cargo/personnel lift. With an enclosed and heated cabin, it is suitable for year-round operations. With a catamaran hull, it is a stable platform well-suited to operate in rough waters. For the purposes of NYNM, the primary missions are cargo lift and maritime patrol.

D. <u>Features</u>.

The boat includes the following features and components:

1. Hull:

a. Aluminum construction, with 5/16-inch bottom plate, 1/4-inch side plate, and 3/16

inch deck plate.

- b. Catamaran hull
- c. Welded aluminum bow, stern, roof, and aft cabin rails
- d. 84in bow door with manual winch and safety chains. Rated to 4000 lbs.
- e. Push knees, port and starboard bows.

- f. Centerline wave breaker between the two catamaran hulls.
- g. Lifting crane, starboard; 500 lbs. capacity.
- h. Access door, starboard.
- i. All cabinets are key-lockable. SouthCo Orca T-handle compression latch.
- 2. Deck:
  - a. (6) Aluminum tie-down pockets, rated at 500lbs each.
  - b. Self bailing scuppers
  - c. (8) 10-inch welded cleats
  - d. 4-inch aluminum tow post
  - e. Hatches (2) aft, (1) cabin, (2) bow
  - f. Bow locker for anchor storage
- 3. Cabin:
  - a. Forward leaning windshield with ¼-inch clear, tempered glass-Diamond

#### SeaGlaze.

- b. Sliding Diamond SeaGlaze side windows
- c. Windshield wipers (2 speed) (3)
- f. Overhead grab rails
- h. Heater, diesel WEBASTO 40 Airtop with 5-gallon fuel tank.
- h. 2 Bentley Captains seats, 1 bench
- i. Carbon monoxide detector-Xintex
- j. Removable radar arch
- 4. Engines:
  - a. LC-350: Twin outboards; 250 hp Mercury Optimax two-stroke, counter rotating
    - (1) Ref: Mercury Marine Manual 8M0113742 1215
  - b. LC-351: Twin outboards; 250 hp Mercury four-stroke, counter rotating
    - (1) Ref: Mercury Marine Manual 8M0175492
- 5. Generator: N/A
- 6. Steering:
  - a. Seastar Helm wheel

- 7. Fuel system:
  - a. 300 gallons (single tank, centerline)
  - b. Fuel tank fills on port side
  - c. Requires two-stroke injection oil
- 8. Electrical system:
  - a. 12VDC system with three batteries (port, starboard, house)
  - b. Electronic battery charger Xantrex TrueCharge2
  - c. 8 breaker panel-Blue Sea Systems, 12 VDC
  - d. Bilge pump Rule-Mate 2000 GPH (4)
  - e. Shore power connection: Marinco 50-foot, 30amp, 125 volt, 2 pole, 3 wire yellow 10AWG
  - f. 12 VDC outlets (2) on dash, including USB ports.
  - g. 120 VAC outlet to the right of helm station near deck
- 9. Lighting:
  - a. Navigation/anchor lights -
  - b. Dual blue strobe lights on radar arch
  - c. Interior LED lighting including red night lights
  - d. Fore/aft deck flood lights
- 10. Navigation and electronics:
  - a. Multi-Function Device Furuno TZTouch 12 with NAVnet
    - (1) Ref: Furuno Electric Co Pub. No. OSE-44870-A

## **Operational Overview**

## Home screen operations



## How to select a display

- From the home screen (see above)
- From the quick page



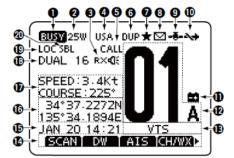


The quick page has the display icons selected to large size on the home screen.

Quick page

- b. Binnacle compass Ritchie Helmsman HF743
- c. AIS em-trak A100 Class A
- d. Marine VHF Radio ICOM M506 (2)

## Function display



#### BUSY/TRANSMIT ICON (pp. 11, 12)

- The "EUSY" icon appears when receiving a signal or when the squelch is open.
- The "IX" icon appears while transmitting.

#### **POWER ICON** (p. 11)

- The "25W" icon appears when high power is selected.
- The "1W" icon appears when low power is selected.

#### 8 RX HAILER ICON (p. 75)

Appears while in the RX Hailer mode.

#### **OCHANNEL GROUP ICON** (p. 10)

- The selected channel group icon, USA "USA," International "INT" or Canadian "CAN" appears.
- The "WX" icon appears when the weather channel is selected.

#### KEY ICON (p. 7)

Shows the programmed function of the softkeys on the front panel.

#### TIME ZONE INDICATOR

- Shows the current time when a GPS receiver is connected, or the time is manually programmed.
  - When the GPS current time is invalid, "??" will blink every 2 seconds instead of the current time. After 23.5 hours has passed, "NO TIME" will appear.
  - "??" will blink every 2 seconds instead of the current time, after 4 hours have passed from when the time was manually programmed. The manually programmed time is held for only 23.5 hours, and after that, "NO TIME" will appear.
- "LOCAL" appears when the offset time is set.
- "MNL" appears when the time is manually programmed.
- "UTC" appears when the GGA, GLL or GNS GPS sen-
- tence formats are included in the GPS signal. The date information appears when the RMC GPS sen-
- tence formats are included in the GPS signal.
  "NO TIME" appears when no GPS receiver is connected, and no time is manually input.

#### **B** POSITION INDICATOR

- Shows the current position when a GPS receiver is connected, or the position is manually programmed.
   When the GPS position is invalid, "??" may blink every 2 seconds instead of position. The last position is held for only 23.5 hours, and after that, "NO POSITION" will appear.
  - 11. Gauges:
    - a. Mercury SmartCraft

- G CALL CHANNEL ICON (p. 9) Appears when the Call channel is selected.
- OUPLEX ICON (p. 10) Appears when a duplex channel is selected.
- FAVORITE CHANNEL ICON (p. 17) Appears when a Favorite (Tag) channel is selected.

#### 8 MESSAGE ICON

Blinks when there is an unread DSC message.

#### GPS ICON

- Stays ON when the GPS receiver is activated and valid position data is received.
- Blinks when invalid position data is being received.

#### SWITCH ICON (p. 69)

Appears when the "CH 16 SWITCH" in DSC Settings is set to OFF.

#### LOW BATTERY ICON

Blinks when the battery voltage drops to approximately 10.8 V DC or less.

#### CHANNEL NUMBER READOUT

Shows the selected operating channel number. • When a simplex channel is selected, "A" or "B" appears.

#### CHANNEL NAME FIELD

The channel name appears, if programmed. (p. 13)

- "??" will blink every 2 seconds instead of position, after 4 hours have passed from when the position is manually programmed. The manually programmed position is held for only 23.5 hours, and after that, "NO POSITION" will appear.
- "NO POSITION" appears when no GPS receiver is connected, and no position is manually input.

#### COURSE/SPEED INDICATOR

Shows the course and speed of your vessel if the GPS receiver is connected to the transceiver.

 Course and speed are displayed when the RMC GPS sentence format is included in the GPS signal.

Course and speed are also displayed when the VTG and either the GGA, GLL or GNS GPS sentence formats are included in the GPS signal.

#### SCAN INDICATOR

- "SCAN 16" appears during a Priority scan; "SCAN" appears during a Normal scan. (p. 17)
- "DUAL 16" appears during Dualwatch; "TRI 16" appears during Tri-watch. (p. 18)

#### LOCAL ICON (p. 11)

Appears when the Attenuator function is turned ON.

#### VOICE SCRAMBLER ICON\* (p. 78)

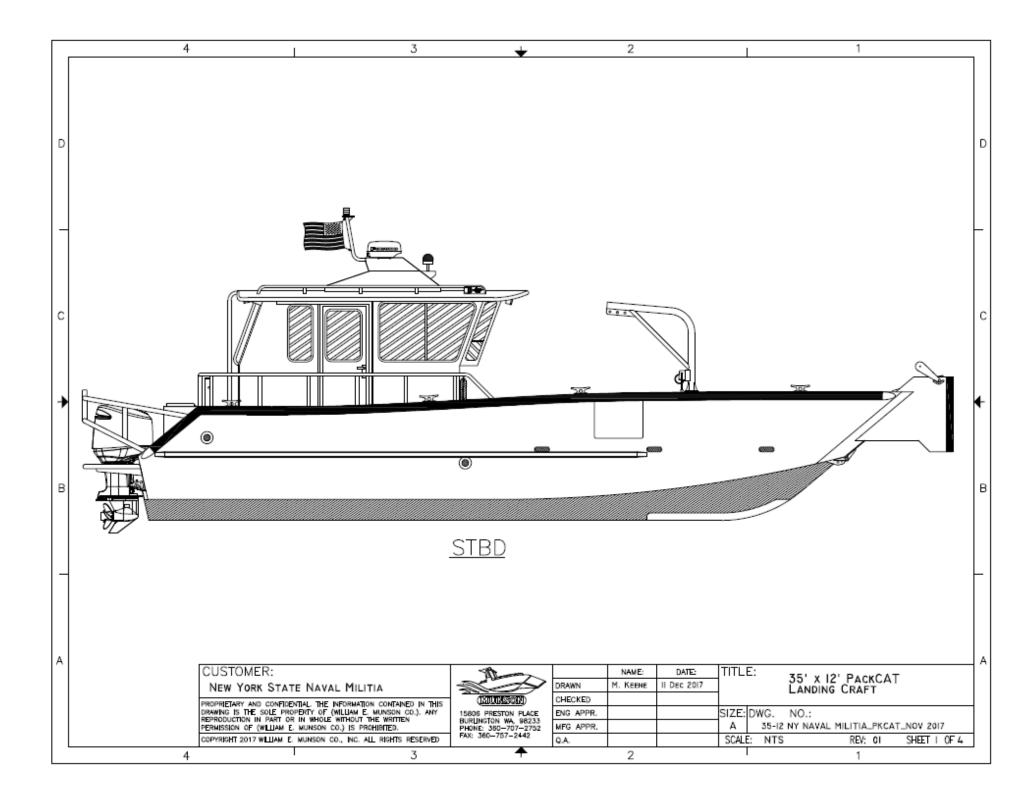
Appears when the Voice Scrambler function is turned ON. \*Appears only when the voice scrambler unit is installed.

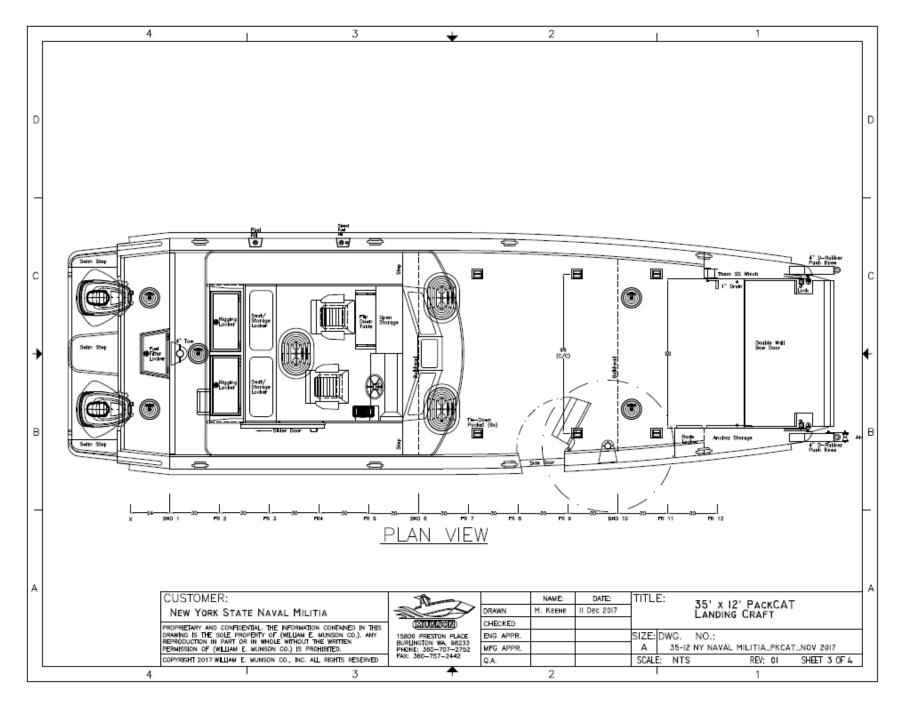
- b. Fuel gauge on center gauge menu
- 12. Ground tackle:
  - a. Anchor, 16 lbs. Danforth Standard S1300;
- 13. Safety equipment:
  - a. (2) Fire extinguisher 10 lb., ABC
  - b. PDFs (Type III)
  - c. Emergency flare kit
  - d. Ring buoy
  - e. Electric horn
- 14. Trailer:

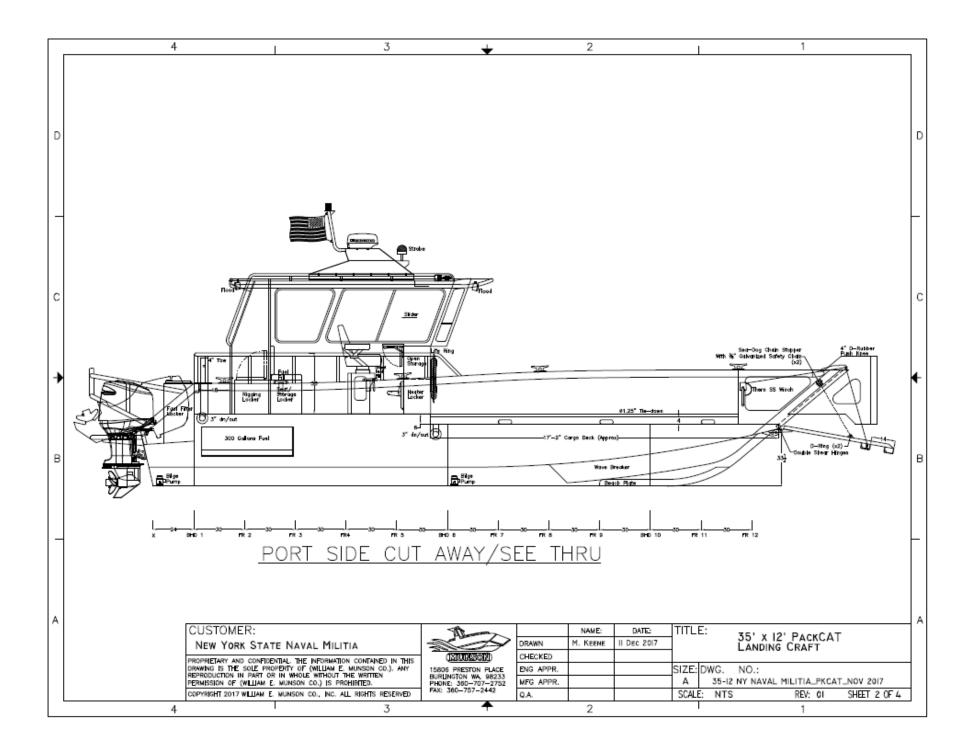


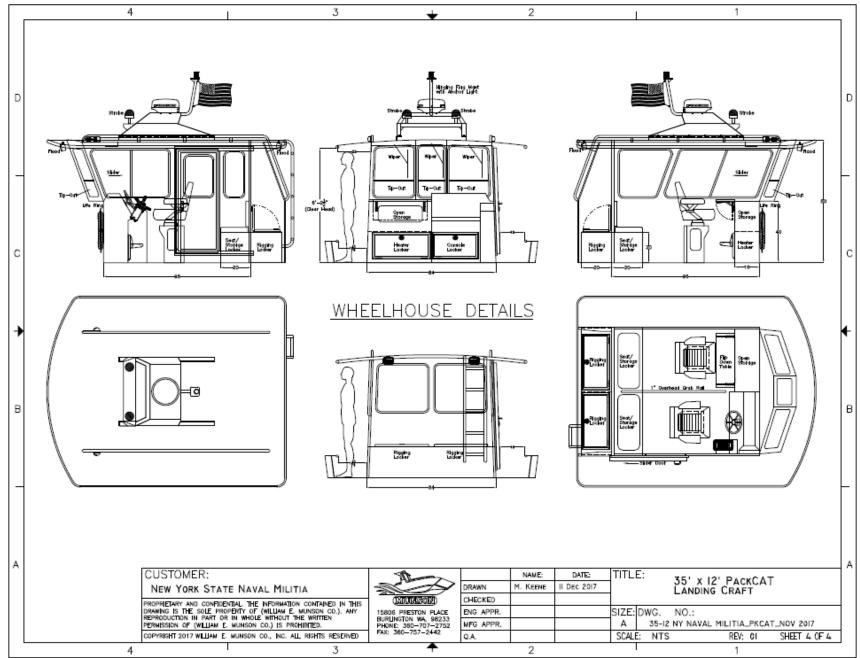
a. Tri-axle trailer – Tuff Trailer MTT18200TG aluminum

- b. GVWR: 21000 lbs.
- c. 18,200 lb. capacity
- d. Trailer weight: 2800 lbs.
- e. Hand winch, Hydrastar surge brakes, spare tire
- f. Trailer is 42 feet 6 inches in length when combined with boat.
- g. Trailer dimensions: 36 feet 8 inches long, 8 feet 7 inches wide.











(LC 350 Bow view)



(LC 350 Stern view)





(WEBASTO diesel heater)





(Electrical switch panel)



### Introduction:

The fuel system of your Munson Boat has been specifically designed and constructed for your vessel. It has been tested and inspected in accordance with ABYC and CFR standards to ensure safe operation and environmental compliance.

### **Specifications & Capacities:**

Boat Model	Pa
Boat Length	35'
HIN	ML
Tank Description	Sin
Tank Total Volume	327
Tank Rated Capacity	300

PackCAT 35' MUN887PKC818 Single Fuel Tank 327 GAL 300 GAL

### Fueling Your Vessel:

Proper fueling is very important in preventing onboard fires. Gasoline vapors are heavier than air and can spread rapidly into enclosed spaces. Refer to section III of the owner's manual for pre-departure recommendations on inspecting / clearing the fuel tank void of vapors.

Under federal law (the Oil Pollution Act of 1990 and the Clean Water Act) it is illegal to discharge any petroleum product into the water. By law, any oil or fuel spill that leaves a sheen on the water must be reported to the U.S. Coast Guard at **1-800-424-8802**.

WARNING: NEVER TOP OFF YOUR FUEL TANKS AFTER AUTOMATIC PUMP SHUTOFF. DOING SO MAY RESULT IN DAMAGE TO EVAPORATIVE EMISSIONS SYSTEM

### **Emission Certification Information & Testing:**

### Fuel Tank:

Munson Fuel Tanks are constructed with .25" 5052 – H32 Aluminum and meet all permeation emission control requirements listed under 40 CFR 1060.103. All tanks undergo Static pressure testing in accordance with procedures specified under 33CFR 183.580.

### **Emission Standards and Related Requirements:**

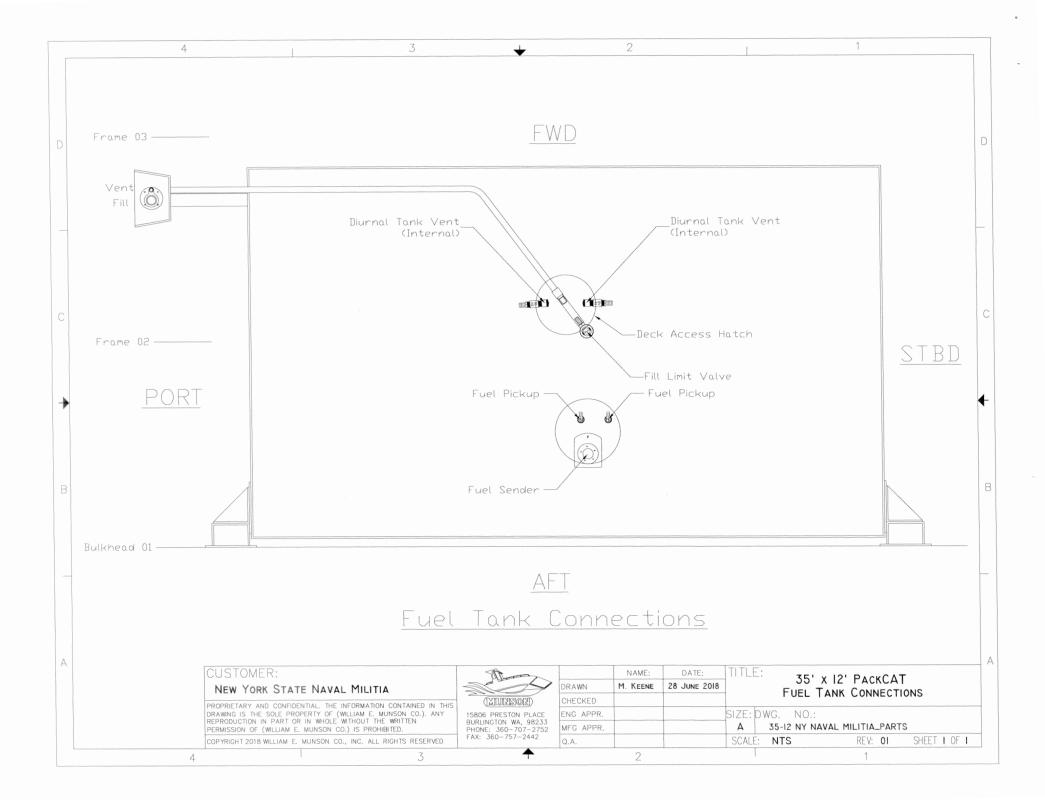
In compliance with ABYC and CFR statues designed to protect and preserve the environment, Munson fuel systems are designed in accordance with the following emission standards and requirements:

- (a) Title 40CFR Section 1060.102 permeation emission control requirements for fuel lines
- (b) Title 40CFR Section 1060.103 permeation emission control requirements for fuel tanks
- (c) Title 40CFR Section 1060.105 diurnal emission control requirements for fuel tanks.
- (d) General requirements for components and equipment subject to the emission standards in Title 40CFR 1060.102 through 1060.105
- (e) ABYC 24.18.4.1 Fuel System Testing Emission components.

### **Diurnal Emissions Components:**

Munson fuel systems are designed using Perko components. All Perko components are EPA certified (where applicable) and carry a manufacturer's warranty.

Component	Perko Part #	Quantity
Fill Limit Valve (1-1/8")	0586T0118	1
Inlet Check Valve	0635000	1
Fuel Fill	0663G00BLK	1
Carbon Canister (2.0L)	0486020055	1
Air – Fuel Separator	0488001	1
P-Trap Vent Valve	0630004BLK	1



SNIHOMITED STATES . LINISON	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 2018 MODEL YEAR CERTIFICATE OF CONFORMITY WITH THE CLEAN AIR ACT			OFFICE OF TRANS AND AIR QU ANN ARBOR, MICI	ALITY	
Certificate Issued To: Delphi Corporation (U.S. Manufacturer or Importer) Certificate Number: JDPHPMDRNN10-002		Effective Da 12/12/2017 Expiration Da 12/31/2018	ate:		r, Division Director nce Division	Issue Date: 12/12/2017 Revision Date: N/A
Manufacturer: Delphi Corpo Evaporative Family: JDPHH Category: EVAP_FAMILY Useful Life: 10 Years Applicable Regulation: Part Applicable Emission Stands Design Based Certification:	PMDRNN10 : 1060 <b>ard:</b> 0.16 ( g/gal/day )					

Pursuant to Section 213 of the Clean Air Act (42 U.S.C. section 7547), 40 CFR Part 90, 40 CFR Part 1054, 40 CFR Part 1045 or 40 CFR Part 1060 and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued for the diurnal systems, more fully described in the documentation required by 40 CFR Part 90, 40 CFR Part 1054, 40 CFR Part 1045 or 40 CFR Part 1054, 40 CFR Part 1045 or 40 CFR Part 1054, 40 CFR Part 1045 or 40 CFR Part 1054, 40 CFR Part 1045 or 40 CFR Part 1054, 40 CFR Part 1045 or 40 CFR Part 1045 or 40 CFR Part 1045 or 40 CFR Part 1054, 40 CFR Part 1045 or 40 CFR Part 1054, 40 CFR Part 1045 or 40 CFR Part 1045

This certificate of conformity covers only the diurnal systems which conform in all material respects to the design specifications that applied to those components described in the documentation required by 40 CFR Part 1054, 40 CFR Part 1054, 40 CFR Part 1045 or 40 CFR Part 1060 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 90, 40 CFR Part 1045 or 40 CFR Part 1060. This certificate of conformity does not cover diurnal systems imported prior to the effective date of the certificate.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR Part 90.126, 40 CFR Part 90.506, or 40 CFR Part 1068.20 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 90, 40 CFR Part 1054, 40 CFR Part 1045 or 40 CFR Part 1060. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 90, 40 CFR Part 1054, 40 CFR Part 1054, 40 CFR Part 1045 or 40 CFR Part 1045 or 40 CFR Part 1060.

PTIC

This certificate does not cover diurnal systems sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

STATES - DATE ON SOM	UNITED STATES ENVIRONM 2017 MC CERTIFICATE WITH THE C	OFFICE OF TRANS AND AIR QU ANN ARBOR, MICI	ALITY		
Certificate Issued To: Perl (U.S.) Certificate Number: HPER	Manufacturer or Importer)	Effective Date: 11/28/2016 Expiration Date: 12/31/2017		r, Division Director nce Division	Issue Date: 11/28/2016 Revision Date: N/A
Manufacturer: Perko, Incor Evaporative Family: HPER Category: EVAP_FAMILY Useful Life: 10 Years Applicable Regulation: Part Applicable Emission Stands Design Based Certification:	PMDRN640 1060 <b>ard:</b>				
1	Clean Air Act (42 U.S.C. section 7547), 40 CFR Part conformity is hereby issued for the diurnal systems, mo		200	-	

This certificate of conformity covers only the diurnal systems which conform in all material respects to the design specifications that applied to those components described in the documentation required by 40 CFR Part 90, 40 CFR Part 1054, 40 CFR Part 1045 or 40 CFR Part 1060 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 90, 40 CFR Part 1045 or 40 CFR Part 1060. This certificate of conformity does not cover diurnal systems imported prior to the effective date of the certificate.

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pno<sup>rs</sup>

This certificate does not cover diurnal systems sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

# **PERKO**<sup>®</sup> Certificate of Compliance

Name of Product: 0630

Type of Product: P-Trap

Manufacturer:

PERKO, Inc. 16490 N.W. 13th Avenue Miami, Florida 33169-5707 U.S.A.

These products are for use on fuel tanks to comply with the EPA standards and meet the requirements of U.S.C.G. Safety Standards (July 31, 2011) for 40 CFR Parts 9, 60, 80 et al. (Control of Diurnal Emissions From Nonroad Spark-Ignition Engines and Equipment). :

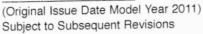
## Tested in accordance with ABYC Safety Standards for Gasoline Fuel Systems, H-24.

P-trap - H-24 Watertight-weathertight - Imanna - 10/28/10



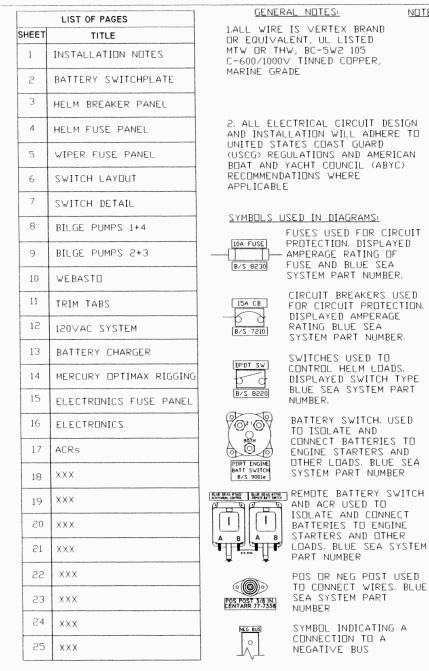
(Signatory)

10/28/10





## INSTALLATION NOTES



#### NOTES FOR LOADS AND WIRE SIZES:

1. HELM DC PANEL - 80A LOAD 3% ∨OLTAGE DROP 35 FT WIRE RUN = #0 AWG CABLE

HELM PANEL WIRE SIZE							
ROUND TRIP(FT)	15-25	25-30	30-45	45-57			
WIRE GAUGE	#2	#1	#0	#00			

2. BILGE PUMPS 1 & 4 - 15A LOAD 3% ∨OLTAGE DROP 35 FT WIRE RUN = #8 AWG CABLE

BILGE PUMP WIRE SIZE							
ROUND TRIP(FT)	<39	39-60	60-96				
WIRE GAUGE	#8	#6	#4				

3. BILGE PUMPS 2 & 3 - 15A LOAD 3% VOLTAGE DROP

35 FT WIRE RUN = #8 AWG CABLE

BIL	GE PU	MP VI	RE SIZ	ε
ROUND TRIP(FT)	<39	39-60	60-96	
WIRE GAUGE	#8	#6	#4	

4. #1 BILGE PUMP - 7.5A L⊡AD 3% VOLTAGE DROP 39 FT WIRE RUN = #10 AWG CABLE

BILGE	PUMP	WIRE	SIZE	
ROUND TRIP(FT)	<35	32-51	51-81	81-130
WIRE GAUGE	#12	#10	#8	#6

5. #2 BILGE PUMP - 7.5A LOAD 3% ∨OLTAGE DROP

32 FT WIRE RUN = #10 AWG CABLE

BILGE	PUMP	WIRE	SIZE	
ROUND TRIP(FT)	<35	32-51	51-81	81-130
WIRE GAUGE	#12	#10	#8	#6

6. #3 BILGE PUMP - 7.5A LOAD 3% VOLTAGE DROP 65 FT WIRE RUN = #8 AWG CABLE

BILGE	PUMP	WIRE	SIZE	
ROUND TRIP(FT)	<35	32-51	51-81	81-130
WIRE GAUGE	#12	#10	#8	#6

15806 PRESTON PLACE

PH: 360.707.2752 Fax: 360.757.2442

BURLINGTON, WA. 98233

WILLIAM

MUNSON

BATTERY RESERVE CAPACITY	CHARGING SOURCE RATINGS			
2 BATTERIES X 160 MIN = 320 MIN	SOURCE	AMPS	WATTS	
320 MIN X 25 AMPS = 8000 AMP MINUTES	STBD ALTERNATOR	60	720	
8000 MIN/55A LOAD = 145 MIN	PORT ALTERNATOR	60	720	
145 MIN/60 = 2.4 HOURS OF BAT RESERVE				

4-26-2018

DATE

DRAWN BY

BPE

FILE

**35 MILITIA** 

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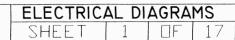
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35' X 12' PACKCAT FOR NEW YORK STATE NAVAL MILITIA



7. #4 BILGE PUMP - 7.5A LOAD 3% VOLTAGE DROP 58 FT WIRF RUN = #8 AWG CABLE

)	Г	1	WIKE	RUN	-	#0	AWU	CADL
		Г	D1: 65	DUND		0135		Г

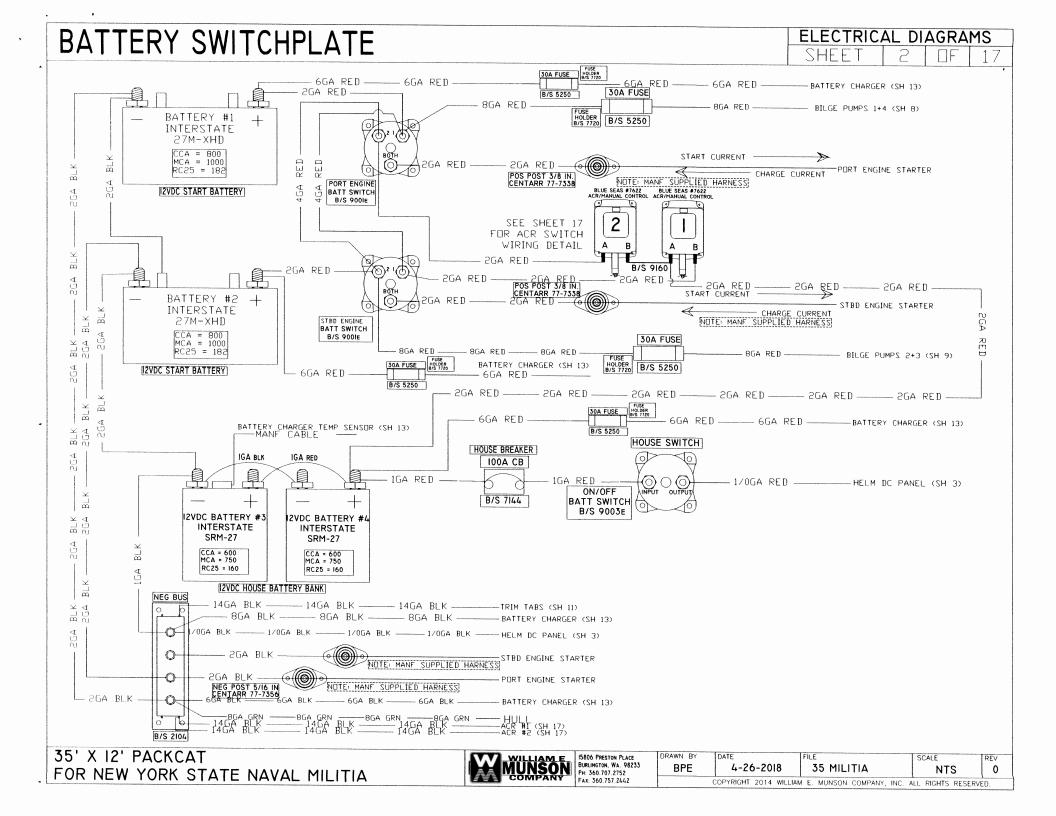
BILGE	PUMP	WIRE	SIZE	
ROUND TRIP(FT)	<35	32-51	51-81	81-130
WIRE GAUGE	#12	#10	#8	#6

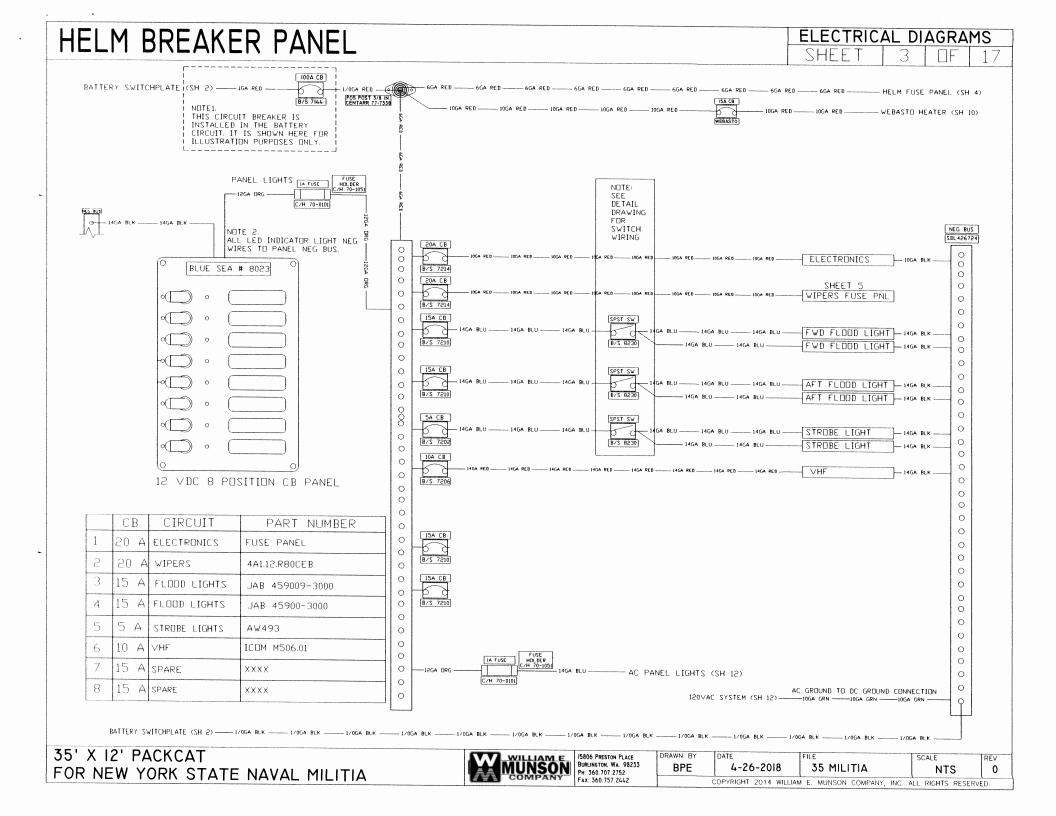
8. ENG STARTER REQUIREMENTS MANUFACTURE RECOMMENDATIONS 20 FT WIRE RUN = #2 AWG CABLE

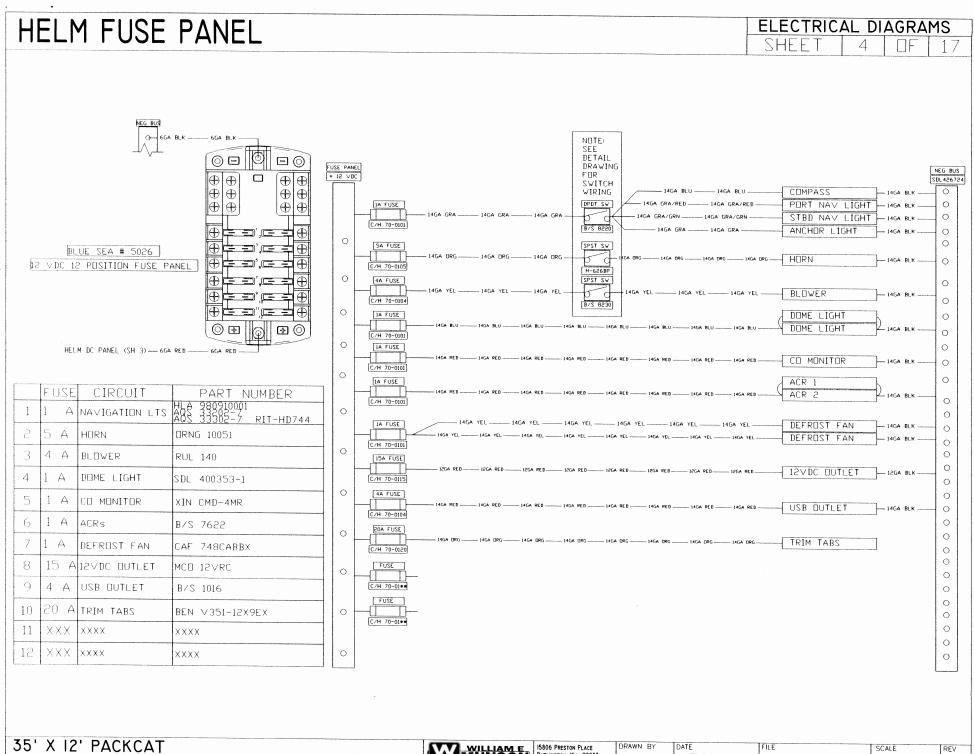
200-250 DP	TIMAX	ENG ST	RTR	VIRE	SIZE
ROUND FRIP(FT)	<51	22-24			
WIRE GAUGE	#5	#0			

9. BATTERY CHARGER - 20A LOAD 3% ∨OLTAGE DROP 15 FT WIRE RUN = #6 AWG CABLE

BATTERY CHARGER WIRE SIZE						
DNE WAY TRIP(FT)	<15	12-50	20-40	40-60		
WIRE GAUGE	#8	#6	#4	#2		

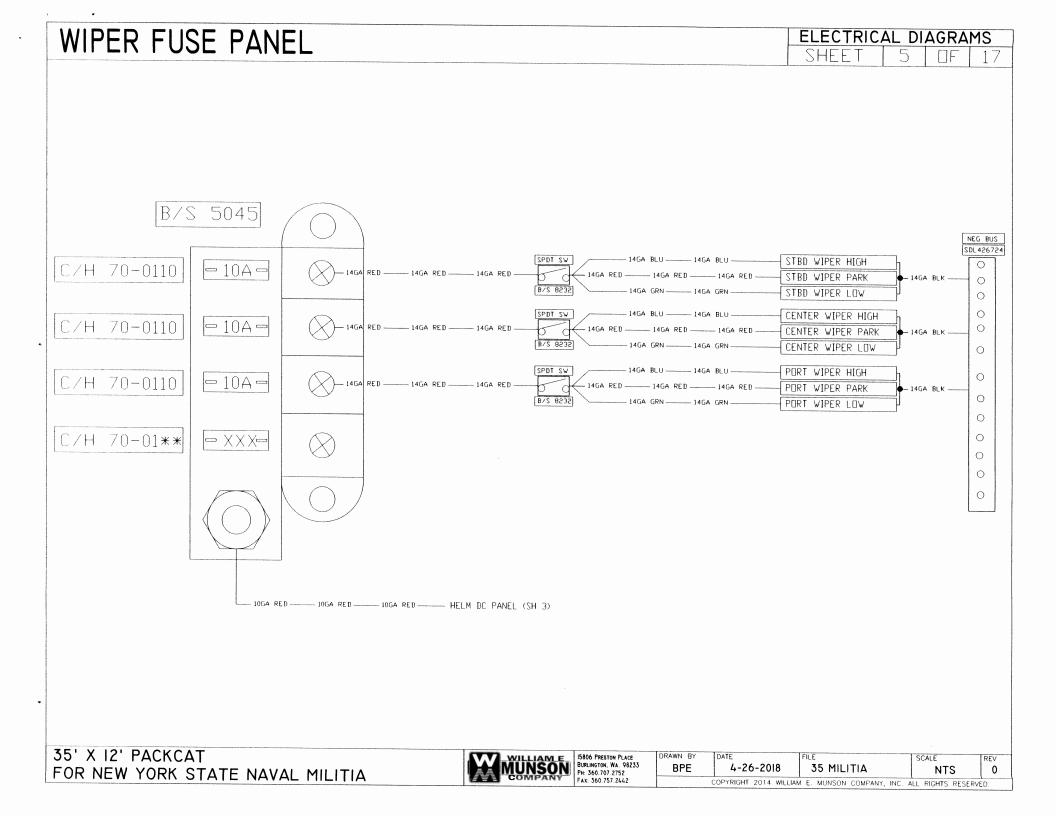




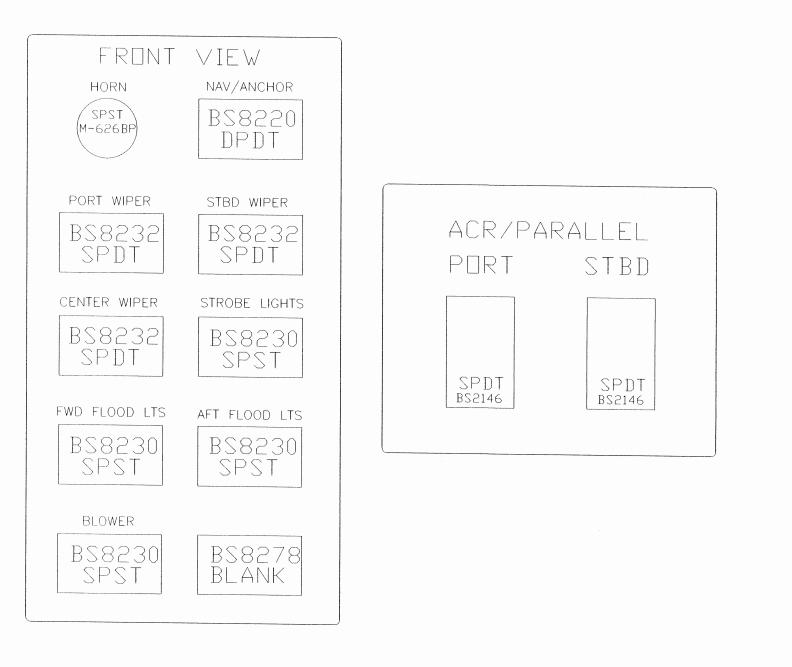


FOR NEW YORK STATE NAVAL MILITIA

WILLIAM E MUNSON COMPANY H: 360.707.2752 E.W. 360.727.2752	BPE	DATE 5-8-2018	TILE 35 MILITIA	SCALE NTS	REV I	
FAX: 360.757.2442	(	COPYRIGHT 2014 WILLIAM	E. MUNSON COMPANY, INC. A	LL RIGHTS RESERVE	D.	1



## SWITCH LAYOUT



35' X 12' PACKCAT FOR NEW YORK STATE NAVAL MILITIA



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ELECTRICAL DIAGRAMS

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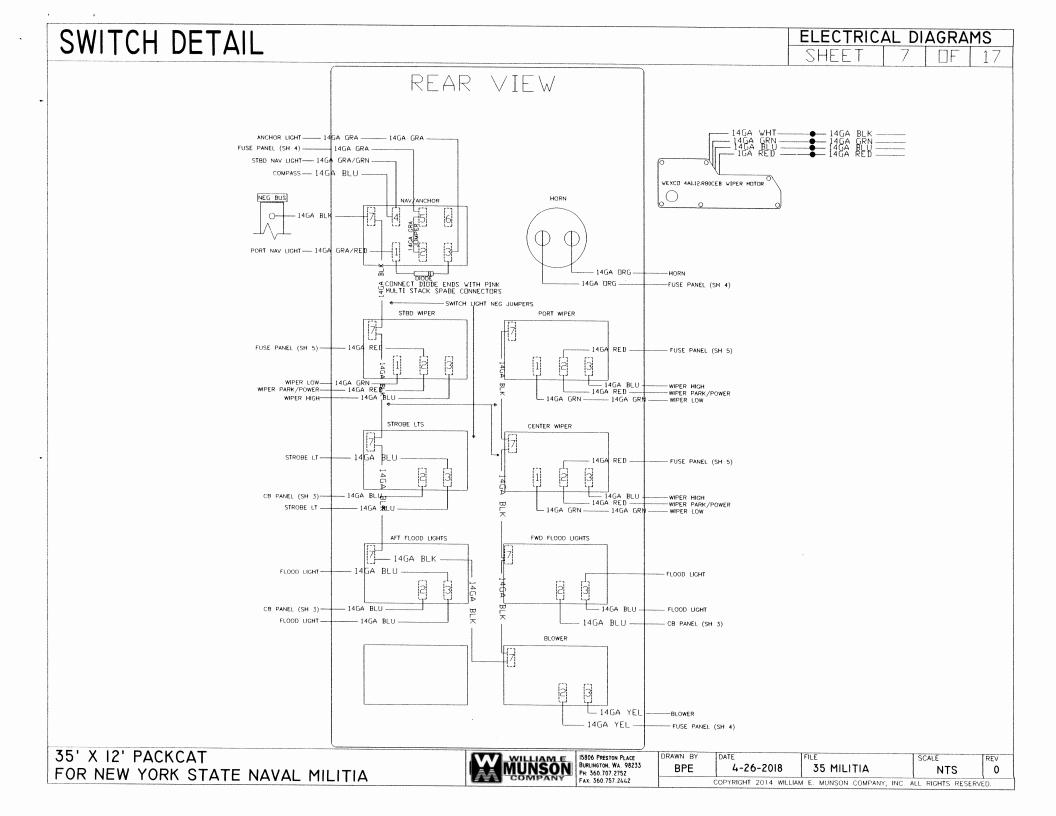
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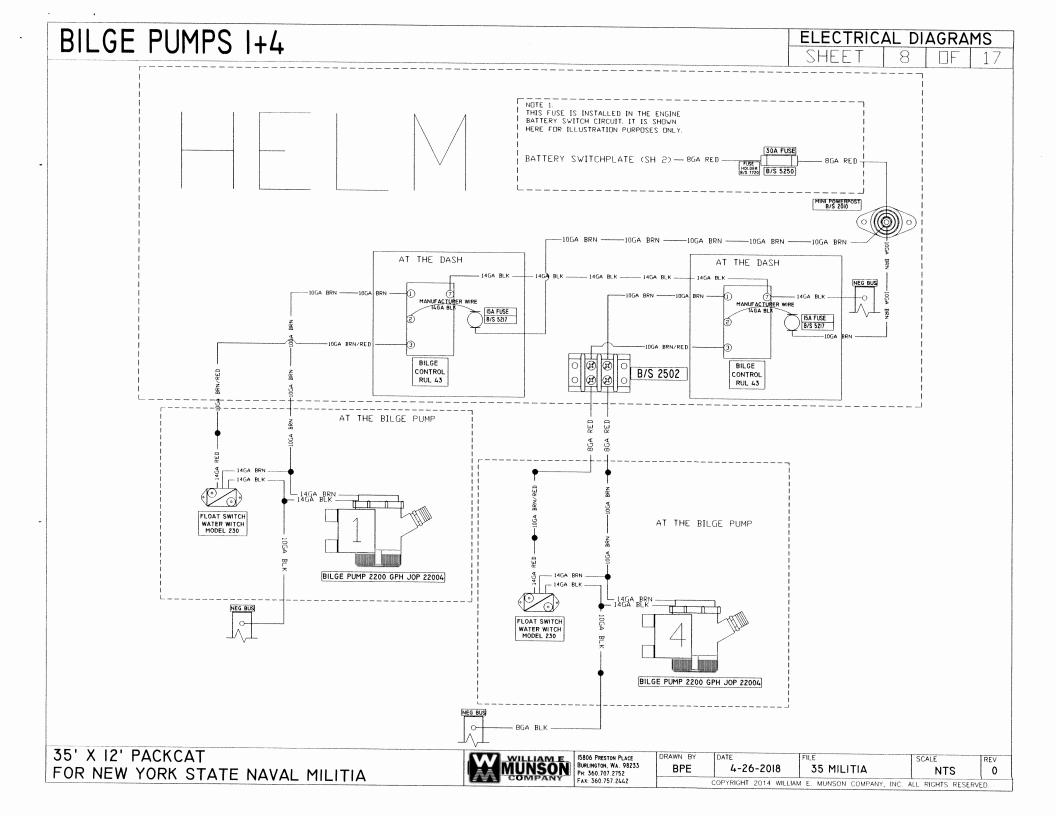
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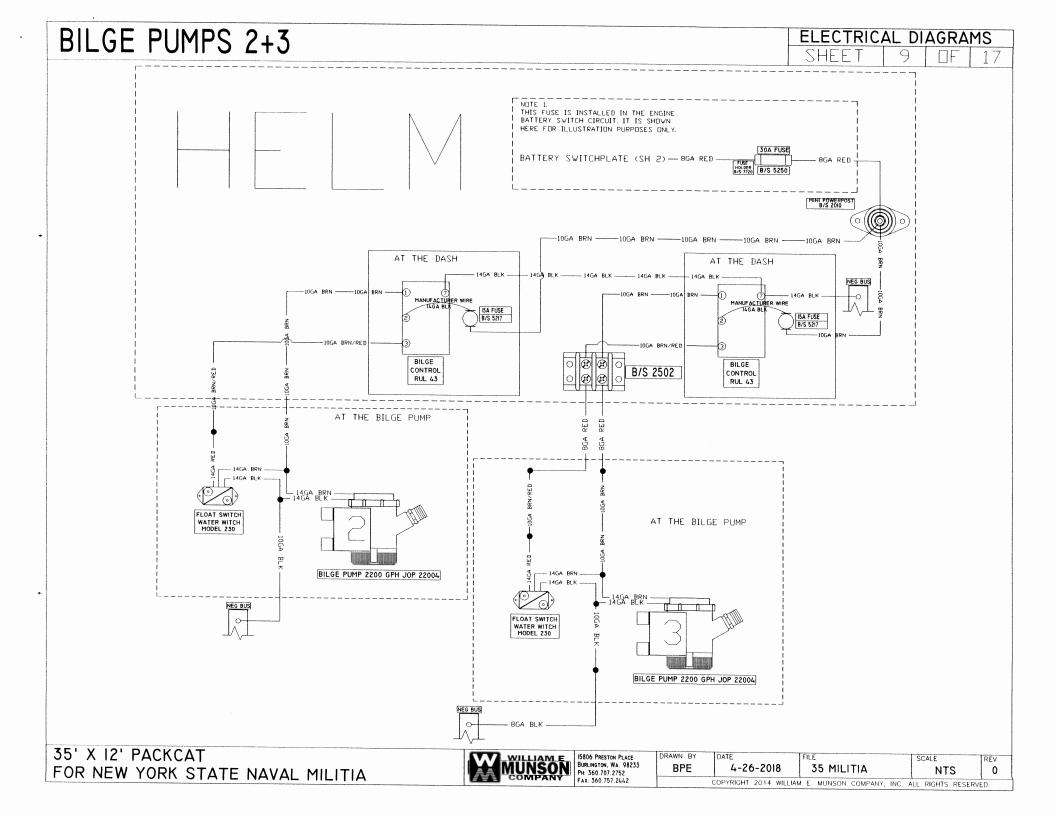
REV

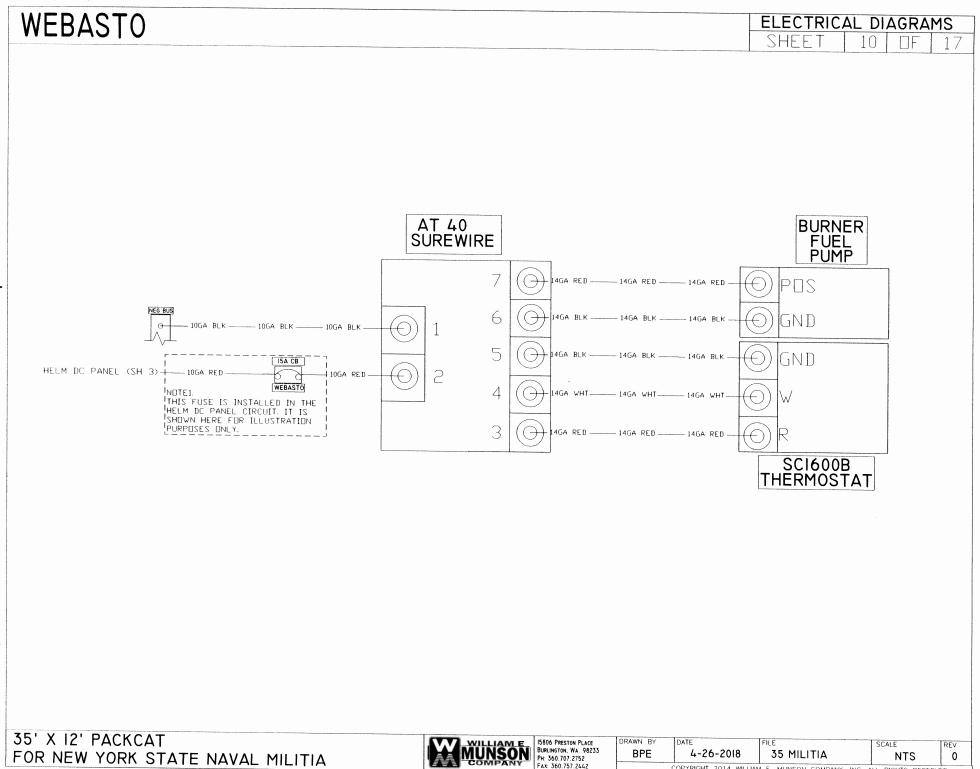
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SHEET

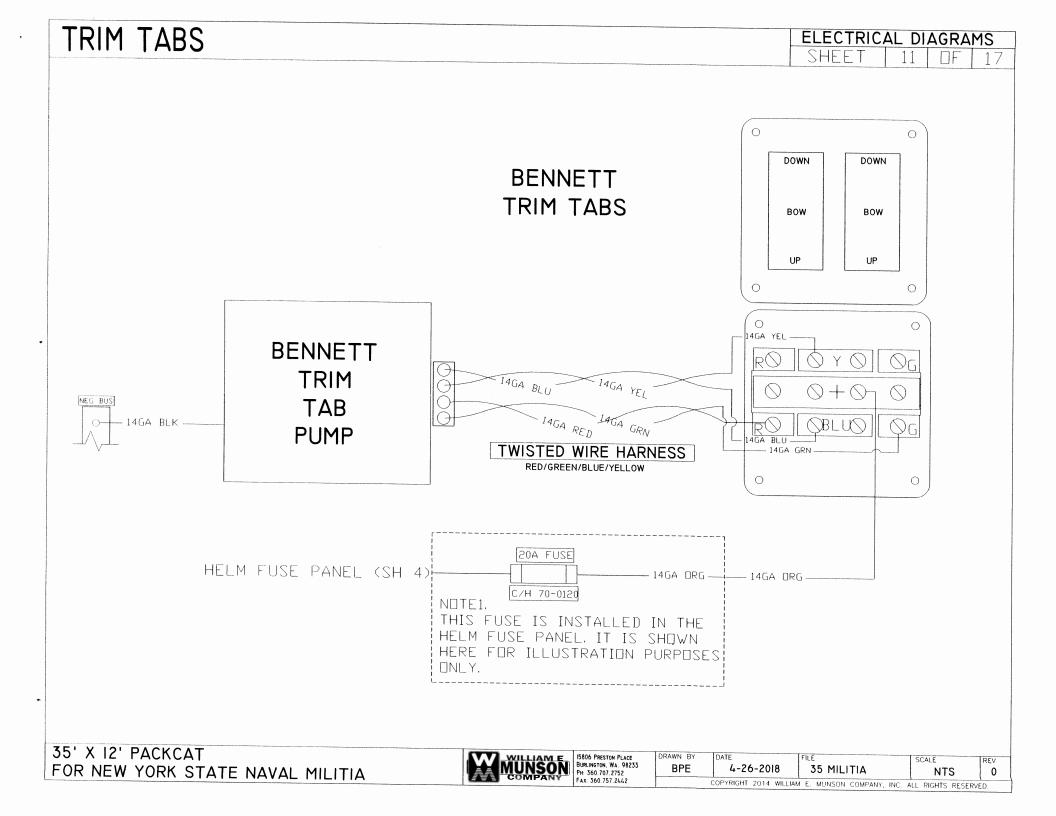


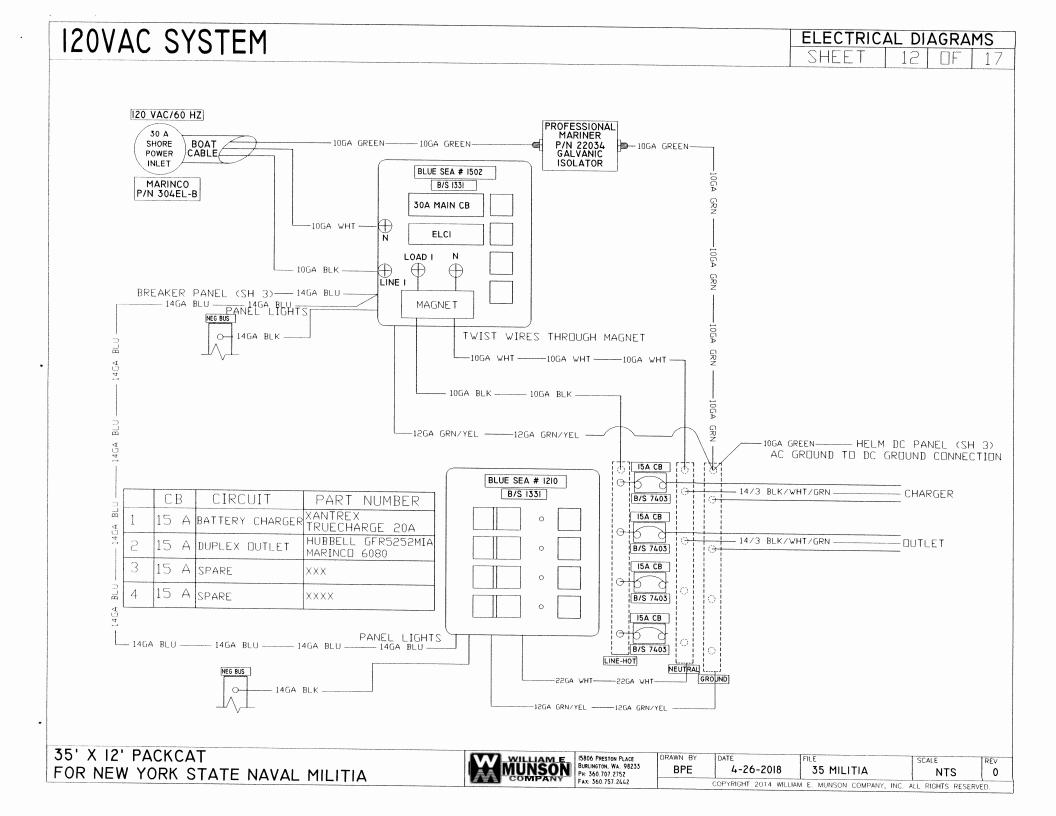


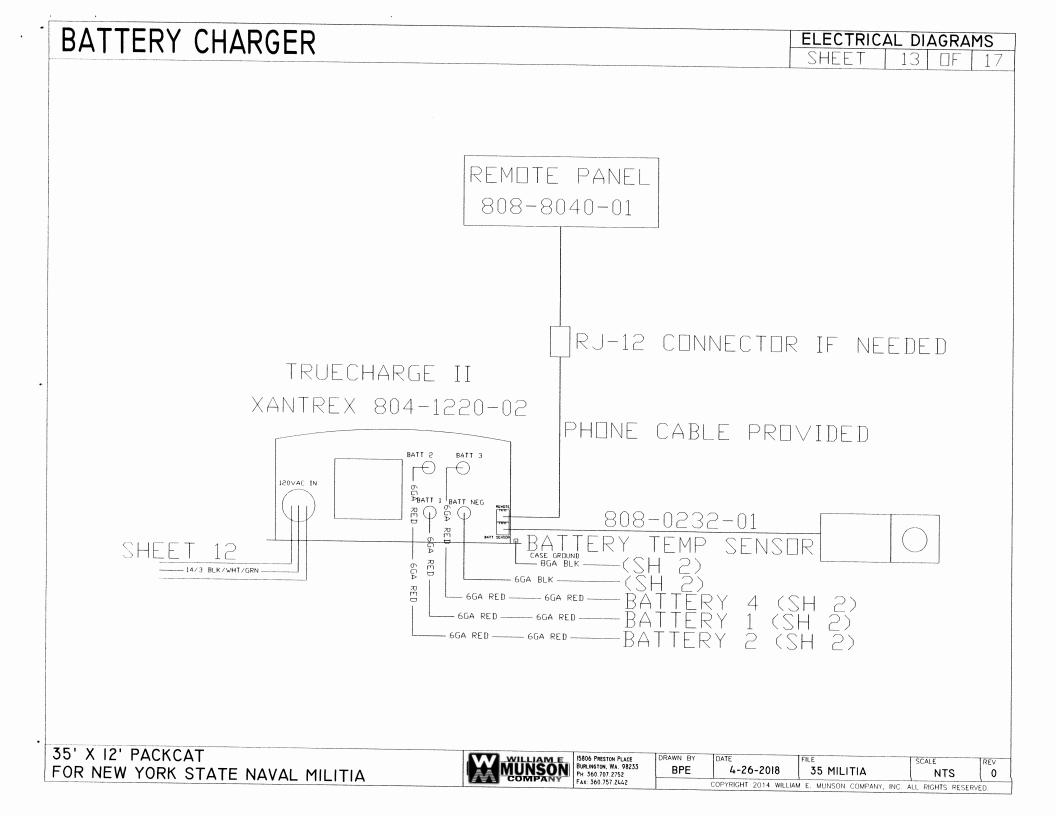




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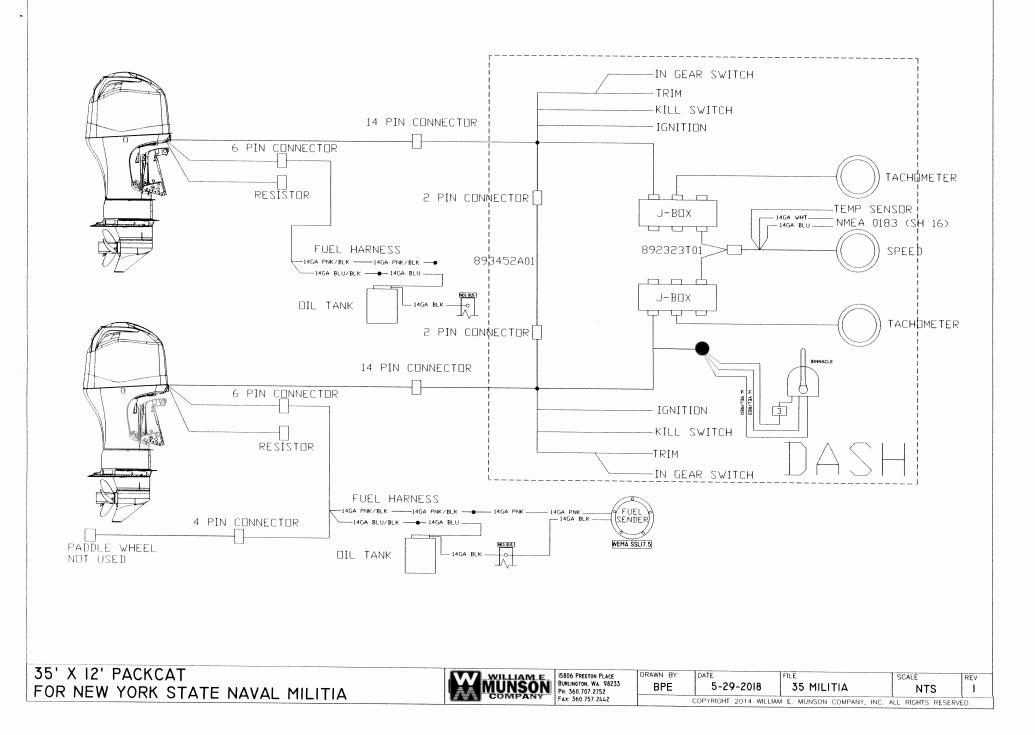




## MERCURY OPTIMAX RIGGING

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ELECTRICAL DIAGRAMS





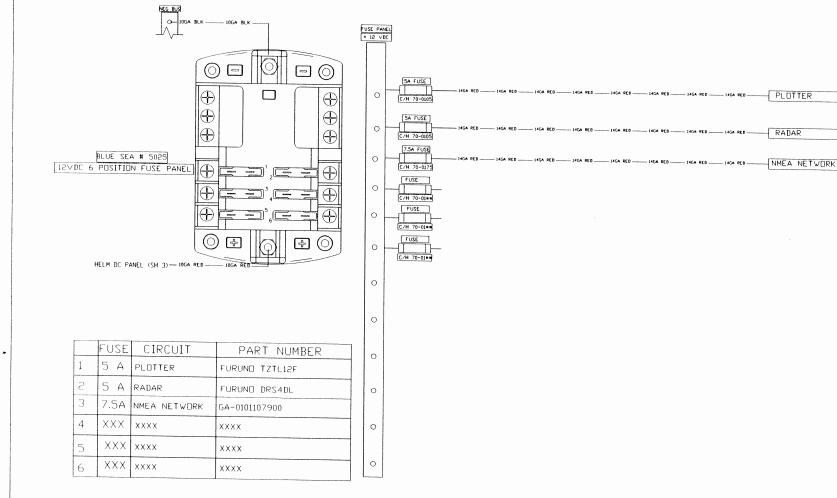


NEG BUS

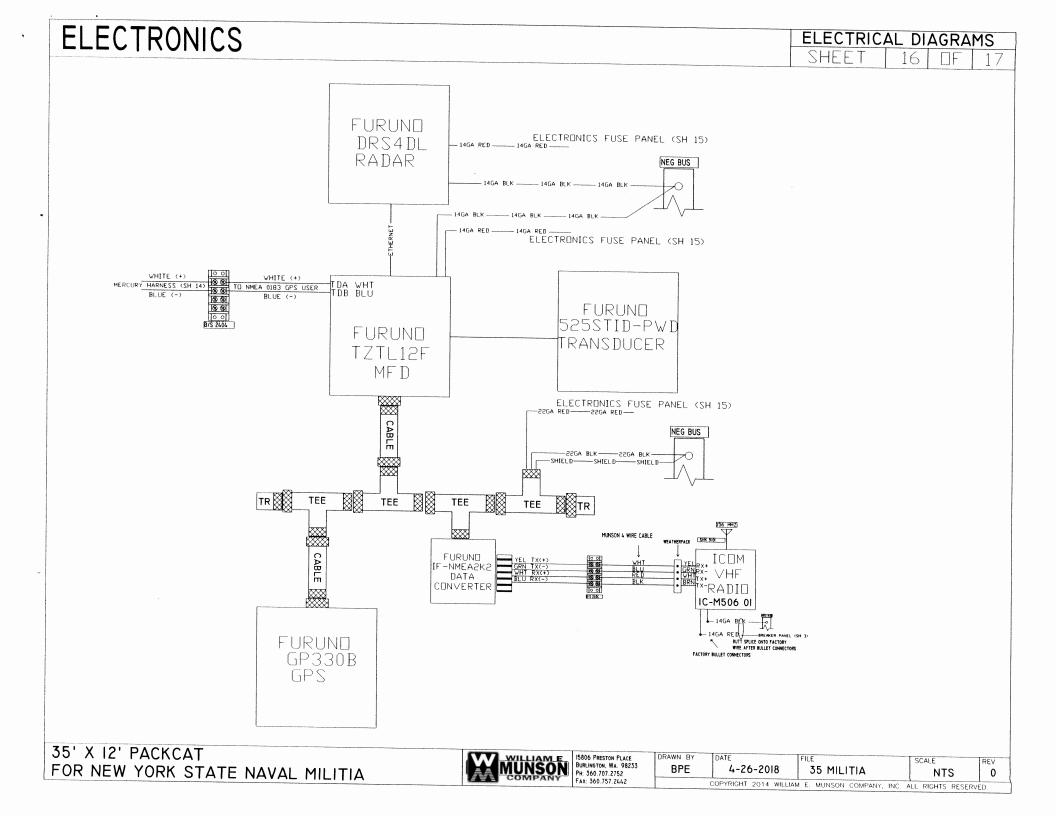
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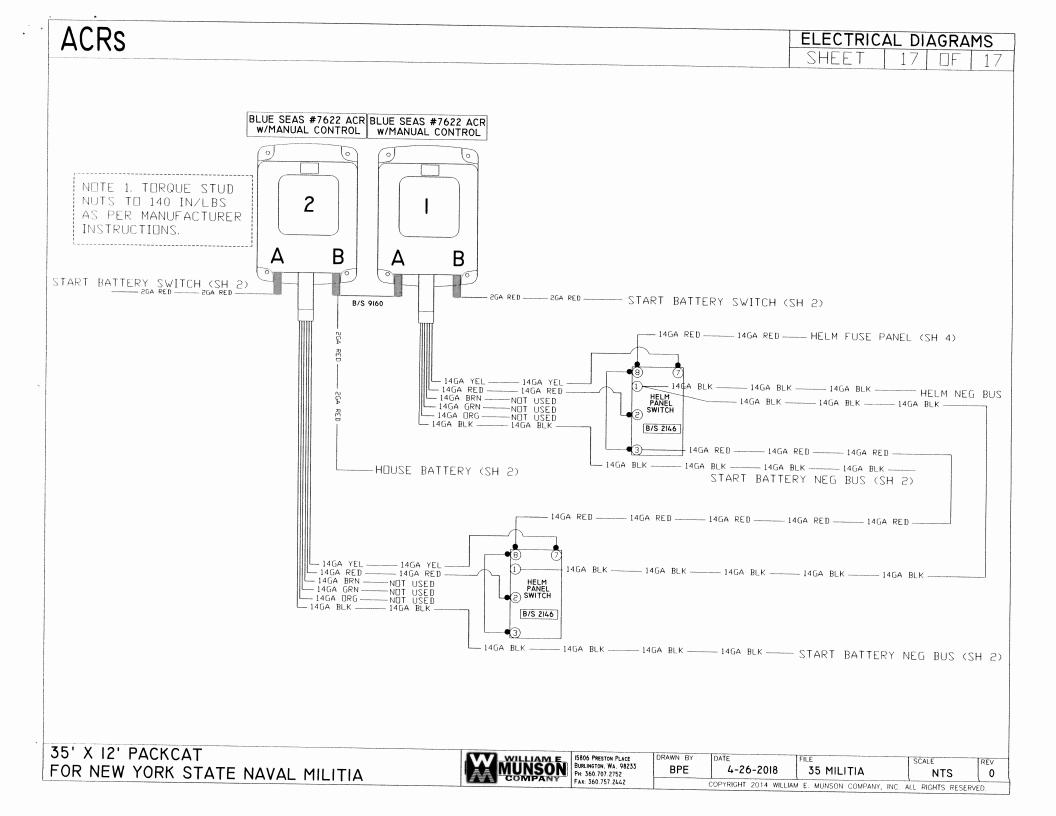
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