

**BACKYARD BUDDY 9000# MATERIAL LIST****MAIN ASSEMBLY**

<b><u>Item No.</u></b>	<b><u>Quantity</u></b>	<b><u>Description</u></b>
101	2	Crossmember
114	2	3/8" Round Safety Rod
119	1	3/8" Square Bar "Long" Safety Rod
120	1	3/8" Square Bar "Short" Safety Rod
201	1	Left Front Leg (w/ pump Mounting Stand)
202	1	Right Front Leg
203	1	Left Rear Leg
204	1	Right Rear Leg
301	1	Ramp - with Cylinder
302	1	Ramp - Non-Cylinder
306	4	Wheel Stop Retainer Plate
316	2	Approach Ramp
317	4	Wheel Stop

**POWER UNIT BOX**

<b><u>Item No.</u></b>	<b><u>Quantity</u></b>	<b><u>Description</u></b>
309	1	Hydraulic Power Unit
313	1	Hydraulic Hose
314	1	Female Quick Disconnect
315	1	Male Quick Disconnect

**LARGE HARDWARE BOX**

<b><u>Item No.</u></b>	<b><u>Quantity</u></b>	<b><u>Description</u></b>
109	8	Notched Nylon Slider
110	8	Regular Nylon Slider
121	1	3/8" Square Collar Sleeve
127	4	Pulley Cover
205	4	Top Cap

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**BACKYARD BUDDY CORP.**

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**Read instructions and study the illustrations carefully and completely before beginning assembly of your new BACKYARD BUDDY.**

- 1a) Familiarize yourself with the lifts assembly diagram. (Illustration #1)**
  - b) Layout hardware & sort for assembly. (Verify all parts needed)**
- 2) Install hardware on crossmembers. (Both crossmembers are assembled the same) (Illustration #2)**

**PARTS NEEDED:**

<b><u>Item No.</u></b>	<b><u>Qty.</u></b>	<b><u>Description</u></b>
101	2	Crossmember
102	4	1" x 7" Round Pulley Shaft
103	4	Safety Lock Dog
104	4	4" Pulley
105	8	1" Set Screw Collar
106	2	5/16" x 5" Eye Bolt
107	2	5/16" Lock Washer
108	4	5/16" Hex Nut

**Tools/Materials Needed: 5/32" Allen Head Tool      1/2" Wrench      Grease**

- A. (Illustration #2) Select two (2) crossmembers (item #101). Insert one 1" x 7" round pulley shaft (item #102) through each end of crossmember where the 1" collars have been welded on.**
- B. Slide one pulley (item #104) onto guard side of each pulley shaft. (Note: Apply grease to the bushing in the center of each pulley before sliding it onto the pulley shaft).**
- C. Install one safety lock dog (item #103) onto each pulley shaft (opposite side of pulley guard)**
- D. Next, take the eight (8) 1" collars (item #105) and place one on each side of the pulley shaft to retain lock dogs and pulleys. After lock dogs, pulleys, & collars are installed, adjust pulley shafts so that they are evenly spaced through the crossmember and hardware. Tighten the 1" collars (inner) welded to the crossmember with a 5/32" Allen head tool. Now tighten outer collars making sure that the pulleys and safety lock dogs rotate freely on the pulley shaft. If there is any binding re-adjust outer 1" collars.**
- E. Take 5/16" nut (item #108) and fully thread it onto the 5/16" x 5" eyebolt (item #106). Next, insert eyebolt from the outside (lock dog side) of crossmember, thru the 5/16" hole drilled in the center. Install 5/16" lock washer (item #107) and 5/16" nut (item #108) align eyebolt vertically and tighten the nut with a 1/2" wrench.**

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#### 4) INSTALL CROSSMEMBERS ONTO THE TWO REAR LEGS (Illustrations #1, #4 & #5)

##### Parts Needed:

<u>Item No.</u>	<u>Qty.</u>	<u>Description</u>
101	1	Crossmember
109	4	Notched Nylon Slider
110	4	Regular Nylon Slider
111	4	Nylon Retainer Clip
112	4	1/4"-20 x 1/2" Hex Head Bolt
113	4	1/4" Flat Washer
203	1	Left Rear Leg
204	1	Right Rear Leg

Tools Needed:      7/16" Wrench                  Hammer                  2" x 4" x 18" Block (supplied)

- A. Repeat step #3 procedures with the remaining crossmember (item #101) left rear leg (item #203) and right rear leg (item #204).

#### 5) ATTACH THE RAMPS TO THE FRONT CROSSMEMBER /LEG ASSEMBLY (Illustrations #1 & #6)

##### Parts Needed:

<u>Item No:</u>	<u>Qty.</u>	<u>Description</u>
101,202,202	1	Front Crossmember/Leg Assembly
301	1	Cylinder Ramp
302	1	Non-Cylinder Ramp
303	4	3/4"-10 x 4 1/2" Hex Head Bolt
304	4	3/4" Flat Washer
305	4	3/4"-10 Jam Nut (Thinner than regular nut)

Tools Needed:      Two (2) sawhorses

- A. (Illustration #1 and #6) Place front crossmember and leg assembly in the area you choose to install the lift.
- B. The first ramp you install will be the cylinder side ramp (item #301). Unbolt cylinder side ramp (top) from shipping bracket. When placing the ramp onto the crossmember, make sure that the hydraulic hard pipe from the cylinder will be on the left outside, closest to the pump-mounting plate on the left front leg. Lift the cylinder side ramp onto the front crossmember and let the lip of the ramp rest on the crossmember with the other end resting on one sawhorse.
- C. Align bolt holes in the ramp with the holes in the crossmember. Now, insert two (2) 3/4" x 4 1/2" bolts (item #303) from the ramp through the crossmember (The bolt goes from the inside of ramp out). Install 3/4" flat washer (item #304) and 3/4" jam nut (item #305), **hand tighten only**. Repeat steps B & C on the non-cylinder ramp (item #302). **Before unbolting non-cylinder ramp from shipping brackets, place 2 x 4's (on 2" edge) under each end of ramp to support the ramp when shipping bracket is removed.**

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- C. The swivel ends are now attached to the non-cylinder side safety lock dogs with a 3/8" x 1 3/4" bolt (item #126) a 3/8" lock washer (item #116A) and a 3/8" nut (item #116), tighten with a 9/16" wrench. The cylinder side swivel ends are not yet attached.
- D. Attach one end of the spring (item #117) to the washer on the safety rod and the other end to the eye bolt with a pair of pliers.

## 8) INSTALL LONG & SHORT 3/8" SQUARE BAR SAFETY RODS (ILLUSTRATIONS #1,#8 & #9)

### Parts Needed:

<u>Item No.</u>	<u>Qty.</u>	<u>Description</u>
116	10	3/8" Nut
116A	6	3/8" Lock Washer
119	1	3/8" Square Bar "Long" Safety Rod
120	1	3/8" Square Bar "Short" Safety Rod
121	1	3/8" Square Collar Sleeve
123	1	Ball Handle
124	6	3/8" Swivel
125	2	3/8" X 6 1/2" Threaded Studs
126	6	3/8" x 1 3/4" Bolt

### Tools Needed:      *3/16" Allen Head Tool*      *9/16" Wrench*

- A. Check fit of both 3/8" square bar safety rods (short – item #120 & long – item #119) to 3/8" square collar sleeve (item #121). If necessary, grind or file as needed for ease of assembly.
- B. (Illustration #8) Slide 3/8" square bar "Long" safety rod (item #119) from the rear crossmember through the cylinder side ramp and loops (3/4" pipe) welded under the ramp. Attach 3/8" swivel end (item #121) on 3/8" round safety rod to the top hole on the end of square bar safety rod with 3/8" x 1 3/4" bolt (item #126), 3/8" lock washer (item #116A) and 3/8" nut (item #116), tighten with 9/16" wrench.
- C. Slide 3/8" square bar "short" safety rod (item #120) from the front crossmember through the cylinder side ramp and the loops (3/4" pipe) welded under ramp. Attach 3/8" swivel end (item #121) on 3/8" round safety rod to the top hole on the end of square bar safety rod with 3/8" x 1 3/4" bolt (item #126), 3/8" lock washer (item #116A) and 3/8" nut (item #116), tighten with 9/16" wrench.
- D. (Illustration #9) Insert the "long" safety rod (item #119) into the end of the square collar sleeve (item #112), being sure that the set screws on the sleeve are facing toward the center of the lift for accessibility to tighten.
- E. Insert the "short" safety rod (item #120) into the other end of the sleeve, making sure there is approximately 1/4" clearance between square rod and crossmember for free rotation. Tighten the setscrews with a 3/16" Allen head tool.
- F. Thread two (2) 3/8" nuts (item #116) on 3/8" x 6 1/2" threaded stud (item #125). Next, thread 3/8" swivel ends (item #124) onto 3/8" x 6 1/2" threaded studs (item #125). Assemble one for each end of the lift.

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- C. Attach the Female Quick Disconnect (item #314) to the other end of the hose (pipe dope recommended). Tighten with  $\frac{3}{4}$ " wrench and crescent wrench.
- D. Attach the Male Quick Disconnect (item #315) to the  $\frac{3}{8}$ " threaded hard pipe coming from the hydraulic cylinder (pipe dope recommended). Tighten with crescent wrench.
- E. Couple the Female and Male quick disconnects together.
- F. Remove the fill cap on the pump reservoir and add three (3) gallons of hydraulic oil. (Note: on 12 Volt systems fill until the reservoir is full).

### 11. PLUG POWER UNIT IN AND REMOVE SLACK FROM THE CABLES

- A. You may need a second person to assist you at this point. One person should check the four cables under the cylinder side ramp making sure that the cables stay on the pulleys, and the second person should operate the power unit and watch that the cables stay on the crossmember pulleys. Run the unit by pressing the button on the center of the power unit until the slack has been removed in the cables. **CAUTION! THIS IS EXTREMELY IMPORTANT. BE SURE THAT ALL CABLES HAVE REMAINED ON ALL TEN PULLEYS BEFORE CONTINUING.**
- B. Disengage safety locks with the safety release handle and lower the lift to the ground by pushing the ball handle on the power unit downward. (Both handles must be held simultaneously).

### 12. ADJUSTING THE LIFT CABLES

**TOOLS NEEDED:** *5/8" Wrench*                      *Crescent Wrench*

- A. Raise the lift up until one of the outside sliders on the crossmember is even with one of the safety slots in the leg. With a crescent wrench and 5/8" wrench adjust the cables so that the other three sliders are in the same position in reference to the safety slots in the legs **ALL SAFETY LOCK DOGS SHOULD ENGAGE AT THE SAME TIME, WHEN LIFT IS OPERATED.** If not, re-adjust until they do.

### 13. ATTACHING PULLEY COVERS

**Parts Needed:**

<u>Item No.</u>	<u>Qty.</u>	<u>Description</u>
127	4	Pulley Cover
128	16	$\frac{1}{8}$ " x $\frac{1}{2}$ " Self-Tapping Screw

**Tools Needed:**                       *$\frac{1}{4}$ " Nut Driver*

- A. Attach four pulley covers (item #127) over the four pulleys on the crossmembers with the sixteen  $\frac{1}{8}$ " x  $\frac{1}{2}$ " self-tapping screws (item #128). (Four on each pulley cover). Use a  $\frac{1}{4}$ " Nut Driver. **AGAIN VERIFY THAT ALL CABLES HAVE REMAINED ON ALL PULLEYS.**

### 14. FINAL CHECK

**Double check all hardware for proper installation and check all fasteners to verify that they are tight and secure.**

[BACKYARD BUDDY]  
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LIMITED WARRANTY – PARTS ONLY

Backyard Buddy Corp. warrants all parts of all electrical components and all parts of hydraulic cylinders and all cables to be free from any defect for a period of Five Years after acceptance of the original purchase order by Backyard Buddy. Any part of an electrical component or any part of a hydraulic cylinder determined by Backyard Buddy to be defective within said Five-Year Period will be replaced by Backyard Buddy, FOB Warren, Ohio, free of charge to Buyer, or, at Buyer's option, will be repaired by Backyard Buddy, at its facility located at 140 Dana Street, Warren, Ohio, 44481, upon pre-payment of a reasonable cost for labor. Buyer must pay all costs incurred in shipping such part to said facility. Backyard Buddy will return repaired part by standard ground rates. Buyer will pay for expedited shipping.

Backyard Buddy has no obligation to repair or replace any part of any electrical component or any part of any hydraulic cylinder or any cable where the defect is caused by abuse, misuse, overloading, accident (including, but not limited to, damage in shipping), improper maintenance, or alteration, or attempt to repair not authorized by Backyard Buddy. Repair or Replacement of defective parts, as set forth herein, is the Exclusive Remedy available to Buyer.

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