

# Seaward Products

3721 Capitol Avenue, Whittier, CA 90601  
(562) 699-7997 Office (562) 699-0908 Fax

[illegible]

Thank you for inquiring about Seaward upgrade information for Catalina Yachts. We have assembled this information in order to assist you in upgrading or maintaining your Catalina Yacht.

As you read this information, keep in mind that not all of it may apply to your particular application. Look over the information to identify what is needed in your particular application. If you still need more information or would like to place an order give us a call at the number listed above. Orders may be faxed to (562) 699-0908.

If you find this information helpful or have comments or suggestions please let us know.

Sincerely,

## Seaward Products

[illegible]

\* SEAWARD PRODUCTS \*  
PANEL DEPARTMENT

# **HARNESS UP-GRADE PACKAGES**

(562)699-7997 (562)699-0908 FAX

\* WHITTIER, CA. 90601 \*  
April 21, 2003

In the latter part of 1992, CATALINA YACHTS changed the wiring harness that connects the engine to the control panel by replacing the 8-WAY MOLDED RUBBER CONNECTORS with 12-POST EURO TERMSTRIPS, and modified the charging circuit from the alternator to the battery. The improved performance derived from these changes would also be of benefit to the owners of boats that were made prior to the 1993 MODEL YEAR.

Boats manufactured before mid 1988 have an AMMETER at the engine panel which must be replaced with a VOLTMETER in order for this wiring change to work. Therefore, the kit that you will need to buy to make the change will be **DEPENDENT ON THE YEAR OF YOUR BOAT**. This change will result in both improved charging capability and eliminate potential problems with the 8-WAY MOLDED RUBBER CONNECTORS.

## \*\*\*\*\*ADDITIONAL INFORMATION FOR C-34 AND C-36 OWNERS\*\*\*\*\*

Some owners of CATALINA 34's and 36's have reported to us that the ORIGINAL Extension harness in their specific boats don't have any EXCESS WIRE LENGTH, and once the plugs have been CUT OFF, THE REMAINING WIRES WILL NOT REACH TO FIT INTO THE TERMSTRIPS. In response to this problem, we are offering an ADDITIONAL ITEM, a 9-wire harness with PRE-TINNED ENDS that is 16 feet long ( 1 FOOT LONGER THAN THE ORIGINAL 15 FOOT HARNESS.) that you install **in place of the present harness.**

## >>>>> HOW TO ORDER AN UPGRADE PACKAGE FOR YOUR BOAT <<<<<<

- 1 - Determine which CONNECTOR UPGRADE KIT you need by looking on the ENGINE CONTROL PANEL IN THE COCKPIT for EITHER an AMMETER, (Requires KIT "A"), or a VOLTMETER, (Requires KIT "B").
- 2 - Determine whether you need a REPLACEMENT HARNESS by removing the ENGINE CONTROL PANEL from it's mounting location in the cockpit. If the panel comes out far enough for you to reach the CONNECTOR PLUGS (about 18") so that you can make your MODIFICATIONS, you DO NOT NEED TO PURCHASE THE REPLACEMENT HARNESS. While the panel is out, inspect the IGNITION SWITCH and PUSH BUTTONS for damage. If the connector tabs are loose, or NOT SOLID ON THE BODY of the unit, you should replace the item now, BEFORE IT QUILTS ON YOU.
- 3 - WRITE, CALL OR FAX IN YOUR ORDER. BE SURE TO INCLUDE YOUR CREDIT CARD INFO AND YOUR DAY-TIME PHONE NUMBER.

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## ### HARNESS CONNECTOR UPGRADE KITS ###

UG1980 KIT "A" FOR PRE - 1988 CATALINA'S (PANEL HAS AMMETER)	\$50.00
UG1988 KIT "B" FOR 1988-1992 CATALINA'S (PANEL HAS VOLTMETER)	\$20.00
H816 REPLACEMENT 9-WIRE, 16 FOOT EXTENSION HARNESS	\$67.00

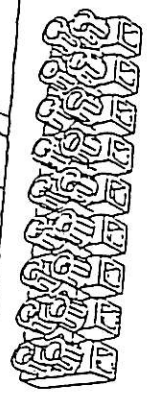
HARNES FROM ENGINE  
TO (B) PLUG CONNECTOR

NEW ENGINE  
WIRING HARNES  
(IF REQUIRED)

HARNES FROM PANEL  
TO (B) PLUG CONNECTOR

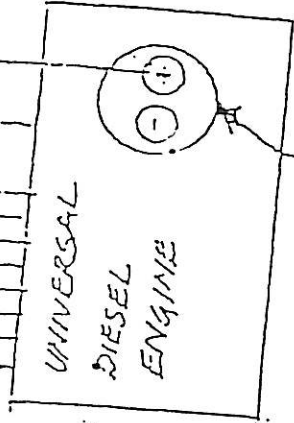
- |   |                    |
|---|--------------------|
| 1 | BLK, GRND          |
| 2 | #10, GREY, GLOW P. |
| 3 | YEL/RED, 5.50L     |
| 4 | FUSE               |
| 5 | RED, START         |
| 6 | PURPLE, ALT        |
| 7 | LT. BLUE, OIL P.   |
| 8 | TAN, TEMP          |

- |   |              |
|---|--------------|
| 1 | BLACK #10    |
| 2 | WHITE #10    |
| 3 | YEL/RED #14  |
| 4 | ORANGE #10   |
| 5 | DARK RED #10 |
| 6 | PURPLE #14   |
| 7 | LT BLUE #14  |
| 8 | TAN #14      |



THESE  
(B) WIRES  
ARE IN (B)  
PLUG  
CONNECTOR  
IN ENGINE  
COMPARTMENT.  
CUT OFF  
PLUG AND  
ATTACH TO  
TERMINAL  
STRIP ON  
NEW HARNES

NO. 10 ORANGE WIRE  
FROM ALTERNATOR, IS  
DELETED FROM HARNES.  
CONNECT END THAT WENT TO  
(B) PLUG CONNECTOR TO  
POSITIVE TERMINAL ON STARTER MOTOR  
USING RING  
CONNECTOR  
PROVIDED.



THESE (B) WIRES  
ARE IN (B)  
PLUG CONNECTOR  
AT THE PANEL.  
CUT OFF PLUG  
AND ATTACH TO  
TERMINAL STRIP  
ON NEW HARNES

- |   |                       |
|---|-----------------------|
| 1 | BLK, GROUND           |
| 2 | WHITE, GLOW PLUG, #10 |
| 3 | YELLOW/RED START      |
| 4 | ORANGE                |
| 5 | RED, IGNITION 'S'     |
| 6 | PURPLE, IGNITION 'I'  |
| 7 | BLUE, OIL ALARM       |
| 8 | BROWN, TEMP           |

BLOWER  
FUEL GAUGE

PANEL  
BRISTOL/  
SEWARD  
NO. PJ 2220

GATLINA YACHTS  
21200 VICTORY BLVD.  
WOODLAND HILLS, CA

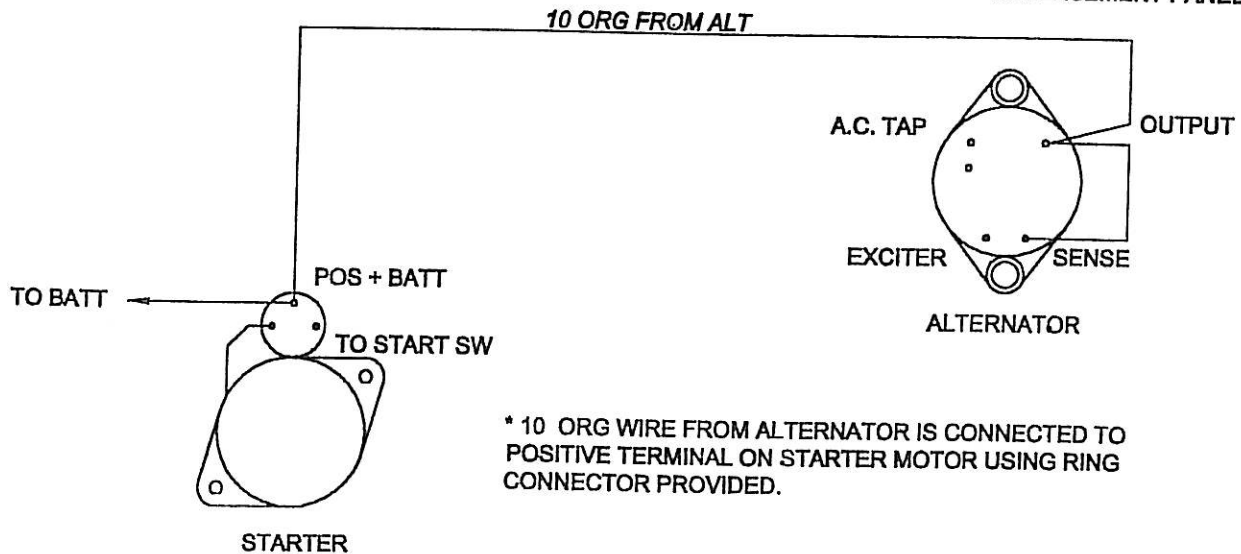
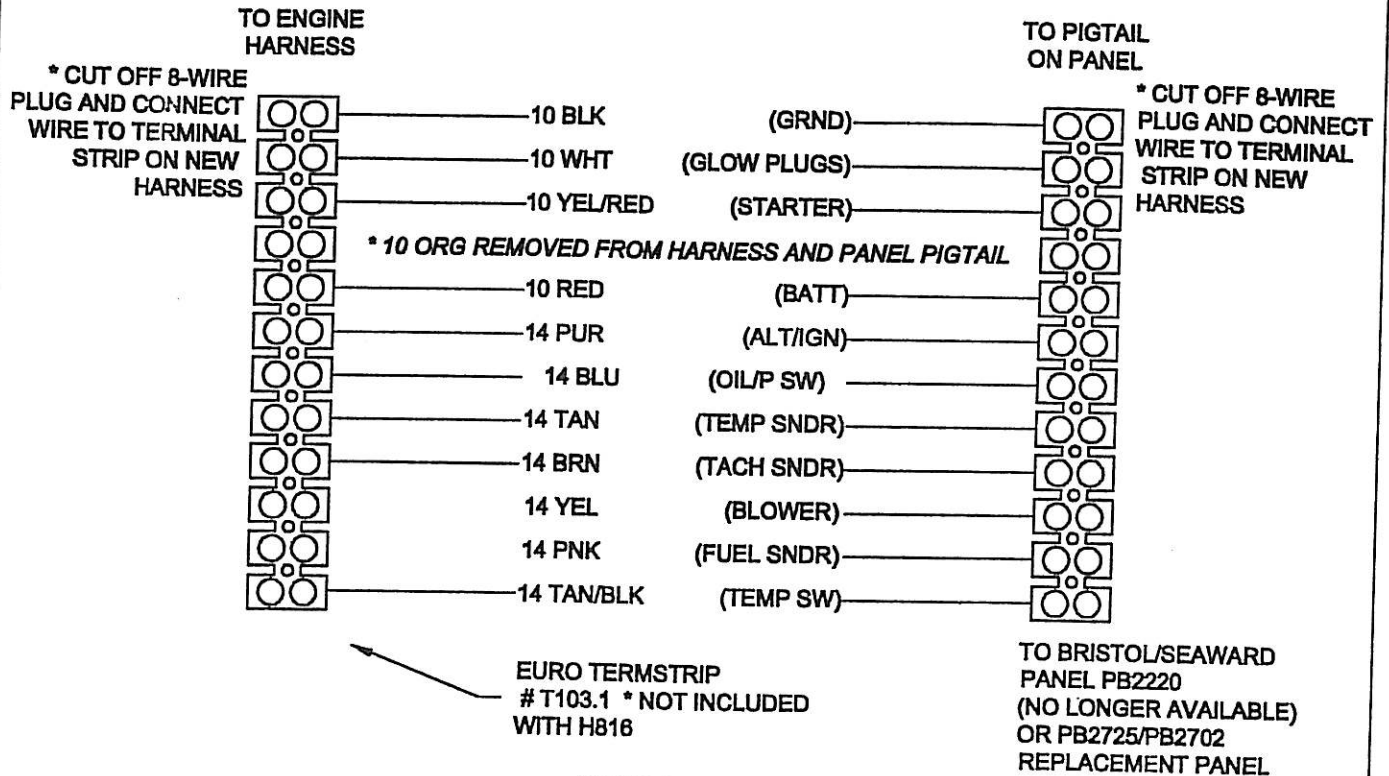
SCALE: 1/2  
DATE: 7.21.92

STARTER  
MOTOR

DRAWN BY G.D.  
REVISED

REPLACEMENT WIRING HARNES  
INSTALLATION, UNIVERSAL NON A-TYPE

**NEW ENGINE WIRING  
HARNESS # H816  
(IF REQUIRED)**



**\*\* YOUR ACTUAL WIRING MAY BE DIFFERENT FROM THAT SHOWN. PLEASE VERIFY WITH YOUR OUTRIGGER.**

**\*\*\* DISCONNECT BATTERY BEFORE ATTEMPTING ANY CHANGES TO WIRING**

CUSTOMER:		
<b>Catalina Yachts</b>		
DESCRIPTION: Replacement Wiring Harness Installation Universal (Non Typ A)		
USED ON:		<b>Seaward Products</b>
DRAWN BY: <b>ESG</b>	SCALE: <b>NONE</b>	DRAWING NUMBER:
REVISION:	DATE: <b>2-3-2000</b>	<b>D6</b>

PARTS/PANELS FOR CATALINA		SEAWARD PRODUCTS	
** \$20 MINIMUM ORDER **		Whittier, CA 90601	D7
** PRICE LIST		OCTOBER 2, 2006	(562) 699-7997 (562) 699-0908 FAX
PART NO	DESCRIPTION OF PRODUCT		RETAIL \$
C119	AC, Toggle Cir/Brkr White Toggle 5 AMP		16.65
C120	AC, Toggle Cir/Brkr White Toggle 10 AMP		16.65
C121	AC, Toggle Cir/Brkr White Toggle 15 AMP		16.65
C122	AC, Toggle Cir/Brkr White Toggle 20 AMP		16.65
C122.1	AC, Toggle Cir/Brkr White Toggle 25 AMP		16.65
C123	AC, Toggle Cir/Brkr White Toggle 30 AMP		16.65
C124.1	AC MAIN, EURO, Toggle Cir/Brkr 20 AMP, DUAL		39.45
C124.2	AC MAIN, Toggle Cir/Brkr 30 AMP, DUAL		39.45
C127	AC MAIN, Toggle Cir/Brkr 50 AMP, DUAL		39.45
C129	DC, Toggle Cir/Brkr Black Toggle 5 AMP		16.65
C130	DC, Toggle Cir/Brkr Black Toggle 10 AMP		16.65
C131	DC, Toggle Cir/Brkr Black Toggle 15 AMP		16.65
C132	DC, Toggle Cir/Brkr Black Toggle 20 AMP		16.65
C133	DC, Toggle Cir/Brkr Black Toggle 25 AMP		16.65
C134	DC, Toggle Cir/Brkr Black Toggle 30 AMP		16.65
C138	DC, Toggle Cir/Brkr Black Toggle 40 AMP		16.65
C139	DC, Toggle Cir/Brkr Black Toggle 50 AMP		16.65
CCB180	DC, Toggle Cir/Brkr WINDLASS 80 AMP		38.75
CCB2135	DC, Toggle Cir/Brkr WINDLASS 135 AMP		73.96
<i>Inquire about other breaker values not shown</i>			
E106	Dual Tone Piezo Alarm Module		20.00
I850.1F	VOLT 10-16 Premier, Fog Free		44.70
I851.1F	W/T 120-240° 240 Premier Fog Free		44.70
I852F	TACH/HR 0-4K DSL. MAG. PICK-UP Premier, Fog Free		116.58
I853.1F	FUEL 240 Premier Fog Free		44.70
I855.1F	OIL PRESSURE 240 Premier Fog Free		44.70
I856F	TACH/HR 0-6K DSL. MAG. PICK-UP Premier, Fog Free		116.58
I859F	TACH/HR 0-4K DSL. ALT. PICK-UP Premier, Fog Free		116.58
L109.3	GREEN 14V (DC SERVICE) light, 1-1/4"x5/8" rectangle		8.75
L112.2	14V DC RED light, LED w/wires 1/4" round		3.95
L112.3	14V DC GRN (AC ON) light, LED w/wires 1/4" round		6.25
L113.2	125V AC RED (REV/POL) light, LED w/wires 1/4" round		6.45
L113.3	125V AC GRN (AC ON) light, LED w/wires 1/4" round		6.45
L119.2	14V RED indicator light, w/.250 tabs 3/8" round		7.20
L119.5	14V RED indicator light, w/.187 tabs 5/16" round		4.15
L119.6	14V GREEN indicator light, w/.187 tabs 5/16" round		6.45
L120.2	14V RED indicator light, w/.250 tabs 1/2" round		6.95
M106.2	9-15V DC Horiz Panel Meter, color scale		35.00
M600	0-100A DC Panel Meter, Seaward Products		68.32
M605	8-16V DC Panel Meter, Seaward Products		73.44
PB2078	SHOWER SUMP PANEL, w/switch, for C34/36/38/42		48.00
PB2223	TRANSOM BREAKER PNL, 30 AMP		76.00
PB2607	AC MASTER BRKR, W/REVERSE POLARITY light		86.00
PB2750	8-SWITCH/BRKR PANEL, for C250		129.00
PB3095	ENGINE PANEL, YANMAR w/Oil Press Gauge		467.00
PB4078-3/4	ENGINE POD, YANMAR 3JH/4JH		533.00
PB4259	AC/DC PANEL W/BATT SWITCH for C320		522.00
PB4319	ATOMIC 4 GAS ENGINE CONTROL PANEL		405.00



PARTS/PANELS FOR CATALINA		SEAWARD PRODUCTS	
** \$20 MINIMUM ORDER **		Whittier, CA 90601	D7
** PRICE LIST		OCTOBER 2, 2006	(562) 699-7997 (562) 699-0908 FAX
PART NO	DESCRIPTION OF PRODUCT		RETAIL \$
PB4521	DC MAIN PANEL, for C34/36/380/400		331.00
PB4522	DC MAIN PANEL, for C320		245.00
PB4523	DC MAIN PANEL, for C42		272.00
PB4599	ENGINE POD, UNIVERSAL DIESEL		536.00
PB4609	ENGINE PANEL, UNIVERSAL used on DIAMOND POD		554.00
PB4649	AC/DC PANEL for C34/36		689.00
PB4650	AC/DC PANEL for C380/C400/C42		1,002.00
PB4651	AC/DC PANEL W/BATT SWITCH for C310		671.00
PB4702	UNIVERSAL DSL ENGINE CONTROL, non Type "A"		495.00
PB4930	AC/DC PANEL W/BATT SWITCH w/LABELS		709.00
SW104E	BLUE SEA, BATTERY SELECTOR SWITCH		47.72
SW104.1E	BLUE SEA BATTERY SWITCH, ON-OFF		49.25
SW139.2	FACE NUT FOR SW139.5		3.95
SW139.5	PUSH(NO) BUTTON switch, BRASS		24.75
SW140	IGNITION SWITCH 3 POS, Black, W/2 keys		28.00
SW142	BOOT, RED FOR SW139.5(STOP)		1.70
SW143	BOOT, BLACK FOR SW139.5(START)		0.90
SW145	IGNITION SWITCH 2 POS, Black, W/2 keys		23.40
----- SMALL SIZE, EURO STYLE ROCKERS -----			
SW695	BOOT, FOR SMALL ROCKER, CLEAR		1.50
SW699	SMALL, BLACK OFF/ON rocker switch		3.00
SW700	SMALL, BLK W/RED BAR OFF/ON rocker switch		4.15
SW707	SMALL, BLACK OFF/(ON)(REVERSE POLARITY TEST)		7.00
----- MEDIUM SIZE ROCKER SWITCHES -----			
SW400	MED. SIZE, BLACK OFF-ON rocker switch		1.75
SW402	MED. SIZE, BLACK/RED OFF/ON rocker switch		2.95
SW405	MED. SIZE, BLACK ON-OFF-ON 3-Way rocker switch		2.60
----- OBSOLETE PARTS FOR Catalina Yachts -----			
C106.1	PUSH-TO-RESET Circuit Breaker, 5 AMP(ETA)		4.75
C106.3	PUSH-TO-RESET Circuit Breaker, 10 AMP(ETA)		4.75
C106.5	PUSH-TO-RESET Circuit Breaker, 15 AMP(ETA)		4.75
C106.7	PUSH-TO-RESET Circuit Breaker, 20 AMP(ETA)		4.75
C106.9	PUSH-TO-RESET Circuit Breaker, 25 AMP(ETA)		4.75
C108	PUSH-ON/PUSH-OFF Circuit Breaker, 5 AMP		35.75
C108.2	PUSH-ON/PUSH-OFF Circuit Breaker, 8 AMP		35.75
C109	PUSH-ON/PUSH-OFF Circuit Breaker, 10 AMP		35.75
C110	PUSH-ON/PUSH-OFF Circuit Breaker, 15 AMP		35.75
C111	PUSH-ON/PUSH-OFF Circuit Breaker, 20 AMP		35.75
C111.1	PUSH-ON/PUSH-OFF Circuit Breaker, 25 AMP		35.75
C112	PUSH-ON/PUSH-OFF Circuit Breaker, 30 AMP		35.75
C114 / 116	PUSH/PULL WINDLASS CIR BRKR 80 / 135 AMP RED KNOB		94.50
I812	TACH/HR 0-4K DSL. ALT. LO/FREQ Red Dome		104.88
I821.1	W/T 120-240° 240 Red Dome		32.95
I823.1	FUEL 240 Red Dome		32.95
I830.1	VOLT 10-16 Red Dome		32.95
L114.2	12V RED indicator light, Black body 5/16" round		7.00
L114.3	12V GREEN indicator light, Black body 5/16" round		7.00
L114.4	12V AMBER indicator light, Black body 5/16" round		7.00
L116.2	125V AC RED (REV/POL) light, White body 5/16" round		7.00
L116.3	125V AC GRN (AC ON) light, White body 5/16"round		7.00

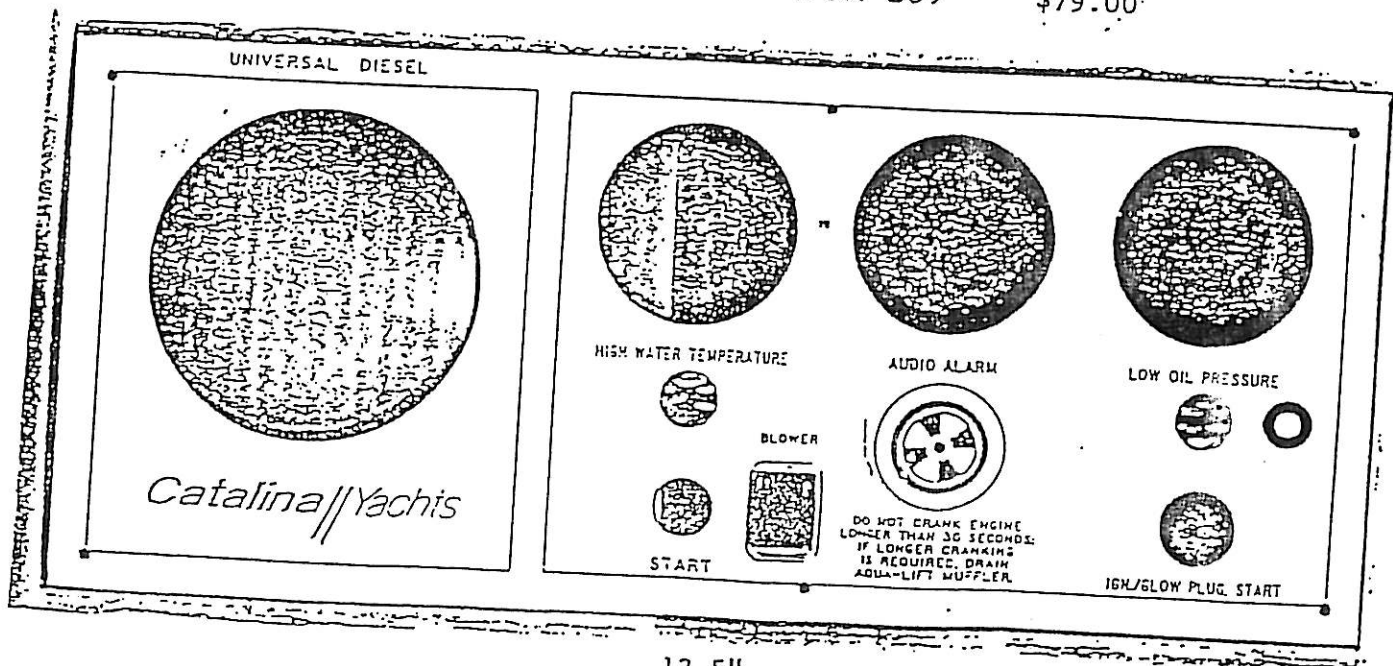
Owners of Catalina Boats from MID 1980'S to late 1992 may wish to replace the original engine control panel that has become scratched from age, with a new faceplate. We have a panel package with a NEW, 1996 STYLE FACEPLATE white with black engraving, with several new components already mounted. You will need to remove your engine panel from the mounting position, take off the gauges and wires and install them on the new panel, following the wiring diagrams that come with the kit. Your new panel will then have some of the ADDITIONAL FEATURES of the 1996 boats.

- 1-A white panel with a scratch resistant finish and black engraving, that looks just like the 1996 Catalina engine control panels.
- 2-A ROCKER SWITCH for the bilge blower with a color mark to indicate the "ON" position, covered with a waterproof boot.
- 3-A CIRCUIT BREAKER to protect both the gauge and bilge blower circuits.
- 4-A loud PIEZO ALARM to indicate low oil pressure with a PULSATING TONE, and A SECOND, CONSTANT TONE, to indicate high water temperature when connected to an optional water temperature switch mounted on the engine.
- 5-Two RED INDICATOR LIGHTS, one to indicate "LOW OIL PRESSURE" when the pulsating tone is sounding, and one to indicate "HIGH WATER TEMPERATURE" when connected to the optional water temp switch on the engine.
- 6-Wiring diagrams and sketches D23 and D33.
- 7-Price list D7, of replacement panel parts for Catalina Boats.

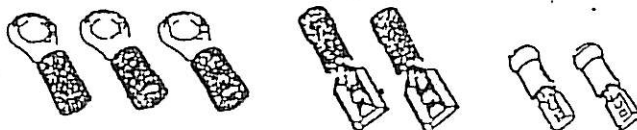
PANEL UPGRADE KIT 1980

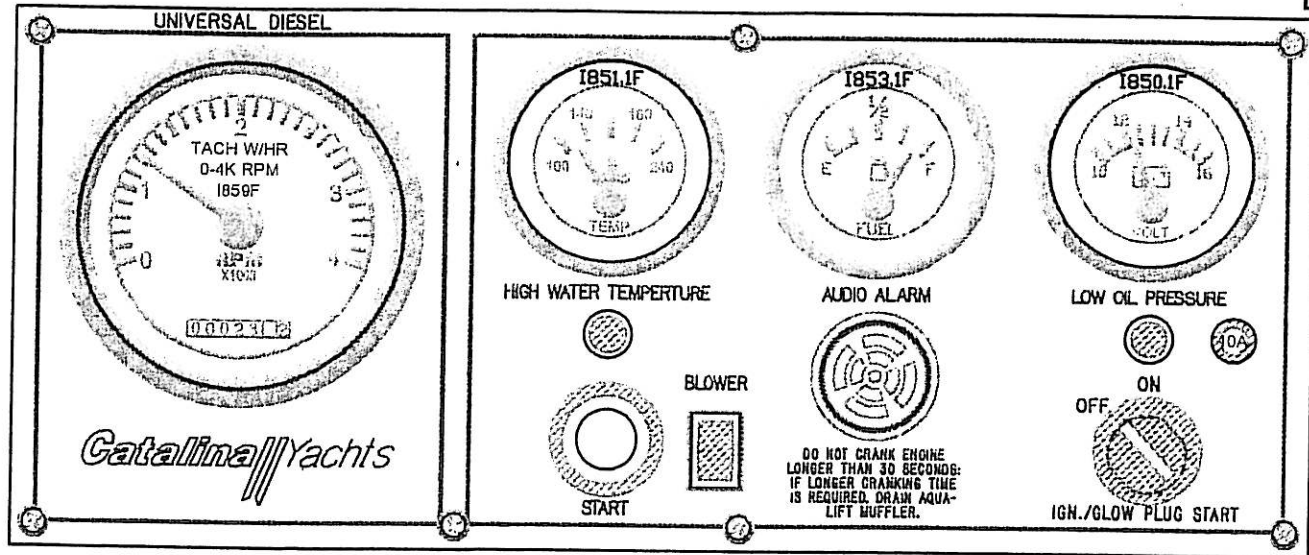
(PUK-80)

\$79.00



13.5"



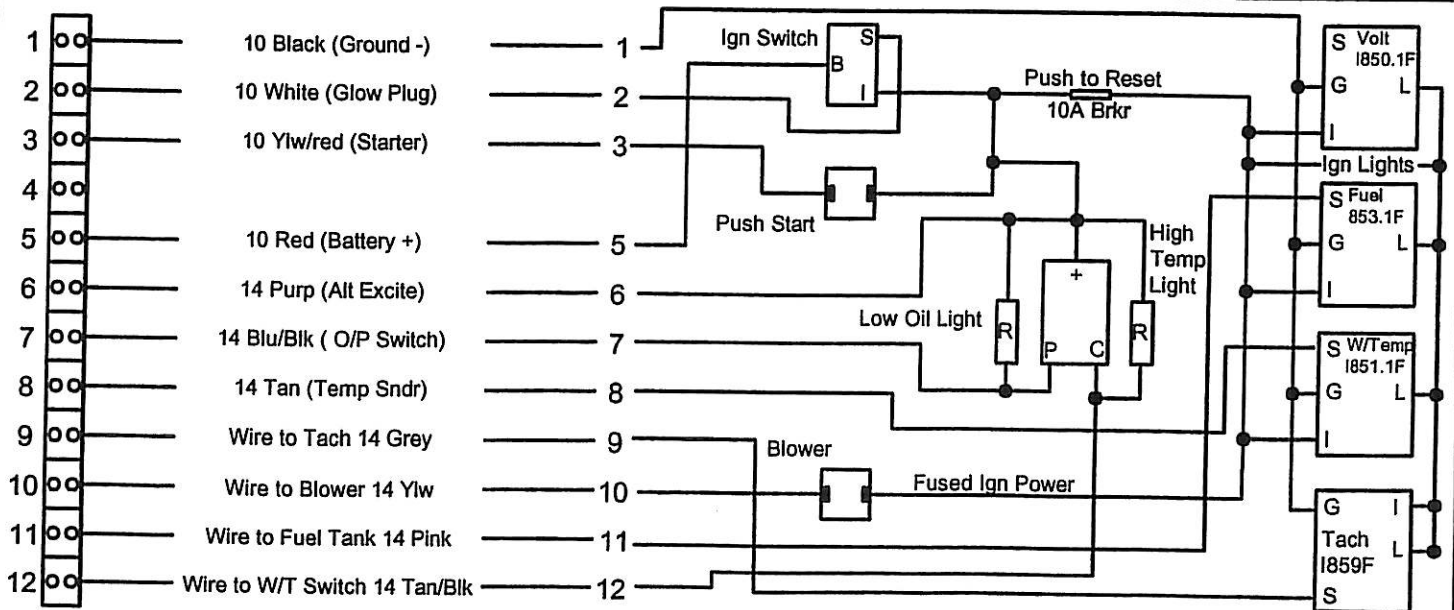
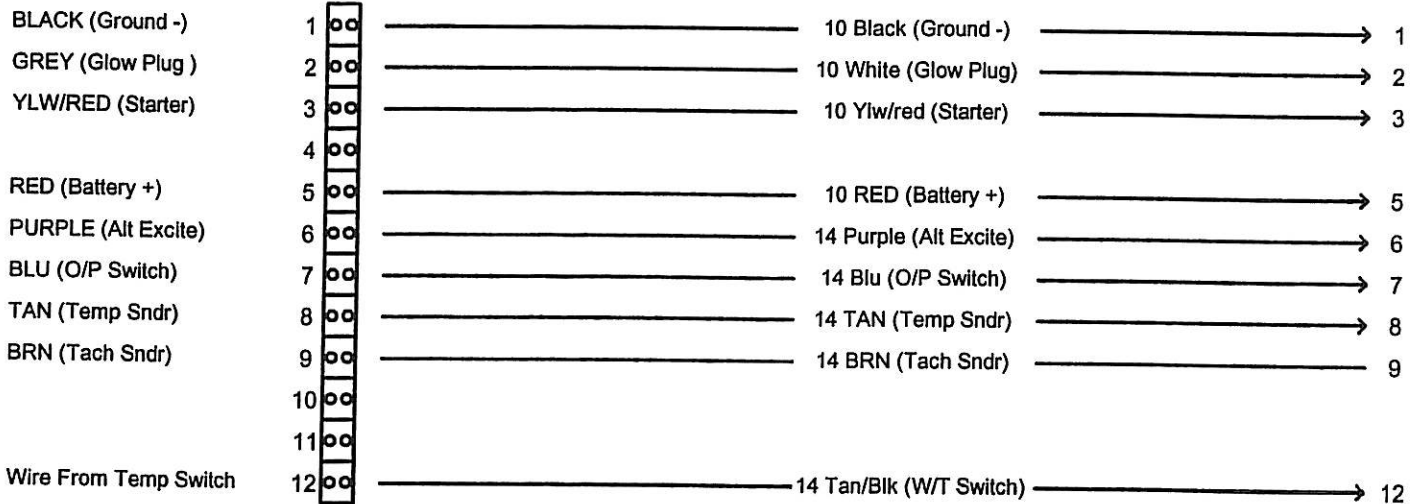


WHITE FACE WITH BLACK NOMENCLATURE

PB 4702

UNIVERSAL "NON" A TYPE ENGINE  
HARNESS FROM ENGINE

16 FOOT UPGRADE EXTENSION HARNESS, w/ W/T SWITCH WIRE, H816

TO TERMSTRIP  
@ ENGINE PANEL



SEAWARD PRODUCTS

APRIL 4, 2003

UPGRADE, ENGINE PARTS

(310)699-7997

CITY OF WHITTIER, CA

FAX (562)699-0908

When you order these parts from your local Westerbeke Distributor, be sure to make it clear that you are **UPGRADING AN OLDER UNIVERSAL DIESEL ENGINE**, by adding a **"HIGH TEMPERATURE" SWITCH**.

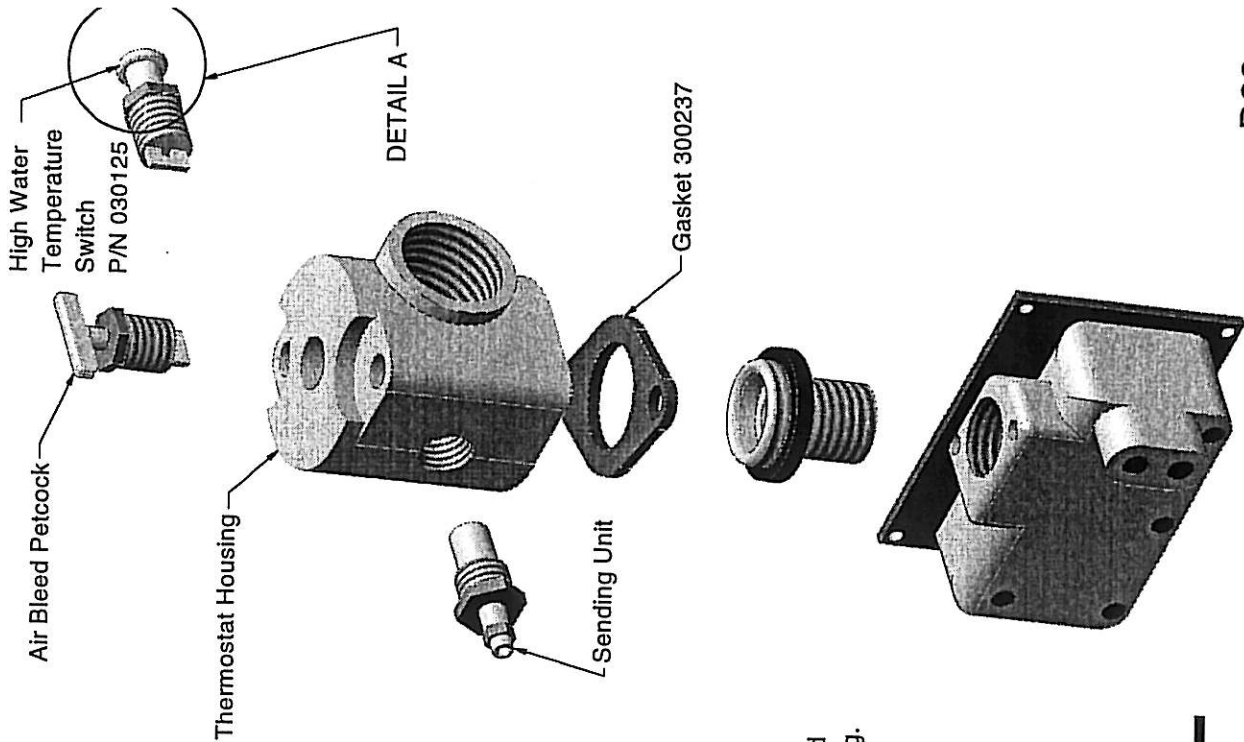
These part numbers are used on the type "A" UNIVERSAL/WESTERBEKE DIESEL ENGINES, as supplied to Catalina Yachts since 1993. However, the Engineering Department at Westerbeke has confirmed to us that these parts will also retro-fit to older Universal Diesel Engines, such as the M25, the M25XP, And the M35.

* * *	* PARTS REQUIRED, TO ADD THE HIGH TEMP ALARM FUNCTION *	*	*
THERMOSTAT HOUSING, FOR M25, M25XP OR M35 ***** P/N			
200262			
THERMOSTAT HOUSING, FOR M2-12, or M3-20 ***** P/N			
200264			
THERMOSTAT HOUSING GASKET ***** P/N			
300237			
WATER TEMPERATURE SWITCH for the alarm, 1/8" NPT ***** P/N			
030125			

Carefully remove the water temperature sender and the air bleed petcock from your present thermostat housing and set them aside. Remove the housing, and clean off any remnants of the gasket that remain on the engine. Install the new gasket and the new housing. Install your original water temperature sender and air bleed petcock into the new housing. Install the new HIGH TEMPERATURE SWITCH into the other side of the housing.

**NOTE ! DO NOT USE TEFLON TAPE OR PIPE DOPE ON SWITCHES OR SENDERS, IT INTERFERES WITH THE GROUNDING.** Provide a 16 ga. or 14 ga. wire from the temp switch to position 12 of the 12 POST TERMINAL STRIP on the engine end of the extension harness. Route this wire away from hot engine surfaces, and protect it from chafing.

Refer to SEAWARD sketch D23, D23A for the complete wiring diagram.



Over the years, we have had numerous calls from owners of Catalina Yachts who want to relocate the engine control panels in their older boats, which are now mounted down by the sole and do not have Tachometers. We are the suppliers of the Engine Control Panels and AC-DC Distribution Panels used by Catalina Yachts, and we can provide parts as well as complete NEW panels.

We can recommend the required parts required to: 1. - Relocate the engine control panel. 2. - Replace the original panel with 1997 version flat panel, which includes a Tachometer/Hourmeter.

And, 3. - Improve the engine charging system harness.

#### 1997 style CATALINA CONTROL PANEL FOR DIESEL ENGINES.

Purchase the following items from Seaward Products.

* a PB2725 Replacement Diesel Engine Panel:	\$332.00
* an H816 sixteen foot, NINE wire harness	\$67.00
* a T103.1 Euro Terminal Strip to connect at the engine	\$8.90
* a T313 Ring Terminal to connect at the starter	\$0.54
* a PB2752 9.0" x 5.125" white dummy panel, cover	\$15.00
OR.....	
* a PB2757 13.5" X 5.625" white dummy panel, cover	\$15.00
and DATA SHEETS and DIAGRAMS. D2, 5, 6, 7, 15, 23 & 33.	N/C

Purchase the following items from Catalina Yachts.

an A9020 "A" Type Fibreglass Panel Housing("Bucket"):	\$36.80
an A24242 Plexiglass Cover:	\$5.50

Remove the original engine panel, unplug it from the harness, and install the White Dummy Panel over the hole. Unplug the original extension harness at the engine and connect the termstrip between the engine and the NEW harness, following the instructions on sheet D6. Attach the supplied Ring terminal to the Orange alternator wire and connect it to the large post on the starter motor per the instructions. (NOTE ! This part of the installation is the CHARGING SYSTEM UPGRADE.)

Cut an opening in the port coaming for the new panel enclosure box. Route the end of the new harness up to the port cutout, and insert the harness end into a hole in the panel housing. Install the housing into the coaming and attach the panel into the housing per instructions on sheet D13. Attach the plexiglass cover over the top part of the panel.

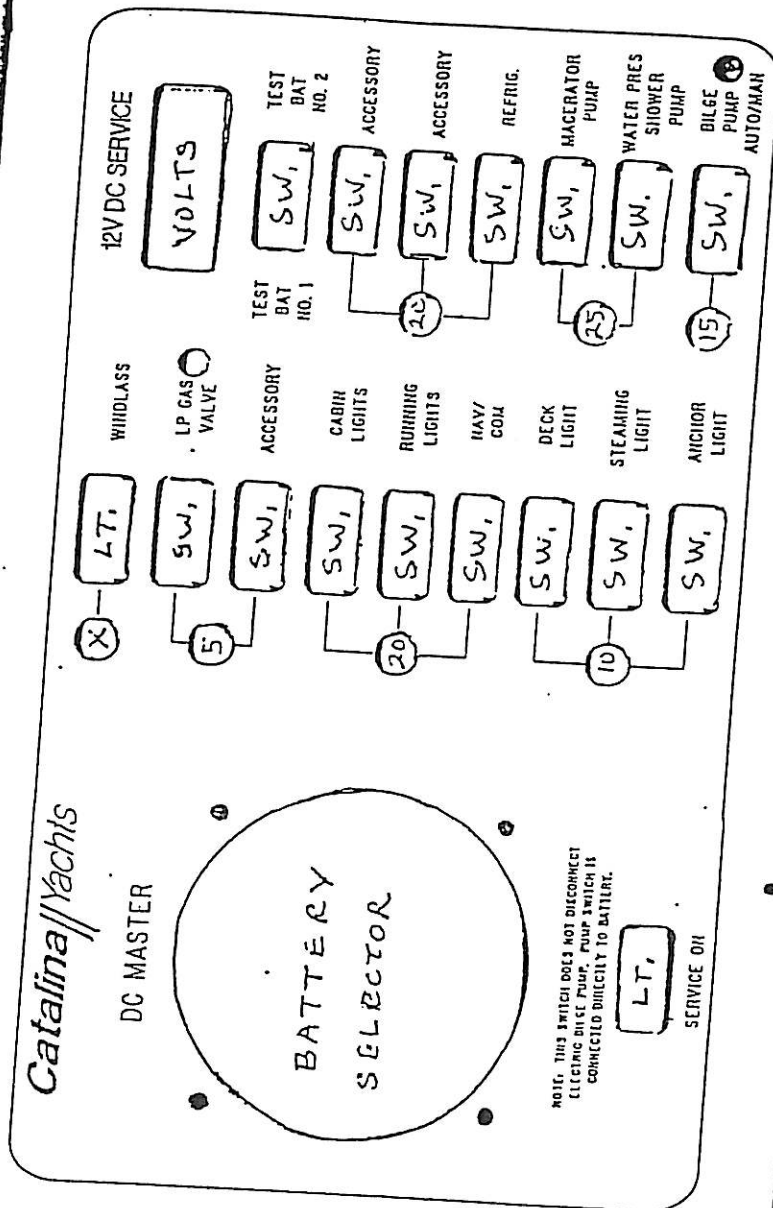
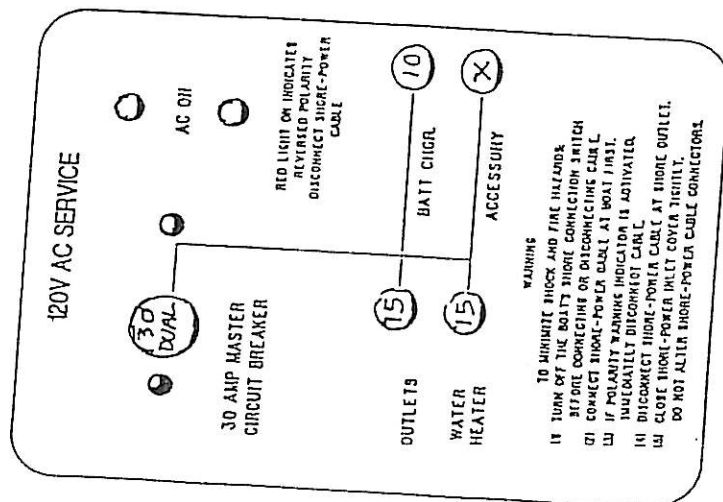
We have also received calls about how to upgrade older style AC/DC panels, specifically those with fuses and very few circuits for either AC or DC. The easiest method is simply to remove the original panel, run wires from the new appliances to the panel location, connect wires to a NEW AC/DC panel and remount it to the original location. Some older boats have a panel that is physically larger than the present design, and therefore an adapter plate of the appropriate size must be installed over the original cutout, and then the NEW panel can be mounted to the adapter. The owner needs to SPECIFY width and height dimensions of the adapter plate when placing the order for the NEW panel.

#### 2001 style CATALINA AC/DC DISTRIBUTION PANEL, White w/Black engraving.

Purchase the following items from Seaward Products.

a PB4259 AC/DC Distribution Panel 19"W x 8.5"H	\$522.00
a PB2751 Panel Adapter Plate: ?? X ??(give exact size)	\$30.00

19.0" WIDE X 8.5" HIGH

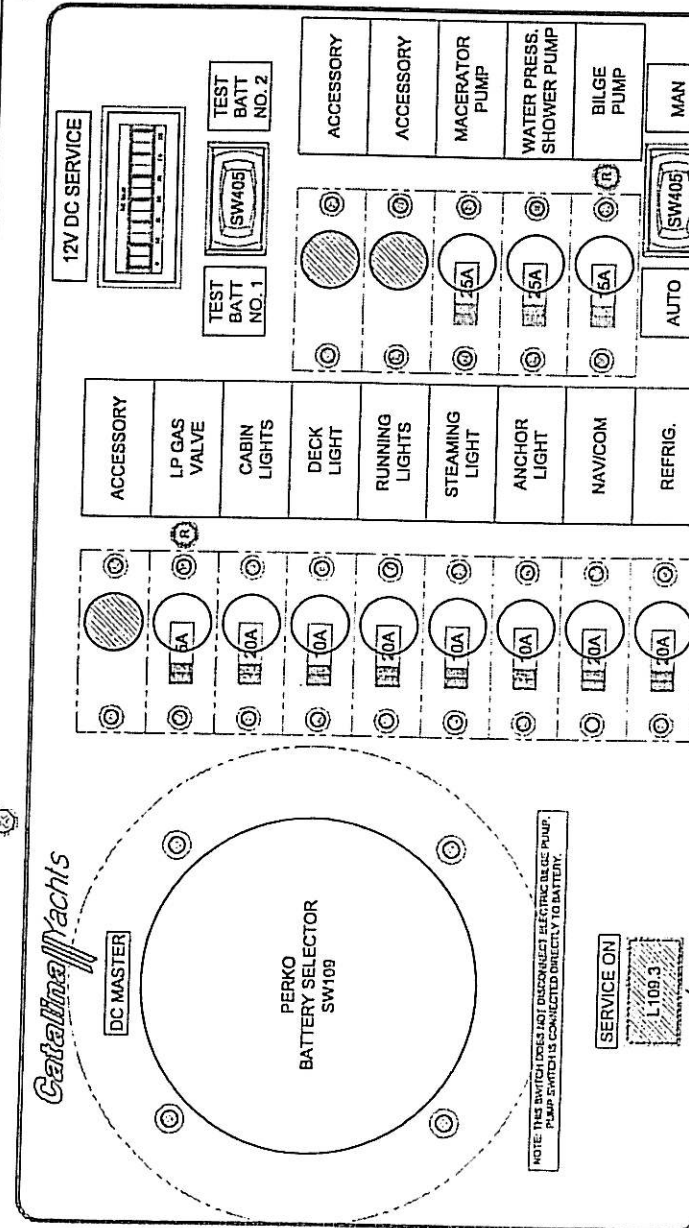
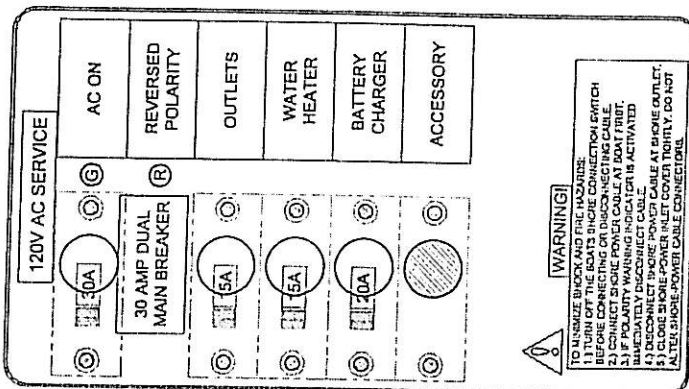


WHITE FACE WITH BLACK ENGRAVING

PB2644

8.5000

19.0000



GREEN INDICATOR LAMP

Rev. A, 6-22-2000 Removed red LED and replaced "WINDLASS" with "ACCESSORY" nom.

NOTES:  
 1.) .187" ABS, WHITE OVER BLACK  
 2.) ALL MOUNTING HOLES WITH NYLON INSERTS

DESCRIPTION:	AC/DC Service Panel 19" x 8.5"	DRAWN BY:	esg
CUSTOMER:	CATLINA/MORGAN	DATE:	4-28-2000
USED ON:	C26, C28, C30III, C270, C310	DATE REVISED:	9-7-2000
		DRAWING NUMBER:	PB4259
			<b>Seaward Products</b> 3721 Capital Avenue, Whittier, CA 90601-1732 Phone: (562) 699-7867 Fax: (562) 699-9908

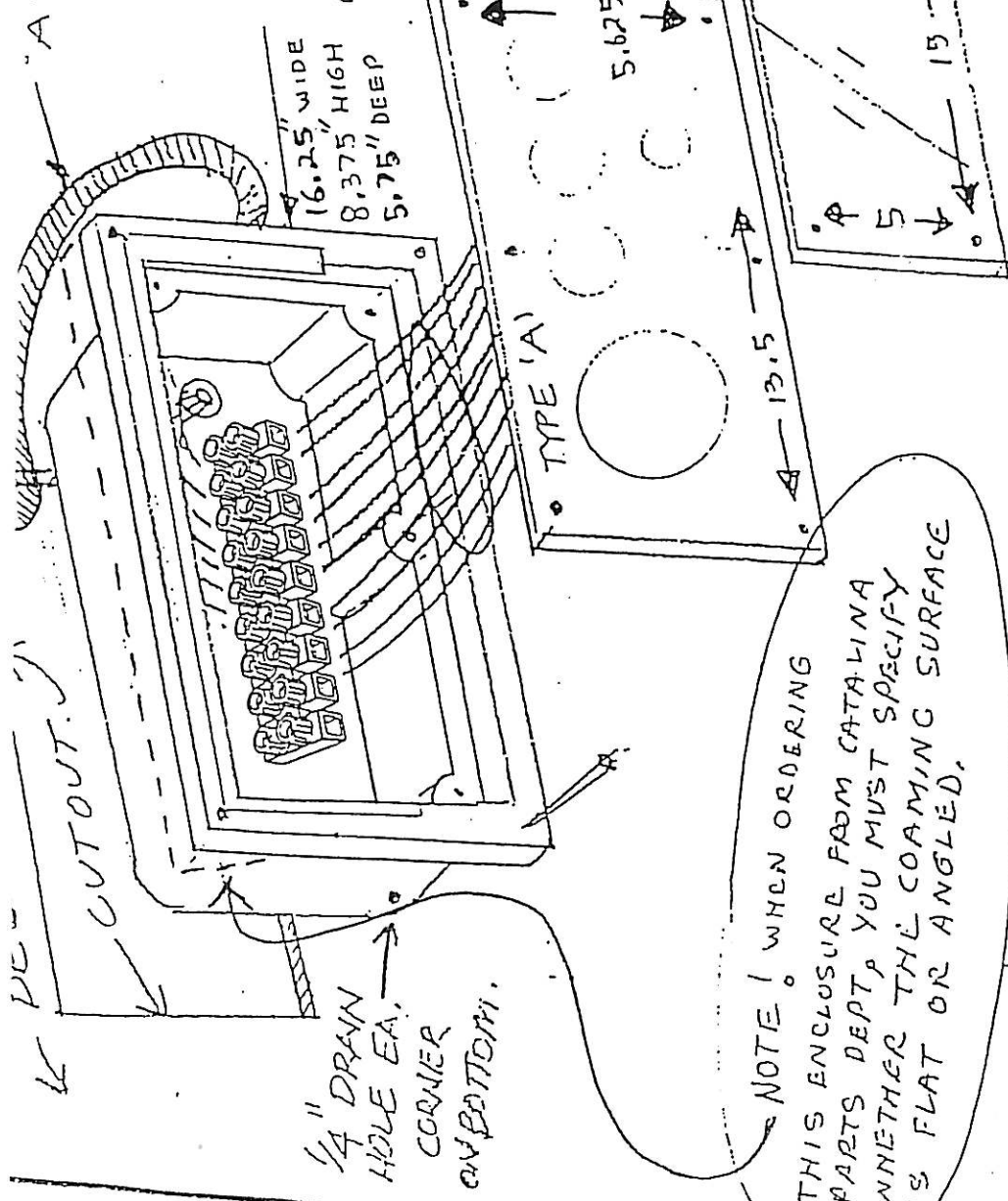


"A" TYPE CONNECTOR HARNESS  
COVER W/ BLACK PLASTIC  
CONVULTED TUBING.

A' TYPE F.G. PANEL HOUSING  
THROUGH BOLT TO DECK  
W/ NYLOX NUTS. BED W/ URTAN

TYPE 'A' PANEL  
S.S. SELF TAPPING  
SCREW FASTEN TO  
HOUSING, BED W/ 1/8"  
GASKET TAPE

#5.50  
A24242  
PLEXIGLAS  
COVER  
FASTEN W/  
S.S. SELF-  
TAPPING SCREWS  
NO BEDDING



NOTE! WHEN ORDERING  
THIS ENCLOSURE FROM CATALINA  
PARTS DEPT, YOU MUST SPECIFY  
WHETHER THE COAMING SURFACE  
IS FLAT OR ANGLED.

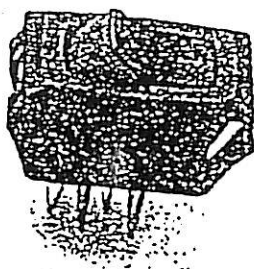
- 4) THROUGH BOLT TERMINAL  
STRIP TO HOUSING W/  
NYLOX NUTS (2) PLACES
- 3) FASTEN HARNESS IN  
PLACE 18" O.C. MIN.
- 2) HOLES THROUGH WHICH  
WIRES PASS MUST BE  
SANDERED SMOOTH

NOTES: 1) REF TO DWG 260-53002  
FOR WIRING "COLOR" CODE

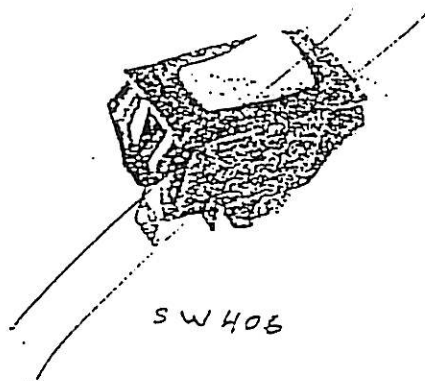
CATALINA YACHTS 21200 VICTORY BLVD. WOODLAND HILLS, CA		APPROVED BY:	SCALE: 2	DATE: 6.26.92	DRAWN BY G.D	REVISED
ENGINE CON TROL PANEL INSTALLATION FOR TYPE 'A' PANELS AND ENG GAGES					CAT PARTS (818) 704-6612 FAX	
					DRAWING NUMBER 260-53003-0	

xxxxxxx \* OBSOLETE SWITCHES, FOR OLDER BOATS xxx  
SW400 BLACK ROCKER, F-O (CTRL ENGR.) rectang.  
SW406 PROPANE SW, ORANGE LT. (CTRL ENGR.) "  
SW420 BLACK PADDLE SW, F-O (CTRL ENGR.) "  
SW440 BLACK TOGGLE, F-O mounts in a round hole

xxxxxxx



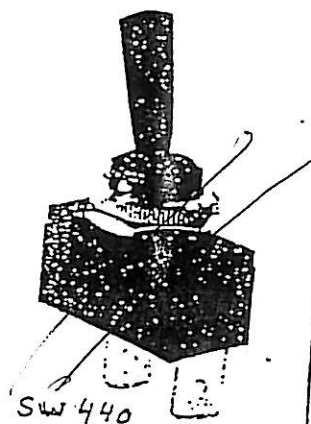
SW400



SW406



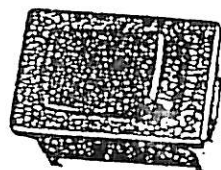
SW420



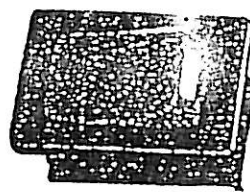
SW440

xxxxxxx \* SMALL EURO ROCKERS xxxxxxxxxxxxxxxxxx  
SW699 F-O SW, ALL BLACK (ACCESSORY)  
SW700 F-O SW, W/RED BAR (ACCESSORY)  
SW702 O-F-O (BILGE PUMP, VOLT METER)  
SW706 F-O SW, W/RED LITE (PROPANE)  
SW708 14V DC RED PANEL LT (WINDLASS)

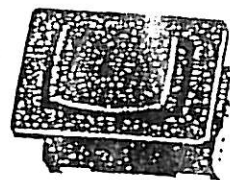
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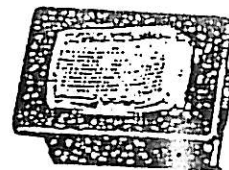
SW699



SW700



SW702



SW706

SW708