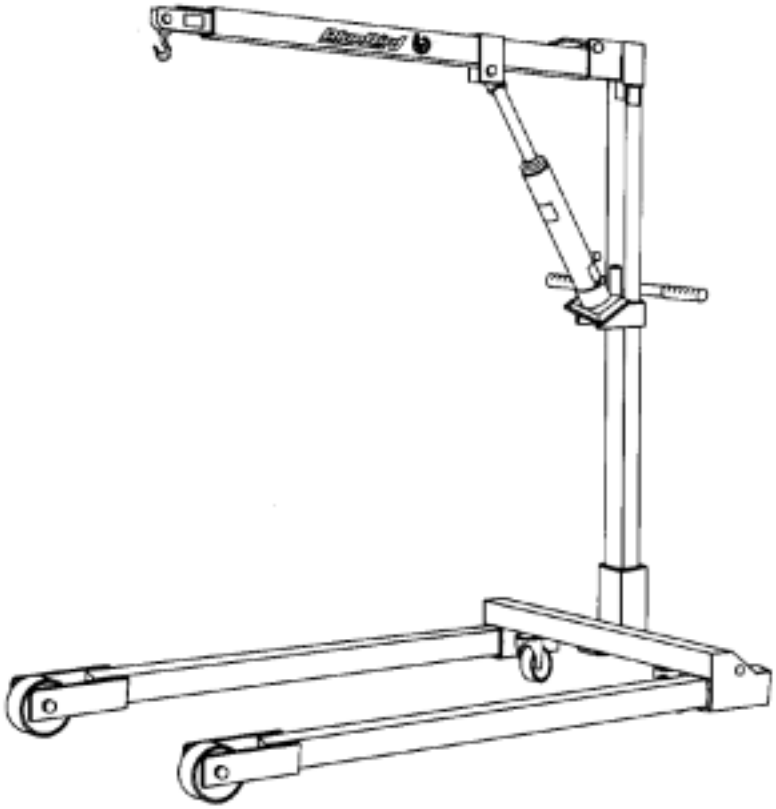
BLUEBIRD



Operator & Parts Manual

Hydraulic Lifts

Models:
KD1200
KD1500
Tip Tow II
Tip Tow 10
Tip Tow 3000
Kaydee Kaddy

MANUAL NO. 8277 REV. 01 (05/03/04)

INDEX

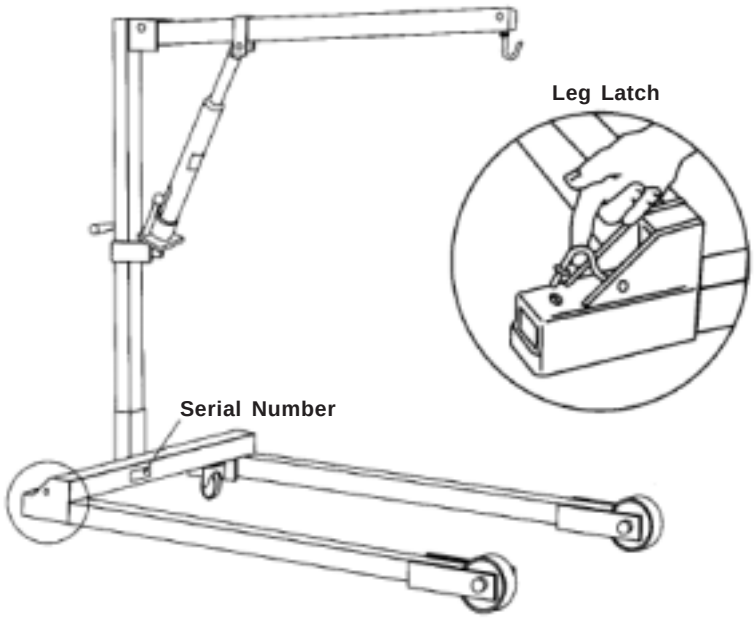
Specifications 4
Illustrations 5
Safety 6
Instructions 7
Trouble shooting 8
Maintenance 9
3 Ton Jack Model 4351 (Parts) 10-11
5 Ton Jack Model 4451 (Parts) 12-13
Assembly Instructions
for Knockdown Lift 14-15
Kaydee 1200 & 1500 (Parts) 16-17
Tip-Tow II, Tip-Tow 3000,
Tip-Tow 10 (Parts) 18-19
Kaydee Kaddy Assembly & Storing 20-21
Kaydee Kaddy (Parts) 22-23

©2004 BlueBird International. All Right Reserved.
Beatrice, NE. Printed in the U.S.A.

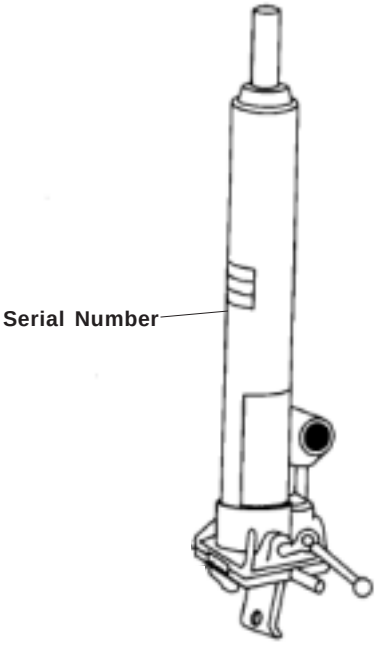
SPECIFICATIONS

	Capacity	Net Weight (lbs)	Shipping Weight (lbs)	Width (inches)	Overall reach (inches)	Length (inches)
KD1200	1200 lbs.	250 lbs.	294 lbs.	40.5"	99.5"	74.5"
KD1500	1500 lbs.	240 lbs.	279 lbs.	40.5"	91.5"	70.5"
Tip Tow II	1000 lbs. outter hook 1500 lbs. inner hook	307 lbs.	307 lbs.	52"	100.5" outter hook 89.5 inner hook	82.5"
Tip Tow 3000	3000 lbs.	365 lbs.	365 lbs.	52.5"	100"	75.75"
Tip Tow l0	1500 lbs. outter hook 2000 lbs. inner hook	530 lbs.	530 lbs.	66"	10 feet	96"
Kaddy	NA	66 lbs.	71 lbs.	20"	41.2" high	29"
3 Ton Jack	NA	20 lbs.	23 lbs.	NA	NA	NA
5 Ton Jack	NA	24 lbs.	26 lbs.	NA	NA	NA

ILLUSTRATIONS

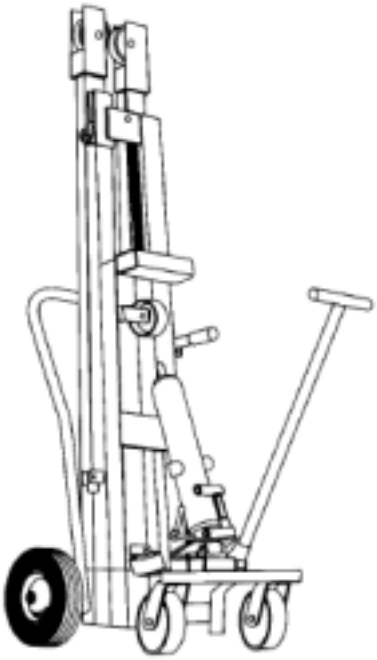


Knock-Down Lift

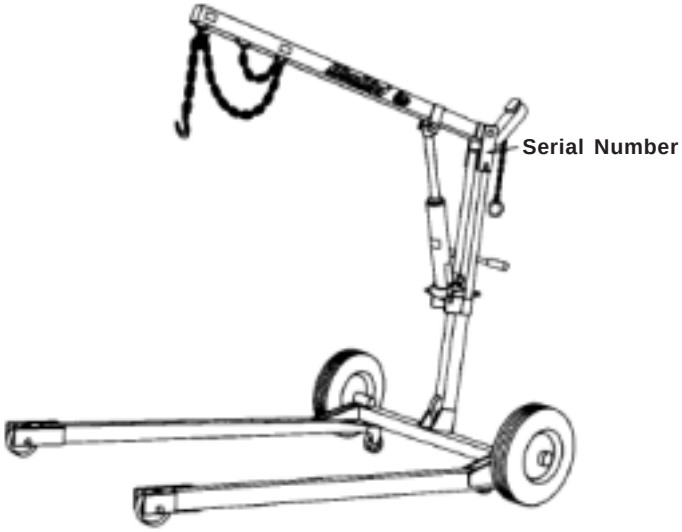


Hydraulic Jack

Kaydee Kaddy



Towable Lifts



SAFETY

WARNING

DO NOT forget to position leg latches on cross-axle. Leg latches MUST be in DOWN position and IN THE HOLE at rear of leg. These leg latches prevent the legs from being withdrawn when moving lift. (On Knock-Down Lifts only).

NEVER use lift on anything other than a firm level surface.

DO NOT use the jack handle to move the lift when handle is in pump socket. Doing so will break the pump plunger.

NEVER push the boom up by hand.

Read all maintenance and service instructions before attempting work.

ALWAYS use the jack to raise the boom.

ALWAYS use the moving handle to move the lift.

Make sure that the boom is fully lowered before adding oil to unit reservoir.

Use EXTREME CARE when carrying load or unloading jack so release valve is not damaged.

INSTRUCTIONS

TOWING:

1. Release jack to lower boom to the lowest point.
2. Place chain hook into hookup point at center of base of the lift.
3. Take up slack in chain by placing lock chain into the rear grab hook on boom.
4. Pump the jack up until chain is tight.

The above instructions will:

- Prevent the boom from "jackknifing" when being towed. Other wise the jack can become inoperative because of air being pulled under the plunger (ram).
- Position the boom correctly so that the coupler is horizontal to the ground and at the proper height for towing.

STORAGE:

1. Clean unit.
2. Cover all scratches with touch up paint.
3, Grease all wheels so they turn freely.
4. Store jack indoors.

LIFT MAINTENANCE:

1. Grease wheels and casters periodically to insure free movement.
2. For jack maintenance, see jack maintenance section.

3 & 5 TON JACKS:

These jacks are manufactured exclusively for the use on BlueBird hydraulic lifts. The finest available, it incorporates two unique features: An internal safety bypass valve and a slow release valve.

The bypass valve is set at the factory and SHOULD NOT BE TAMPERED WITH. This valve becomes operative as the load reaches the capacity of the lift. It then bypasses the hydraulic fluid from the pump into the reservoir so that no greater pressure may be exerted on the ram, regardless of the load being lifted. This averts possible damage to the jack or the lift itself.

The specially engineered slow release valve is designed to provide the operator with complete control when lowering the load. This restricts the return flow of hydraulic fluid so the load will never drop suddenly or too fast. To aid in the prevention of accidental removal or the possibility of over tightening of the release valve, a STOP has been welded to the jack mounting plate. Never remove the stop, if it should become damaged or broken off, replace immediately.

TROUBLE SHOOTING

The unique design of the BlueBird hydraulic jacks eliminates nearly all the problems normally associated with hydraulic jacks. There are very few areas that will render your jack inoperative. Here are the most common and their remedies: (refer to parts list for part identification).

Symptom	Cause	Remedy
Spongy action when lifting load	Air under ram	Bleed air from jack.
Will not pump up	Air lock	Bleed air from jack.
	Oil level is too low or too high	Check oil level adjust oil to proper level.
	Large ball check not reseating	Reseat large ball.
	Release valve ball missing or damaged	Inspect for damaged or missing ball replace if necessary (part # 4333).
	Pump plunger cup (part # 4346) or Ram plunger cup (part # 4326 for 3 Ton or 4426 for 5 Ton) damaged or worn	Inspect cups and replace as necessary.
Load descends slowly, jack handle raises during this process	Large ball check not seating (part # 6048)	Reseat large ball
	Foreign matter interfering with large ball check	Drain and flush jack, Inspect and reseat large ball
Load descends slowly, jack handle DOES NOT rise during this process	Release valve (part # 4334) not closed completely or damaged	Close release valve, inspect for damage and replace as necessary.
	Ram plunger cup (part # 4326 for 3 Ton or 4426 for 5 Ton) worn or damaged	Inspect ram plunger cup replace as necessary.
Oil leaks	Generally caused by loose components	Inspect and tighten as needed.

Remember: If you need assistance with your jack a BlueBird representative is just a phone call away.

MAINTENANCE

Hydraulic Jack:

Proper maintenance and handling of your hydraulic jack will insure many years of service. Here are a few tips in the care and maintenance of your jack.

1. **Never** carry jack by ram or upside-down, this will cause air under plunger.
2. **Always** use only top grade hydraulic oil, never use brake fluid!
3. **Always** insure proper level of hydraulic fluid. **Do not** overfill reservoir! This will render jack inoperative. Oil should only be filled to the filler plug. If you should overfill, simply stand jack upright and remove filler plug and allow excess oil to drain from jack through the filler plug. The correct oil level is up to the filler plug.
4. Do not store jack outside.
5. **Inspect** periodically to insure no moisture or water has collected in jack. **Rust** will **destroy** your jack.
6. Abusive handling may cause damage to the jack. **Always** handle with care.
7. Load test your lift periodically to insure jack bypasses at specified load limit. Determine load limit of your lift, attach a weight equal to 100 lb. greater than load limit. Lift should not lift load. If lift does lift load, **replace safety bypass valve immediately**, do not adjust, bypass valve is set at factory.

To Bleed Air From Jack:

(Refer to parts lists for part identification.)

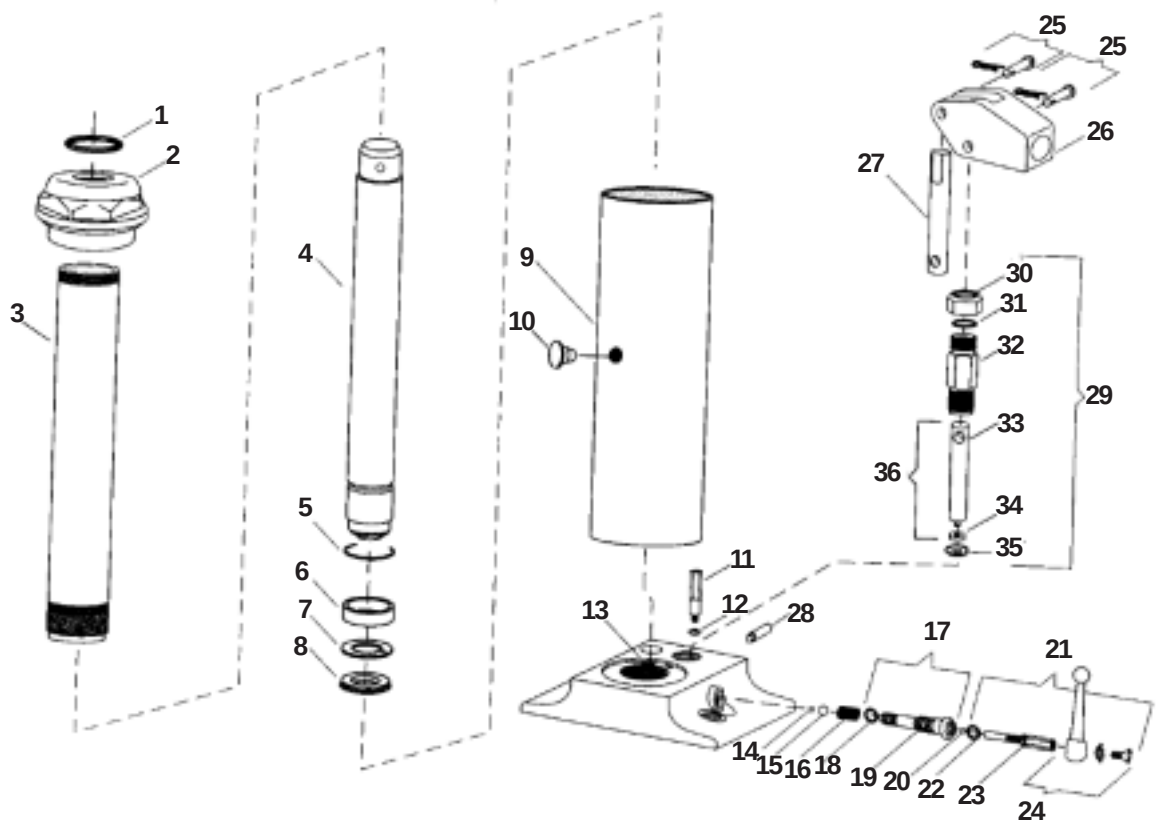
1. Remove jack from lift. Open release valve (item 18) and actuate pump (item 22) approximately 10 complete strokes.
2. Close release valve (item 18), actuate pump (item 22) until plunger (item 4) rises 8-10".
3. Turn jack upside down, open release valve (item 18) push plunger (item 4) back to retracted position.
4. Close release valve (item 18) while holding plunger (item 4) turn right side up.
5. Repeat this process until all air is removed from jack.
6. Remove filler plug, check proper level of hydraulic fluid.

Reseating the Large Ball Check:

1. Remove jack from lift, lay jack on bench with release valve handle in the up position.
2. Remove housing assembly (part # 4330). Use caution when removing housing assembly so as not to lose spring (part # 4359) located just beneath housing, remove spring.
3. The large ball (part # 6048) is located just under the spring. Using a 5/16 x 3" long or longer bolt. (We do not recommend the use of a hardened bolt or drift punch, these will damage the ball.) Position bolt on top of ball as close to the center of the ball as possible and strike firmly with a 1 lb. hammer, The amount of force to reseat the ball would similar to striking a 16 penny nail with a hammer. This action should have caused a new seating ring for the ball.
4. Replace the spring and reinstall the housing assembly.

It is always wise to check and bleed the jack of air. Test jack for proper function and repeat process if necessary.

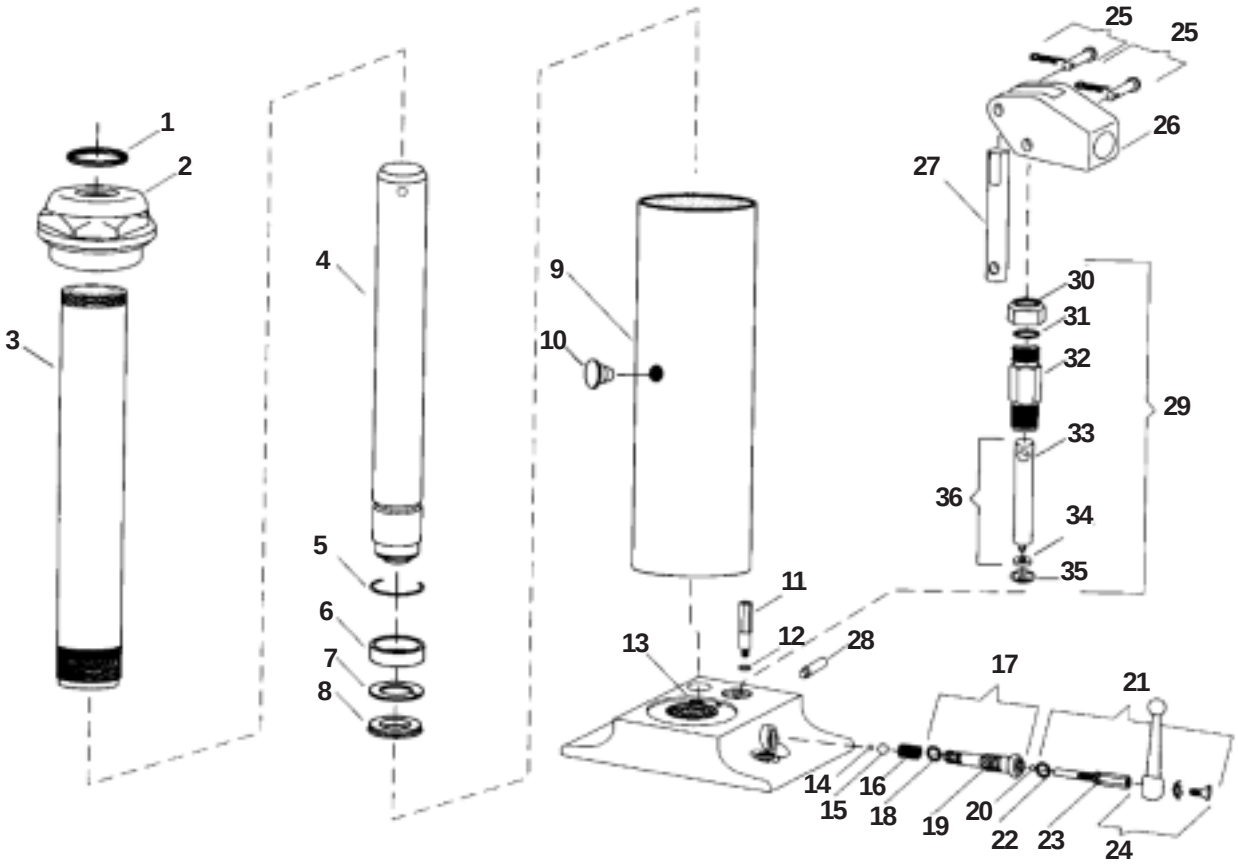
PARTS - 3 TON JACK - MODEL 4351



PARTS - 3 TON JACK - MODEL 4351

ITEM	PART NO.	QTY	DESCRIPTION
1	4318	1	“O” RING, 1 7/16” O.D.
2	4319	1	TOP CAP, 3T JACK
3	4320	1	CYLINDER, 3T JACK
4	4322	1	PLUNGER, 3T JACK
5	4323	1	RING STOP
6	4324	1	RING, CUP SUPPORT
7	4325	1	SPACER, PLUNGER CUP
8	4326	1	PLUNGER CUP
9	4327	1	RESERVOIR, 3T JACK
10	4328	1	FILLER PLUG, RESERVOIR
11	6025	1	SAFETY VALVE ASSEMBLY, 3T JACK
12	6047	1	GASKET, SAFETY VALVE
13	4329	1	BASE, 3T JACK
14	6049	1	BALL, 7/32”
15	6048	1	BALL, 5/16”
16	4359	1	SPRING, VALVE
17	4330	1	HOUSING ASSEMBLY, FOR SPINDLE
18	4331	1	“O” RING, 7/16” O.D.
19	4332	1	HOUSING, FOR SPINDLE
20	4333	1	BALL, 3/16”
21	4334	1	RELEASE VALVE ASSEMBLY
22	4337	1	“O” RING, 3/8” O.D.
23	4336	1	RELEASE VALVE SPINDLE
24	6055	1	RELEASE VALVE LEVER KIT
25	4338	2	PIN KIT, BEAM
26	4339	1	BEAM, HANDLE SOCKET
27	4340	1	LINK KIT, INCLUDES ITEM 28
28	4317	1	PIN, LINK
29	4341	1	PUMP UNIT ASSEMBLY
30	4342	1	NUT, PUMP PACKING
31	4343	1	“O” RING 11/16” O.D.
32	4344	1	CYLINDER, PUMP
33	4345	1	PLUNGER, PUMP
34	4346	1	PLUNGER CUP, PUMP
35	4347	1	GASKET, PUMP
36	4348	1	PUMP PLUNGER ASSEMBLY
	4352	1	REPAIR KIT, INCLUDES ITEMS
			1, 8, 12, 18, 22, 31, 34, 35
	4351	1	JACK, BLUEBIRD 3T LONG RAM
	4354	1	DECAL KIT, 4351 JACK

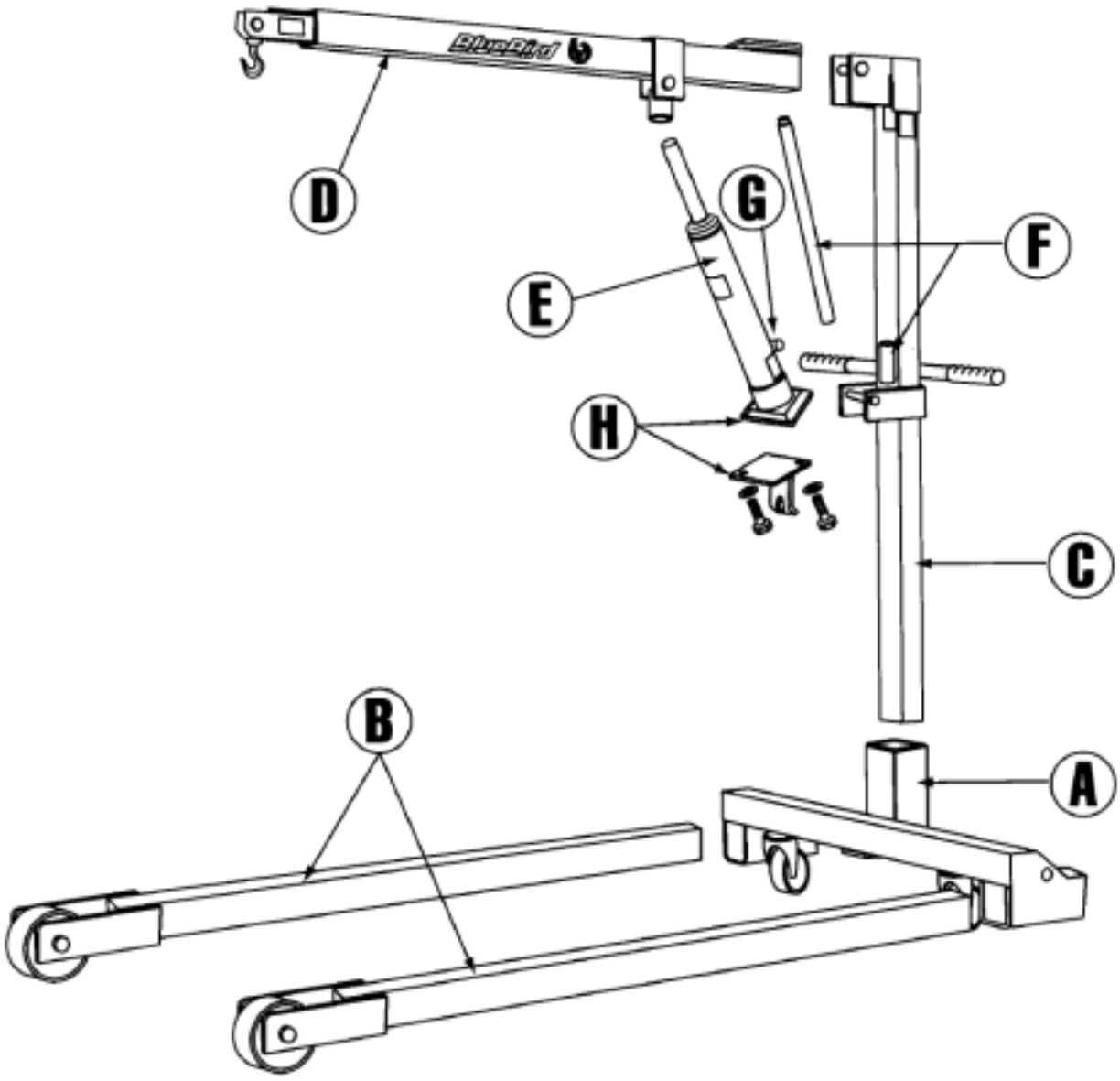
PARTS - 5 TON JACK - MODEL 4451



PARTS - 5 TON JACK - MODEL 4451

ITEM	PART NO.	QTY	DESCRIPTION
1	4418	1	“O” RING, 1 3/4” O.D.
2	4419	1	TOP CAP, 5T JACK
3	4420	1	CYLINDER, 5T JACK
4	4422	1	PLUNGER, 5T JACK
5	4423	1	RING STOP
6	4424	1	RING, CUP SUPPORT
7	4425	1	SPACER, PLUNGER CUP
8	4426	1	PLUNGER CUP
9	4427	1	RESERVOIR, 5T JACK
10	4328	1	FILLER PLUG, RESERVOIR
11	4416	1	SAFETY VALVE ASSEMBLY, 5T JACK
12	6047	1	GASKET, SAFETY VALVE
13	4429	1	BASE, 5T JACK
14	6049	1	BALL, 7/32”
15	6048	1	BALL, 5/16”
16	4359	1	SPRING, VALVE
17	4330	1	HOUSING ASSEMBLY, FOR SPINDLE
18	4331	1	“O” RING, 7/16” O.D.
19	4332	1	HOUSING, FOR SPINDLE
20	4333	1	BALL, 3/16”
21	4334	1	RELEASE VALVE ASSEMBLY
22	4337	1	“O” RING, 3/8” O.D.
23	4336	1	RELEASE VALVE SPINDLE
24	6055	1	RELEASE VALVE LEVER KIT
25	4338	2	PIN KIT, BEAM
26	4339	1	BEAM, HANDLE SOCKET
27	4340	1	LINK KIT, INCLUDES ITEM 28
28	4317	1	PIN, LINK
29	4341	1	PUMP UNIT ASSEMBLY
30	4342	1	NUT, PUMP PACKING
31	4343	1	“O” RING 11/16” O.D.
32	4344	1	CYLINDER, PUMP
33	4345	1	PLUNGER, PUMP
34	4346	1	PLUNGER CUP, PUMP
35	4347	1	GASKET, PUMP
36	4348	1	PUMP PLUNGER ASSEMBLY
	4452	1	REPAIR KIT, INCLUDES ITEMS
			1, 8, 12, 18, 22, 31, 34, 35
	4451	1	JACK, BLUEBIRD 3T LONG RAM
	4455	1	DECAL KIT, 4451 JACK

KNOCKDOWN LIFT



ASSEMBLY INSTRUCTIONS

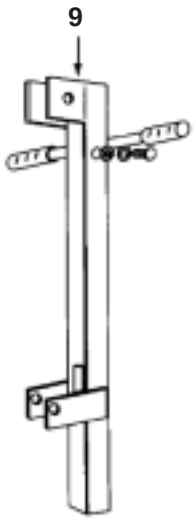
- Place cross-axle (A) on level surface.
- Insert legs (B) completely, so that latches snap into holes in the legs. This is important as the latches keep the legs from pulling out when the lift is moved.
- Insert upright column post (C) into socket in cross-axle with flanges facing forward.
- Insert jack handle (F) into handle retainer.
- Hold front end of boom (D) at a high angle and slide boom hook into the pin on the column post from bottom side. Lower boom to relaxed position.
- Bolt base plate to bottom of jack (H).
- Place jack (E) on the pin on column post so that the pump of the jack (G) next to the column post.
- Place ram of jack into socket on boom.
- Use level firm surface only.

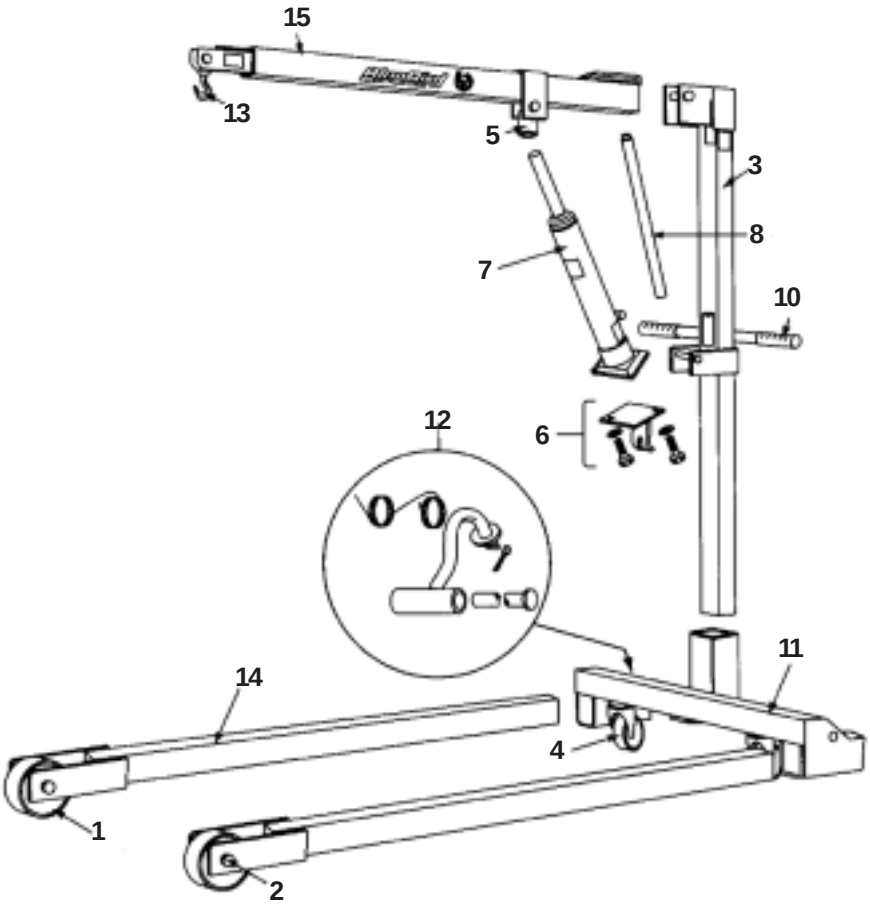
NOTE: Black pins on cross-axle must be in DOWN position and IN THE HOLE at rear of legs. These pins prevent legs from being withdrawn when moving lift.

PARTS - KAYDEE 1200 & 1500

KNOCKDOWN LIFT

OPTIONAL COLUMN POST
TO COVERT TO SHORT LIFT





PARTS - KAYDEE 1200 & 1500

KNOCKDOWN LIFT

THESE PARTS ARE INTERCHANGEABLE

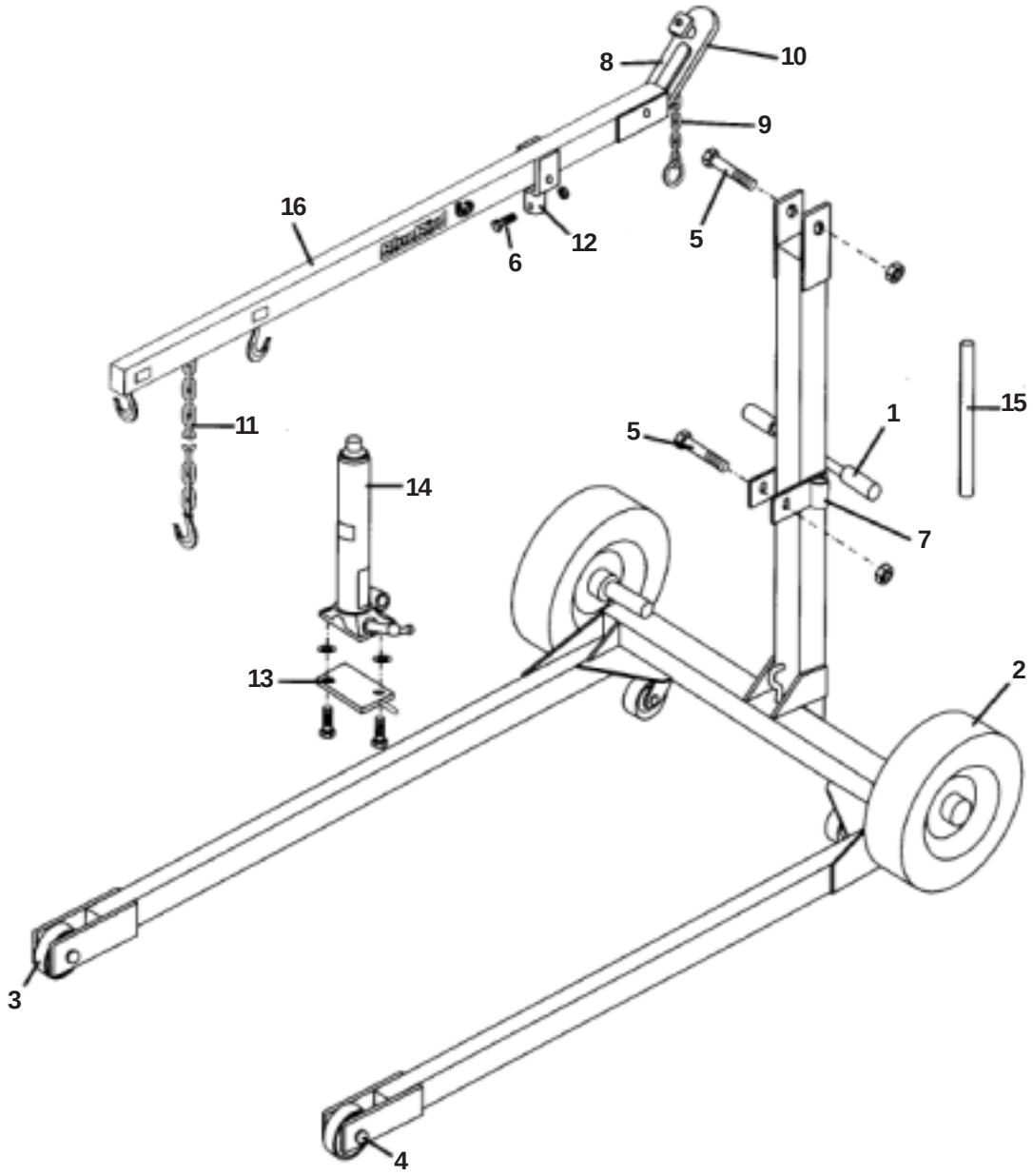
ITEM	PART NO.	QTY	DESCRIPTION
1	0136	2	WHEEL, STEEL 5” O.D. X 1 5/8”
	0732		PAINT, BLUE 12.5 OZ. SPRAY CAN
	0729		PAINT, BLUE 1 QT. CAN
2	1110		BOLT, 1/2” X 3 1/4” W/LOCK NUT FOR WHEEL
3	4005	1	COLUMN POST W/MOVING HANDLE, 60”
4	4018	2	CASTER, WITH 4” O.D. WHEEL
5	4035	1	SOCKET, JACK, WITH PIN
6	4040	1	PLATE, JACK BASE, WITH BOLT KIT
7	4351	1	JACK, 3 TON LONG RAM WITHOUT BASE PLATE
8	4055	1	HANDLE, JACK 21 7/8” LONG
9	4066	1	COLUMN POST WITH MOVING HANDLE, 42 3/8
10	4075	1	HANDLE, WITH GRIPS AND BOLTS
11	4100	1	CROSS-AXLE, WITH LEG LATCHES AND CASTERS
12	4101	2	LATCH KIT, WITH SPRING, CLEVIS & PINS
13	4941	1	SWIVEL, 3/8” SLIP HOOK
14	4124	2	LEG, 74 1/2” LENGTH WITH 5” WHEEL
	4180	1	ENGINE SLING, PLATED CHAIN (NOT SHOWN)

THESE PARTS ARE NOT INTERCHANGEABLE

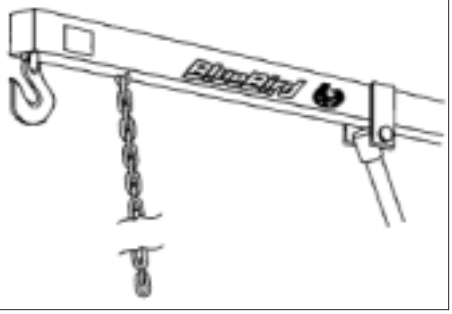
15	4030	1	*BOOM, KD1500, 50 5/8” LENGTH W/HOOK
15	4202	1	*BOOM, KD1200, 62 5/8” LENGTH W/HOOK
	4354	1	DECAL KIT, 4351 JACK
	8508	1	DECAL KIT, KD1500SL
	8509	1	DECAL KIT, KD1500
	8510	1	DECAL KIT, KD1200
	8511	1	DECAL KIT, KD1200SL

***CAUTION: THESE UNITS MAY LOOK ALIKE, HOWEVER THEY USE DIFFERENT BOOMS. BE CERTAIN YOU ORDER THE CORRECT BOOM FOR YOUR LIFT.**

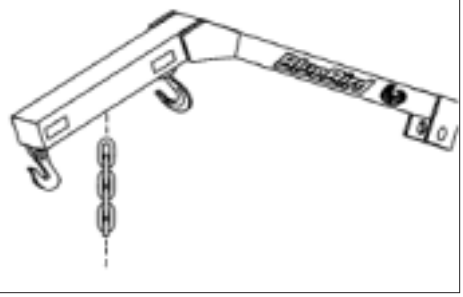
PARTS - TIP-TOW II, TIP-TOW 3000, TIP-TOW 10



TIP-TOW 3000



TIP-TOW 10



PARTS - TIP-TOW II, TIP-TOW 3000, TIP-TOW 10

ITEM	PART NO.	QTY						DESCRIPTION
		TT II	Shop II	TT3000	Shop 3000	TT10	Shop 10	
1	0025	2	2	2	2			GRIP, PLASTIC 3/4" I.D.
1	4670					2	2	GRIP, PLASTIC 1" I.D.
2	0045	2		2				WHEEL, W/4.80-8 TIRE & BEARINGS
2	0022					2		WHEEL, W/5.70-8 TIRE & BEARINGS
3	0136	2	2	2	2			WHEEL, STEEL 5" O.D. X 1 5/8"
3	0021					2	2	WHEEL, STEEL 8" O.D. W/ROLLER BEARING
4	1110	2	2	2	2			BOLT KIT FOR 5" WHEEL (0136)
4	1250					2	2	BOLT KIT FOR 8" WHEEL (0021)
5	1212			2	2	2	2	BOLT KIT FOR COLUMN
5	4593	2	2					BOLT KIT FOR COLUMN
6	1211			1	1	1	1	BOLT KIT FOR SOCKET PLUNGER
6	4596	1	1					BOLT KIT FOR SOCKET PLUNGER
7	4048	1	1	1	1	1	1	JACK HANDLE RETAINING KIT
8	4522	1		1		1		COUPLER, COMPLETE W/KIT, ACCOMMODATES 2" & 2 1/2" BALL LESS CHAIN (4523)
9	4523	1		1		1		CHAIN, TOW 3/16" W/RING
10	4524	1		1		1		REPAIR KIT, COUPLER
11	4525			1	1	1	1	CHAIN, 3/8: W/SLIP HOOK CERTIFIED 5100 LBS.
11	4594	1	1					CHAIN, 5/16" SLIP HOOK
12	4435			1	1	1	1	SOCKET, PLUNGER W/BOLT KIT
13	4440			1	1	1	1	PLATE, JACK BASE W/BOLT KIT
13	4595	1	1					PLATE, JACK BASE W/BOLT KIT
14	4351	1	1					JACK, BLUEBIRD, 3T LONG RAM
14	4451			1	1	1	1	JACK, BLUEBIRD, 5T LONG RAM
15	4555	1	1	1	1	1	1	HANDLE, JACK
16	4576				1			BOOM, TT 3000, 54" LENGTH W/COUPLER, HOOKS, DECALS & CHAINS (4525 & 4523)
16	4559		1					BOOM, SHOP II, 68" LENGTH W/CHAIN, HOOKS & DECALS
16	4580	1						BOOM, TIP TOW II, 68" LENGTH W/COUPLER, HOOKS, DECALS & CHAINS (4594 & 4523)
16	4660					1		BOOM, TT 10, W/COUPLER, HOOKS DECALS & CHAINS (4525 & 4523)
16	4661						1	BOOM, SHOP 10, W/CHAINS, HOOKS & DECALS
	4354	1	1					DECAL KIT, FOR 4351 JACK 3 TON
	4455			1	1	1	1	DECAL KIT, FOR 4451 JACK 5 TON
	8504						1	DECAL KIT, SHOP 10
	8505					1		DECAL KIT, TT10
	8506	1						DECAL KIT, TT II
	8507		1					DECAL KIT, SHOP II
	8512				1			DECAL KIT, SHOP 3000
	8513			1				DECAL KIT, TT3000
	0732							PAINT, BLUE 12.5 OZ. SPRAY CAN
	0729							PAINT, BLUE 1 QT. CAN

KAYDEE KADDY ASSEMBLY

1. Attach handle Part # 2718 to Kaddy frame using: 5/16-18NC x 1 1/2" long hex head cap screws, washers and lock nuts. Place washer on cap screw, insert screw into handle and through frame bracket, add flat washer and hex lock nut and tighten. (See Figure 1.)

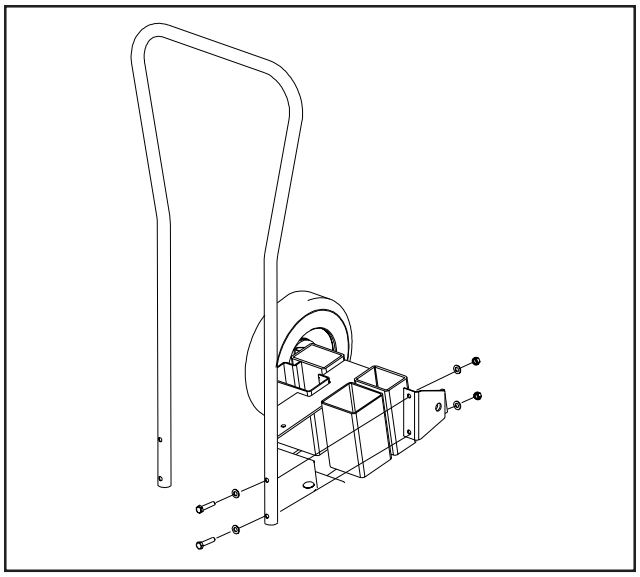


FIGURE 1

2. Attach front caster wheels, Part # 0044, to Kaddy frame using: 3/8-16NC x 3/4" long carriage bolts, washers and lock nuts. (See Figure 2.)

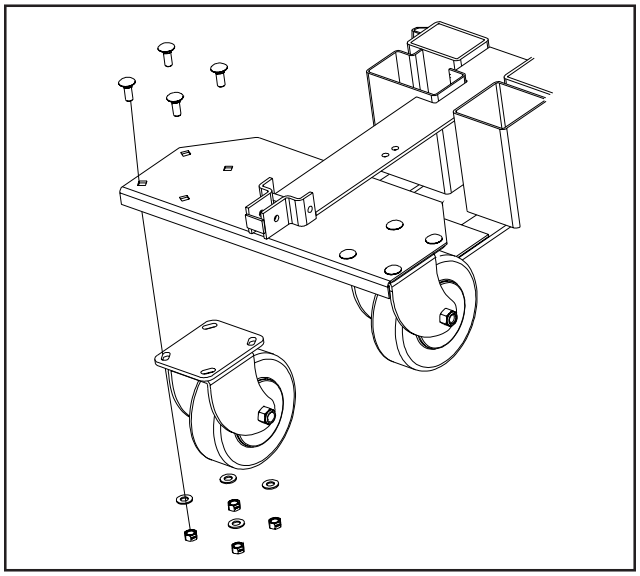


FIGURE 2

3. Attach rear wheel, Part # 5053, to Kaddy frame using: 5/8-16 x 4" long hex head cap screws, washers and jam nuts. Insert hex head cap screw into wheel. Screw on hex jam nut until finger tight. Add flat washer to screw. Insert wheel assembly into large hole in handle bracket. Add another flat washer and hex jam nut next to wheel and tighten. (See Figure 3.)

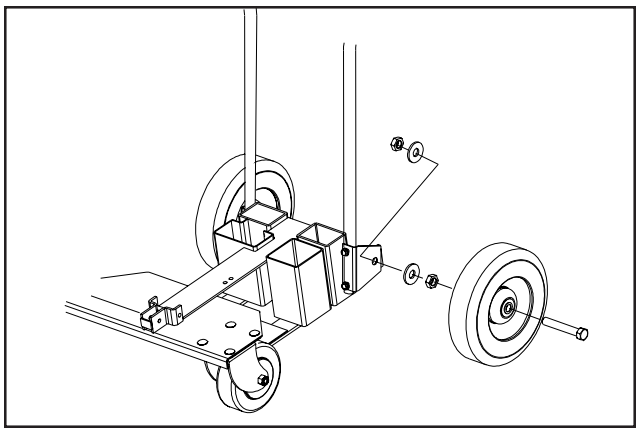


FIGURE 3

4. Attach jack support, Part # 2709, to Kaddy frame using: 5/16-18NC x 1" long hex head cap screws, washers and lock nuts. Make sure top opening of support is pointed to front. (See Figure 4.)

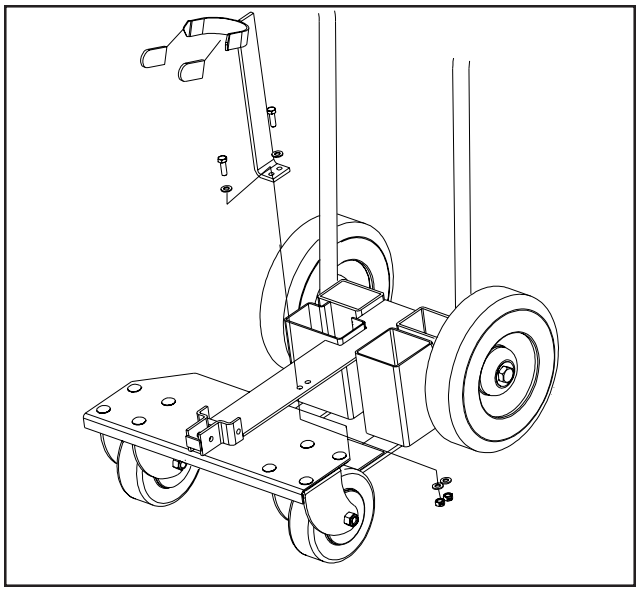


FIGURE 4

KAYDEE KADDY ASSEMBLY

5. Attach tow handle, Part # 2719, to Kaddy frame using: 5/16-18NC x 1 3/4" long hex head cap screw, washers and lock nut. (See Figure 5.)

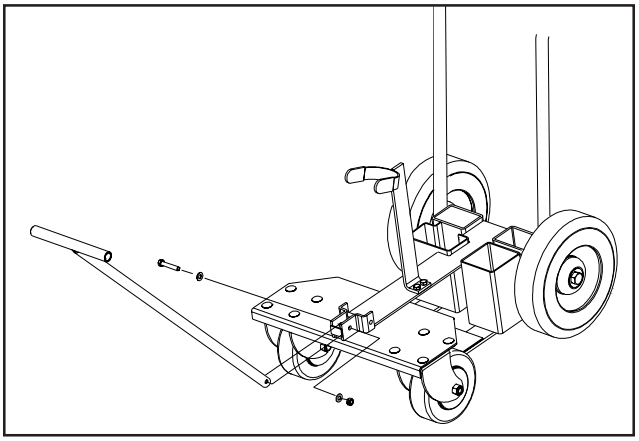
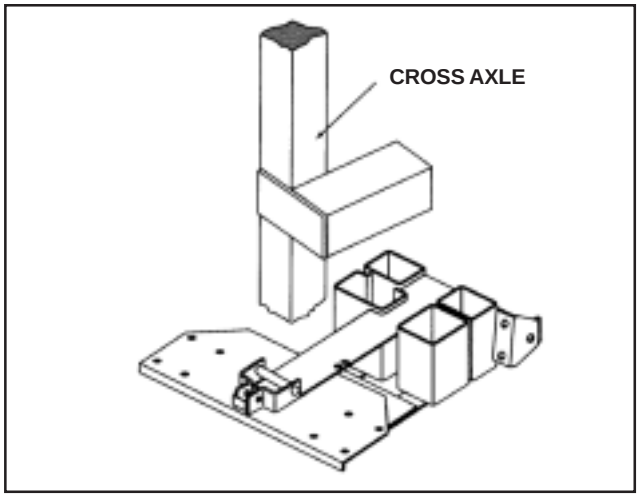


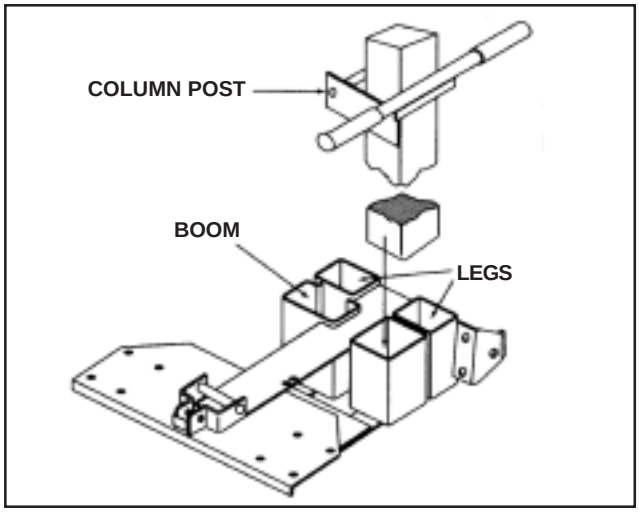
FIGURE 5

STORING LIFT

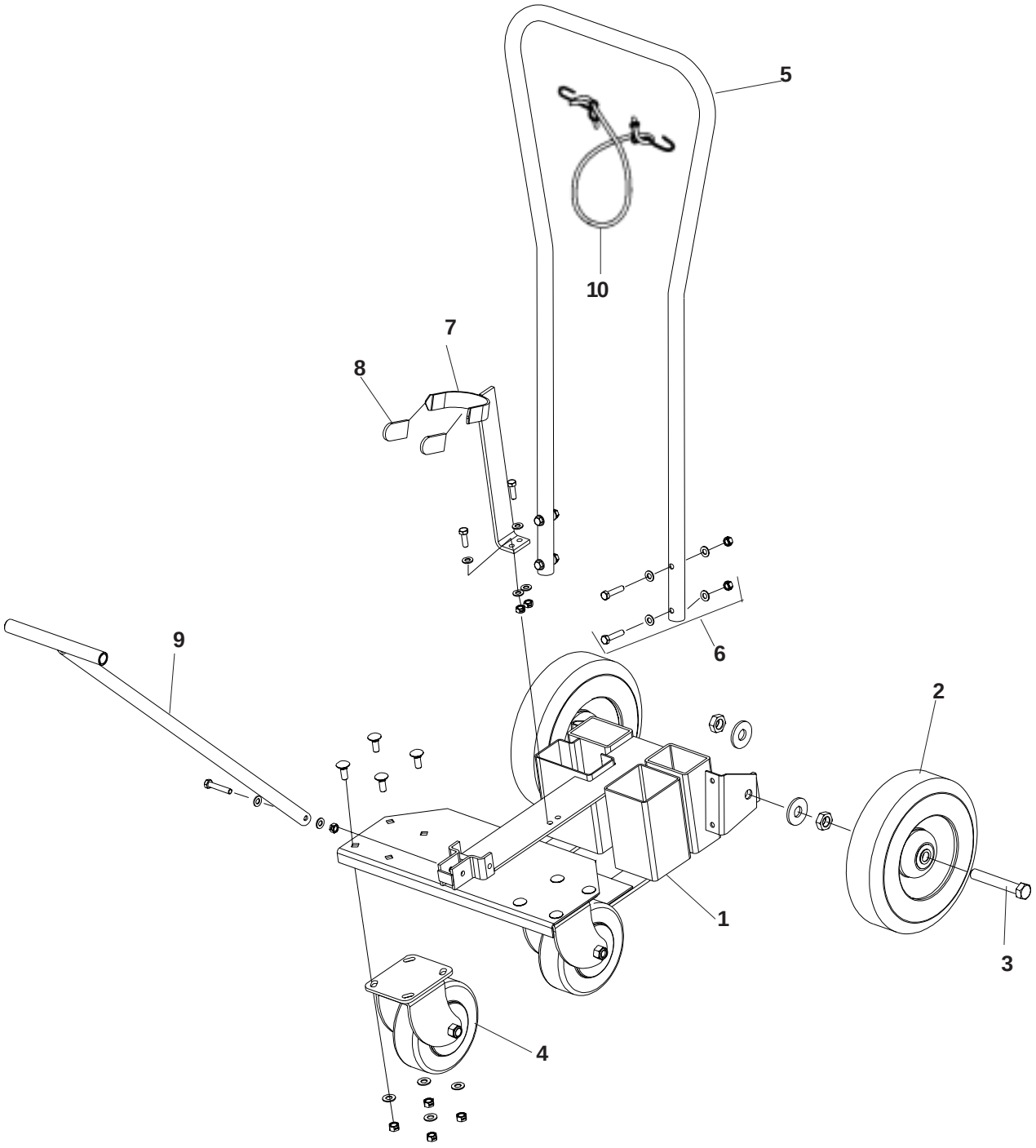
It is easier to load if you put the pieces in the Kaddy in the following order:

1. Start with the cross-axle. Be sure the boot for the column post is put to the rear of the Kaddy.
2. Put the two legs in the rear sockets.
3. Put the boom in the socket on the right side.
4. Put the column post in the left socket. Be sure that the maneuvering handle is on the outside and lined up front to rear.
5. Put the jack on the front mounting retainer and lean it back into the support cradle.
6. To hold the pieces together, hook one end of rubber rope on the rear handle and bend the hook so that it won't come loose. Pull the other end around the pieces and hook on the other side of the rear handle.





PARTS



PARTS

ITEM	PART NO.	QTY	DESCRIPTION
1	2701	1	FRAME, KADDY
2	5053	2	WHEEL, 10” X 2.75” SEMI-PNEUMATIC, BALL BEARING
3	5054	2	BOLT KIT, WHEEL 5/8” X 4” BOLT W/ NUTS & WASHERS
4	2737	2	CASTER, 6” W/BOLT KIT
5	2718	1	HANDLE, REAR
6	2723	1	BOLT KIT, REAR HANDLE, 4 EACH 5/16” X 1 1/2”
			W/WASHERS & LOCK NUTS
7	2738	1	SUPPORT, JACK W/BOLT KIT
8	5009	2	PLASTIC CAP
9	2719	1	HANDLE, PULL W/BOLT WASHER & LOCK NUT
10	2734	1	STRAP, RUBBER W/HOOKS
	0732		PAINT, BLUE 12.5 OZ. SPRAY CAN
	0729		PAINT, BLUE 1 QT. CAN
	8514	1	DECAL KIT, BLUEBIRD KAYDEE KADDY



P.O. Box 8
Beatrice, Nebraska 68310