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MATERIAL LIST FOR MINI-BIKE

1. Steel

(a) 20' of 7/8" OD x .085 wall welded 1025 grade tubing for frame and fork.

(b) 7' of 5/8" ID approx. .085 wall seamless 1025 tubing for axle and fork support.

(c) 2 pieces of 1/8" plate 3" x 7-1/4" for front fork support plates.

(d) 2 pieces of 3/16" plate 2-1/2" x 3-1/4" for rear axle support brackets.

(e) 1 piece of 1/8" plate 5-1/2" x 5-1/2" for seat plate.

(f) 1 piece of 1/8" plate 8-1/8" x 6-1/2" for motor mount.

(g) 2 pieces of 5/8" steel shaft 7-1/2" long for front and rear axles.

2. Engine

Should be of 4 cycle design with approximately 4 to 6 horsepower and a 3/4" shaft.

3. Wheels

You should have a 4.10 x 3.50 - 4 wheel assembly for the front and a 4.10 x 3.50 - 5 for the rear with demountable hub design. Hub should be 1-1/2" in diameter with 5/8" ball bearings.

4. Brake

An internal expansion brake or brake drum and brake band should be used.

5. **Clutch**

An automatic clutch with a 12 tooth sprocket for #35 chain is needed. The 12 tooth sprocket and the 60 tooth rear sprocket give you an ideal gear ratio of 5:1. Be sure you order the correct bore for your engine shaft.

6. **Chain**

Any good #35 roller chain will work. You will need approximately 4 feet.

7. **Throttle Control**

A twist grip throttle control with a 7/8" inside diameter for the front handle bar is needed. You will need about a 34" cable to your engine.

8. **Brake Lever**

A brake lever for 7/8" tube and 66" cable are needed for your brake control.

9. **Bolts and Nuts**

- (a) 1 only 5/8" x 5" bolt and self-locking nut to hold front fork to main frame.
- (b) 4 only 5/8" nuts (not self-locking) for rear axle.
- (c) 2 only 5/8" self-locking nuts for front axle.
- (d) 6 only 5/8" washers for front and rear axles.
- (e) 4 only 1/4" x 1" engine mounting bolts and self-locking nuts.
- (f) 2 only wood screws 1/2" roundhead to hold seat to seat plate.

10. **Seat**

The seat fabric should be of a waterproof type. You will need a piece of 3/8" plywood 7 1/2" wide by 12" long for the bottom board. You will also need a piece of 2 or 3" foam the same size.

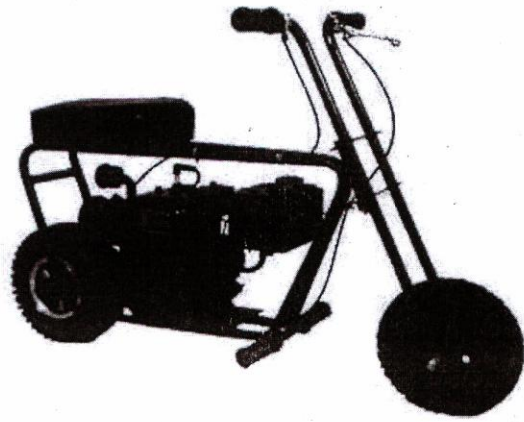
11. **Handle Grips**

You will need 3 only 7/8" handle grips for the handle bars and foot rest.

12. **Paint**

Paint should be a spray on type enamel, quick drying. One small can will do.

plans



Page1

MINI BIKE PLANS

INTRODUCTION

Before starting to build your Mini-Bike, be sure that you have all the parts shown on the material list. You will note that tubing has been used in the construction. The advantages of using tubing far out-weigh the additional time for building. You will need all the common household tools, plus a 2" radius conduit bender (available at almost any electrical shop) and a welder. You are now ready to start to build.

1. Lay out 2 pieces of 7/8" tubing and mark for bending as shown. Remember that the bend is in the shaded area as shown below in Figure 1.

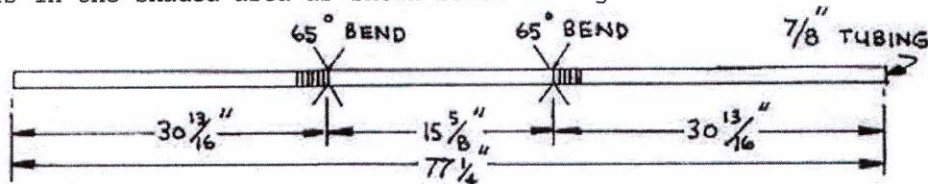


FIGURE 1

2. After you have your first 2 bends, mark for the next 2 bends as shown. Be sure that you bend in the shaded area only. See Figure 2 below.

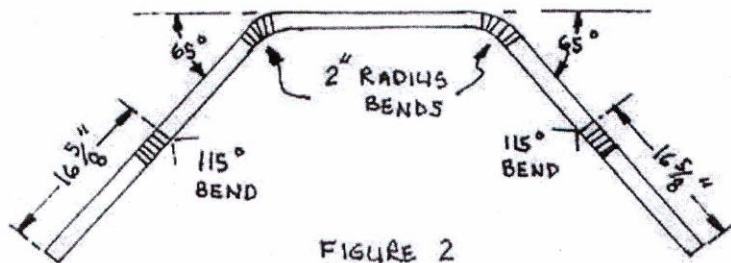


FIGURE 2

3. Now you have all four bends completed, weld each side member together as shown. Your main side members are now complete. (Figure 3 below)

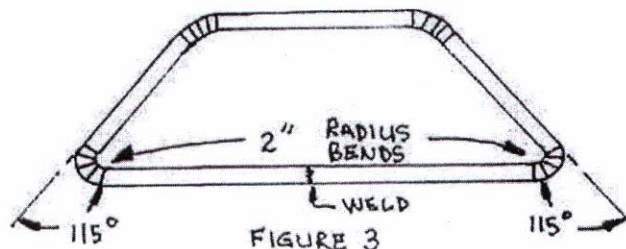


FIGURE 3

plans



MINI BIKE PLANS

Page 2

4. Lay out 2 pieces of $\frac{7}{8}$ " tubing each 31" long. Mark and bend in shaded area as shown below.

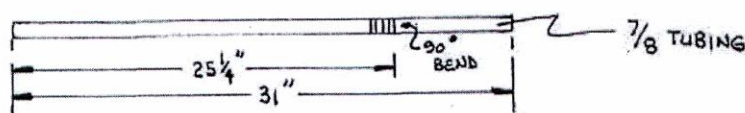
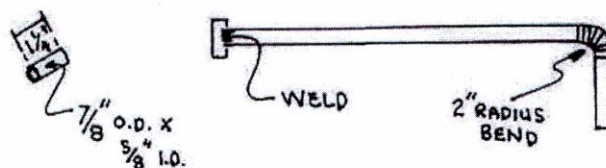


FIGURE 4

5. Cut 2 pieces of $\frac{7}{8}$ " tubing, with a $\frac{5}{8}$ " inside diameter, as shown in Figure 5. Weld to the 2 pieces of tubing you have just bent as shown in Figure 6.



6. Make 2 pieces as shown in Figure 7 out of $\frac{1}{8}$ " plate steel. There is a full size pattern on the back of this sheet. Using $\frac{5}{8}$ " bolts to line up the plates and the axle, weld the front fork assembly as shown in Figure 8.

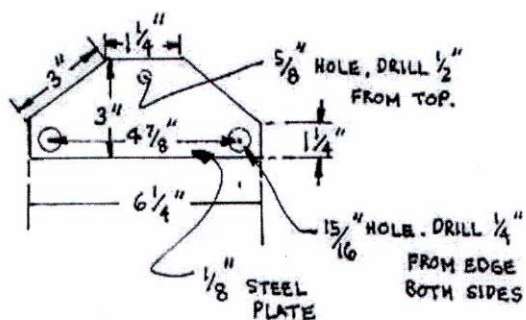
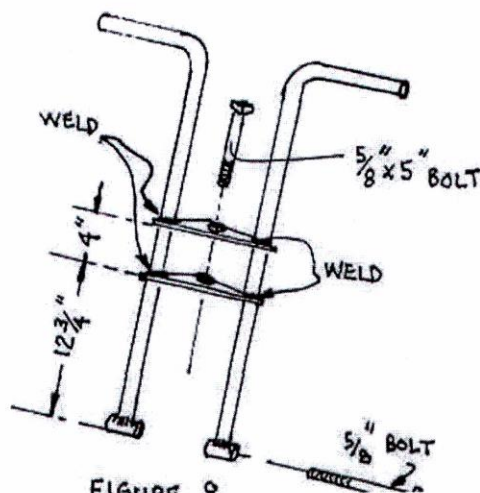
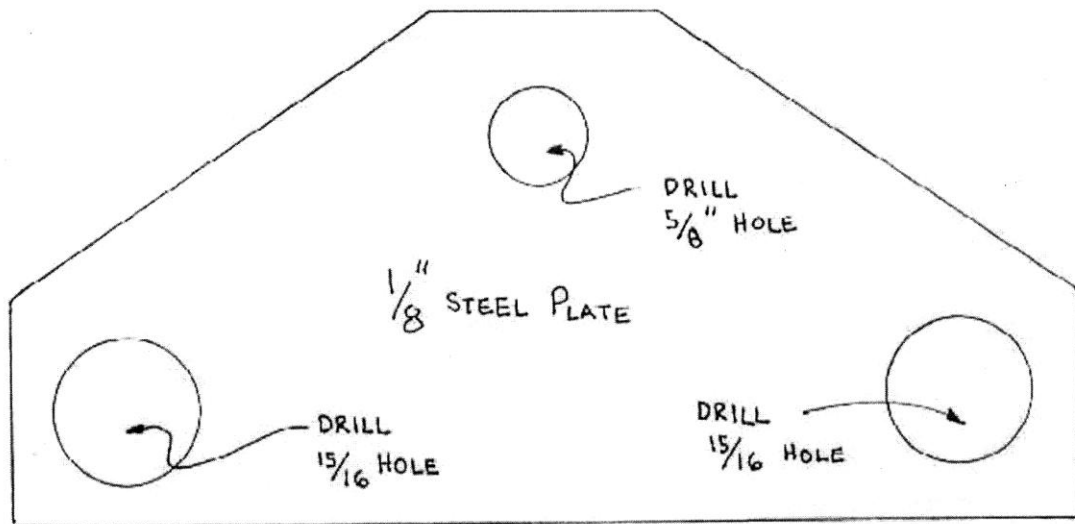


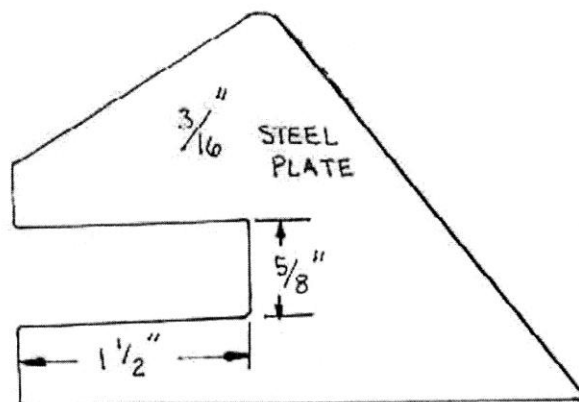
FIGURE 7

Note: Be sure that you insert the $\frac{5}{8}$ " guide bolts as shown in Figure 8. If you don't, the fork assembly will be out of line.





Full size front fork plate pattern to be made out of $\frac{1}{8}$ " steel plate. 2 required.



Full size rear axle support to be made out of $\frac{3}{16}$ " plate. 2 required.

7. Make 2 rear axle supports out of $\frac{3}{16}$ " plate as shown in Figure 9. See back of page 2 for full size pattern. Cut off a piece of $\frac{5}{8}$ " ID tubing for the front fork support as shown in Figure 10. Make the motor mount and seat plate out of $\frac{1}{8}$ " plate as shown in Figure 11 and 12. Do not drill holes for the engine yet.

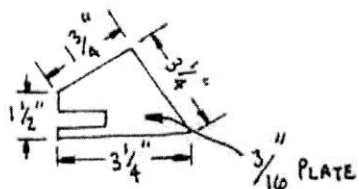


FIGURE 9



FIGURE 10

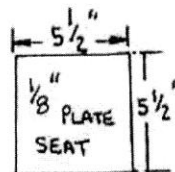


FIGURE 11

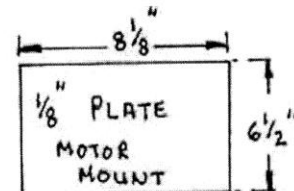


FIGURE 12

Weld the 2 main side members you have made as shown in Figure 13 below. To hold the proper distance between each side member, we would suggest that you make wood blocks the proper length to use as spacers between the side members and clamp together before welding. Weld the seat plate as indicated. Next weld the front foot rest as shown. Weld the front fork tube at the proper angle as indicated. Weld on the 2 rear axle supports so that the bottom of each support is flush with the top of the frame tube. Better use 5/8" axle bolt to make sure you have lined them up correctly. Be sure to weld to the inside of the frame as shown. Note that you are not to weld the engine mount on yet.

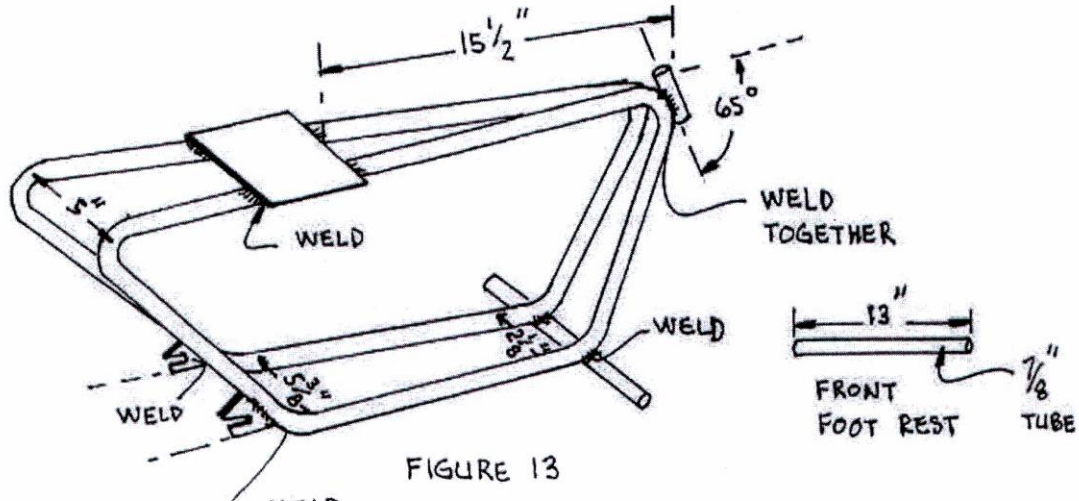


FIGURE 13

9. Bolt on the front fork assembly, using 5/8" x 5" bolt and self-locking nut. Spray paint the entire frame your favorite color.
10. Make 2 axles as shown in Figure 14 below using an SAE thread 1 1/2" each end.

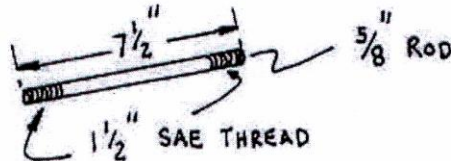


FIGURE 14

11. Install the front wheel assembly as shown in Figure 15, using a self-locking nut at each end of the axle.

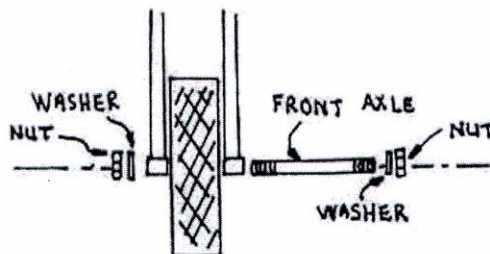


FIGURE 15

12. Weld the brake drum and sprocket assembly to the hub of the rear wheel as shown in Figure 16 below. Before welding check to make sure that you have $\frac{3}{8}$ " clearance between the sprocket and the tire. Bolt the hub to the rear wheel.

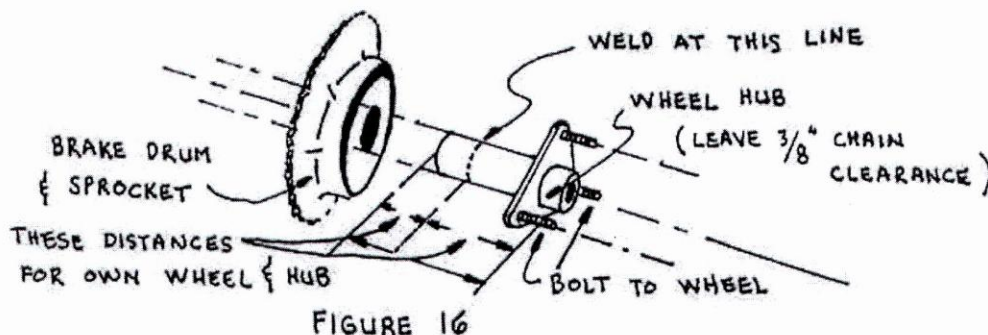


FIGURE 16

13. Install the rear wheel assembly to the frame as shown in Figure 17 below. (Insert the axle through the hub of the wheel, put on $\frac{5}{8}$ " jam nuts. Then put on a washer on each side and slide onto the frame. Install another washer and $\frac{5}{8}$ " nut and tighten.)

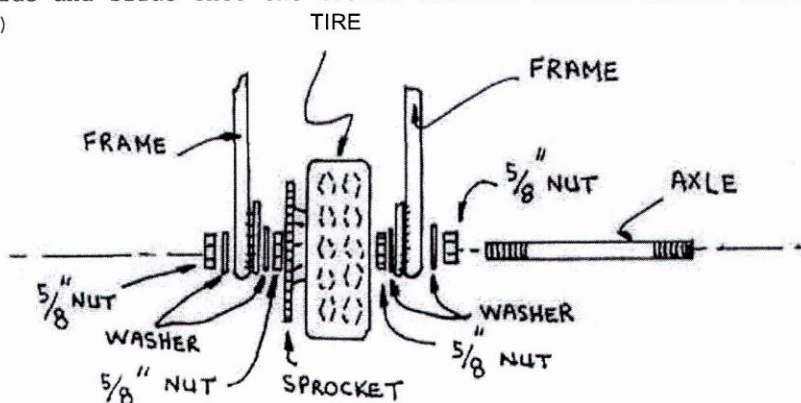


FIGURE 17

14. Install your clutch to the engine shaft, keeping the sprocket of the clutch as close to the engine as possible. Now, place the engine mount on the frame and weld in the proper position. Next, place your engine on the mount, using a chain to line the clutch and rear sprocket. Mark and drill holes and bolt your engine to the mount. Install chain. Connect the twist grip throttle control on the right handle bar to the engine, and brake handle on the left to the brake drum.

15. Cut a piece of $\frac{3}{8}$ " plywood as shown in Figure 18. Cut a piece of 2" or 3" foam the same size as the plywood. Cover with water resistant fabric, using tacks to fasten the fabric to the plywood. Drill two holes in the seat plate on the frame, and using wood screws, screw the seat to the frame. You are now ready to ride your Mini Bike. Drive carefully.

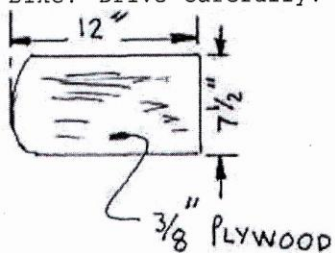


FIGURE 18

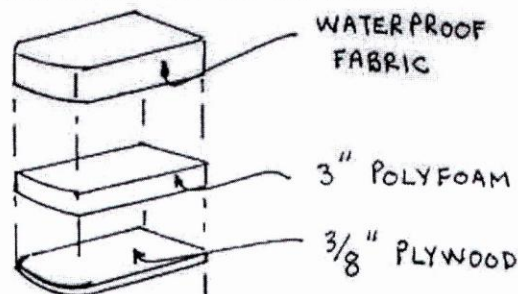


FIGURE 19



PRZYJOJSKI MOTORS offers three Mini-Bike kits, with or without frame and fork. The kits contain identical components throughout, except for wheels. The tire and inner tube sizes match the wheels selected. Each kit provides everything needed to assemble a complete Mini-Bike Including: Frame, Fork, Upholstered Seat, Wheels, Tires, Tubes, Controls, Grips, Foot Pegs, Axles, Sprockets, Brakes, Chain and all the necessary Hardware. All Kits are WITHOUT Engine and Clutch. Assembly Guidelines and complete parts list are included. This is a GREAT Father and Son or Mom, Dad and Kids project!

COMPLETE MINI-BIKE KITS	
Description	Part No.
Mini-Bike Kit with 5" Aluminum Wheels	3540 \$369.95 + Shipping
Mini-Bike Kit with 6" Aluminum Wheels	3541 \$389.95 + Shipping
Mini-Bike Kit with 8" Aluminum Wheels	3542 \$409.95 + Shipping



Shipping cost \$55.00 / 419-262-9473 Order Line

PRZYOJSKI MOTOR CO.

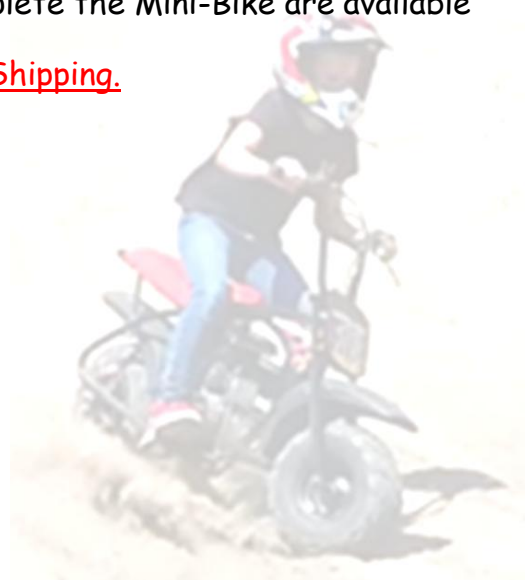
1223 Borg Ave. Temperance Mi 48182



Jig Welded from high quality 7/8" O.D. by .083 wall steel tubing, this Fork and Frame set is designed to accommodate up to and including 17.5" O.D. mounted tire and comes complete with engine mounting plate, front axle holes and rear axle mounting tabs. No additional welding is required (but may be elected if you choose to add accessories such as fenders or a kick-stand). Most components needed to complete the Mini-Bike are available from Przyojski Motor Co. [\\$140.00 Plus Shipping.](#)

[Www.AllAboutMiniBikes.Com](http://www.AllAboutMiniBikes.Com)

[419-262-9473](tel:419-262-9473)





Przyojski Motor Co. 1223 Borg Ave. Temperance, MI 48182
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MiniBike Frame

Minibike will look like this but without the seat, wheels, fenders, footpegs and kickstand. Also the fork is not painted, it is as in the picture of it below.



This Is What You Get



Complete Indian Minibike Frame, Handle Bars and Spring Forks. The frame is professionally painted but the fork would need to be painted. \$260.00 Plus Shipping. Call 419-262-9473 to order.

We also carry everything else you need to build a complete Minibike. Wheels, fenders, seat, cables, brakes, kickstand, footpegs and everything else except the motor.

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