

MORE INFORMATION ABOUT THIS PROJECT CAN BE FOUND AT WOODWORKINGNUT.COM

# Shopping List Page 1 of 2 (Excluding Go Kart Parts)

#### Lumber

5- 2x4's at 8' Long 1- 4'x8' Sheet of 3/4" Plywood

#### Metal

1" Wide Steel Flat Bar (1/8" Thick)

1- 4" Long

## 1 1/2" Wide Steel Flat Bar (1/4" Thick)

2-5" Long

1- 19 1/4" Long

2-331/2" Long

## 3"x2" Steel Angle Iron (1/4" Thick)

2- 8" Long

## Miscellaneous:

1-1/8" Stainless Cotter Pin (11/2" Long)

2-2"x2" Stainless Steel Brackets

1- Box of 2" Exterior Screws (You only need 2 screws)

1- Box of 3" Exterior Screws

1- Box of 3/8" Wood Plugs

1- Bottle of Wood Glue (Titebond II)

1- Can of Black Enamel Spray Paint

1- Can of Wipe-On Polyurethane

1- Large Zip Tie

Note: I bought the metal from metalsdepot.com and had all the metal precut to size.

# Shopping List Page 2 of 2 (Excluding Go Kart Parts)

#### 1/4" Hardware:

2-1" Bolts

2-1 3/4" Round Head Bolts

4-31/2" Bolts

7-41/2" Bolts

4- SAE Washers

26- USS Washers

2- Nuts

11- Lock Nuts

## 5/16" Hardware:

6-11/2" Bolts

2-2" Bolts

4-21/2" Bolts

3-31/2" Bolts (Fully Threaded)

4-4" Bolts (Fully Threaded)

2-41/2" Bolts (Fully Threaded)

13- SAE Washers

32- USS Washers

1- Nuts

24- Lock Nuts

2-1" Spacers

2-5/16" ID to 3/8" OD Bushings

(1/2" Long)\*

## 3/8" Hardware

2-11/4" Bolts

4-3" Bolts

1- 2" Universal Clevis Pin

10-SAE Washers

5- USS Washers

6- Lock Nuts

2-1/4" Spacers

## 1/2" Hardware:

4-2" Bolts

6-3" Bolts

5-5" Bolts

32- SAE Washers

18- USS Washers

15- Lock Nuts

## 5/8" Hardware:

2- Lock Nuts\*

2-11/2" Spacers

## 1" Hardware:

2- Lock Nuts

## 12mm Hardware:

4-70mm Bolts

8- Washers

4-Lock Nuts

Note 1: (\*) Annotates there is a link for the item on woodworkingnut.com.

Note 2: I bought a majority of the hardware from boltdepot.com and got the rest from my local hardware store.

## Lumber and Metal Cut List

#### Lumber Cut List:

#### 2x4's:

- 1-711/16" (Front Steering Support One End Cut to 65 Degrees)
- 1-15 3/8" (Aft Steering Support One End Cut to 65 Degrees)
- 1-169/16" (Lower Steering Column Both Ends Cut to 65 Degrees)
- 1-18" (Upper Steering Column)
- 6-21" (Back Frame, Seat/Steering Supports)
- 2-24" (Engine Supports)
- 1-28" (Front Frame)
- 2-80" (Side Frame)

## 3/4" Plywood:

1- 21"x49 1/2"

#### Metal Cut List:

## 1" Wide Steel Flat Bar (1/8" Thick)

1- 4" Long (Brake Caliper Extension Arm)

## 11/2" Wide Steel Flat Bar (1/4" Thick)

- 2-5" Long (Pedal Guides)
- 1- 19 1/4" Long (Brake Mounting Bar)
- 2-33 1/2" Long (Metal Rails for Spindle Brackets)

## 3"x2" Steel Angle Iron (1/4" Thick)

2- 8" Long (Live Axle Brackets)

**Note 1:** Refer to the 3D SketchUp Model for drilling the holes in the wood and metal. The pedal guides and brake caliper extension arm templates can be found on page 6 and 9 of the assembly guide.

Note 2: If you buy the metal from metalsdepot.com, you can do a custom order and have the metal cut for you.

## Hardware Location Guide Page 1 of 2

Note: The total quantity of bolts are listed first and then the stack up for each bolt is in parenthesis.

## 1/4" Hardware:

- 2-1" Bolts (Brake Caliper Extension Arm 1 SAE Washer on Both Sides and 1 Lock Nut)
- 2-13/4" Round Head Bolts (Pedal to Clevis 4 USS Washers, 1 Nut and 1 Lock Nut)
- 4-31/2" Bolts (Seat to Frame -1 USS Washer on the Bottom of Each)
- 6- 41/2" Bolts (Metal Rails for Spindle Brackets to the Front of the Frame 1 USS Washer on Both Sides and 1 Lock Nut)
- 1-41/2" Bolt (Brake Mounting Bar to Back Frame 1 USS Washer on Both Sides and 1 Lock Nut)

## 5/16" Hardware:

- 2-11/2" Bolts (Brake Mounting Bar to Disc Brake Bracket 1 USS Washer on Both Sides and 1 Lock Nut)
- 4-11/2"" Bolts (Engine to Riser Plate 1 USS Washer on Both Sides and 1 Lock Nut)
- 2-2" Bolts (Engine Support to Metal Brake Bar 1 USS Washer on Both Sides and 1 Lock Nut)
- 4-21/2" Bolts (Riser Plate to Engine Supports 1 USS Washer on Both Sides and 1 Lock Nut)
- 1-31/2" Bolt (Steering Shaft to Tie Rods 1 SAE Washer, 1 Nut, 2 Lock Nuts and 2 Bushings (5/16" ID to 3/8" OD at a 1/2" Long))
- 2-31/2" Bolts (Throttle/Brake Cable Support 2 USS Washers and 1 Lock Nut)
- 2-4" Bolts (Full Travel Pedal Stop/Spring Hold 2 USS Washers and 1 Lock Nut)
- 2-4" Bolts (Forward Pedal Stop 2 SAE Washers and 1 Lock Nut)
- 2- 41/2" Bolts (Pedal Pivot Bolt 4 SAE Washers, 1 Spacer that is 1" Long and 2 Lock Nuts)

## 3/8" Hardware:

- 2-11/4" Bolts (Spindle to Tie Rods 1 Spacer that is a 1/4" Long, 1 SAE Washer and 1 Lock Nut on the Bottom)
- 1- 2" Universal Clevis Pin (Brake Caliper Extension Arm to Cable 2 USS Washers on Head Side and 3 USS Washers and a 1/8" Stainless Cotter Pin (1 1/2" Long) on the Other Side)
- 4-3" Bolts (Plywood to Seat Supports 1 SAE Washer on Both Sides and 1 Lock Nut)

## Hardware Location Guide Page 2 of 2

## 1/2" Hardware:

- 4-2" Bolts (Live Axle Brackets to Pillow Blocks 1 SAE Washer on Both Sides and 1 Lock Nut)
- 6-3" Bolts (Live Axle Brackets to Frame 1 USS Washer on Both Sides and 1 Lock Nut )
- 3-5" Bolts (Steering Column to Frame 1 USS Washer on Both Sides and 1 Lock Nut )
- 2-5" Bolts (Spindle Brackets to Spindle 1 SAE Washer on Both Sides, 8 SAE Washers on the Top of the Spindle, 1 SAE Washer on the Bottom of the Spindle and 1 Lock Nut)

#### 5/8" Hardware:

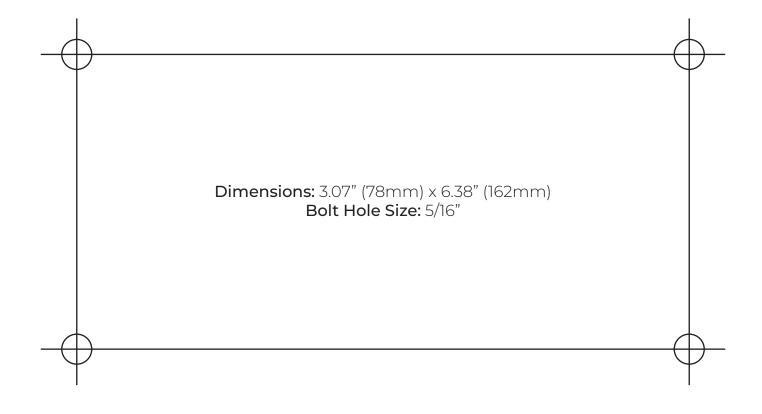
- 2-11/2" Spacers (Front Spindles 1 on Each Spindle)
- 2- Lock Nuts (Front Spindles 1 on Each Spindle)

## 1" Hardware:

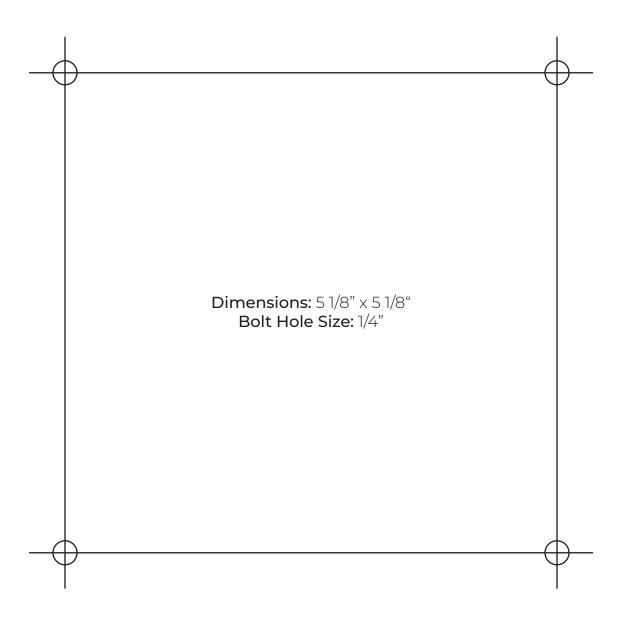
2- Lock Nuts (Live Axle - 1 on Each End)

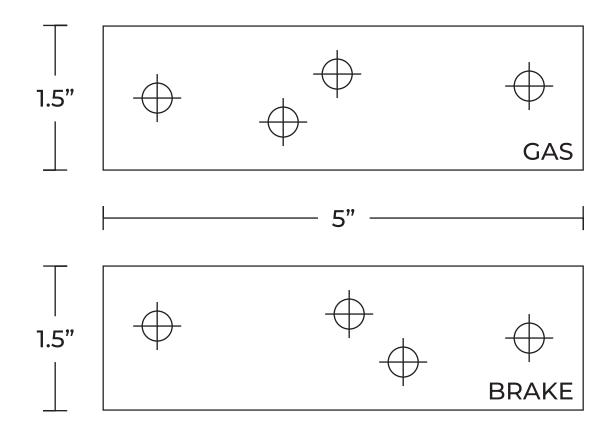
## 12mm Hardware:

4-70mm Bolts (Pillow Blocks to Steering Column - 1 Washer on Both Sides and 1 Lock Nut)



# Fishing Boat Seat Bolt Mounting Pattern

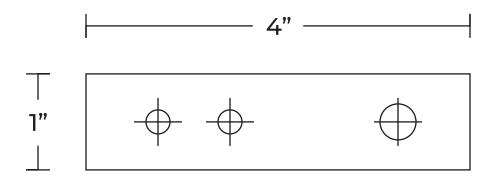




Dimensions: 1.5" X 5" (1/4" Thick Metal)

Bolt Hole Size: 5/16"

# Brake Caliper Extension Arm Template



Dimensions: 1" x 4" (1/8" Thick Metal) Bolt Hole Size: 1/4" and 3/8"