

CL CLIPPER OWNER'S MANUAL

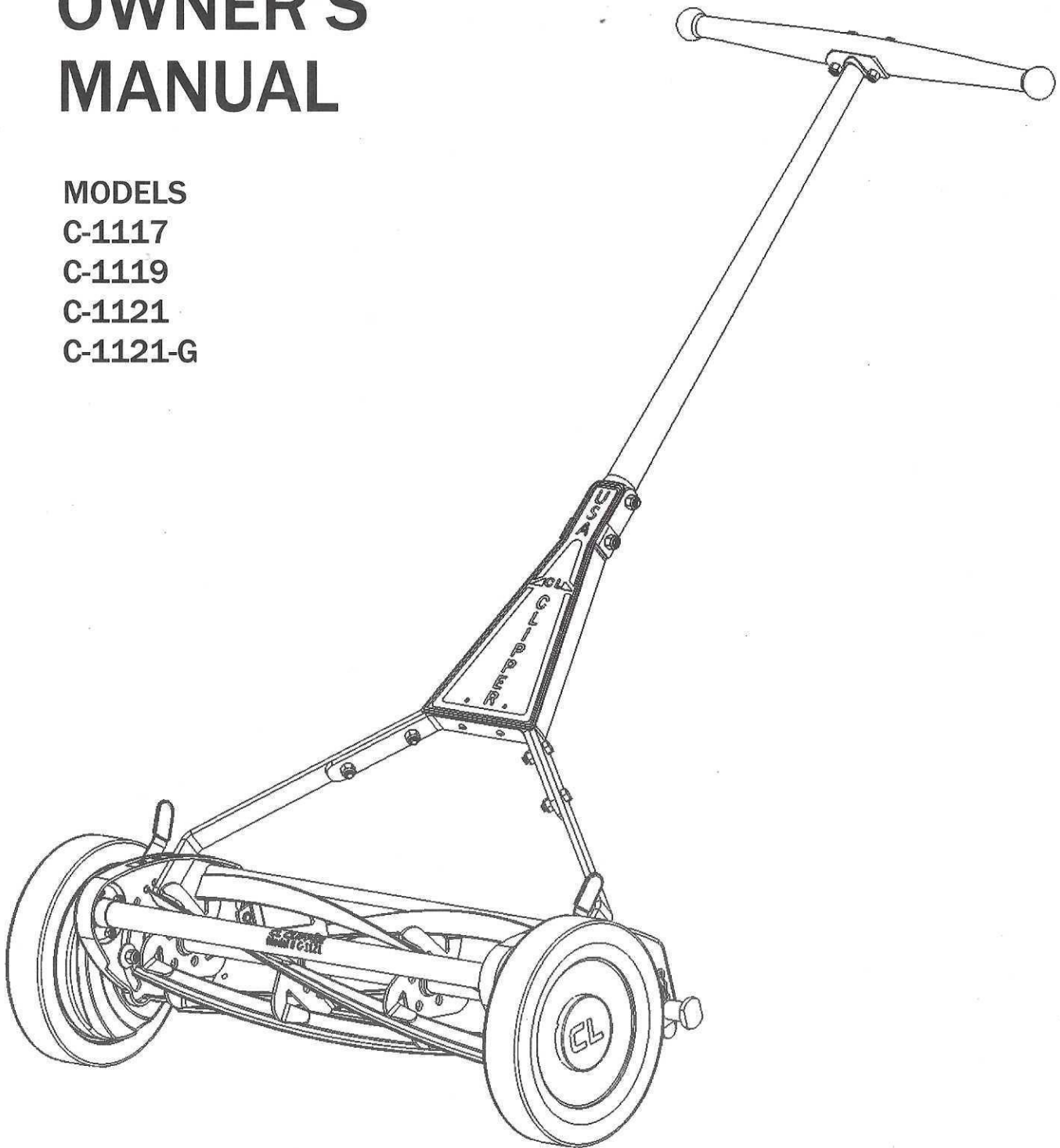
MODELS

C-1117

C-1119

C-1121

C-1121-G



IMPORTANT
Read instructions
for safe operation

RULES FOR SAFE OPERATION

Read the contents of this manual thoroughly and be familiar with the proper use of this mower.

Only persons acquainted with these safely guidelines should operate mower. Never allow children to operate.

Keep mower operation clear of all persons and pets.

Inspect the area where the mower is to be used and clear of debris that could be picked up and thrown by the mower.

Wear substantial footwear when operating the mower.

Mow under safe, well-lit conditions. Never operate in wet grass and be sure of your footing.

Make sure all the moving parts have stopped moving before repairing, inspecting, or unclogging the mower.

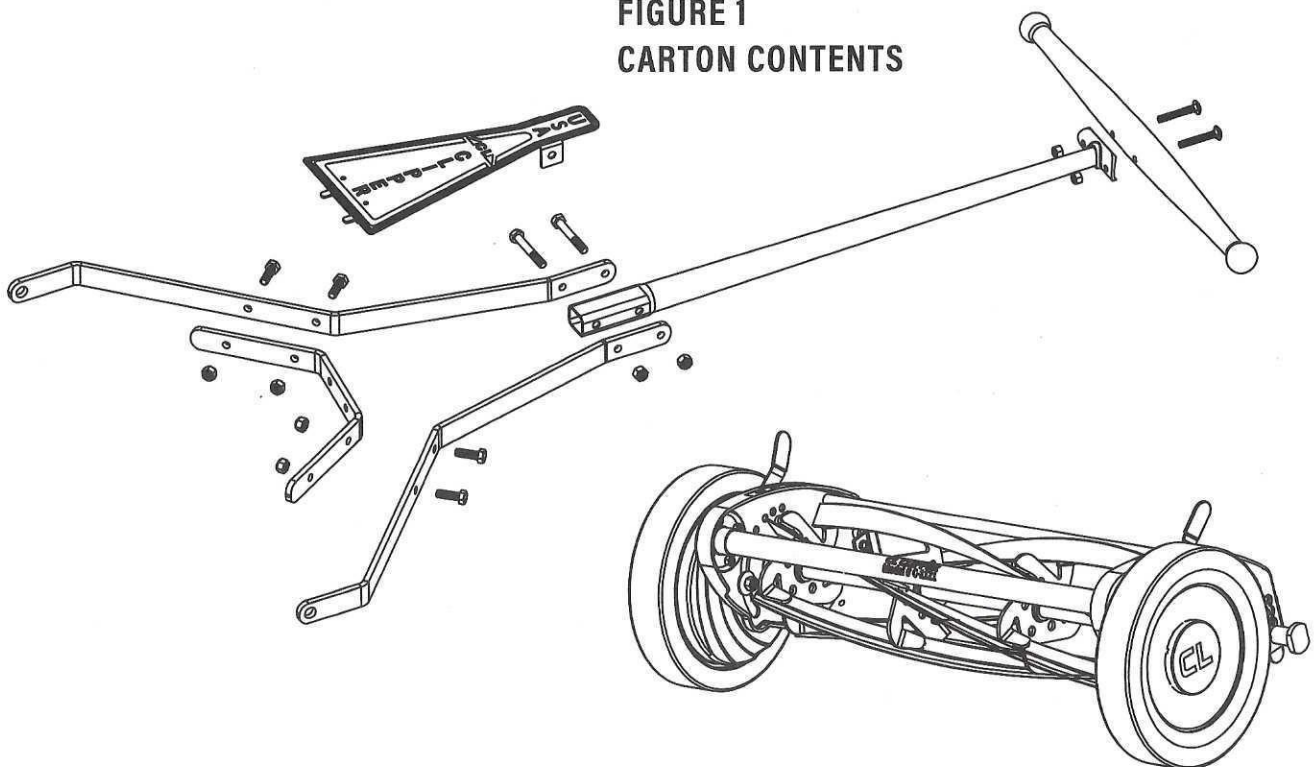
Do not mow up and down slopes and exercise caution when changing directions.

Keep all parts tightly secured to ensure the safe working condition of the mower.

To extend cutting life of blade, keep from rusting. Store on wooden floor or dry place while not in use.

Bedknife needs to be adjusted a few times per mowing season.

**FIGURE 1
CARTON CONTENTS**



ASSEMBLY INSTRUCTIONS

TOOLS REQUIRED FOR ASSEMBLY

- 1 1/2" open end wrench or socket
- 1 7/16" wrench
- 1 Pair of Pliers

STEP 1 - Arrange contents of carton as shown in Figure 1.

STEP 2 - Insert the bottom end on the lower handle strap (11) through the slot on the side plate (12) and onto the mounting pin. Repeat for the other lower handle strap. See Figure 2.

STEP 3 - Attach brace (10) with 5/16 x 1 bolts. Hand tighten. See Figure 3.

STEP 4 - Attach upper handle tube (4) to lower handle straps with 5/16 x 2-1/4 bolt. Top bolt only. Hand tighten. See Figure 4.

STEP 5 - Attach upper handle tube (4) to wooden handle (1) with 1/4 x 1-3/4 carriage bolts.

STEP 6 - Place cover panel (5) in position over handle. Slide two prongs into the holes in brace.

STEP 7 - Slide tabs of the cover panel over the handle. Now insert the other 5/16 x 2-1/4 bolt.

STEP 8 - Tighten all bolts.

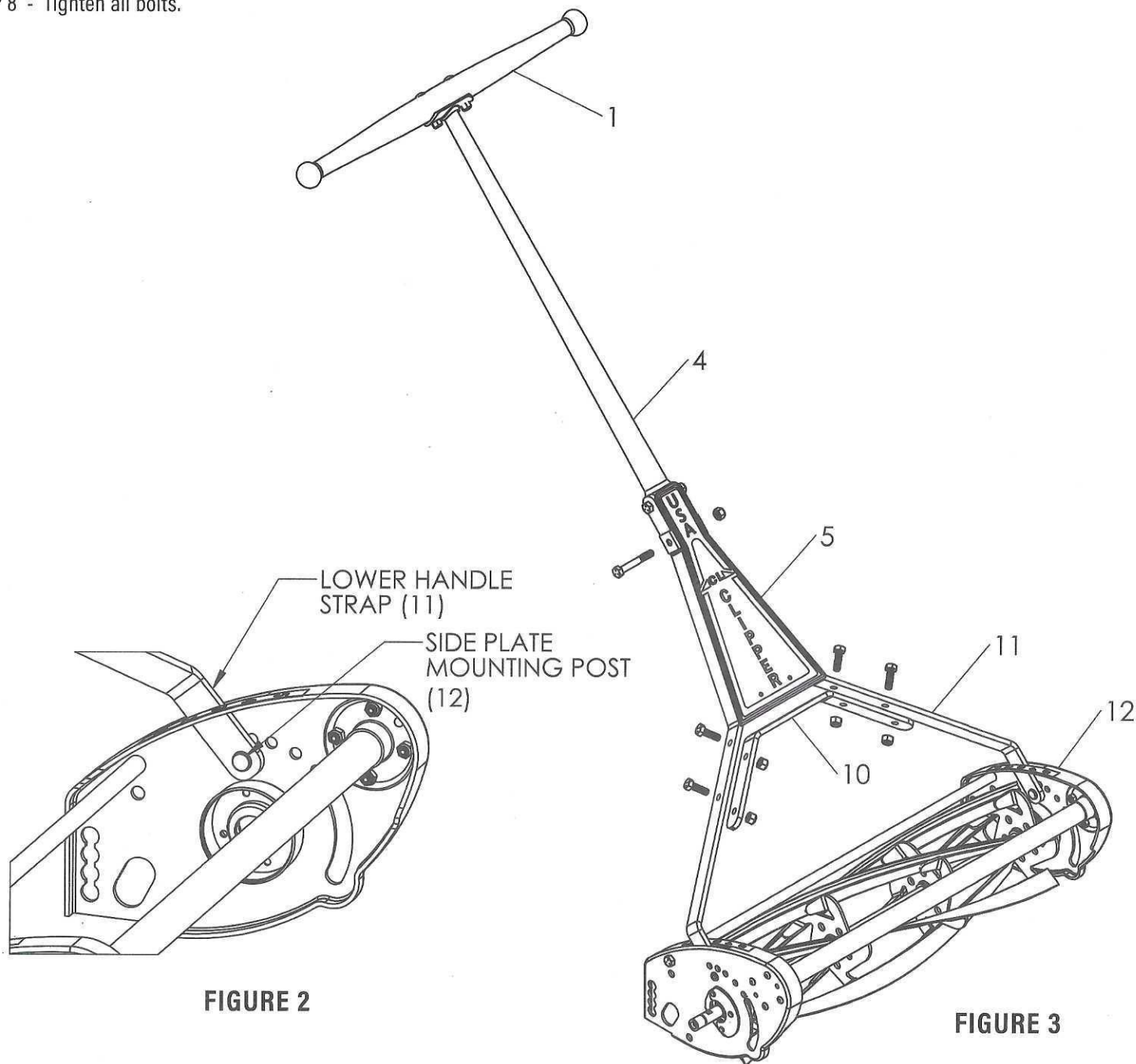


FIGURE 2

FIGURE 3

ADJUSTMENTS

CUTTING HEIGHT ADJUSTMENT

There is a lever (32) with 5 positions on each wheel. To move the lever, press them one at a time towards the outside of the mower and move to the desired position. Make sure each lever is in the same position. See Figure 4A.

Note: Loosen the axle nut (40) if the mower is new and on gang mowers to adjust height. See Figure 4B.

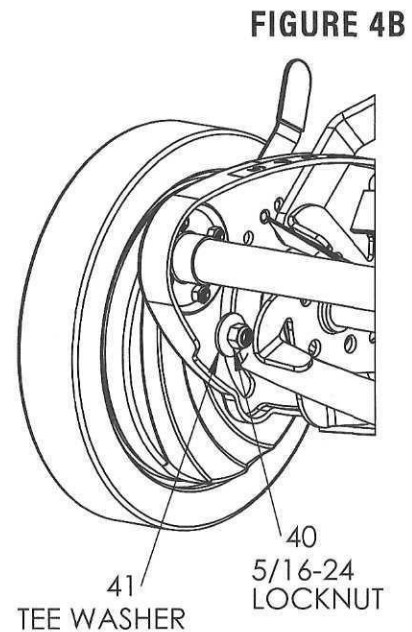
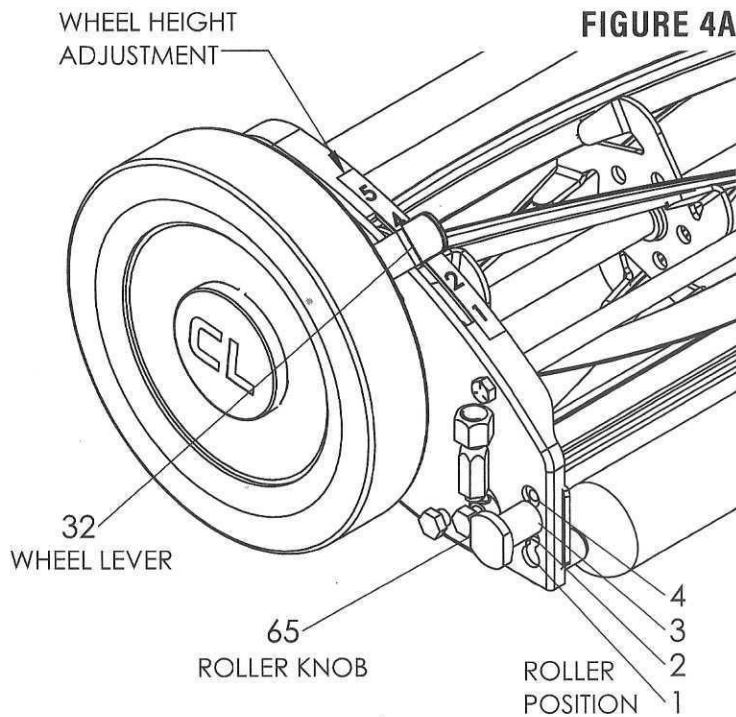
*** IMPORTANT NOTE:** the wheel height and roller position must be the same on both sides for proper cut

NOTE

It is important to select a combination of wheel and roller position from this table to assure proper mower operation.

CUTTING HEIGHT	WHEEL LEVER	ROLLER POSITION
2½	5	1
2¾	5	2
2	4	1
1⅞	4	2
1⅝	4	3
1⅜	3	2
1¼	3	3
1	2	2

*** Use top hole in Roller Bracket.**



BEDKNIFE ADJUSTMENT

To increase clearance between the bedknife and reel blades, turn the adjustment long nut (54) clockwise 1/8 turn. Adjust each side accordingly. Turn counter-clockwise to decrease clearance. A 0.001" clearance is desired. See Figure 5A.

FIGURE 5A

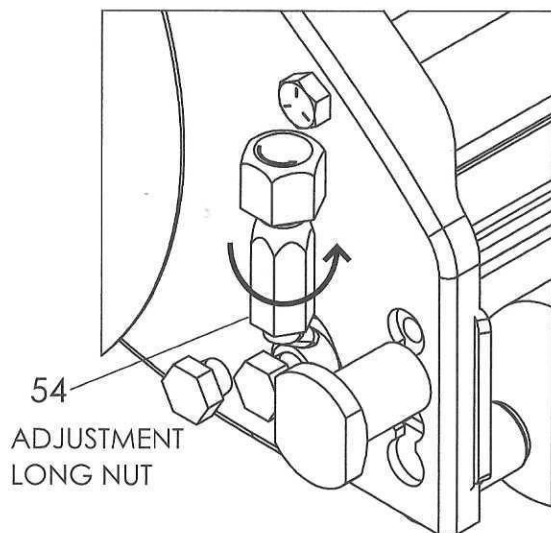
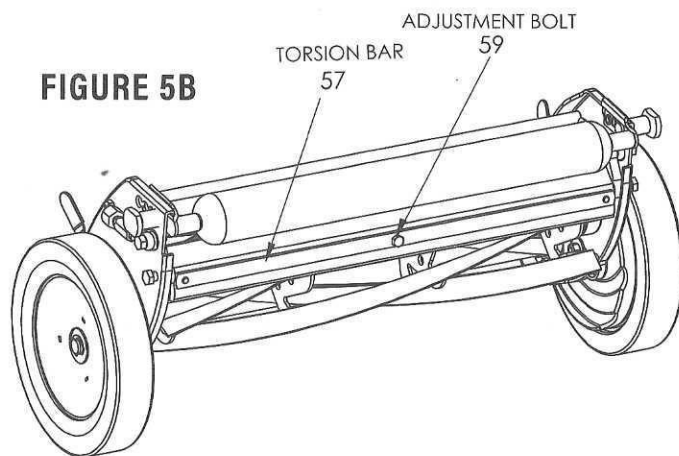


FIGURE 5B



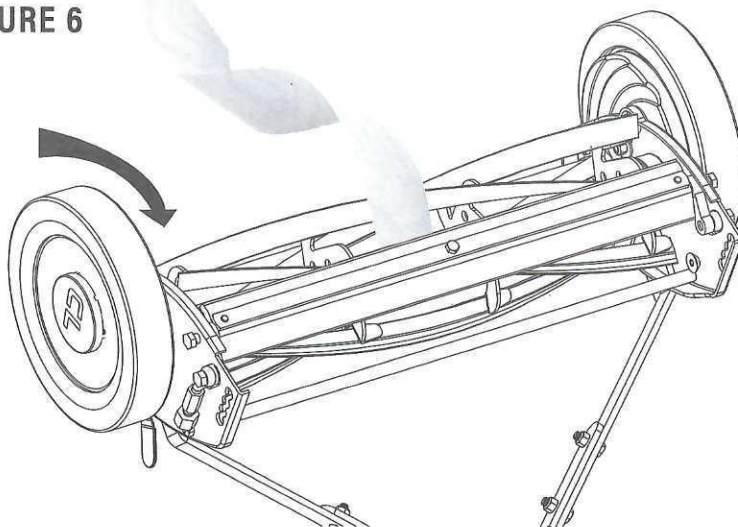
HOW TO SET TORSION BAR

The torsion bar (57) is on the bottom of the bedknife. Adjust torsion bar if mower is not cutting at the center of the reel. Tilt mower forward to access torsion bar (Figure 5B). Turn center bolt (59) clockwise a little at a time until the reel contacts the bedknife. If reel contacts bedknife too hard, re-adjust the adjustable long nut.

NOTE

- If the bedknife contacts the blades too much, you will lose the easy push and noiseless features of the mower.
- Tilt the mower forward (Figure 6). Turn reel slowly by hand. Test with 1" wide paper strip. Hold the paper horizontally to see which side has the most clearance.
- Tilt mower in mowing position (Figure 5A). Turn adjustable long nut (54) on the side that has the most clearance in a counter-clockwise direction. See arrow in Figure 5A (arrow is stamped on the trunion top).
- Tilt the mower forward, test again with paper. Repeat until clearance is equal on both ends, about 2" in from the ends.

FIGURE 6



ADJUSTMENTS

LUBRICATION

The wheels should be lubricated whenever the blade is sharpened, or once a season. See Figure 7.

- Remove hubcap (47).
- Remove e-clip (46) with screwdriver.
- Lift off wheel.
- If rust is present, clean with solvent.
- Coat axle (42) with heavy oil.
- Take off snap ring (27) with snap ring pliers and remove pinion gear (26, 29) and pawl (25). See Figure 7.
- Apply heavy oil to the pawl and the inside of the pinion gear.
- Apply heavy oil to gear teeth on pinion gear and on inside of wheel (44) and to reel shaft (20).

Lightly lubricate points indicated in Figure 8 on roller and between end plates. This will ensure smooth mechanical operation. Never use heavy grease in mower gears or wheels.

FIGURE 7

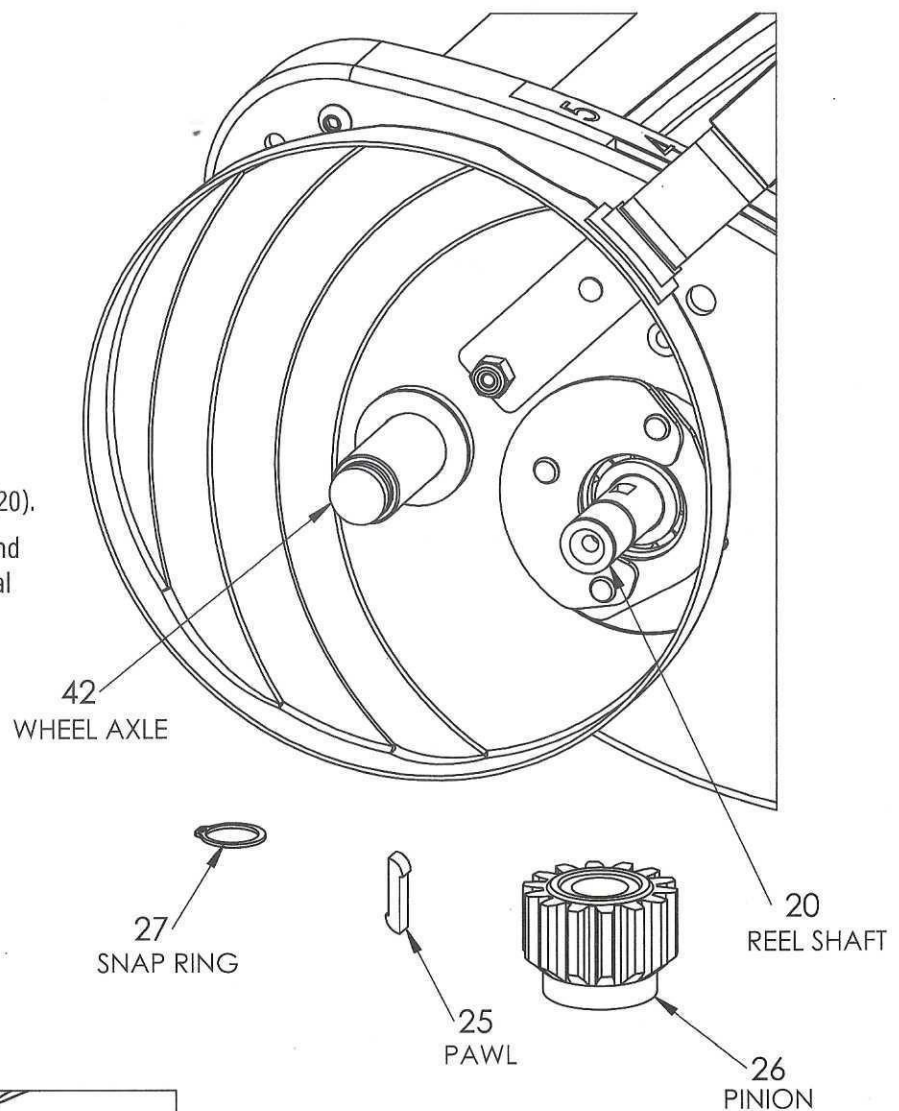
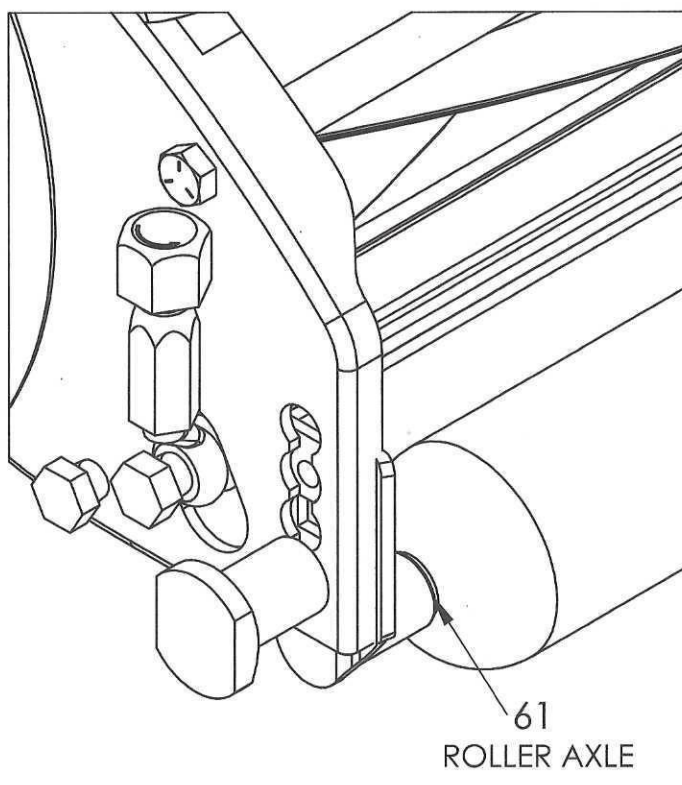


FIGURE 8



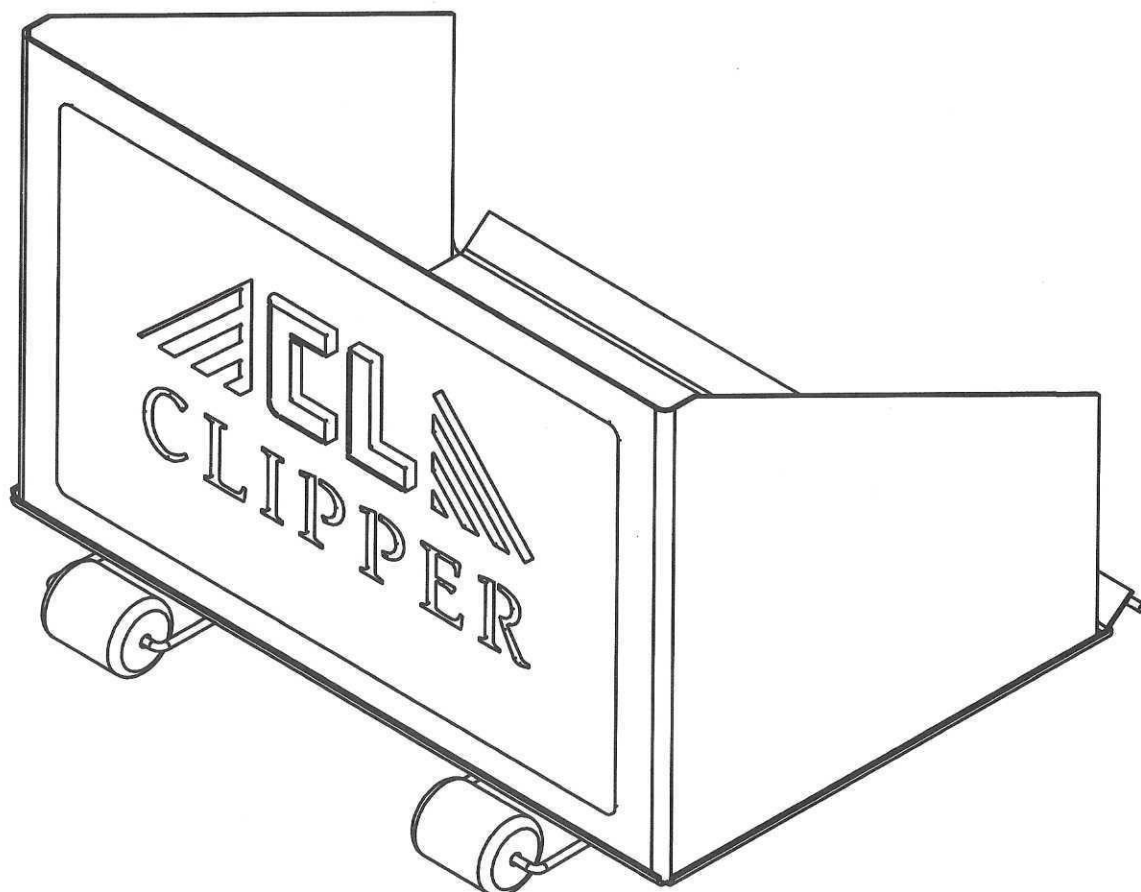
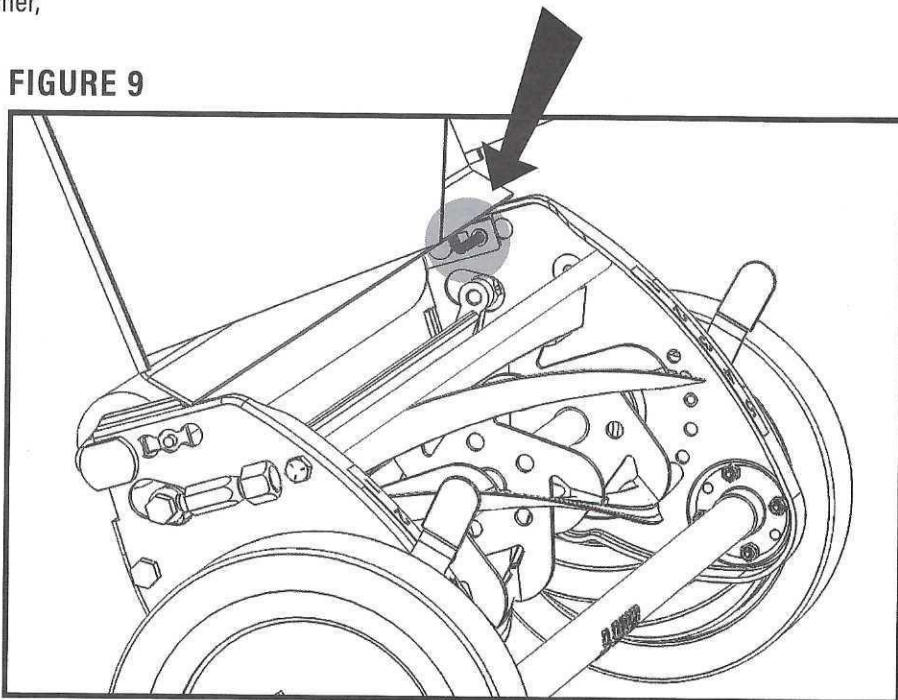
ACCESSORIES

GRASS CATCHER (COLLAPSIBLE)

Attachment - Insert spring loaded hooks of the grass catcher frame into the holes in the roller adjustment bracket of the mower. See Figure 9.

For ease of operation and longevity of grass catcher, occasionally oil the roller axles.

FIGURE 9



SERVICING INFORMATION

DISASSEMBLY - Remove handle for easily handling of mower. Then remove hubcap (47), e-clip (46), and washer (45). This permits removal of wheels (44).

Next remove snap ring (27) from reel shaft (20) using snap ring pliers. Pull off pinion gear (26,29) and remove pawl (25). Take off gear housing assembly (30,31) by removing locknut (40) and tee washer (41).

Remove roller (60) and brackets (62,63) from frame by removing roller knob (65) and carriage bolt (64).

Bedknife (50) can be removed by bedknife bolts (51,52). Bedknife bolt (52) is left-hand thread. Also remove long bedknife bolts (56).

For sharpening service, we do not recommend further disassembly of the reel or frame. Bearings and reel blades are designed to last the life of the mower. Tolerances and labor required to replace such parts generally make it economical to recommend the owner purchase of a more recent model.

TO CLEAN - Use brush to help remove old clippings and other debris. Wire grinding wheel may be of help in cleaning bedknife.

SHARPEN BEDKNIFE - Use bedknife bolts (51,52). Remember one bolt (52) has left-hand thread. Replace gear housing assembly. Replace roller and roller brackets.

Mower can now be installed on a lathe type grinder and the reel sharpened.

SHARPEN REEL ON LATHE TYPE GRINDER - Double check to be certain that reel bearings are lubricated before grinding reel. When the reel sparks all the way across, check to see if reel is sharpened properly on all blades. If not, continue to grind until all blades are ground from end to end.

IF OTHER THAN LATHE TYPE GRINDER IS USED - It may be necessary to eliminate some of the above assembly operations prior to sharpening. A maximum clearance angle of 5 degrees on blades is acceptable. The cutting principle eliminates the need for any greater angle.

LAP REEL AND BEDKNIFE - Adjust mower to lowest cutting height and place on lapping stand. With lapping stand running, adjust mower so it will cut paper when inserting from rear of mower. Avoid excessive pressure between reel and bedknife. Coat reel blades with lapping compound and lap mower until quiet. Remove from lapping stand and wipe excess compound off bedknife and reel blades. Use fine file lightly on front of bedknife to remove any burr. A burr on the bedknife can reduce the quality of the cut. Leaving excess lapping compound on bedknife or reel blades makes it difficult to adjust for silent operation.

Lubricate axle, gears and wheels with gear oil and assemble. Make final adjustments (see bedknife adjustment instructions) and reassemble handle to mower. Lubricate moving parts of height adjustment linkage with machine oil. Never use grease.

GANG MOWER

HITCHING

- Pull pin on stabilizer turnbuckle to release shafts.
- Raise shafts and hitch horse to mower.
- Ensure traces and backholds are set properly to prevent horse's feet from hitting singletree.
- Adjust stabilizer turnbuckle to align hole and re-insert pin.
- Raise mower stand and insert pin.
- Adjust stabilizer turnbuckle until platform is level.
- Reverse procedure when unhitching.
- Engage mower by moving lever up and forward.

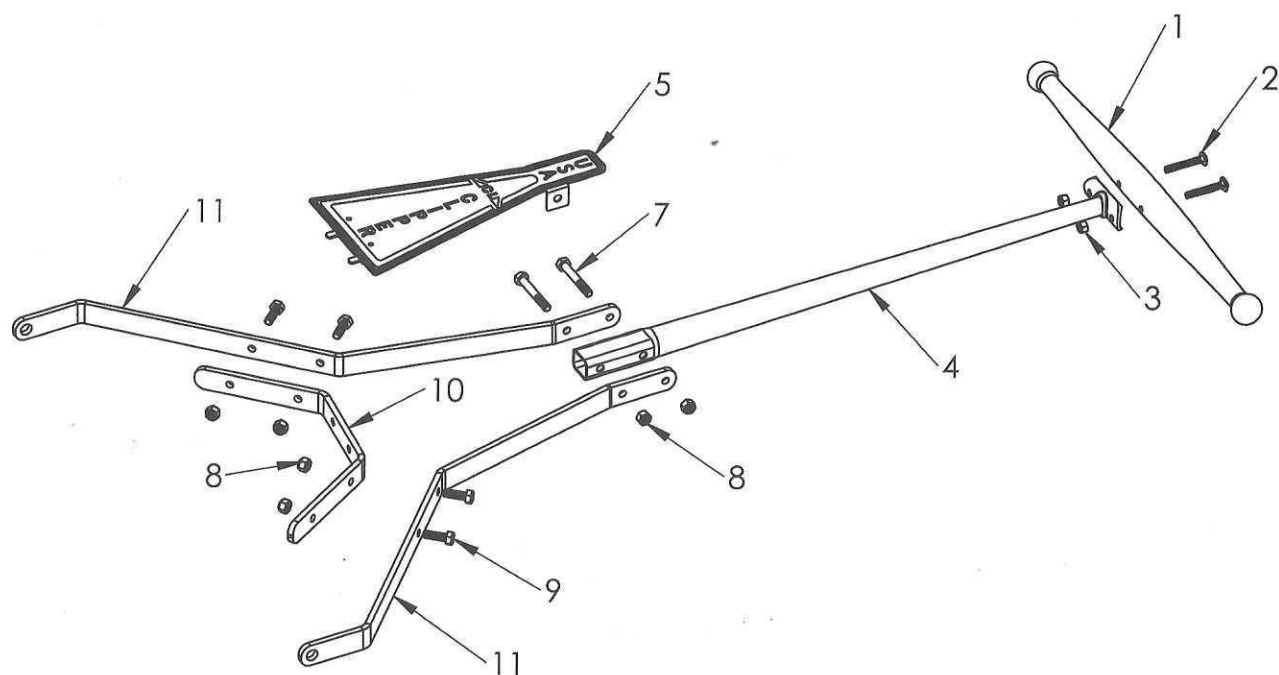
SAFE OPERATION PROCEDURES

- No riders on platform except driver.
- Always keep both feet on platform.
- Use only safe horses.
- Never mow with mower stand down.
- Never operate without proper training.
- Always lock steering to transport.

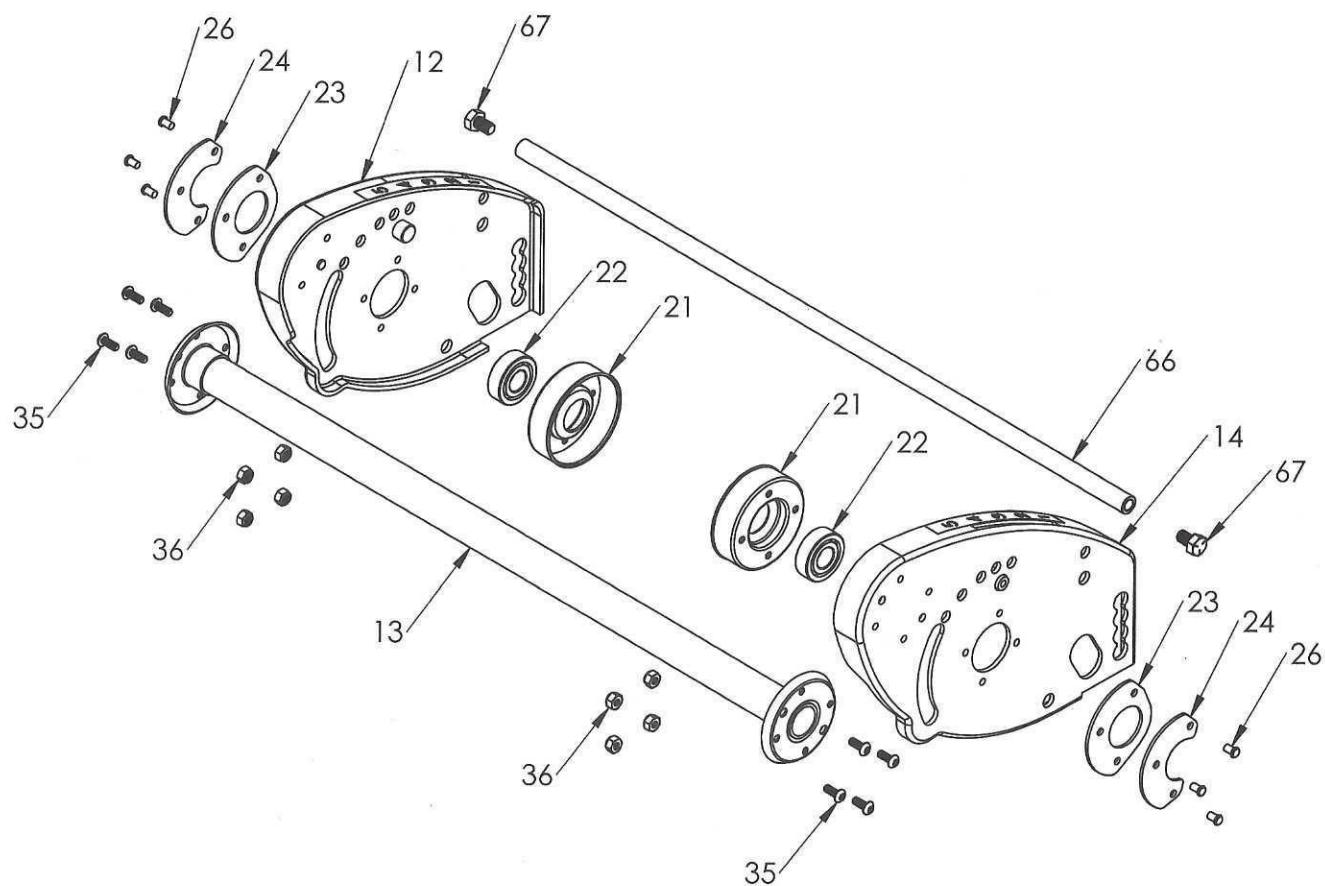
Always store mower with reels raised and stand down to prevent rust on blades.



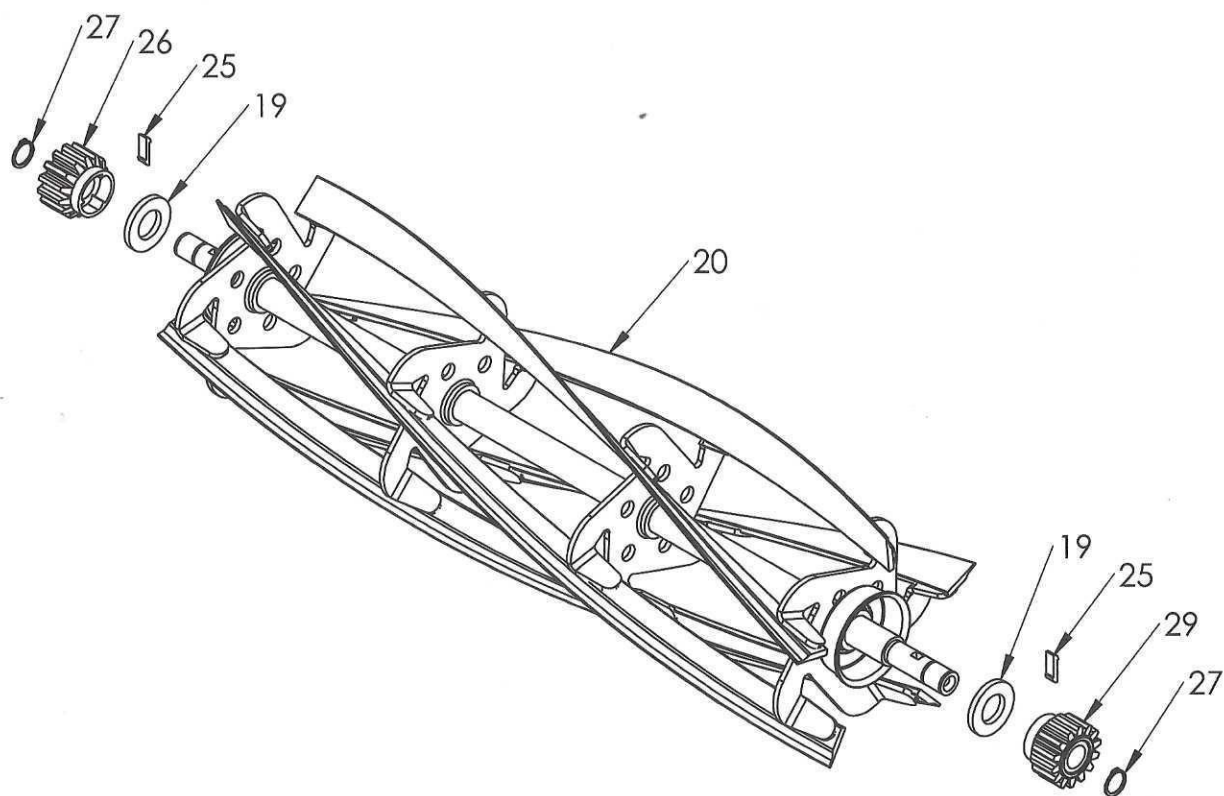
HANDLE ASSEMBLY



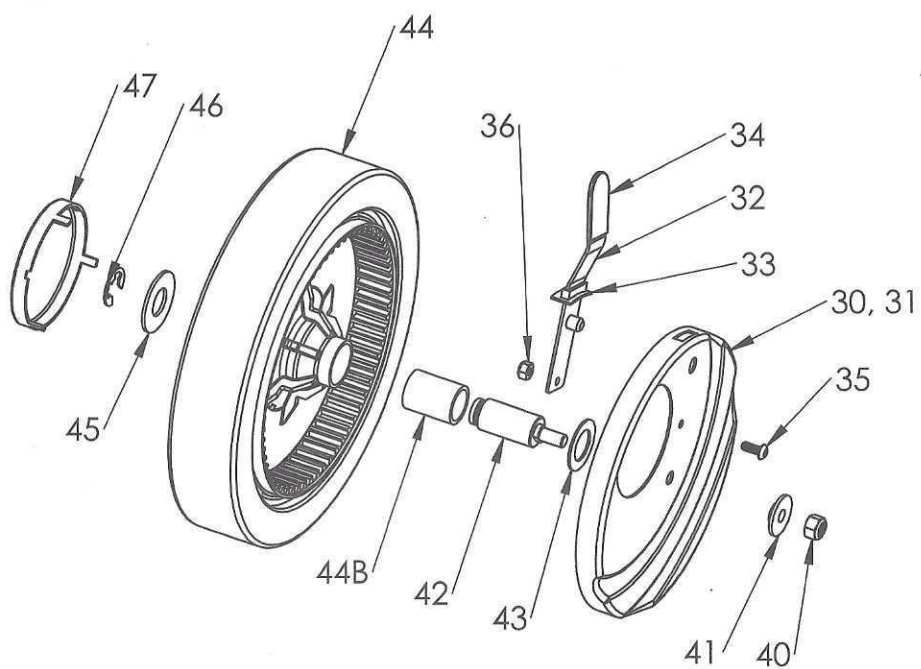
FRAME ASSEMBLY



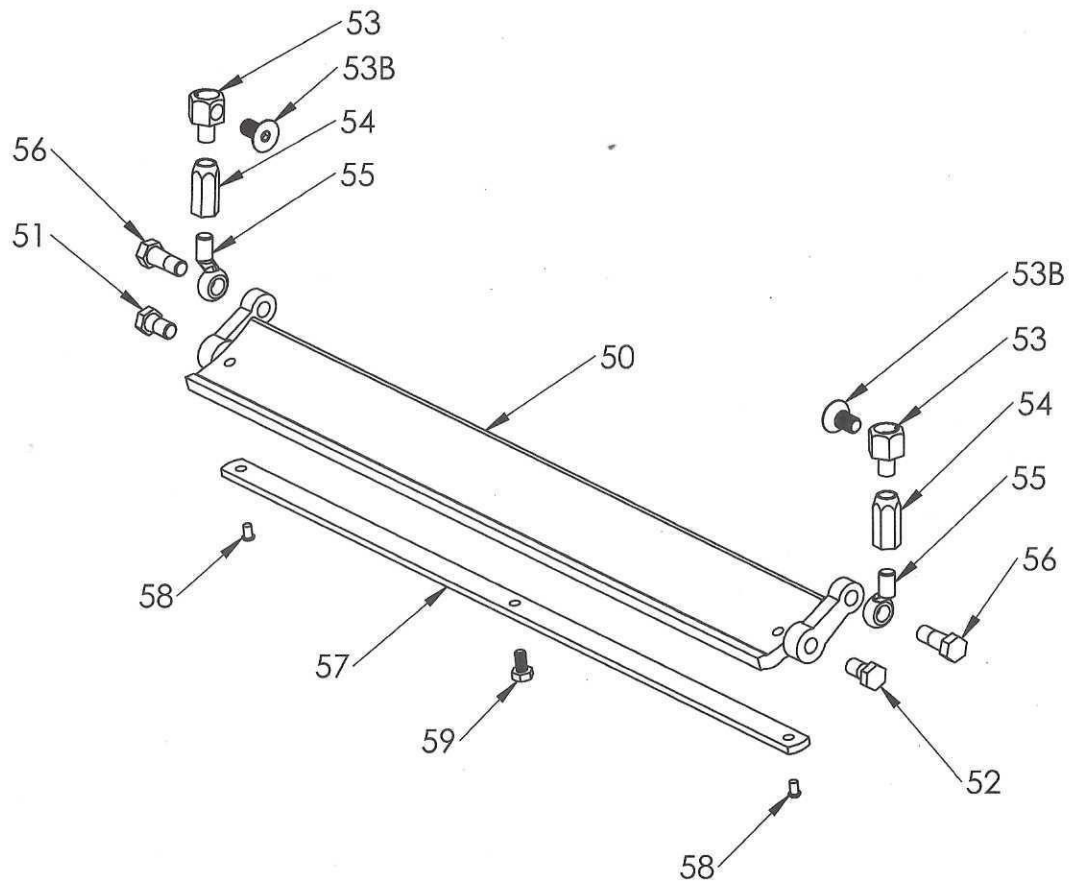
REEL ASSEMBLY



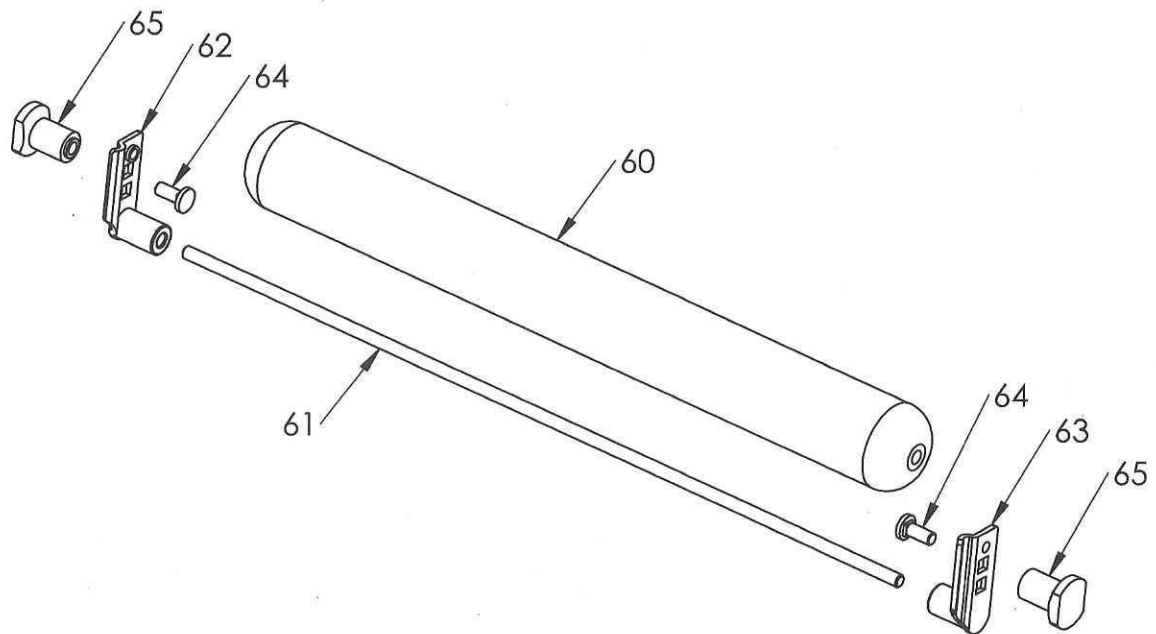
WHEEL ASSEMBLY



BEDKNIFE ASSEMBLY



ROLLER ASSEMBLY



REPAIR PARTS FOR CL CLIPPER

REF #	PART #	QTY	DESCRIPTION
1	CL001	1	Wooden Handle
2	CL002	2	1/4 x 1-3/4 carriage bolt
3	CL003	2	1/4-20 locknut
4	CL004	1	Upper Handle Tube
5	CL005	1	Cover Panel
7	CL007	2	5/16 x 2-1/4 hex head bolt
8	CL008	6	5/16-18 locknut
9	CL009	4	5/16 x 1 hex head bolt
10	CL010	1	Brace ★
11	CL011	2	Handle Strap, Lower ★
12	CL012	1	Side Plate, RH
13	CL013	1	Space Tube ★
14	CL014	1	Side Plate, LH
16	CL016	1	Handle, complete ★
19	CL019	2	Felt Washer ★
20	CL020	1	Reel Assembly ★
21	CL021	2	Bearing Retainer
22	CL022	2	Bearing
23	CL023	2	Retainer
24	CL024	2	Pinion Housing
25	CL025	2	Pawl
26	CL026	1	Pinion, RH
27	CL027	2	Retaining Ring
28	CL028	6	3/16 Rivet
29	CL029	1	Pinion, LH
30	CL030	1	Gear Housing Asm, RH
31	CL031	1	Gear Housing Asm, LH
32	CL032	2	Lever
33	CL033	2	Dust Cover
34	CL034	2	Gribs
35	CL035	10	#10-24 x 1/2 round hd bolt
36	CL036	10	#10-24 locknut
39	CL039	2	Gang Tee Washer
40	CL040	2	5/16-24 locknut
41	CL041	2	Tee Washer
42	CL042	2	Wheel Axle
43	CL043	2	3/4 washer behind wheel
44	CL044	2	Wheel Assembly
44B	CL044B	2	Wheel Bushing
45	CL045	2	washer, outside
46	CL046	2	e-clip
47	CL047	2	Hub Cap

REF #	PART #	QTY	DESCRIPTION
50	CL050	1	Bedknife ★
51	CL051	1	Bedknife Bolt, RH
52	CL052	1	Bedknife Bolt, LH
53	CL053	2	Trunion Block
53B	CL053B	2	3/8-16 x 3/4 Flat Hd Bolt
54	CL054	2	Long Nut
55	CL055	2	Eye Bolt
56	CL056	2	Bedknife Bolt Long
57	CL057	1	Torsion Bar ★
58	CL058	2	3/16 x 1 rivet
59	CL059	1	1/4 x 3/8 HHS bolt
60	CL060	1	Roller ★
60-G	CL060-G	1	Gang Roller
61	CL061	1	Roller Shaft ★
62	CL062	1	Roller Bracket, RH
63	CL063	1	Roller Bracket, LH
64	CL064	2	5/16 x 3/4 special carr. bolt
65	CL065	2	Roller Knob
66	CL066	1	Kick Bar ★
67	CL067	2	5/16 x 1/2 machine bolt

TO ORDER PARTS, CONTACT YOUR DEALER



Cottagecraftworks.com

★ When ordering please specify 17", 19", or 21".