



JL Media Master 100s Retrofit Instructions



Overview

This document outlines the parts and procedures required to install a JL MM100s stereo head unit in **select 2016 and 2017** models originally equipped with one of the factory Polk Audio head units.



PARTS

Order the parts and quantities from the 4 boxes according to the boat model and its existing equipment

*****DO NOT ORDER INDIVIDUAL PARTS LISTED IN THE GRAY BOXES FOR KITS. ORDER ONLY THE PART NUMBER FOR THE KIT*****

What to order	Part #	Description	Quantity
1) ORDER BASE KIT (REQUIRED FOR ALL BOATS)			
	SP-18-180075	JL RETROFIT BASIC KIT	1
		KIT INCLUDES:	
	180075	STEREO HEAD UNIT, JL MEDIAMASTER (BLACK) EDITION	1
	180278	HARNESS, JL RETROFIT	1
	180141	CABLE, NMEA CABLE FOR SOURCE UNIT	1
	160027	RCA CABLE 6 FEET	1
	160025	RCA CABLE, ONE FEMALE / TWO MALE	2
	3439	8-32 x 1" PHIL FLAT MS SS/BO (BLACK)	4
	3878	8-32 x ¾" PAN HEAD MACHINE SCREW (BLACK)	4
	1868	8-32 CAPTIVE STAR LOCK NUT	4
	4487	#10 x .375 OD BRASS WASHER	4
	3023	8-32 NYLON INSERT NUT	4
2) IS A TRANSOM REMOTE INSTALLED? IF YES, ORDER BOTH PARTS			
	180134	TRANSOM REMOTE, BLACK EDITION	1
	180135	CABLE, TRANSOM REMOTE, 25 FEET	1
3) CHOOSE THE STEREO TRIM PLATE (REQUIRED)			
	180018	TRIM PLATE, STEREO TRIM PLATE G23/G25	1
	---OR---		
	180017	TRIM PLATE, STEREO TRIM PLATE 210/230/G21/GS-SERIES	1
4) 2CH AMPLIFIER KIT: ADD IF GS20 OR GS22 WITH BASE STEREO OPTION ONLY			
(IN OTHER WORDS, ORDER THIS KIT IF BOAT ORIGINALLY DOES NOT HAVE AN AMPLIFIER TO POWER COCKPIT SPEAKERS. THE JLMM100s CANNOT POWER SPEAKERS WITHOUT AN EXTERNAL AMPLIFIER)			
	SP-18-160017	GS20 & GS22 BASE STEREO 2CH AMPLIFIER KIT	1
		KIT INCLUDES:	
	160017	AMPLIFIER, JL AUDIO 2 CHANNEL (200W)	1
	170030	POWER CABLE KIT	1
	150157	HARNESS AMP BOARD COCKPIT/BOW SPEAKER	1
	160229*	HARNESS, AMP BOARD TRIGGER	1
	3286	8-32 x 1" SS TRUSS HEAD MACHINE SCREW	4
	3023	8-32 SS NUT WITH NYLON INSERT	4

* IF FACTORY TOWER SPEAKERS AND AMPLIFIER ARE ALREADY INSTALLED, 160229 TRIGGER HARNESS NOT NEEDED. USE EXISTING BLUE WIRE TO TRIGGER NEW AMP.

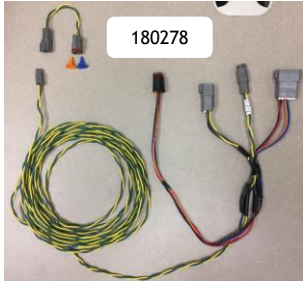


Parts

1) SP-18-180075 Base Kit



180075



180278



3878



3023



180141



3439



1868



4487



160027

160025

160025

2) Transom Remote



180134



180135

3) Trim Plate



180018



180017

4) SP-18-160017 2ch Amplifier Kit



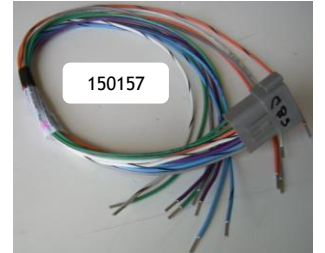
160017



170030



160027



150157



3023



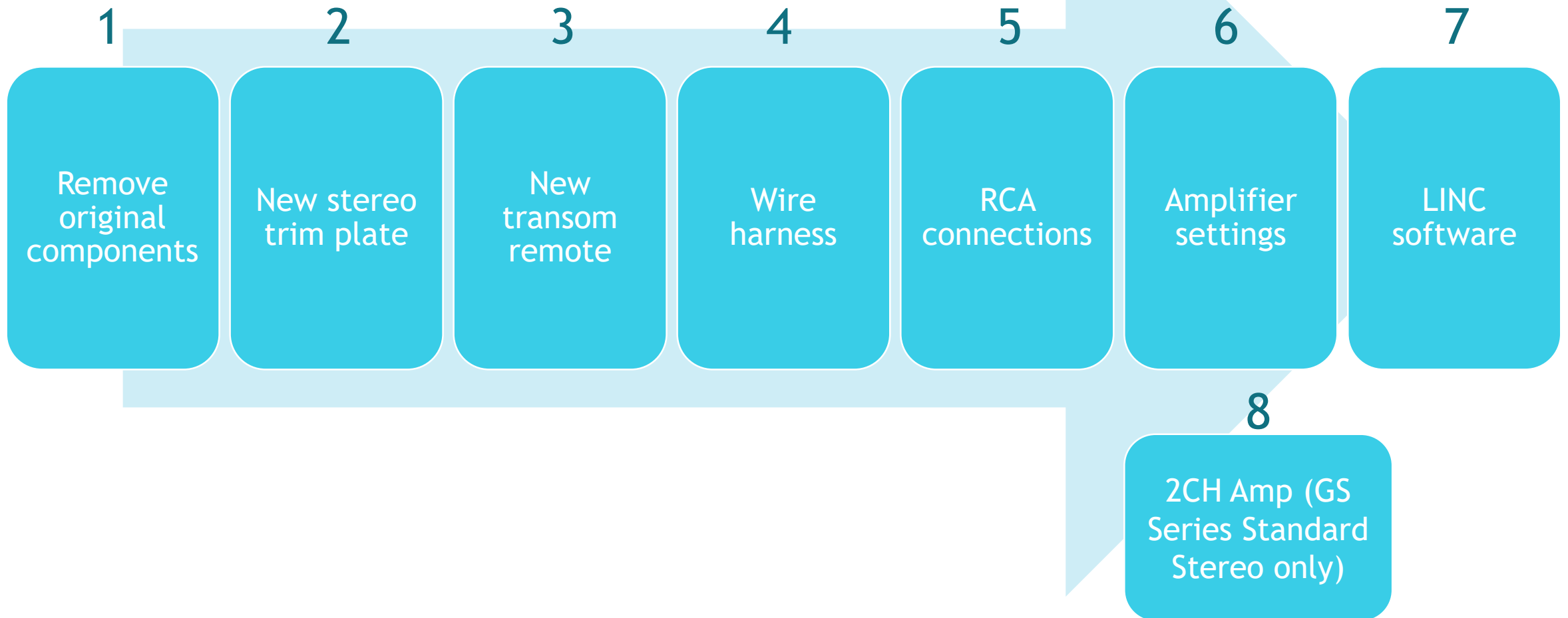
3286



160229



Steps Overview

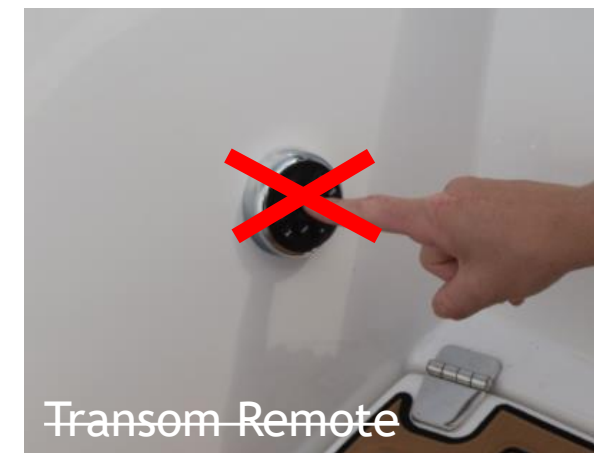




1 Remove Original Components

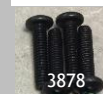


REMOVE ORIGINAL COMPONENTS





2 New Stereo Trim Plate Assembly





2.1 NEW STEREO TRIM PLATE ASSEMBLY



G23 & G25



G21, GS20, GS22

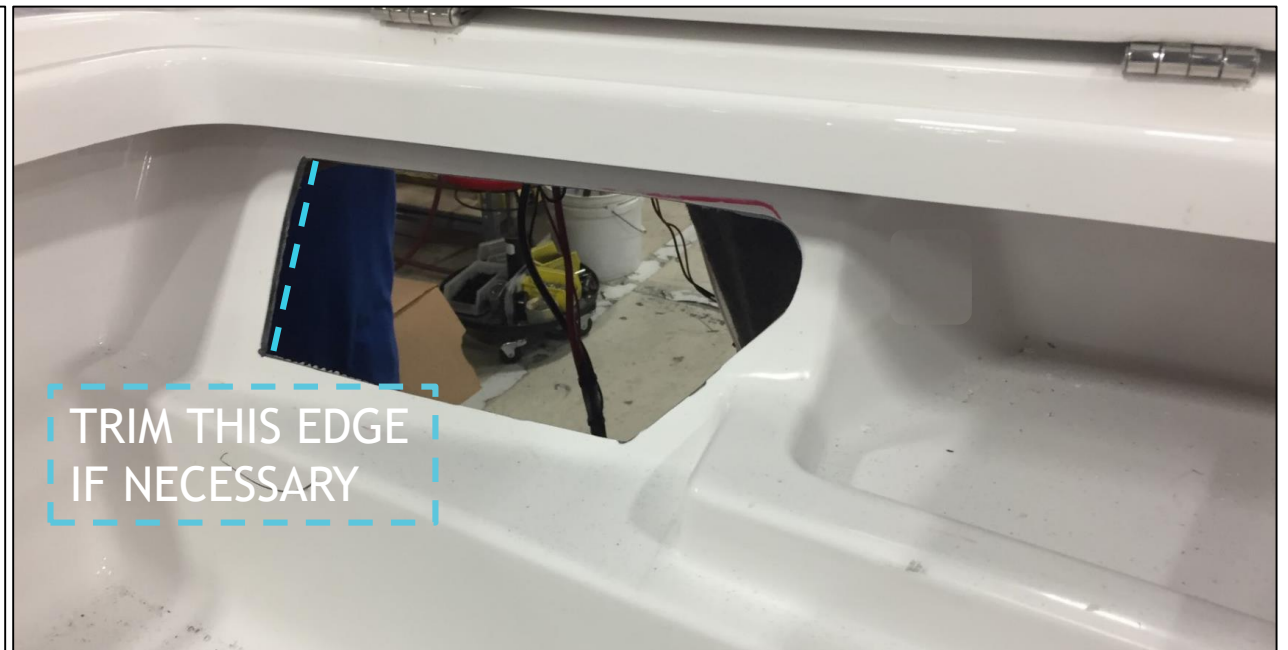
Transfer USB charger, USB input, new JL aux input, 12v receptacle and JL head unit to new trim plate

Note: on G23 & G25 models the 12v receptacle will be moved to another location



2.2a NEW STEREO TRIM PLATE ASSEMBLY G23 & G25

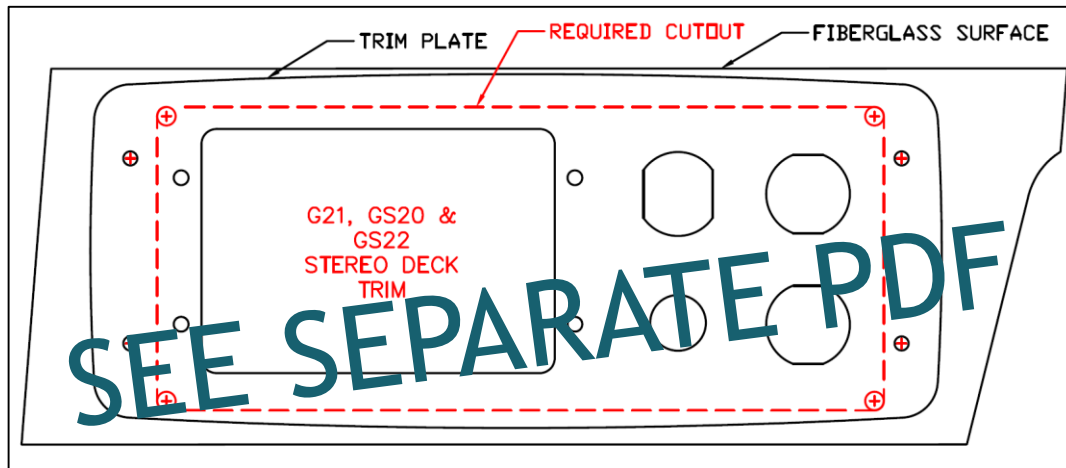
- Use STEREO TRIM PLATE CUTOUT PATTERN (pdf provided separately) to determine if grinding is necessary before installing the new trim plate assembly
- If 1 or more trim plate screw holes do not line up or do not retain self-tapping screws, use the #8-32 x 1" black flathead machine screws and captive star lock nuts to attach trim plate to fiberglass





2.2b NEW STEREO TRIM PLATE ASSEMBLY G21, GS20 & GS22

- Use STEREO TRIM PLATE CUTOUT PATTERN (pdf provided separately) to determine if grinding is necessary before installing the new trim plate assembly
- Mount new trim plate assembly to deck using both the original panhead self-tapping screws and pilot holes





2.3a NEW STEREO TRIM PLATE ASSEMBLY G23 & G25 ONLY

- Drill new 1-1/8" hole to relocate 12v receptacle on the upper back surface of the upper shelf in the glove box. ***Before drilling, clear the space of any wires which may get damaged behind the future receptacle location.***



Center of hole to be located 1.5" from bottom and left surfaces



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3 Transom Remote

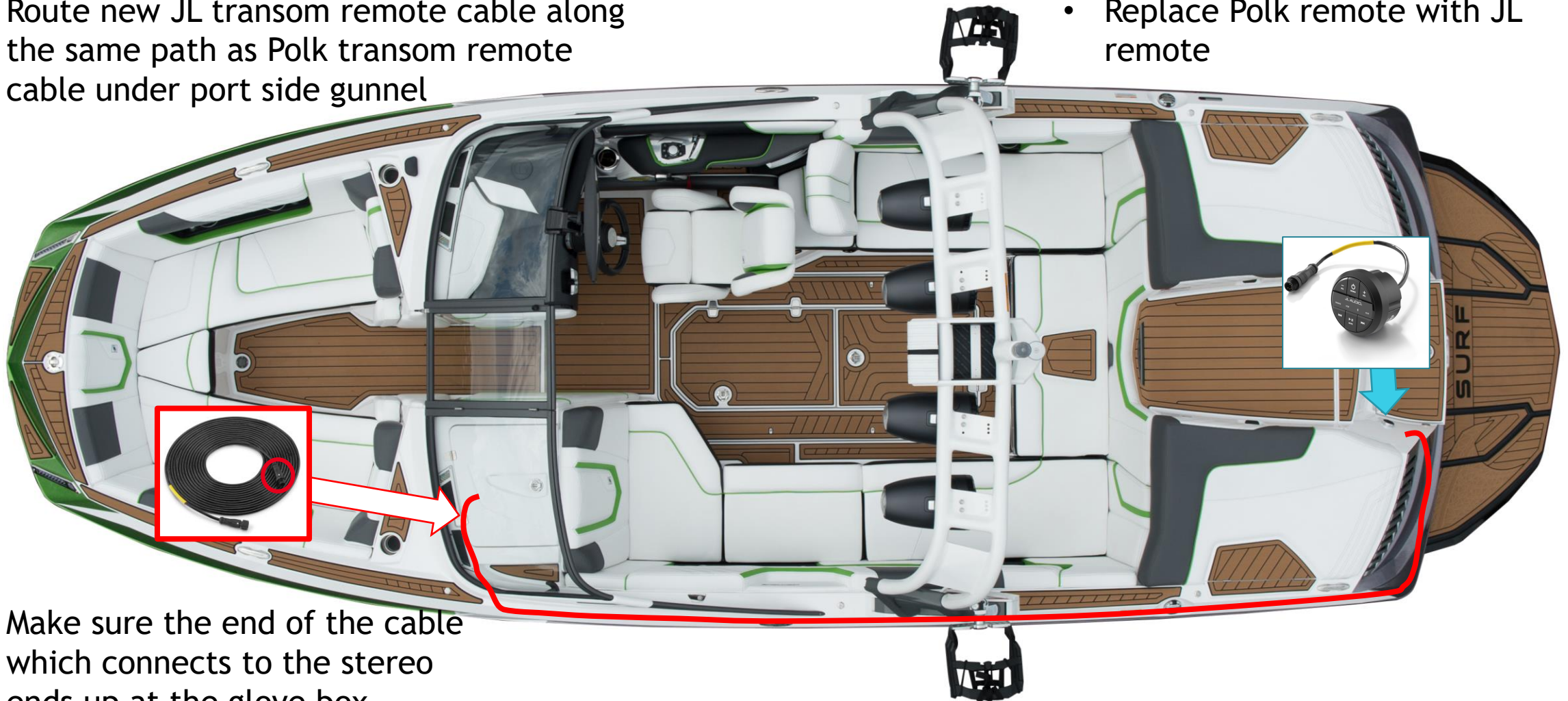




3 TRANSOM REMOTE CABLE

- Route new JL transom remote cable along the same path as Polk transom remote cable under port side gunnel

- Replace Polk remote with JL remote

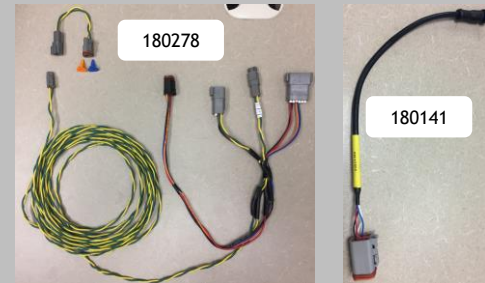


- Make sure the end of the cable which connects to the stereo ends up at the glove box



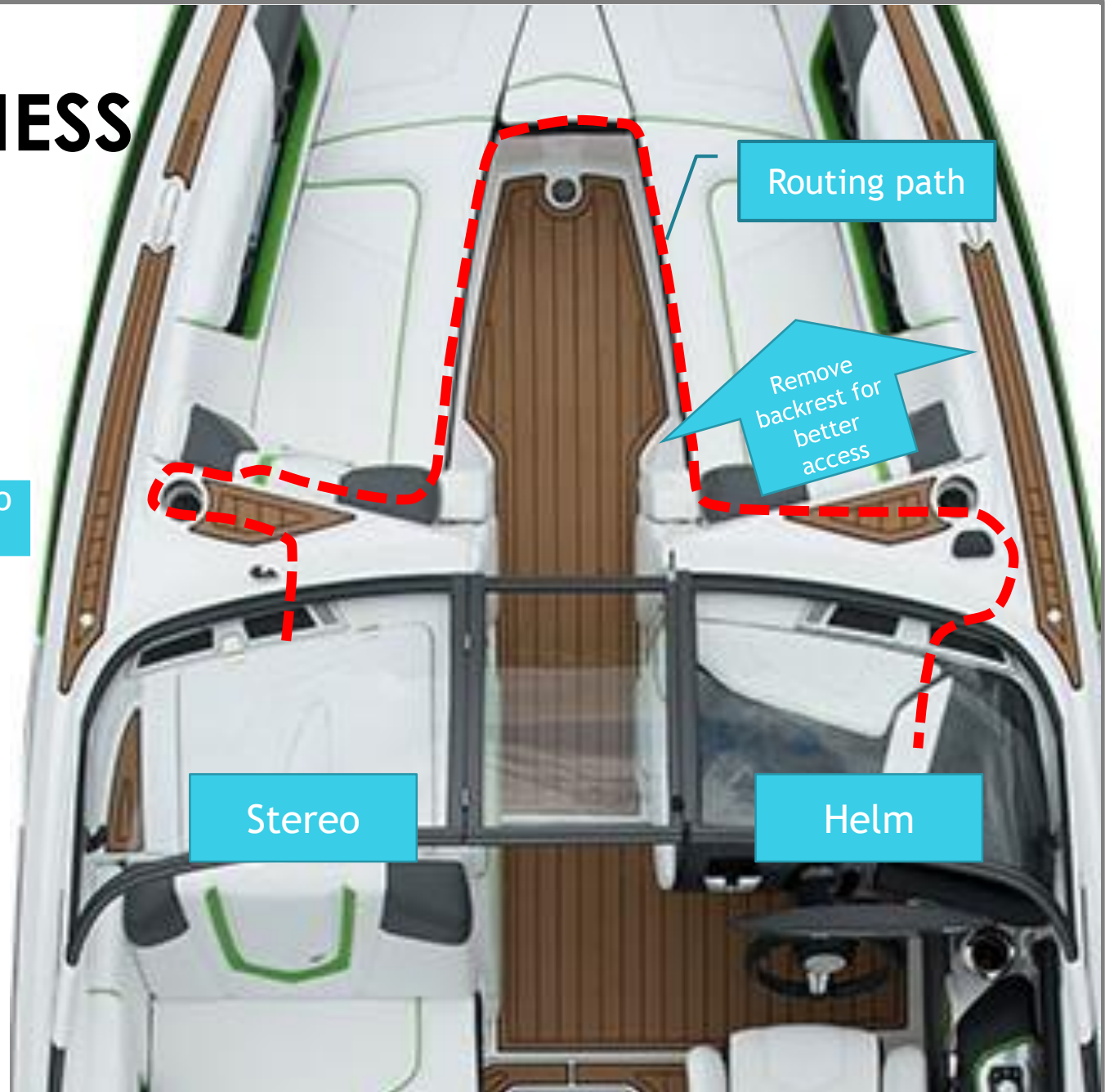
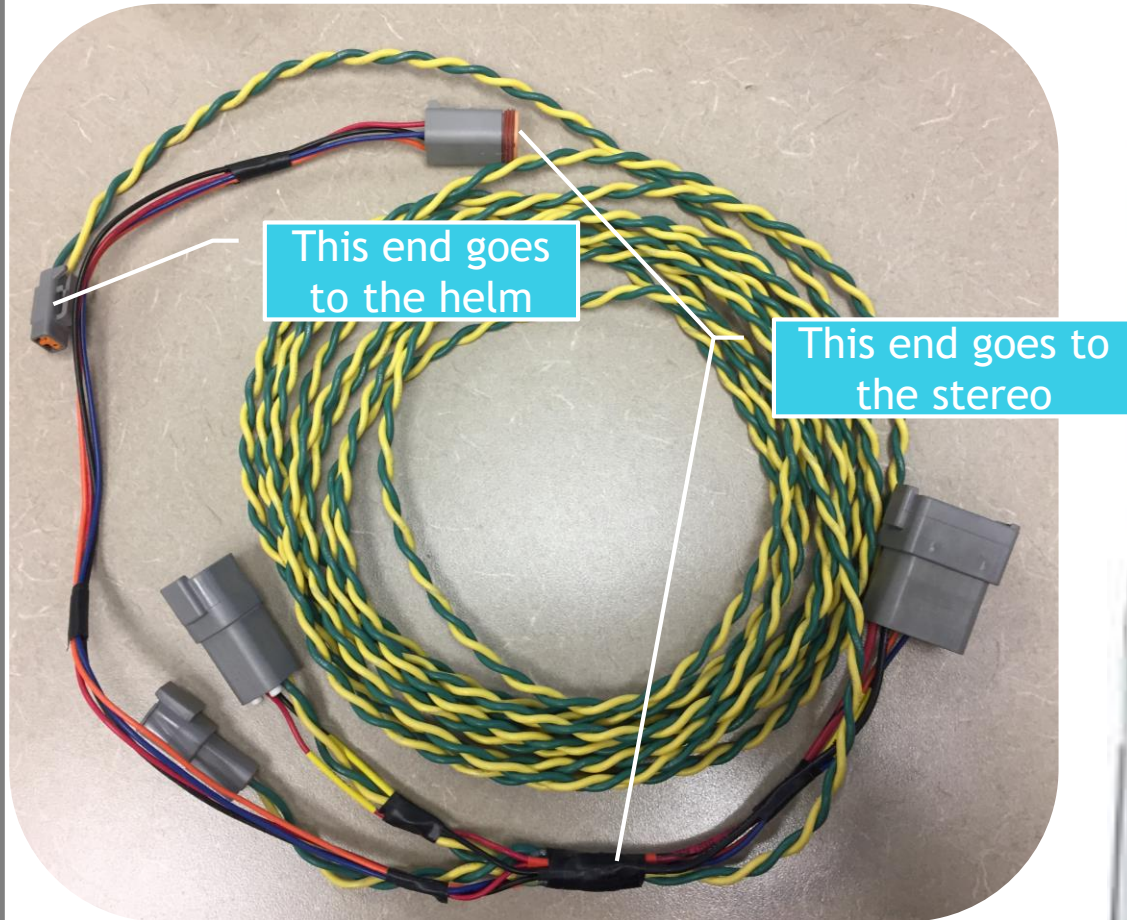
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4 Wire Harness





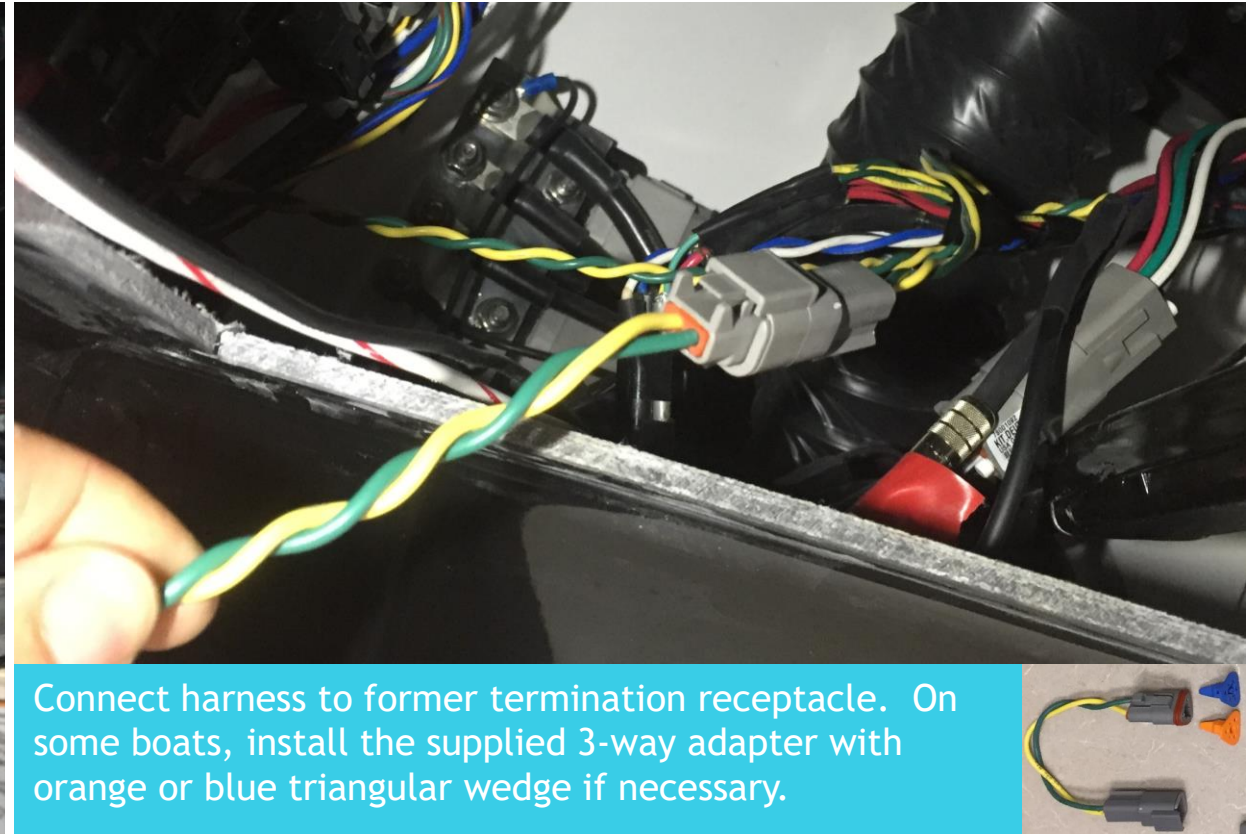
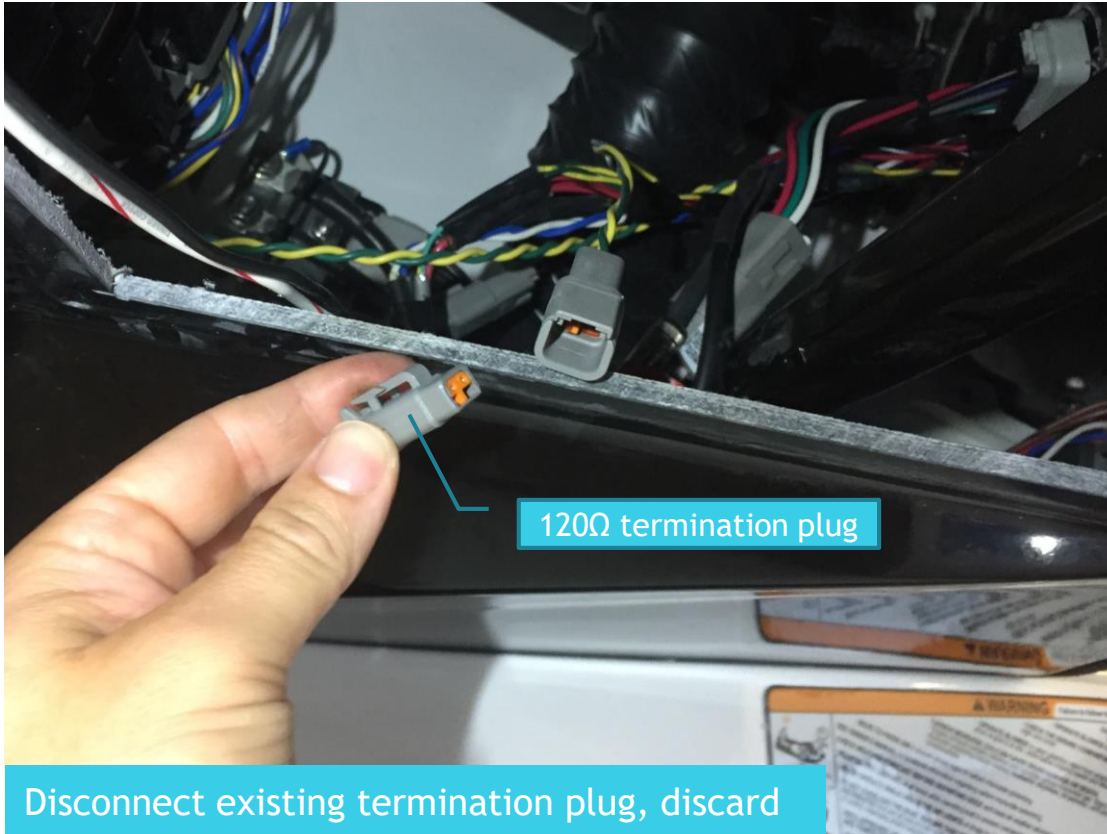
4.1 INSTALL HARNESS





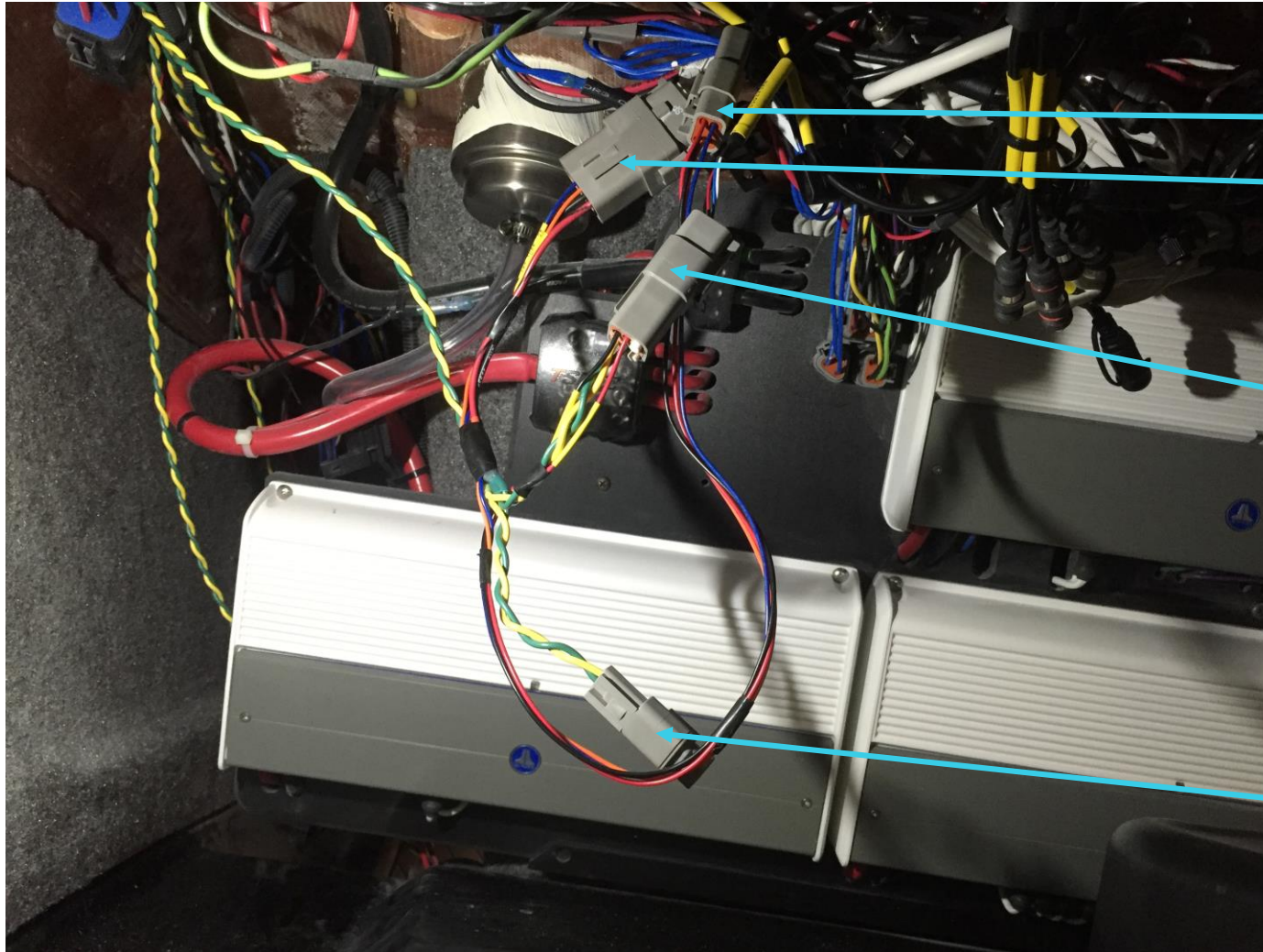
4.2 INSTALL HARNESS – HELM AREA

1 CONNECTION





4.3 INSTALL HARNESS – STEREO AREA



4 CONNECTIONS

To JL head unit Power connector

To existing 12way stereo plug

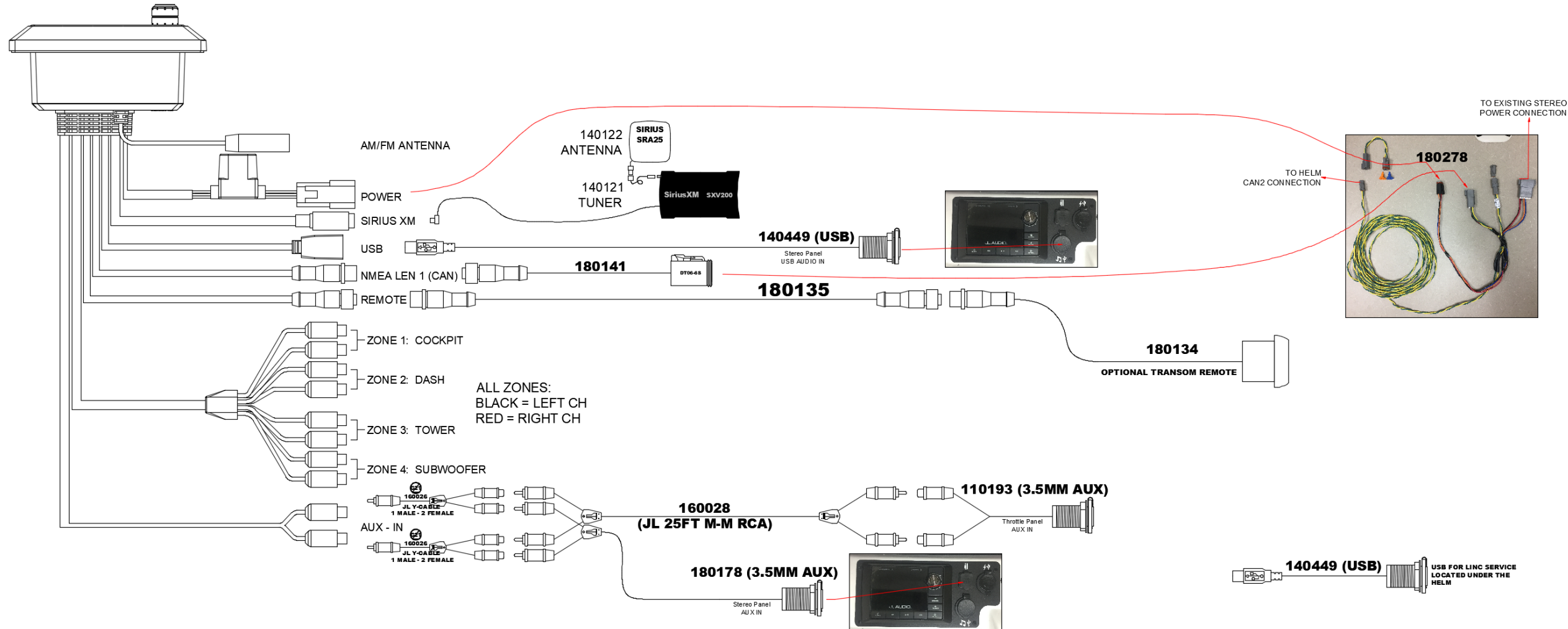


To head unit NMEA LEN 1

CAN 2 termination
connector (make sure
termination plug is
connected)



JL MEDIA MASTER RETROFIT STEREO LAYOUT



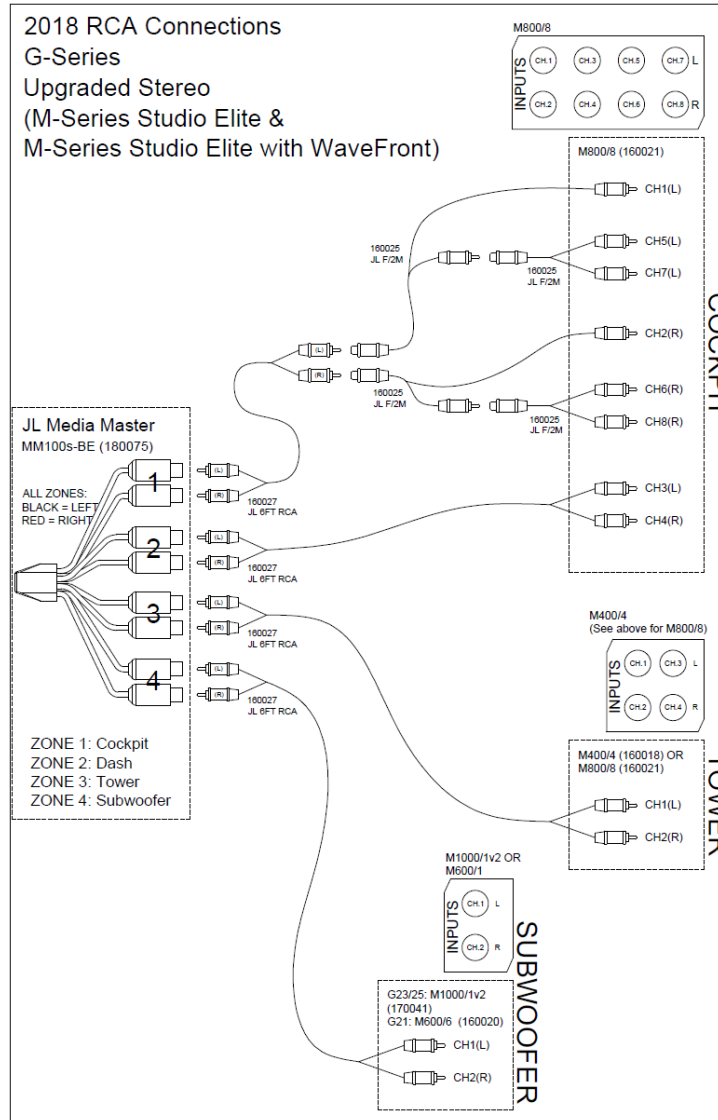


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5 RCA Connections

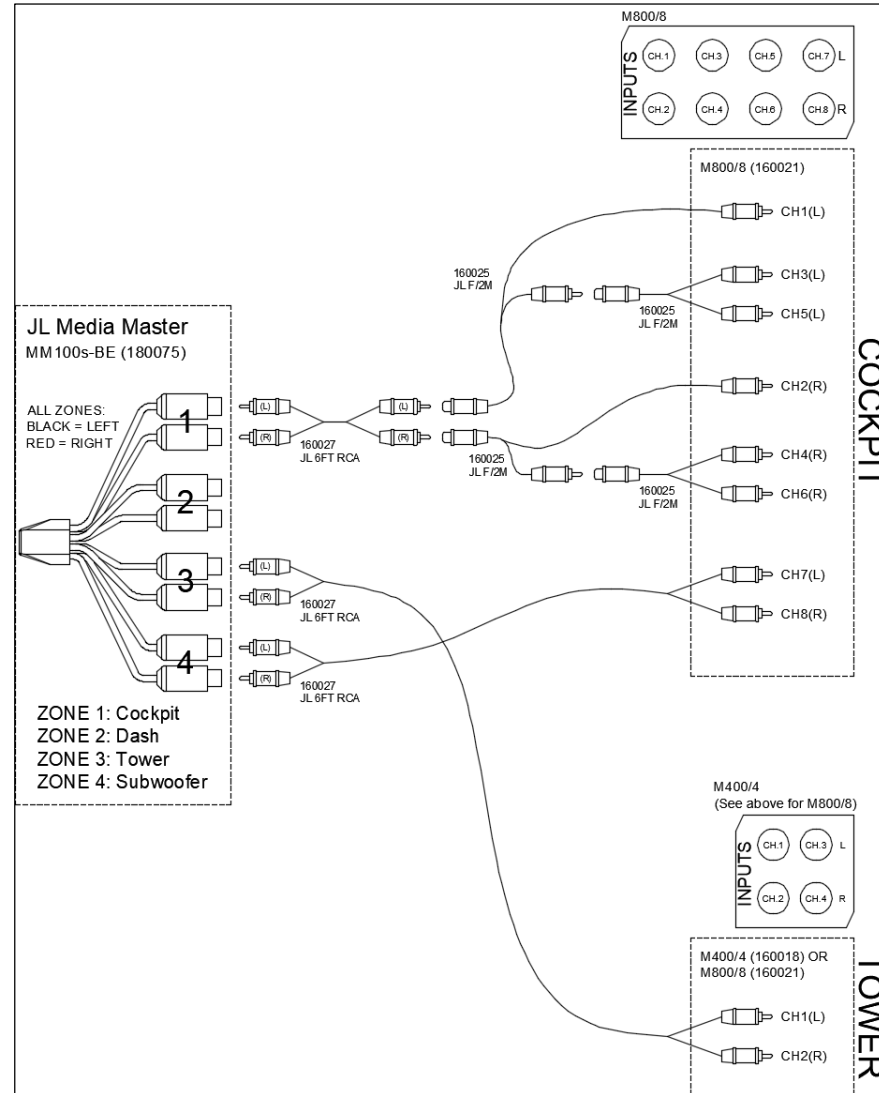


5a G Series with M-Series Studio Elite (upgrade)



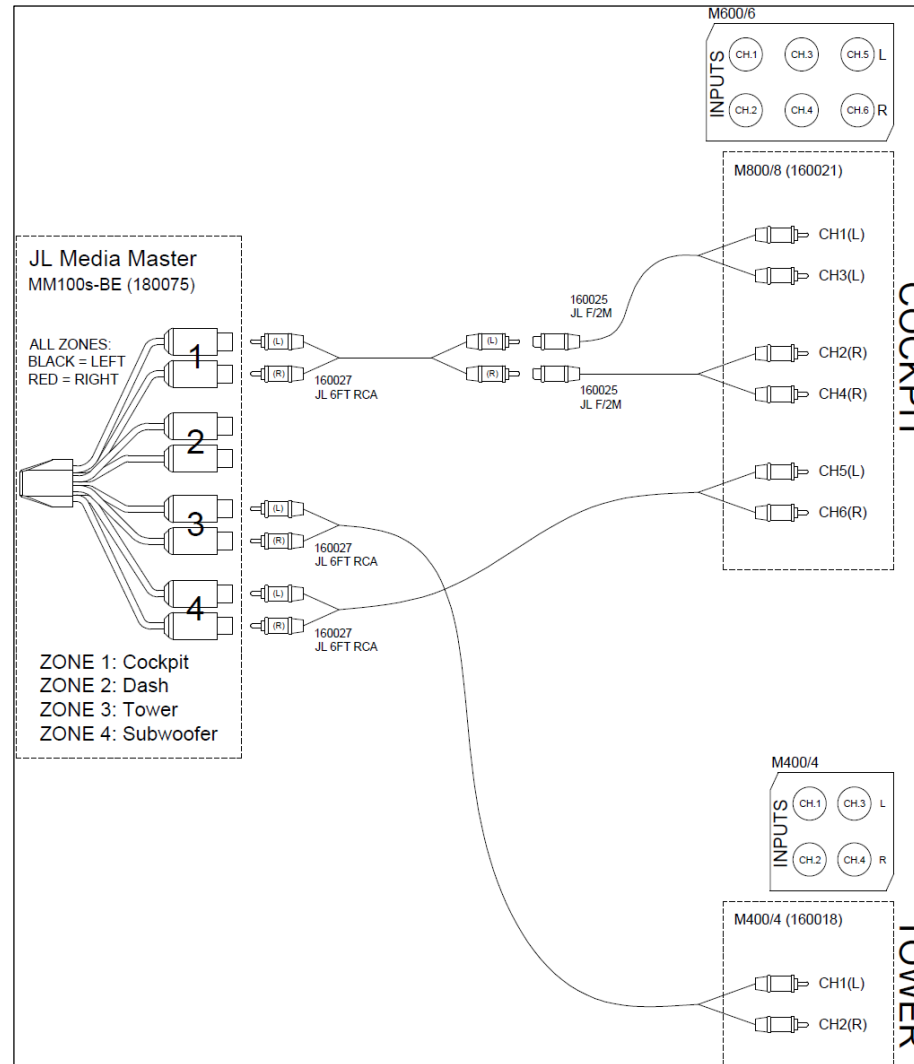


5b G Series Standard



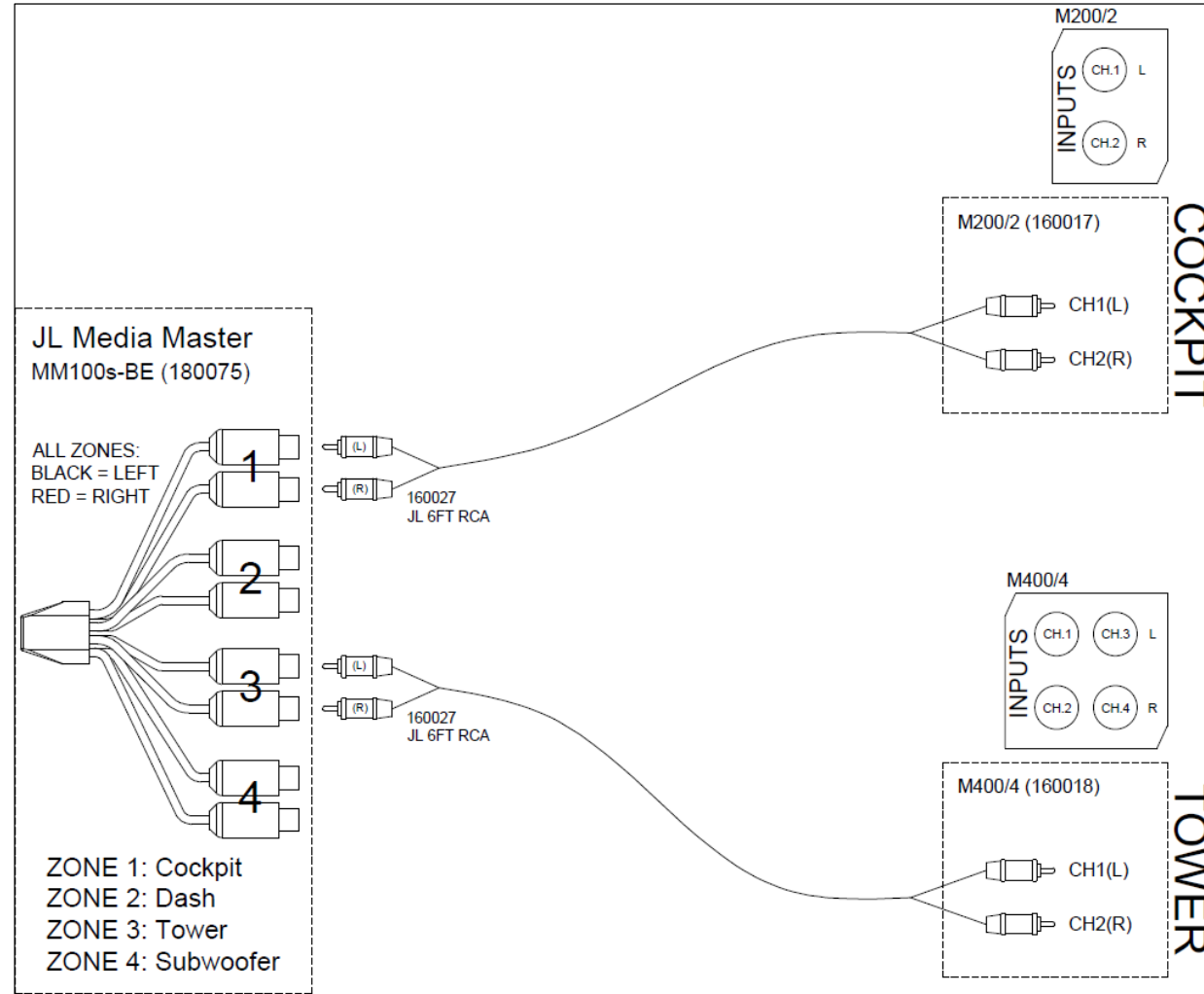


5c GS Series MX Premier (upgraded)





5d GS Series Standard





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6 Amp Settings



6a G23 & G25 M Series Studio Elite (upgraded)

System includes:

- 2 x 12" subwoofers
- JL Wavefront under-dash speakers

Tower

Turn-On
Mode
Rem. | Offset | Signal

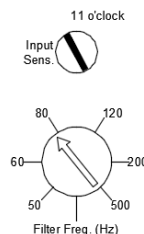
Remote
Level
Mode
All | 5-8 | 7&8

Input Voltage
Low | High

Input Mode
2Ch. | 4 Ch. | 8 Ch.

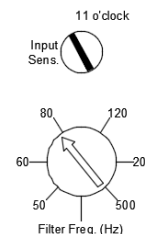
Ch. 1&2

Filter Mode
Off | HP | LP



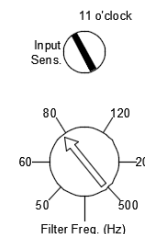
Ch. 3&4

Filter Mode
Off | HP | LP



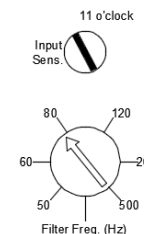
Ch. 5&6

Filter Mode
Off | HP | LP



Ch. 7&8

Filter Mode
Off | HP | LP



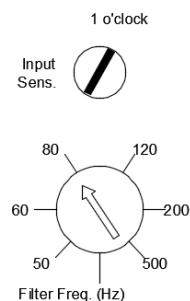
8 Channel Amplifier
M800/8
160021

Subwoofer

Infrasonic
Filter
Off | 30Hz

LP Filter
Mode / Slope
Off | 12dB | 24dB

Input Voltage
Low | High



1000W Amplifier
M1000/1v2
170041

Cockpit

Turn-On
Mode
Rem. | Offset | Signal

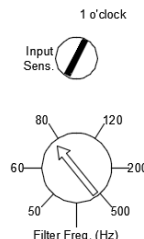
Remote
Level
Mode
All | 5-8 | 7&8

Input Voltage
Low | High

Input Mode
2Ch. | 4 Ch. | 8 Ch.

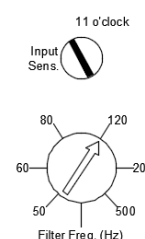
Ch. 1&2

Filter Mode
Off | HP | LP



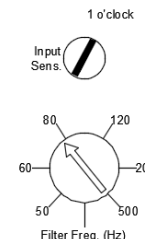
Ch. 3&4

Filter Mode
Off | HP | LP



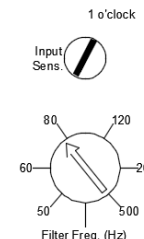
Ch. 5&6

Filter Mode
Off | HP | LP



Ch. 7&8

Filter Mode
Off | HP | LP



8 Channel Amplifier
M800/8
160021

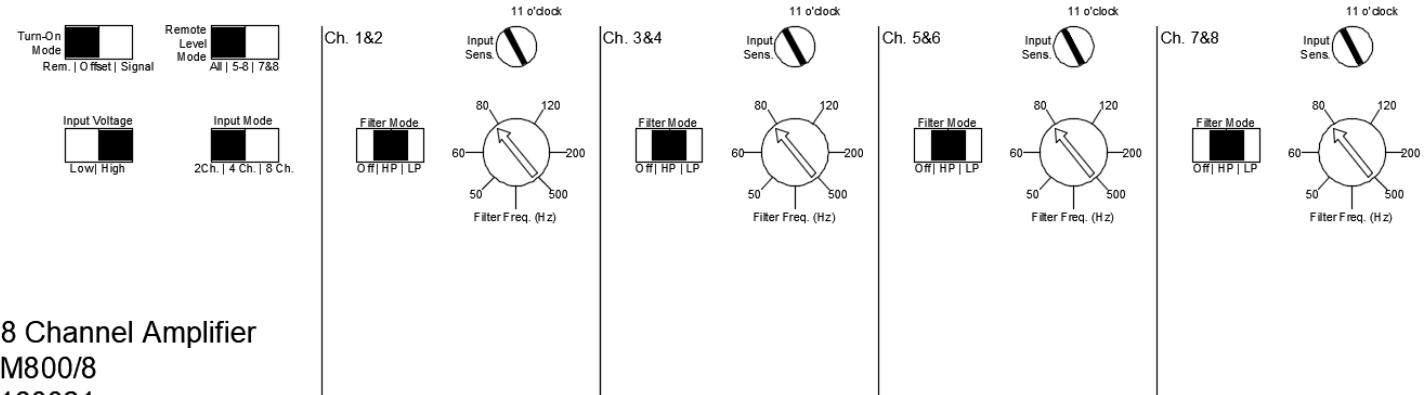


6b G21 M Series Studio Elite (upgraded)

System includes:

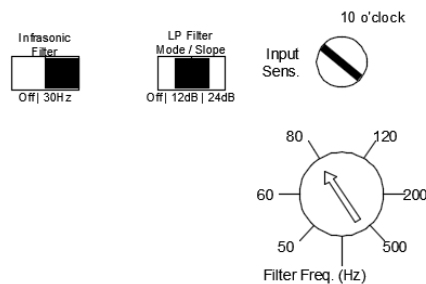
- 2 x 10" subwoofers
- Tweeters on dash

Tower



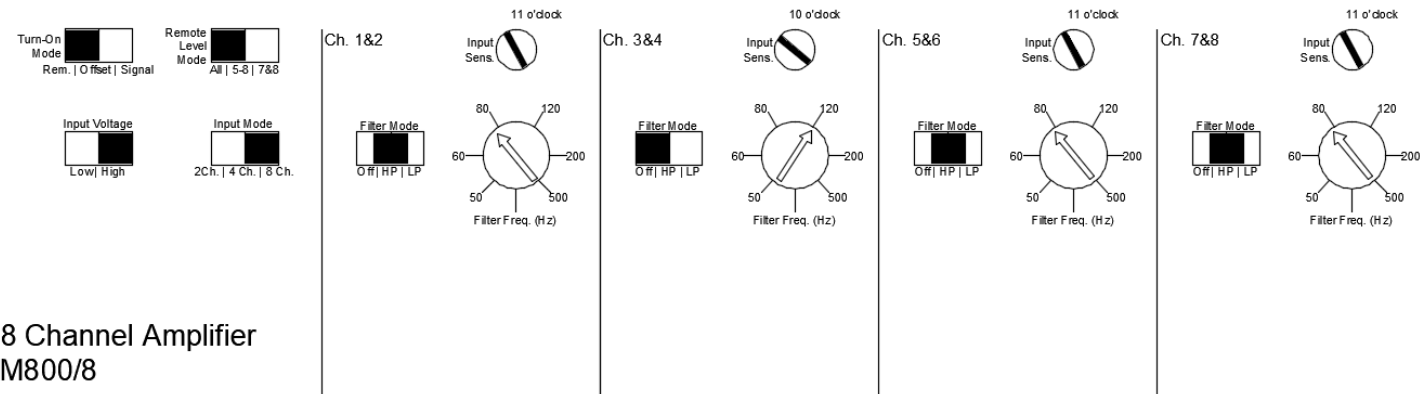
8 Channel Amplifier
M800/8
160021

Subwoofer



600W Amplifier
M600/1
160020

Cockpit



8 Channel Amplifier
M800/8
160021



6c G Series M Series Elite (standard)

Tower

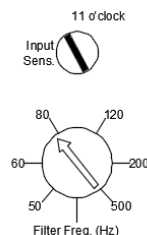
Turn-On
Mode
Rem. | Offset | Signal

Remote
Level
Mode
All | 5-8 | 7&8

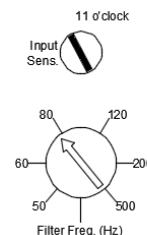
Input Voltage
Low | High

Input Mode
2 Ch. | 4 Ch. | 8 Ch.

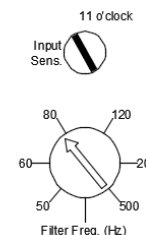
Ch. 1&2



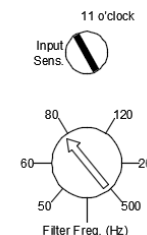
Ch. 3&4



Ch. 5&6



Ch. 7&8



8 Channel Amplifier
M800/8
160021

Cockpit

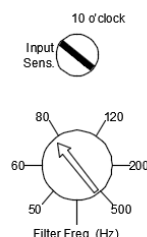
Turn-On
Mode
Rem. | Offset | Signal

Remote
Level
Mode
All | 5-8 | 7&8

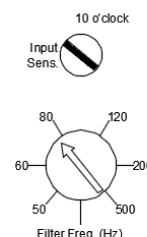
Input Voltage
Low | High

Input Mode
2 Ch. | 4 Ch. | 8 Ch.

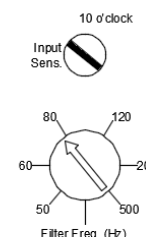
Ch. 1&2



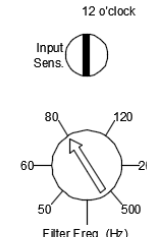
Ch. 3&4



Ch. 5&6



Ch. 7&8



8 Channel Amplifier
M800/8
160021



6d GS Series MX Series Premier (upgraded)

System includes:

- 10" subwoofer
- Bow speakers

Tower

Preouts From
1&2 | Sum

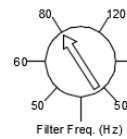
Remote Level Mode
All | 3&4

Input Mode
2Ch. | 4 Ch.

Ch. 1&2

Input Sens. 10 o'clock

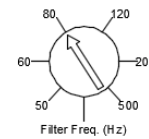
Filter Mode
Off | HP | LP



Ch. 3&4

Input Sens. 10 o'clock

Filter Mode
Off | HP | LP



4 Channel Amplifier
M400/4
160018

Cockpit

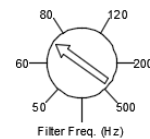
Remote Level Mode
All | 3-6 | 5&6

Input Mode
2Ch. | 4 Ch. | 6 Ch.

Ch. 1&2

Input Sens. 10 o'clock

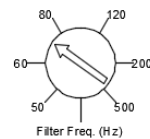
Filter Mode
Off | HP | LP



Ch. 3&4

Input Sens. 10 o'clock

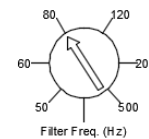
Filter Mode
Off | HP | LP



Ch. 5&6

Input Sens. 11 o'clock

Filter Mode
Off | HP | LP



6 Channel Amplifier
M600/6
160019



6e GS Series MX Series (standard)

Tower

Preouts From
1&2 | Sum

Remote Level Mode
All | 3&4

Input Mode
2Ch. | 4 Ch.

4 Channel Amplifier
M400/4
160018

Ch.
1&2

10 o'clock
Input Sens.
80 120 200 500
60
Filter Freq. (Hz)

Filter Mode
Off | HP | LP

Ch.
3&4

10 o'clock
Input Sens.
80 120 200 500
60
Filter Freq. (Hz)

Filter Mode
Off | HP | LP

Cockpit

Filter Mode
Off | HP | LP

2 Channel Amplifier
M200/2
160017

11 o'clock
80 120 200 500
60
Filter Freq. (Hz)



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7 LINC Software



7 LINC Software Update Versions

Putting an update on your flash drive:

1. Click on a link to begin downloading the file in your internet browser
2. When the internet page opens, choose "Download"
3. Copy or Move the file to your flash drive



2016
LINC
Touch

- G21, G23, G25

NOTE: On some early versions of 2016 LINC Touch software, you may need to initiate the update process in a different way. You'll know this is the case if you are unable to see the "update-full_CC_2016_G5T_20180831_2910482_JL_Radio.pv1" file when you plug in your flash drive and touch the UPDATE LINC SOFTWARE button on the SYSTEM tab of the SETTINGS menu.

If this is the case, on the LINC display go to the Dealer Settings then enter the code 1337. From here, the update process follows the normal sequence.

[update-full_CC_2016_G5T_20190220_2923030_JL_Radio.pv1](#)



2017
LINC
Panoray

- G21, G23, G25
- GS20, GS22

[update-full_CC_2017_G6PAN_20180206_2910482_JL_Radio.pv1](#)

Download and install LINC software per the standard update procedures on dealer.Nautique.com



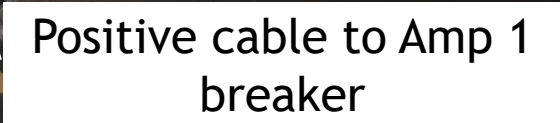
8

GS Series 2channel Amplifier Kit

SP-18-160017 2ch Amplifier Kit



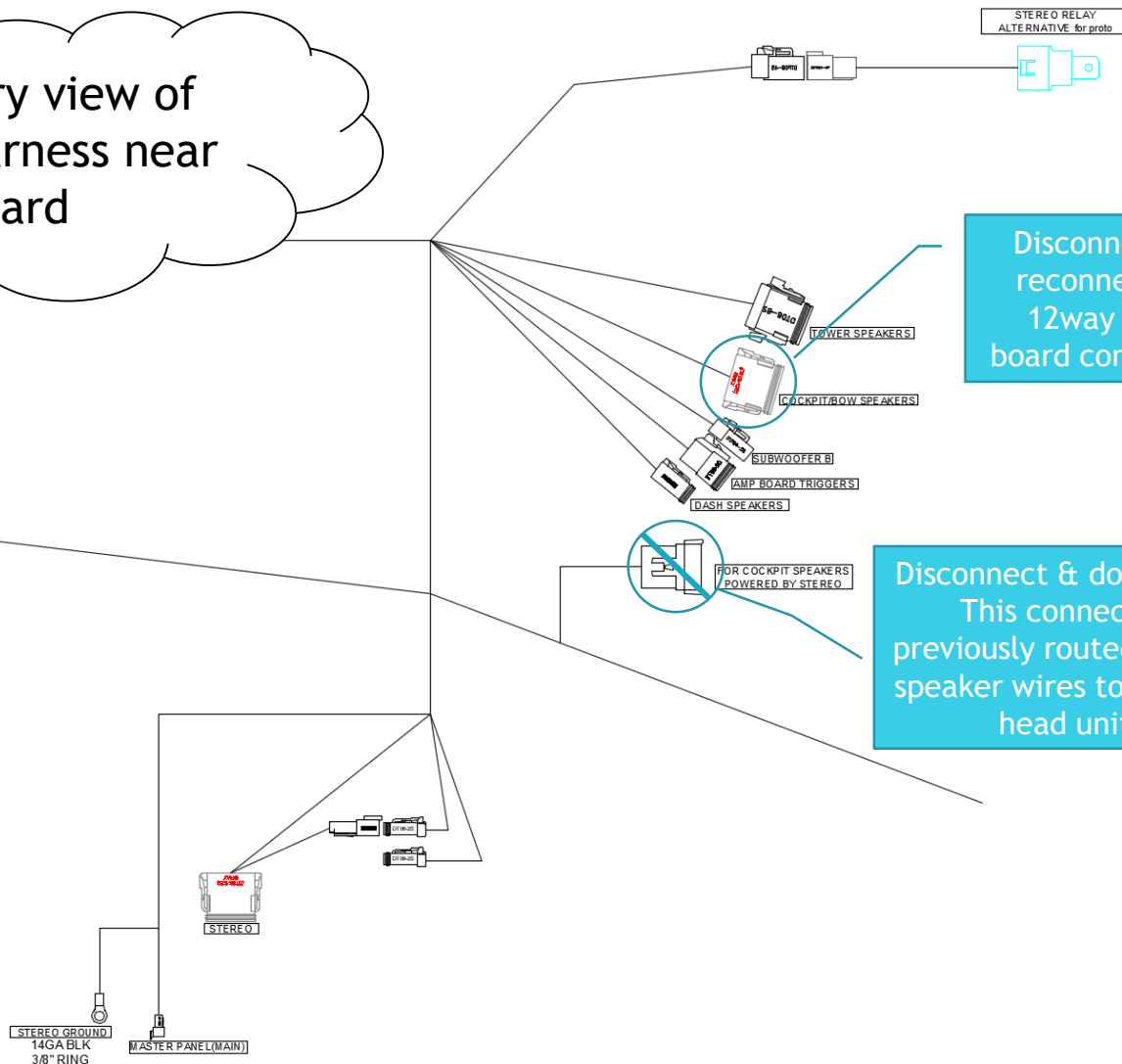
Kit required only if GS20 or GS22 originally had no cockpit amplifier





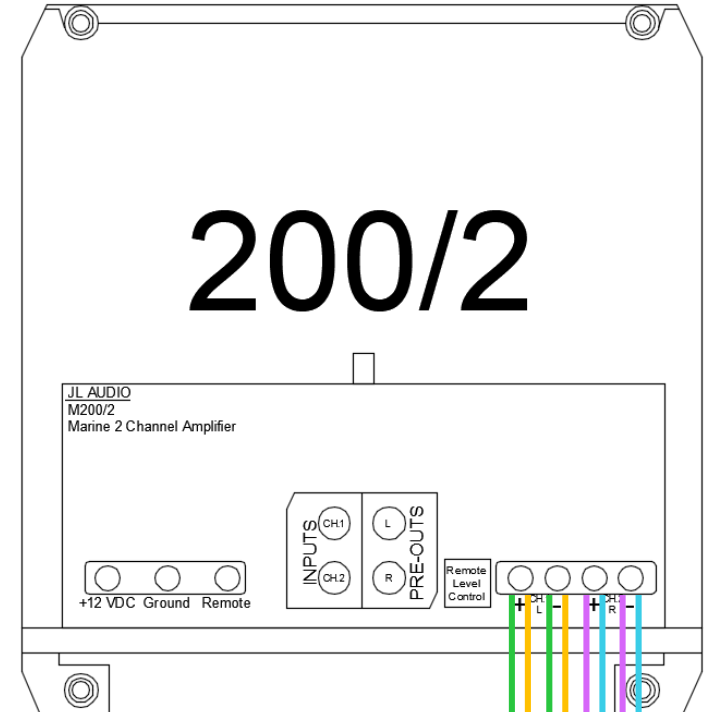
8.2 GS Series Standard Amp Board

Auxiliary view of
wire harness near
amp board



Disconnect & reconnect at
12way amp
board connector

Disconnect & do not use.
This connection
previously routed cockpit
speaker wires to the Polk
head unit.



4 Cockpit speakers
now wired to 2ch
amp.

Stb ckpt -
Stb ckpt +
Port ckpt -
Port ckpt +



8.3 GS Series Standard Amp Cable Route

