LED SENSOR INFO
BY

HARDIN MARINE
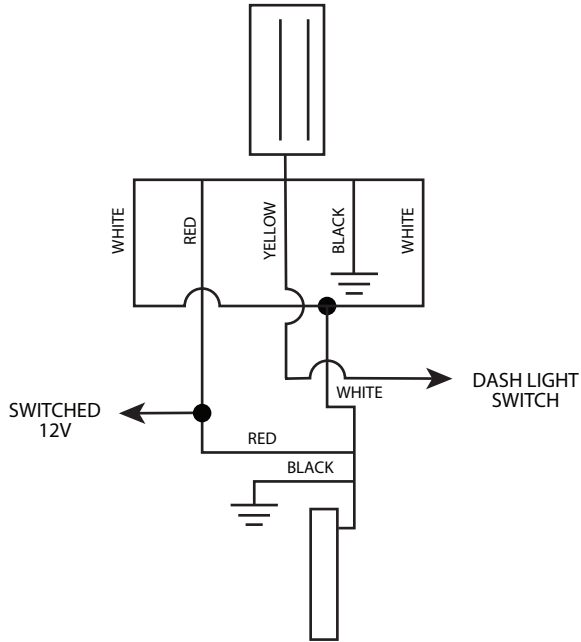
part numbers 137-8402, 8403 & 8404

The Dash Panel when activated with 12 volts, will cycle through all of the LED lights for 2 cycles. After the 2 cycles are complete, the LED light will be illuminated at the location of the trim of the tabs or the drives.
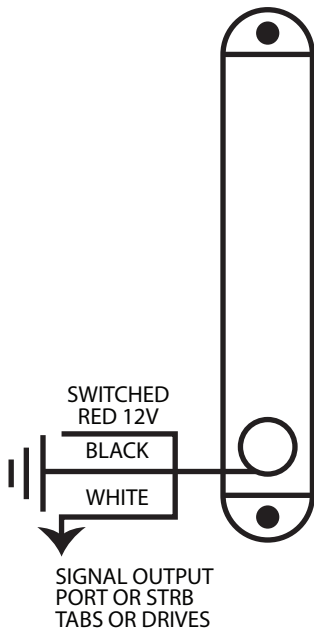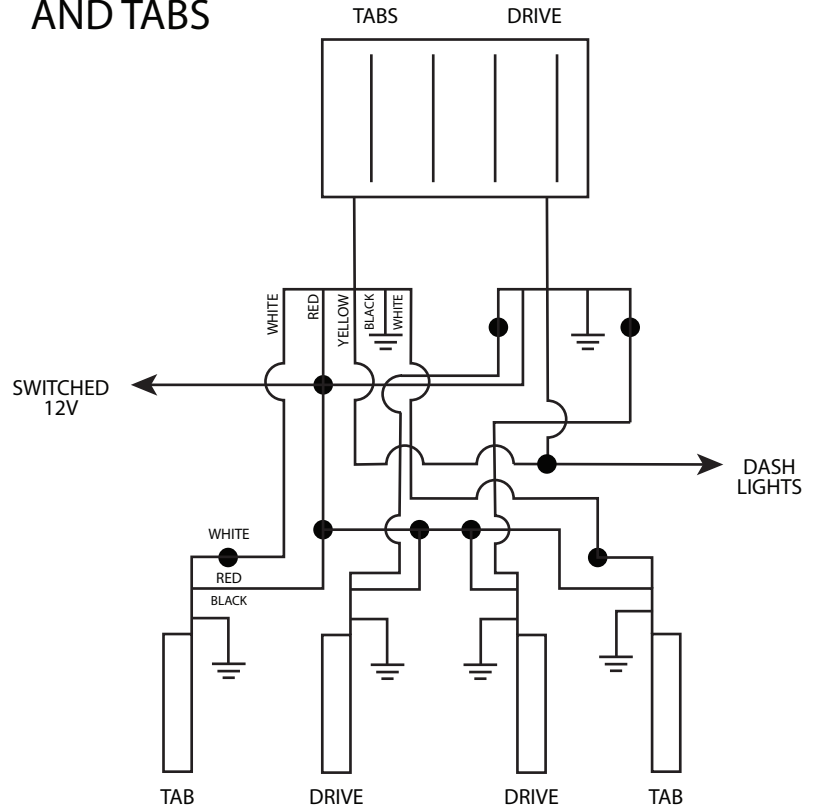
If the light flashes on either side of the dash panel and is not a solid color, this means that it does not have a signal from the sending unit. If the lights are solid, it has the signal, and will move up or down when the trim or the tabs location is changed.

TRIM TABS

BLACK

YELLOW → DASH LIGHT SWITCH

WHITE

WHITE

RED

BLACK

BLACK

GROUND
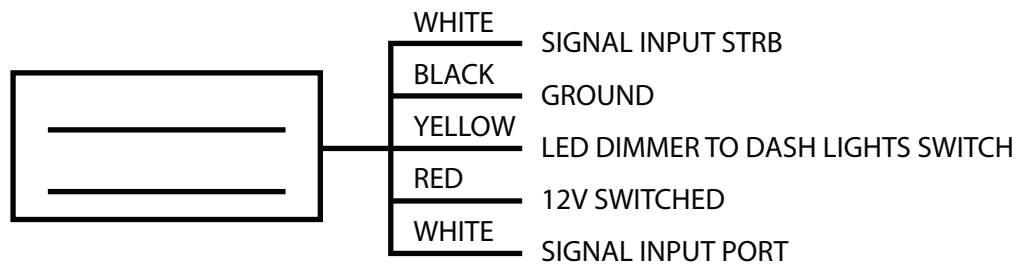
GROUND
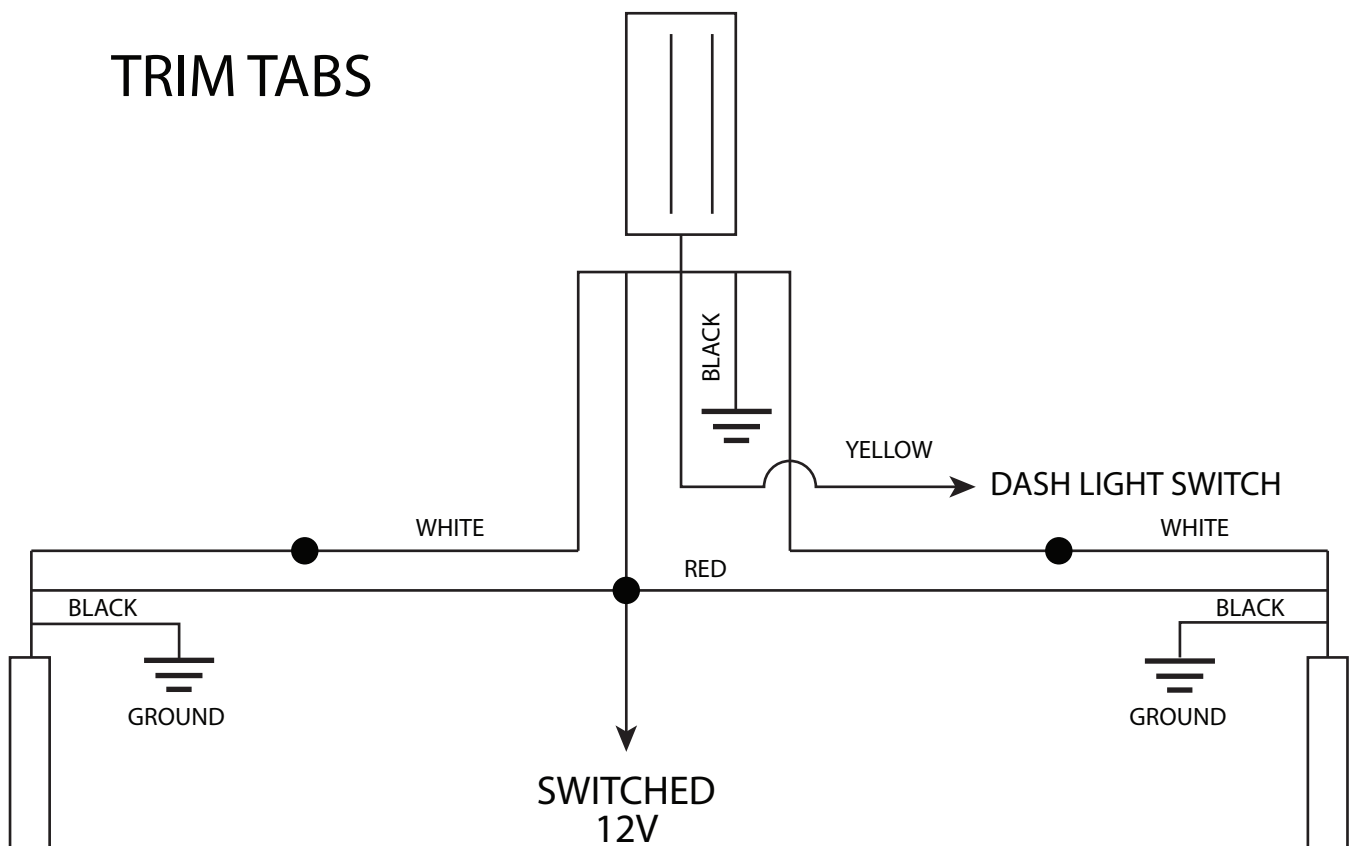
SWITCHED
12V

SINGLE BRAVO INSTALLATION

DUAL DRIVES AND TABS


*Red Wires connect to switched 12 Volt 5 amp fuses
*Black Wires connect to Ground
*White Wires are signal out and signal in, and
 connect to each other
*Yellow Wires connect to dash light switches.
 The LED light on panel will dim when connected
 to 12 Volts.
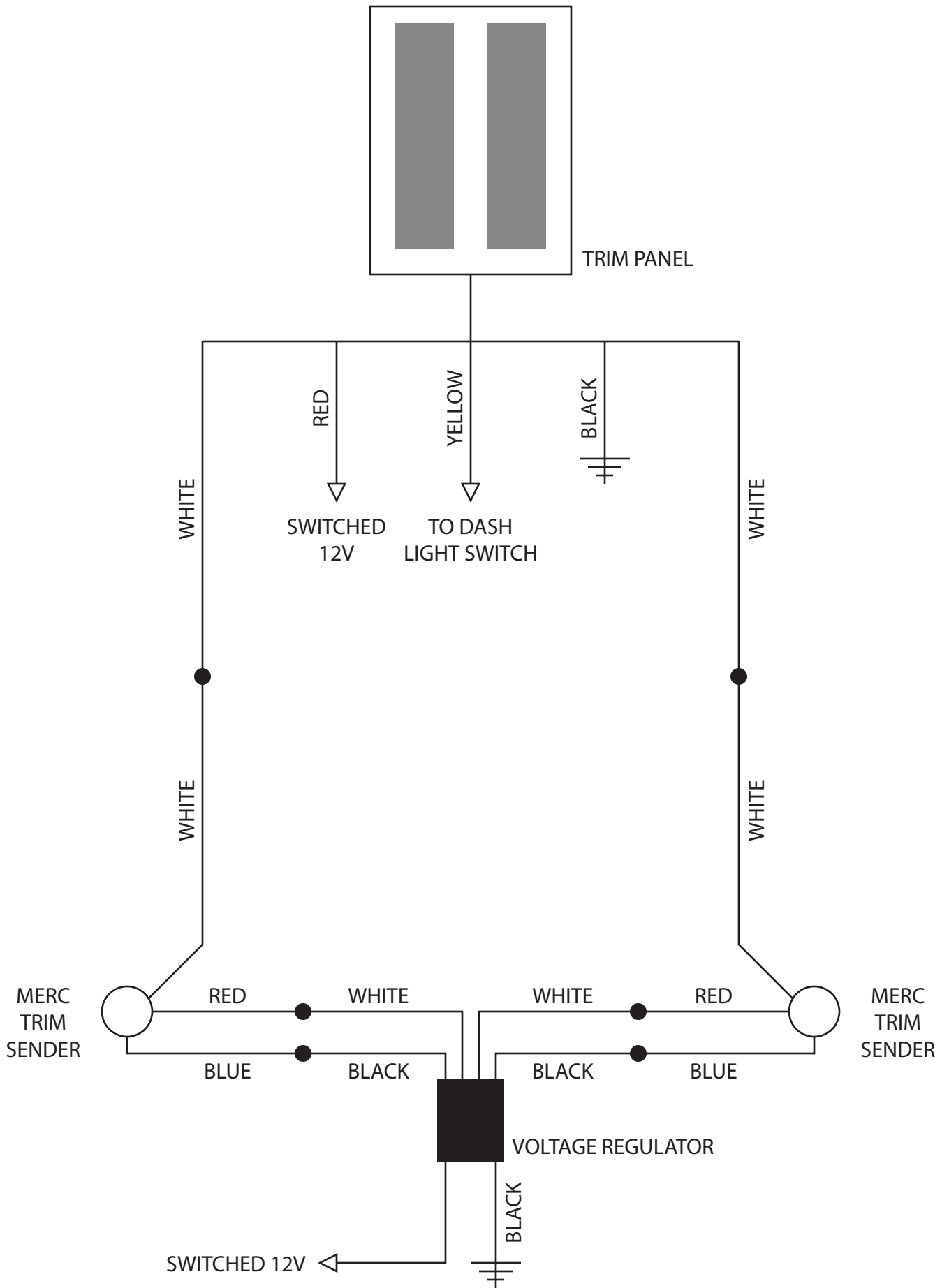
*NOTE: 18 GA Wire for harness

MERC TRIM TAB SENDER
PURPLE - 5v IN - WHITE WIRE
GREEN - SIGNAL OUT - TO LED PANEL WHITE WIRE
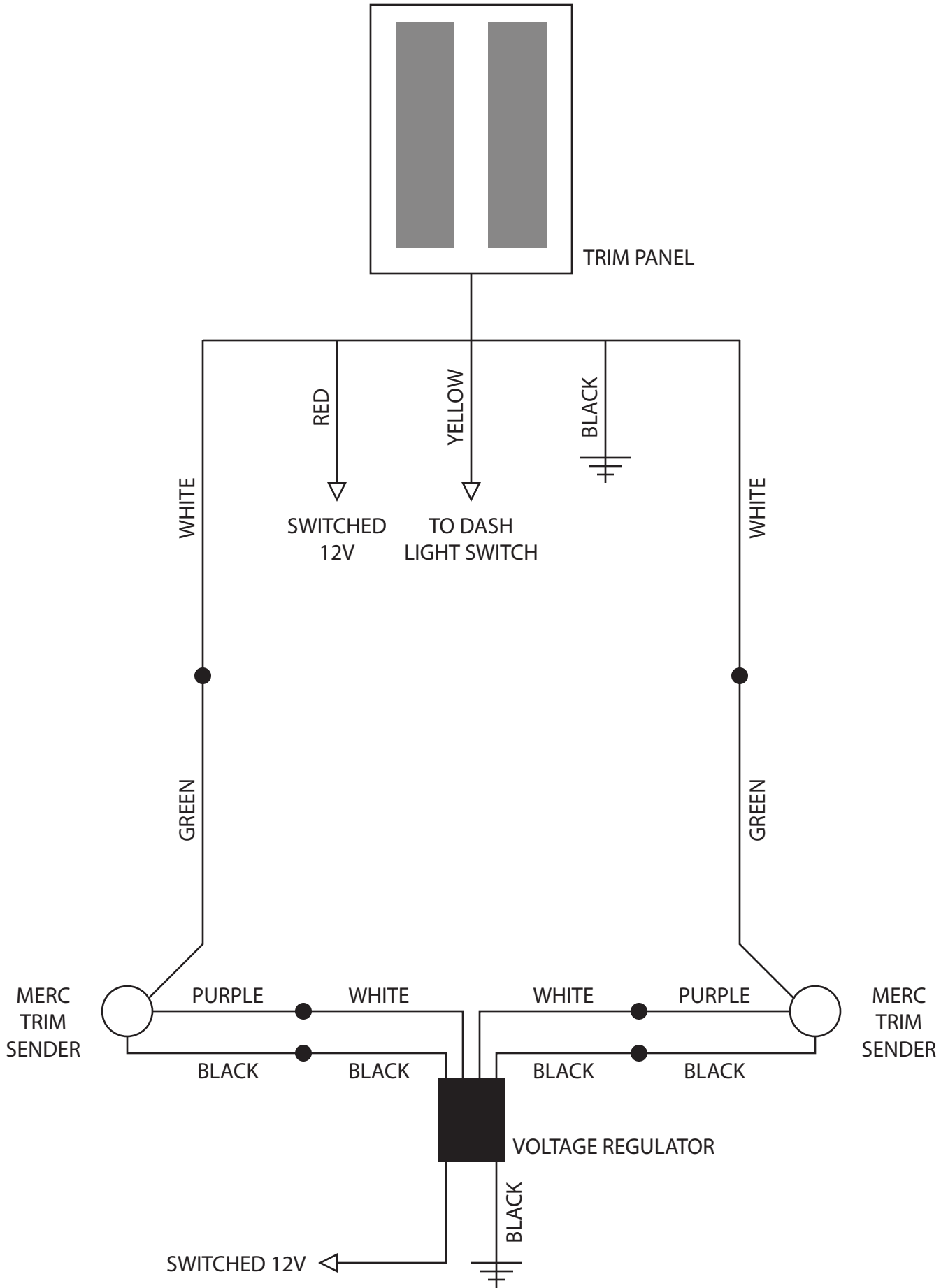BLACK - GROUND, BLACK WIRE
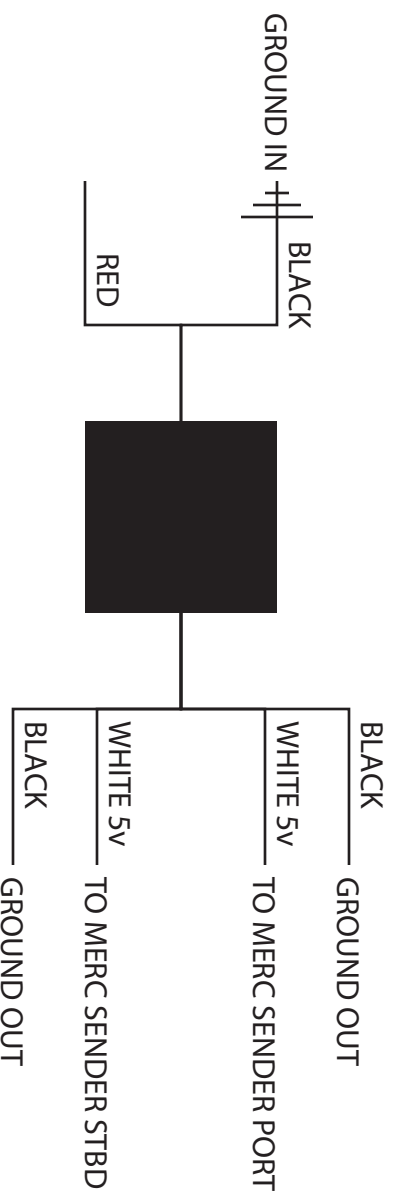
MERC DRIVE SENDER
RED - 5v IN - WHITE WIRE
WHITE - SIGNAL OUT - TO LED PANEL WHITE WIRE
BLUE - GROUND IN, BLACK WIRE

GROUND IN

RED

BLACK

BLACK ———— GROUND OUT

WHITE 5v

WHITE 5v ———— TO MERC SENDER PORT

BLACK ———— GROUND OUT

WHITE 5v ———— TO MERC SENDER STBD

This is voltage regulator designed to take a single12 volt input and turn it into two 5 volt outputs to operate 5 volt sensors. Such as the Mercury Smartcraft sensors on both the K-plane trim tabs and Bravo outdrives. The pair of red and black wires are for the input of 12 volts and ground with the red wire being for 12 volts and the black for ground input. The two sets of black and white wires are for 5 volts out to the sensor and for ground out to the sensor. It does not matter which set of black and white wires goes to port or starboard as long as they are connected to the sensor. If you are operating just one sensor then you can use either set of black/wires for the single sensor function.
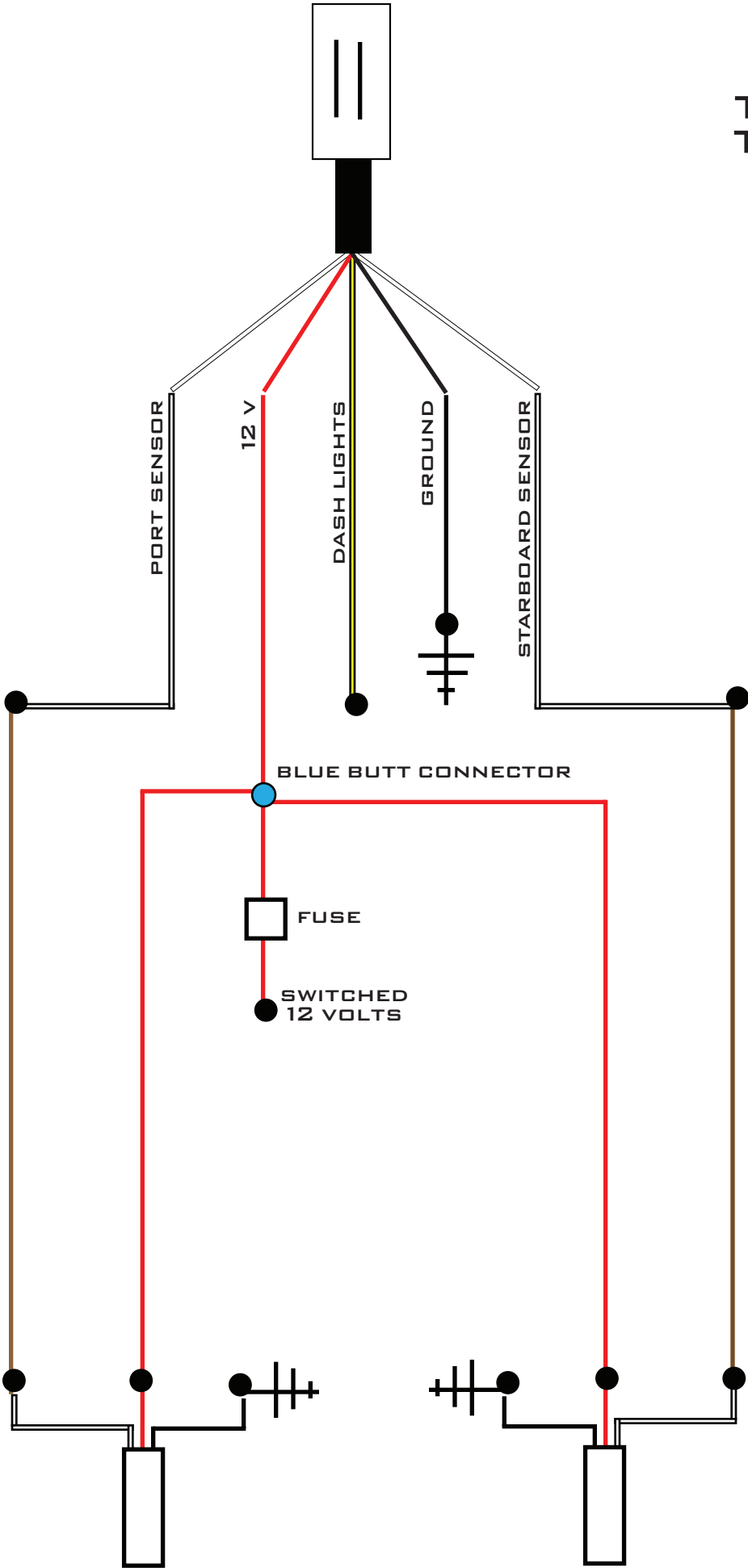
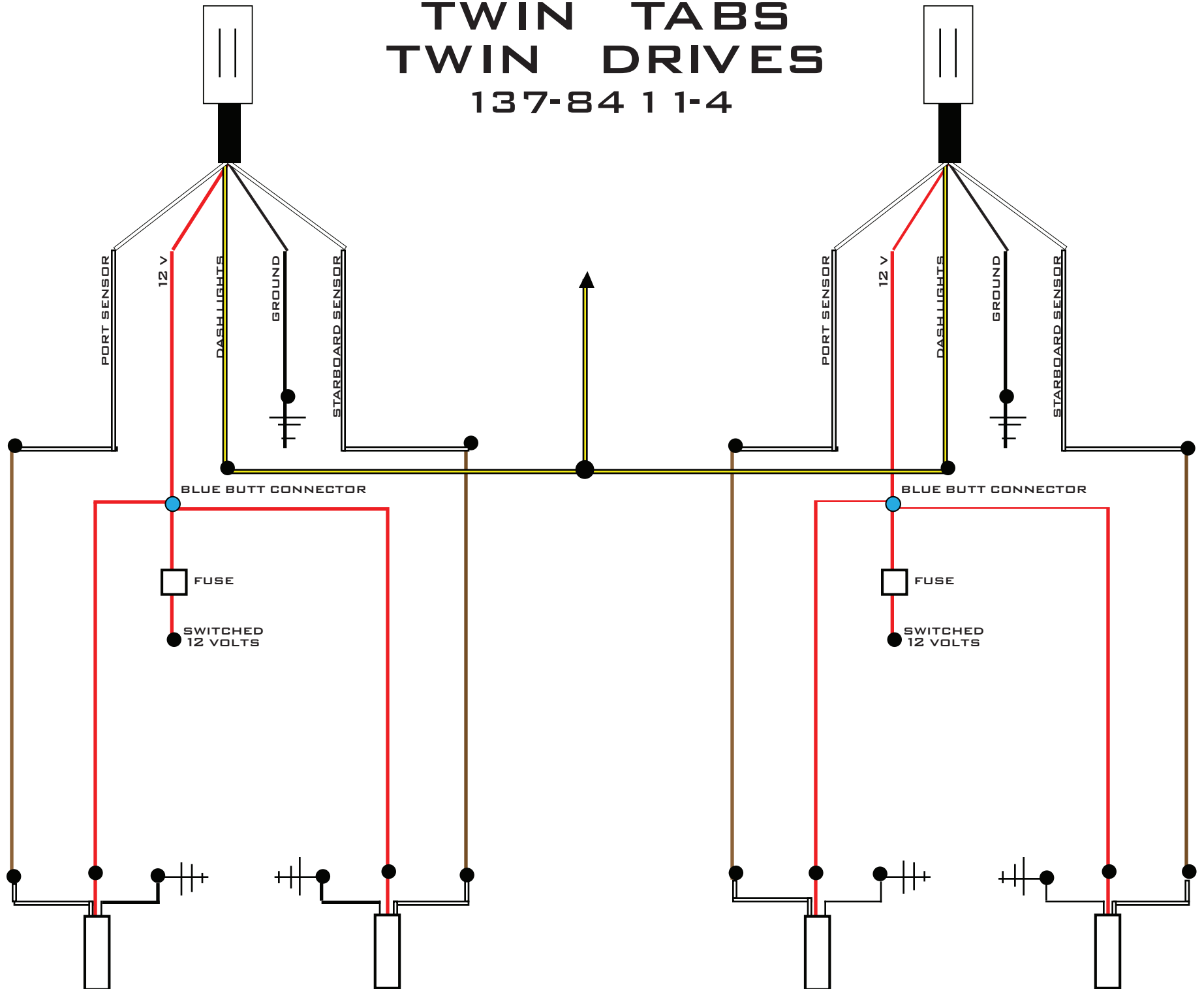# BRAVO SMARTCRAFT SENSORS

TRIM PANEL

RED

YELLOW

BLACK

WHITE

WHITE

SWITCHED
12V

TO DASH
LIGHT SWITCH

WHITE

WHITE

MERC
TRIM
SENDER

RED

WHITE

WHITE

RED

MERC
TRIM
SENDER

BLUE

BLACK

BLACK

BLUE

VOLTAGE REGULATOR

BLACK

SWITCHED 12V

K-PLANE TRIM TABS SMARTCRAFT

TRIM PANEL

RED

YELLOW

BLACK

SWITCHED
12V

TO DASH
LIGHT SWITCH

WHITE

WHITE

GREEN

GREEN

MERC
TRIM
SENDER

PURPLE

WHITE

WHITE

PURPLE

MERC
TRIM
SENDER

BLACK

BLACK

BLACK

BLACK

VOLTAGE REGULATOR

BLACK

SWITCHED 12V

Trim tabs or
Twin Bravos
137-8411-2

PORT SENSOR

12 V

DASH LIGHTS

GROUND

STARBOARD SENSOR

BLUE BUTT CONNECTOR

FUSE

SWITCHED
12 VOLTS

TWIN TABS
TWIN DRIVES
137-84 1 1-4

PORT SENSOR

12 v

DASH LIGHTS

GROUND

STARBOARD SENSOR

PORT SENSOR

12 v

DASH LIGHTS

GROUND

STARBOARD SENSOR

BLUE BUTT CONNECTOR

BLUE BUTT CONNECTOR

FUSE

FUSE

SWITCHED
12 VOLTS

SWITCHED
12 VOLTS

SINGLE BRAVO
AND TRIM TABS
137-84 1 1-3

PORT

12V

DASH LIGHTS

GROUND

STARBOARD

FUSE

SWITCHED
12 VOLTS

BLUE BUTT CONNECTOR

PORT SENSOR

12 V

DASH LIGHTS

GROUND

STARBOARD SENSOR

BLUE BUTT CONNECTOR

FUSE

SWITCHED
12 VOLTS

SINGLE BRAVE SMARTCRAFT
137-8411-5

PORT

12v

DASH LIGHTS

GROUND

STARBOARD

FUSE

SWITCHED
12 VOLTS

not in use
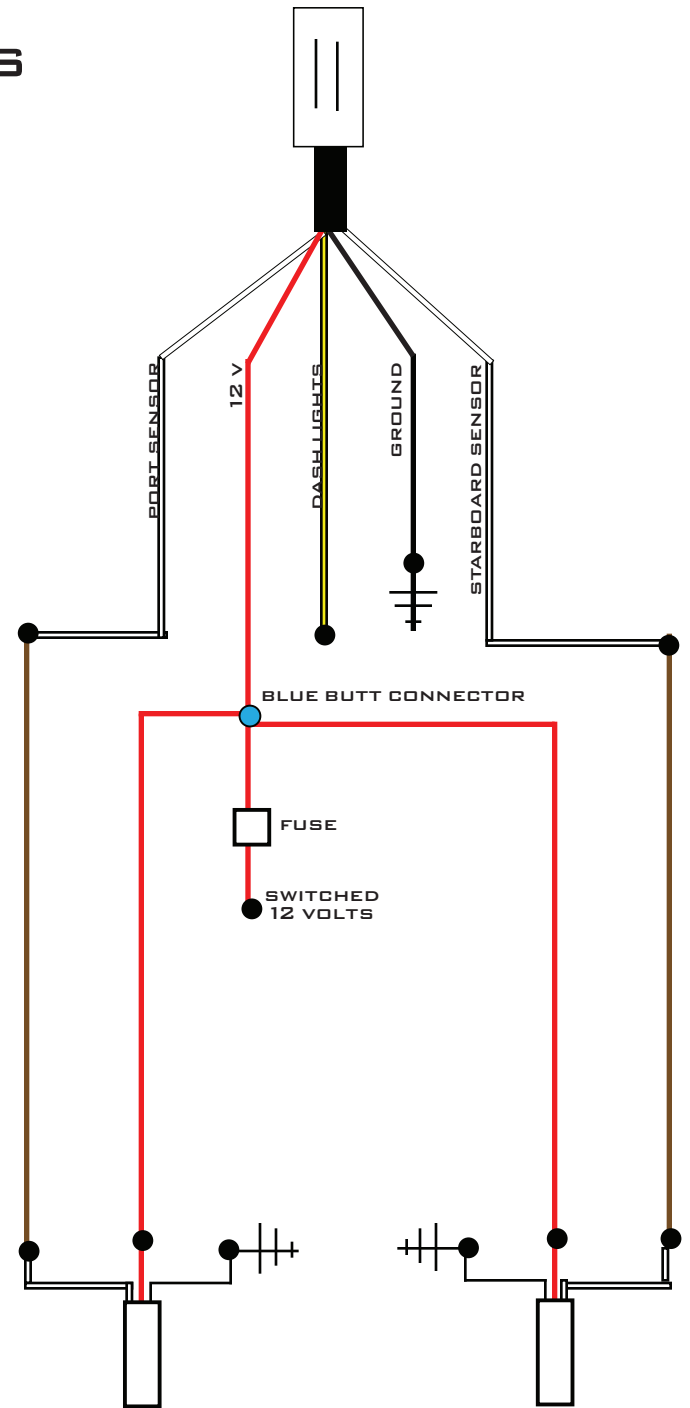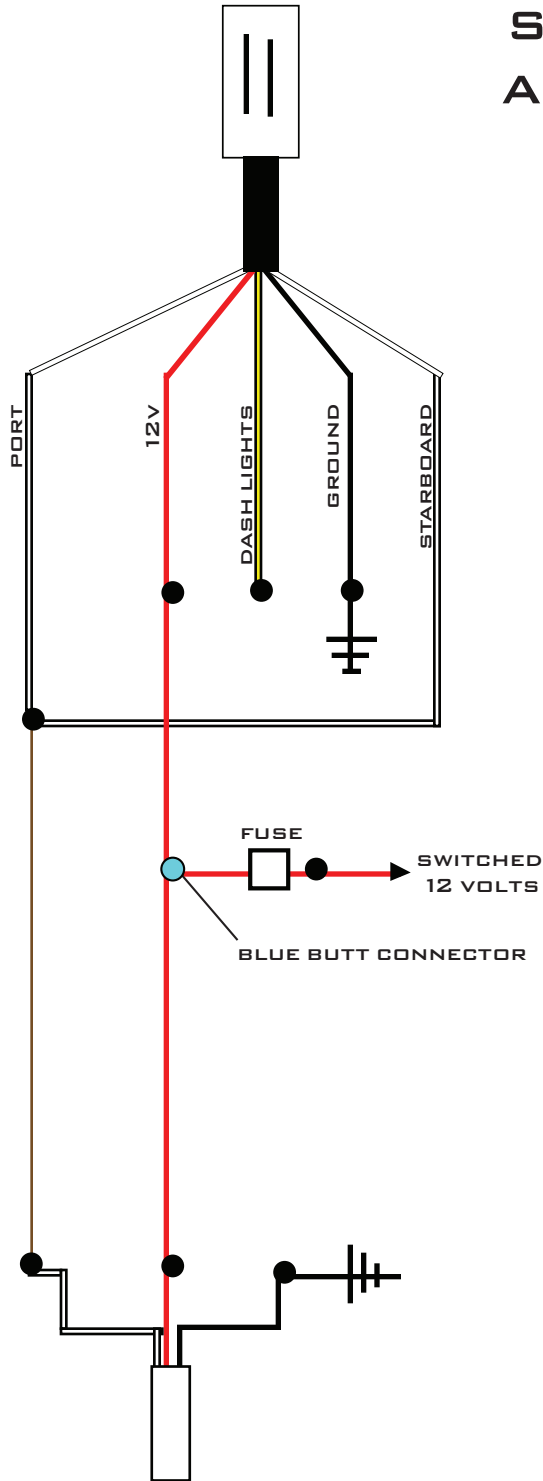
SINGLE BRAVO TRIM TAB
SMARTCRAFT
137-84 1 1-7

TABS

DRIVES

PORT

12V

DASH LIGHTS

GROUND

STARBOARD

PORT

12V

DASH LIGHTS

GROUND

STARBOARD
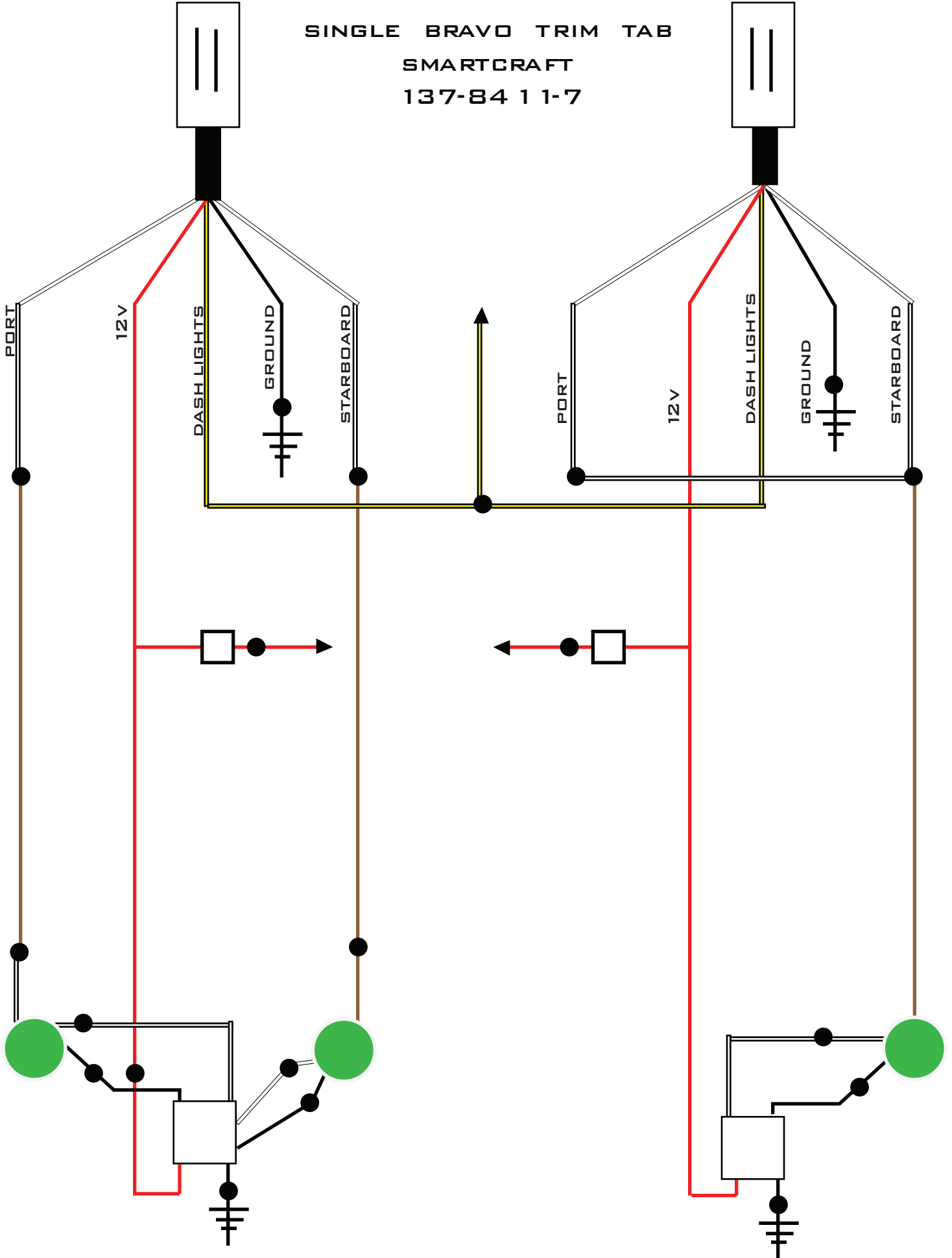
TWIN BRAVOS
OR
K-PLANES
SMART CART
ONLY

PORT

12V

DASH LIGHTS

GROUND

STARBOARD

FUSE

SWITCHED
12 VOLTS
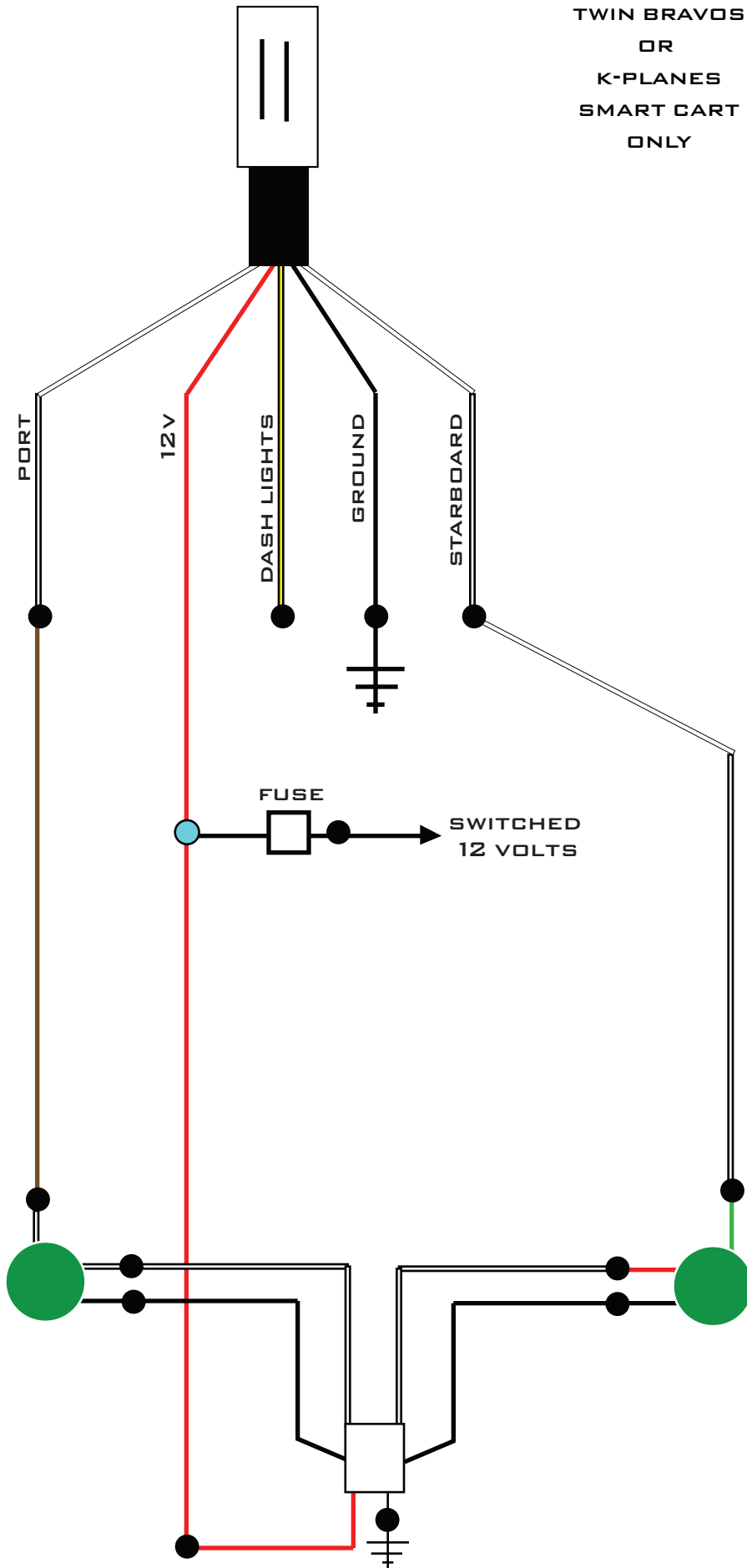
137-8411-6

Single Bravo
137-8411-1

PORT

12V

DASH LIGHTS

GROUND

STARBOARD

FUSE

SWITCHED
12 VOLTS

BLUE BUTT CONNECTOR

TWIN TABS
TWIN DRIVES
137-84 1 1-8

PORT SENSOR
12 V
DASH LIGHTS
GROUND
STARBOARD SENSOR

PORT SENSOR
12 V
DASH LIGHTS
GROUND
STARBOARD SENSOR

BLUE BUTT CONNECTOR

BLUE BUTT CONNECTOR

FUSE

SWITCHED
12 VOLTS

FUSE

SWITCHED
12 VOLTS

SWITCHED
12 VOLTS

FUSE

SWITCHED
12 VOLTS

FUSE

BLUE BUTT CONNECTOR

BLUE BUTT CONNECTOR

STARBOARD SENSOR
GROUND
DASH LIGHTS
12 V
PORT SENSOR

STARBOARD SENSOR
GROUND
DASH LIGHTS
12 V
PORT SENSOR

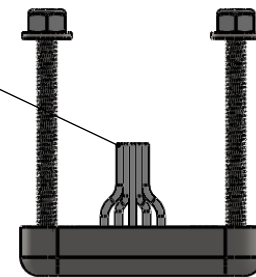# MAYFAIR HYDRAULICS

PART NO.
137-8402

TITLE:

2 LED TRIM/DRIVE PANEL

www.mayfairhydraulics.com

4x10-24 MOUNTING STUDS

2.50

.50

1.96

5.00

TABS UP
3
2
1
MAYFAIR HYDRAULICS
1
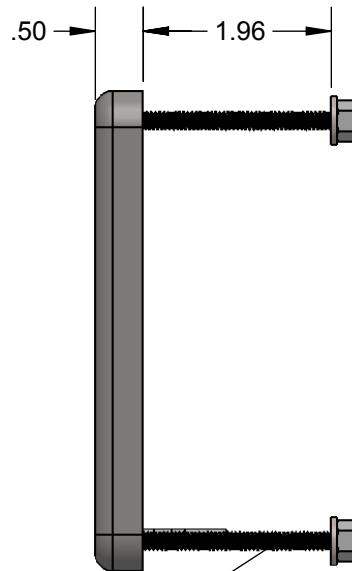2
3
TABS DOWN

4.460

1.960
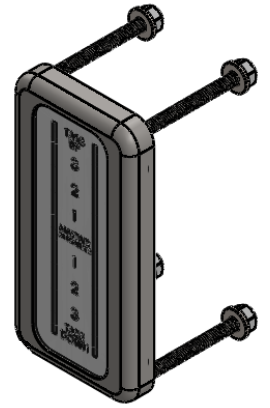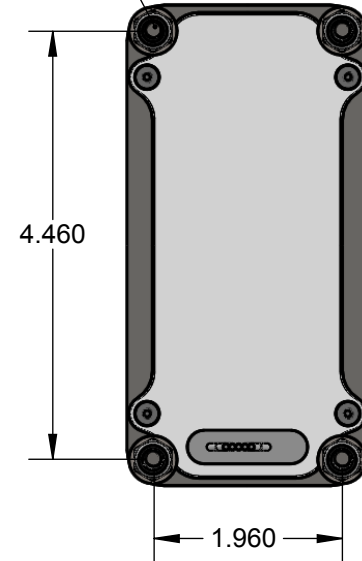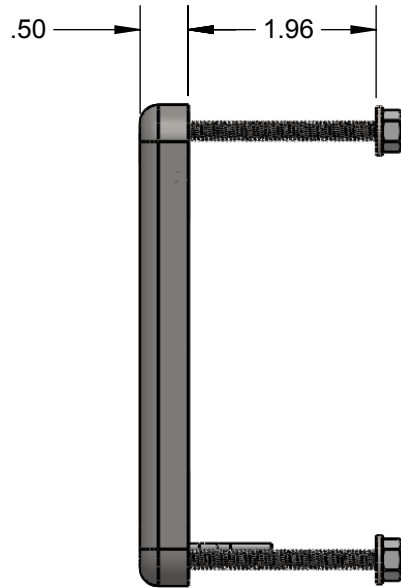
WIRES THAT CONNECT TO EACH TRIM/DRIVE SENSOR.

MAYFAIR HYDRAULICS

PART NO.
137-8404

TITLE:

4 LED TRIM/DRIVE PANEL

www.mayfairhydraulics.com

5.00

5.00

.50

1.96

TABS
UP
3
2
1
MAYFAIR
HYDRAULICS
1
2
3
TABS
DOWN

DRIVES
UP
3
2
1
MAYFAIR
HYDRAULICS
1
2
3
DRIVES
DOWN

4.375

4.375
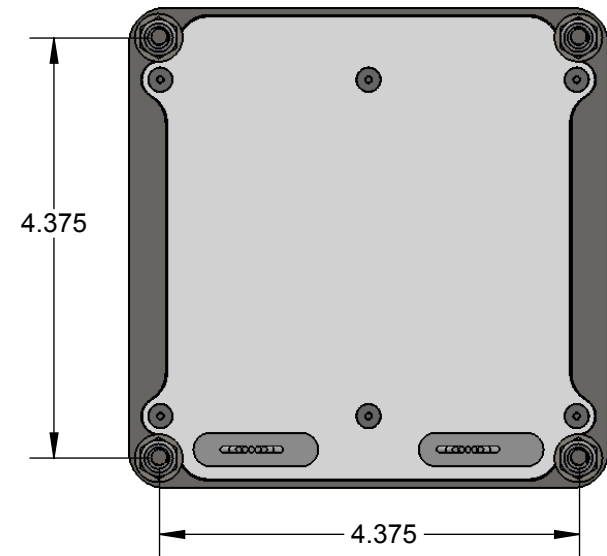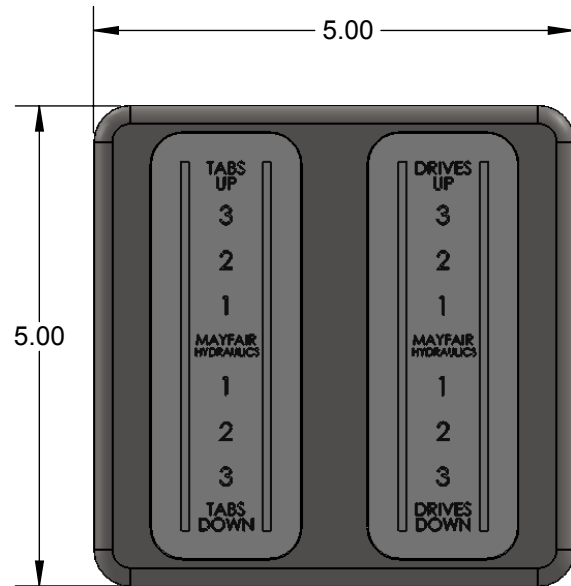
4x10-24 MOUNTING STUDS
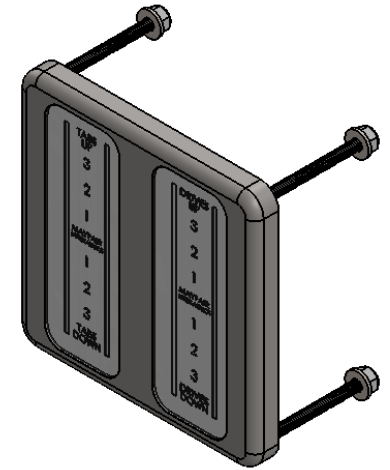
WIRES THAT CONNECT TO EACH TRIM/DRIVE SENSOR.
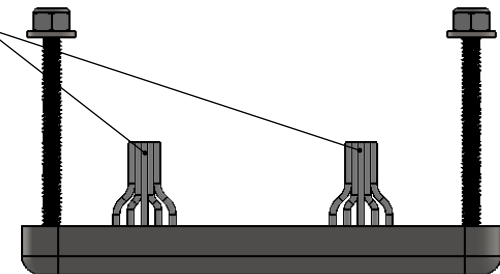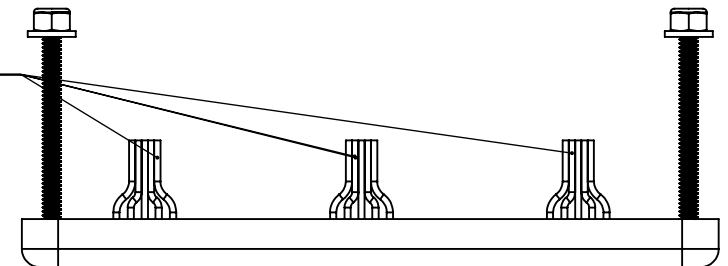
MAYFAIR HYDRAULICS

PART NO.
137-8404

TITLE:

6 LED TRIM/DRIVE PANEL

www.mayfairhydraulics.com

7.26

.50

1.96

5.00

4.375

DRIVES UP	DRIVES UP	TABS UP
3	3	3
2	2	2
1	1	1
MAYFAIR HYDRAULICS	MAYFAIR HYDRAULICS	MAYFAIR HYDRAULICS
1	1	1
2	2	2
3	3	3
DRIVES DOWN	DRIVES DOWN	TABS DOWN

410-24 MOUNTING STUDS

6.634

WIRES THAT CONNECT TO EACH TRIM/DRIVE SENSOR

MAYFAIR HYDRAULICS

PART NO.
137-8402DT

TITLE:
2 SLOT LED TRIM/DRIVE PANEL TEMPLATE

www.mayfairhydraulics.com

C

C

B

B

A

MERCURY SMARTCRAFT
USES THE TOP SIDE SLOT.

B

B

C

C

INSTALLATION INSTRUCTIONS:
1) FIG. A IS THE OUTSIDE SIZE
OF THE LED DASH PANEL.

2) CUT PANEL TEMPLATE OUT
AND TAPE TO THE DASH.

3) USING THE 4 CENTER
MARKS FOR FIG. B. DRILL
4x $\emptyset$ 13/64 HOLES.

4) DETERMINE WHICH SIDE
SLOT DO YOU NEED TO USE.
USING THE 2 CENTER MARKS
FOR FIG. C. DRILL 2x $\emptyset$ 3/8
HOLES.

5) USE THE JIGSAW TO CUT
OUT THE DASH IN BETWEEN
THE $\emptyset$ 3/8 HOLES. THESE SLOTS
WILL ALLOW THE LED PANEL
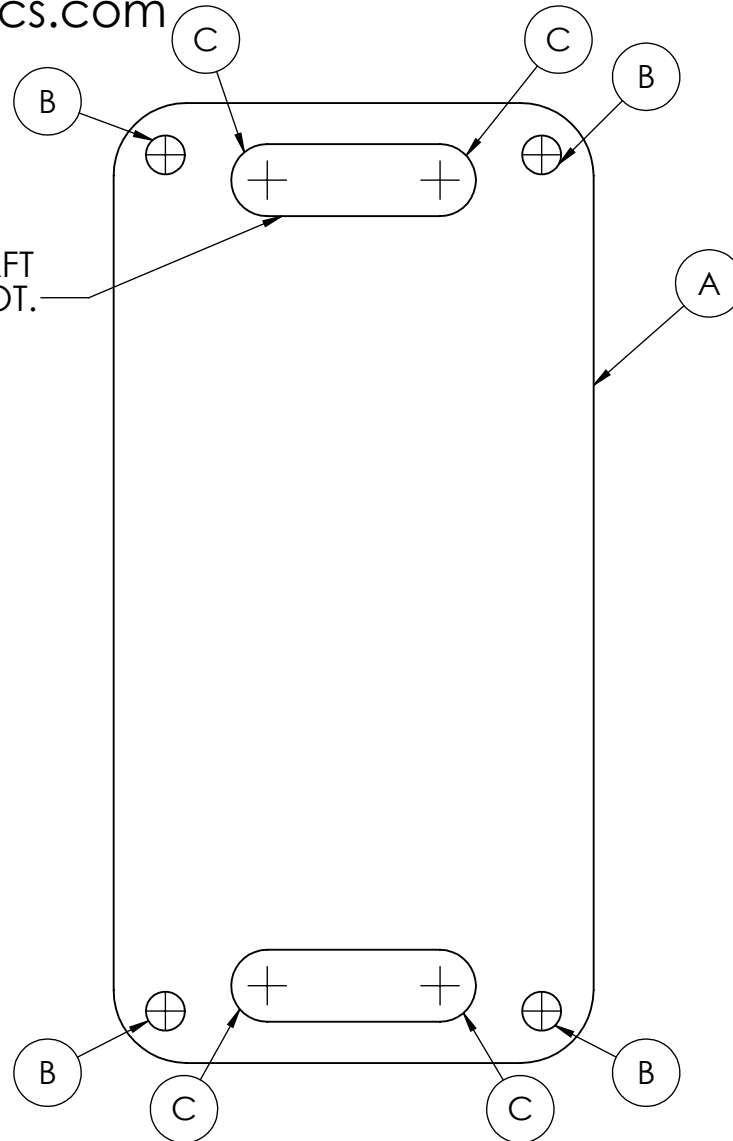WIRES TO STICK THRU THE
DASH.

MAYFAIR HYDRAULICS

PART NO. 137-8403DT

TITLE:
6 SLOT LED TRIM/DRIVE PANEL TEMPLATE

www.mayfairhydraulics.com

MERCURY SMARTCRAFT USES THE TOP SIDE SLOT.

A

B C C C C C C B

B C C C C C C B

INSTALLATION INSTRUCTIONS:

1) FIG. A IS THE OUTSIDE SIZE OF THE LED DASH PANEL.

2) CUT PANEL TEMPLATE OUT AND TAPE TO THE DASH.

3) USING THE 4 CENTER MARKS FOR FIG. B. DRILL 4x $\varnothing$ 13/64 HOLES.

4) DETERMINE WHICH SIDE SLOT DO YOU NEED TO USE. USING THE 2 CENTER MARKS FOR FIG. C. DRILL 2x $\varnothing$ 3/8 HOLES.
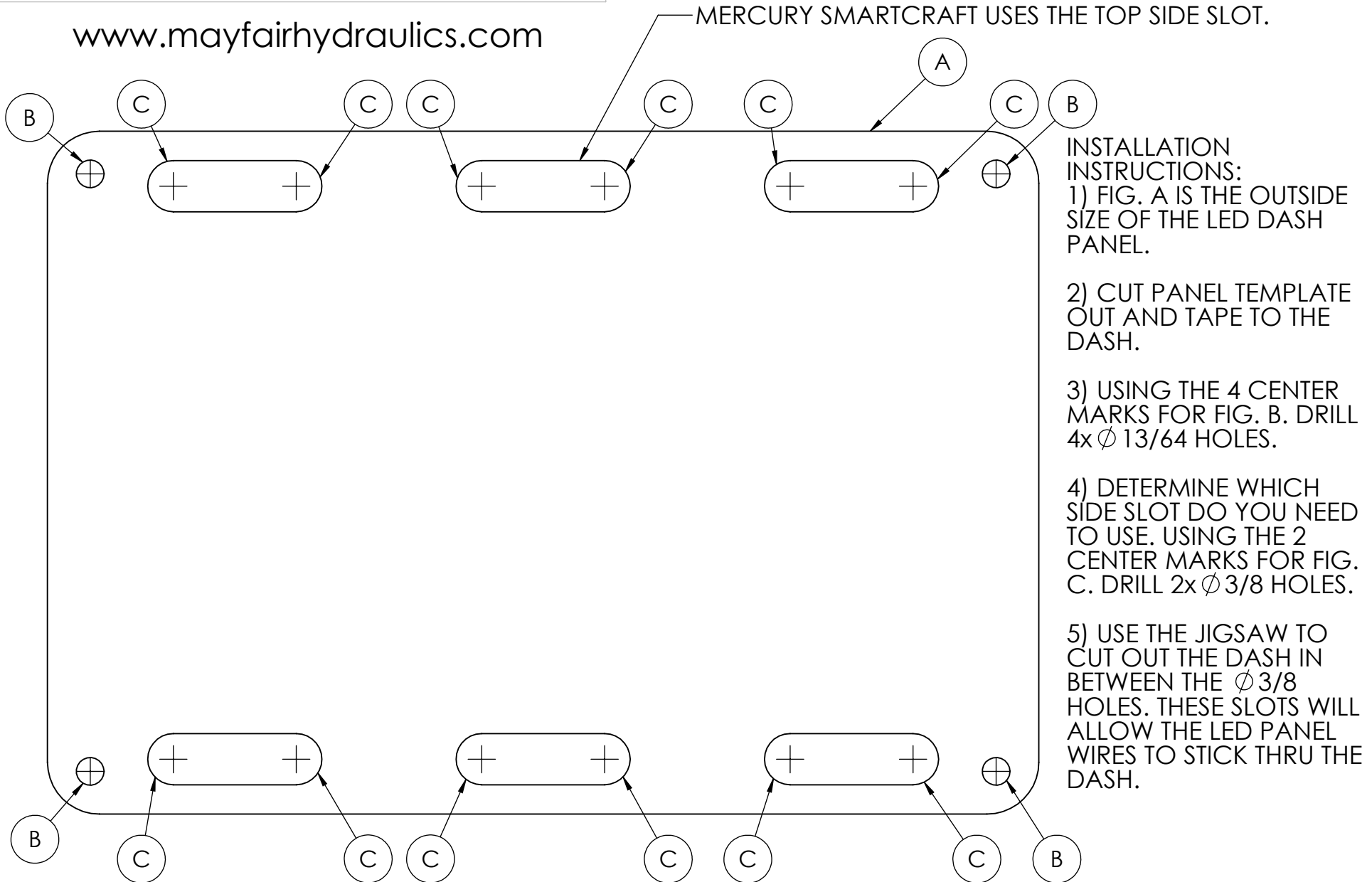
5) USE THE JIGSAW TO CUT OUT THE DASH IN BETWEEN THE $\varnothing$ 3/8 HOLES. THESE SLOTS WILL ALLOW THE LED PANEL WIRES TO STICK THRU THE DASH.

MAYFAIR HYDRAULICS

PART NO.
137-8404DT

TITLE:
4 SLOT LED TRIM/DRIVE PANEL TEMPLATE
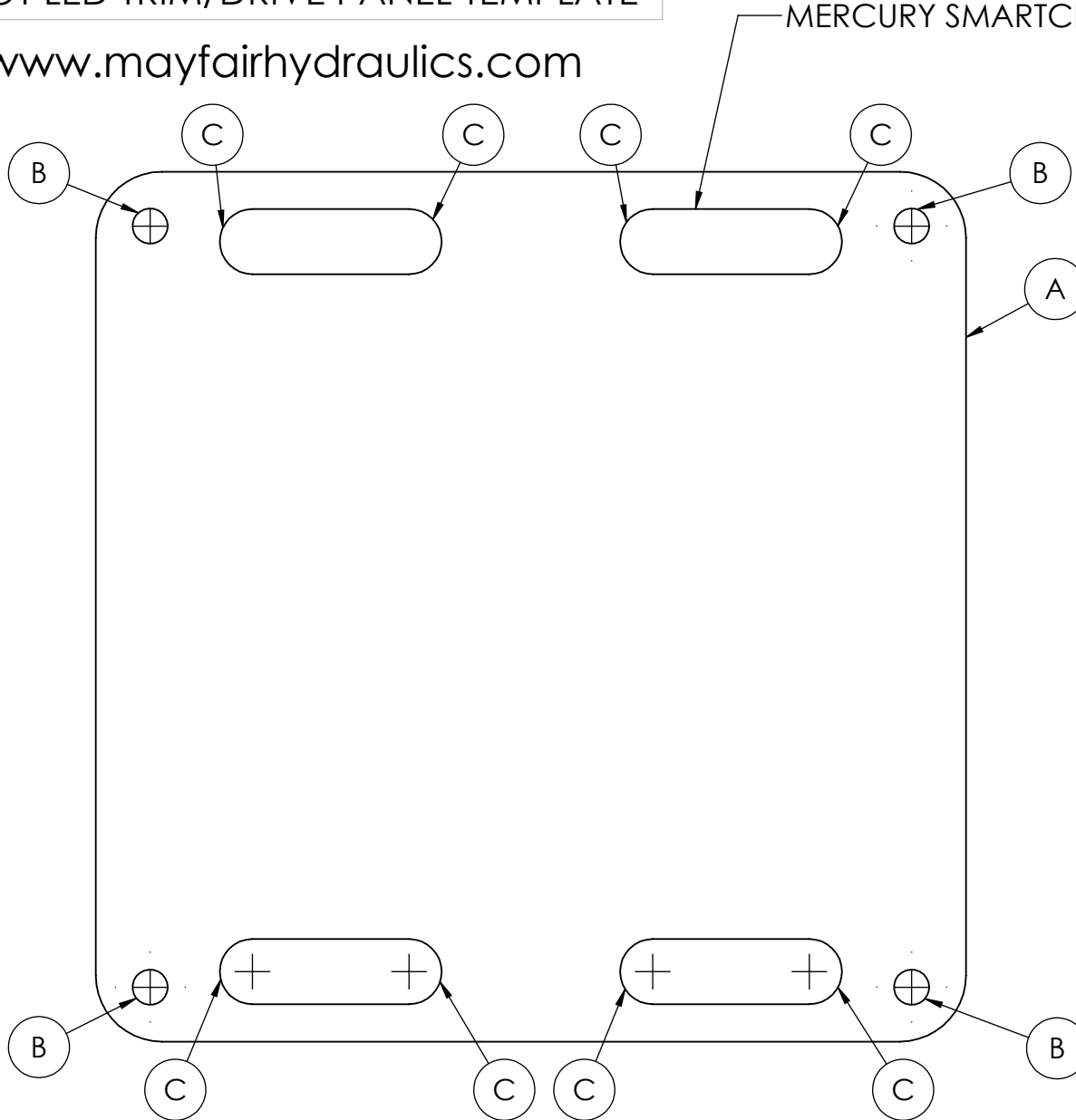
www.mayfairhydraulics.com

MERCURY SMARTCRAFT USES THE TOP SIDE SLOT.

INSTALLATION INSTRUCTIONS:
1) FIG. A IS THE OUTSIDE SIZE OF THE LED DASH PANEL.

2) CUT PANEL TEMPLATE OUT AND TAPE TO THE DASH.

3) USING THE 4 CENTER MARKS FOR FIG. B. DRILL 4x $\emptyset$ 13/64 HOLES.

4) DETERMINE WHICH SIDE SLOT DO YOU NEED TO USE. USING THE 2 CENTER MARKS FOR FIG. C. DRILL 2x $\emptyset$ 3/8 HOLES.

5) USE THE JIGSAW TO CUT OUT THE DASH IN BETWEEN THE $\emptyset$ 3/8 HOLES. THESE SLOTS WILL ALLOW THE LED PANEL WIRES TO STICK THRU THE DASH.