



SC181H Owner's Manual



Sod Cutter Owner's Manual

SC181H, SC181HG
Beginning Serial #: 110116001

Original Instructions

IMPORTANT- READ CAREFULLY BEFORE USE AND KEEP FOR FUTURE REFERENCE

About this Manual

Thank you for purchasing a BILLY GOAT® Sod Cutter. Your new machine has been carefully designed and manufactured to provide years of reliable and productive service. This manual provides complete operating and maintenance instructions that will help to maintain your machine in top running order. Read this manual carefully before assembling, operating, or servicing your equipment.

To learn more about our products or locate your nearest distributor, please visit <https://www.billygoat.com>.

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Specifications

SC181H

SC181HG

Engine: HP	5.5 HP (4.1 kw)	5.5 HP (4.1 kw)
Engine: Model	GXV160UH2N1AH	GXV160UH2N1AH
Engine: Type	Honda	Honda
Engine: Fuel Capacity	1.6 qt. (1.5 L)	1.6 qt. (1.5 L)
Engine: Oil Capacity	0.69 qt. (0.65 L)	0.69 qt. (0.65 L)
Total Unit Weight	395 lb. (179 Kg)	395 lb. (179 Kg)
Max. Operating Slope	20°	20°
Overall Length	60" (1524 mm)	60" (1524 mm)
Overall Width	26.5" (673 mm)	26.5" (673 mm)
Overall Height	38.5" (978 mm)	38.5" (978 mm)

Intended Use

This machine may only be utilized for the purpose for which it was designed, i.e. to cut 18in (45.7 cm) wide strips of turf. Make sure that all operators of this equipment are trained in general machine use and safety.

WARNING: During operation the lawn and turf are cut into strips. Should the cutter's wheels skid during use it is advisable to adjust the cutting depth. If this operation does not prevent this occurrence check the state of the terrain. If it is too dry it should be wetted so that the blade encounters a slight resistance, thus making cutting operations easier.

Safety



WARNING

This product can expose you to chemicals including gasoline engine exhaust, which is known to the State of California to cause cancer, and carbon monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Instruction Labels

The labels shown below were installed on your BILLY GOAT® Sod Cutter. If any labels are damaged or missing, replace them before operating this equipment. Item numbers from the Illustrated Parts List and part numbers are provided for convenience in ordering replacement labels. The correct position for each label may be determined by referring to the Figure and Item numbers shown.



Fig. 1
DANGER KEEP HANDS
AND FEET AWAY
P/N 440424

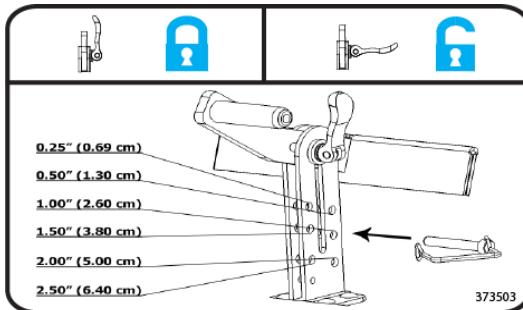


Fig. 2.
HEIGHT ADJUST P/N 373503

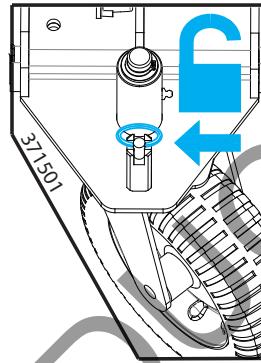


Fig. 3
LABELS CASTER LOCK P/N 371501 & 371504

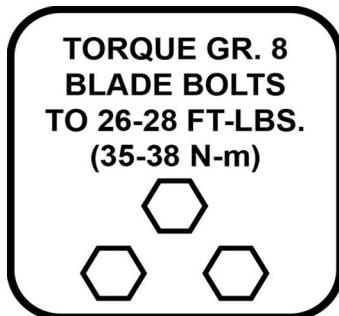


Fig. 4
BLADE ARM P/N 373501



Fig. 5
CONSOLE P/N 373500

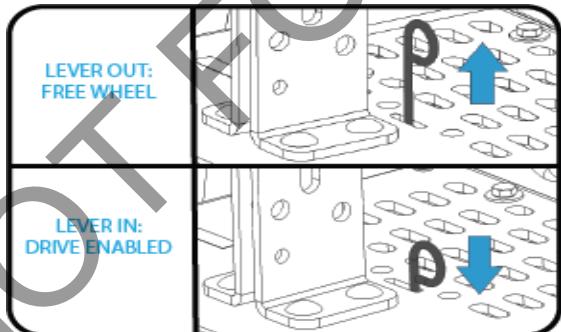


Fig. 6
DRIVE ENABLE P/N 373504

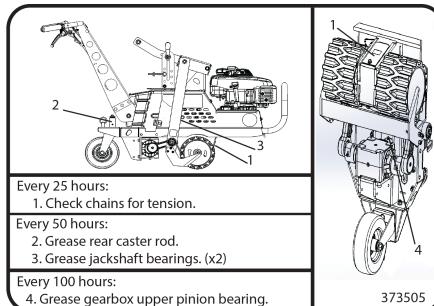


Fig. 7
SERVICE INSTRUCTIONS P/N 373505

Uncrating Instructions

Your Billy Goat Sod Cutter is shipped from the factory in one crate, completely assembled.

Be Sure To:

- Read all safety instructions before assembling unit.
- Take caution when removing the unit from the box.
- Put oil in engine before starting.
- Check grease in bearings per service label on unit. Add grease as required. Use only NLGL Grade 2 Multipurpose Lithium Base Grease in your machine.

To Uncrate Sod Cutter:

- See *Fig. 8*
- Open the crate from back side (handles of machine should be visible).
- Set sod cutter to free wheel as shown in *Fig. 6* (see Instruction Labels on page 4 of manual)
- Roll the sod cutter out of crate from behind

Parts Bag & Literature Assy

Warranty card P/N- 400972

Owner's Manual P/N-373506

General Safety and Warranty manual P/N- 100295

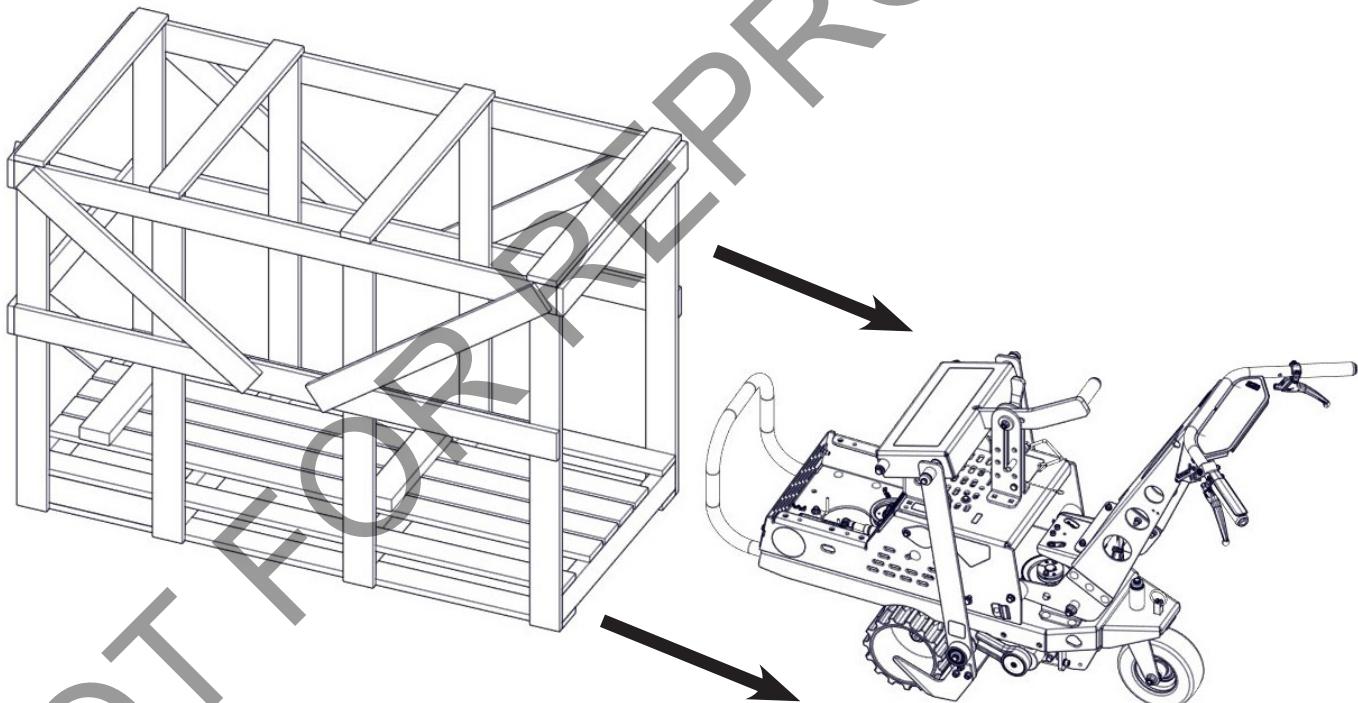


Fig. 8

Operator Controls

Drive Control: The ground drive controls are located on each handlebar of the machine. The right side lever control moves the machine forward at varying speeds depending on how far the operator engages the control. The left side lever control moves the machine in reverse at varying speeds depending on how far the operator engages the control. (While either control is engaged, the opposite control is “locked out”)

(See *Fig. 5*)

Blade Engage Lever: Located on the left hand side of the handle bar. It must be fully engaged when in use.

Blade Height Adjustment: Pre-select cutting depth by inserting depth control pin in the hole which corresponds to the depth desired. A chart is provided on a placard near the blade depth control handle. To set depth while using the machine loosen cam lever clamping the depth control handle in the “up” position. Rock the machine forward to allow the cutting blade to drop to the pre-selected depth. (The depth control handle should rest against the depth control pin). You are now ready to start cutting sod.

(See *Fig. 2*)

Free Wheel Lever: Located on top of machine next to the height adjust. Pull the lever out to free wheel and push it in to allow the drive to be engaged. (See *Fig. 6*)

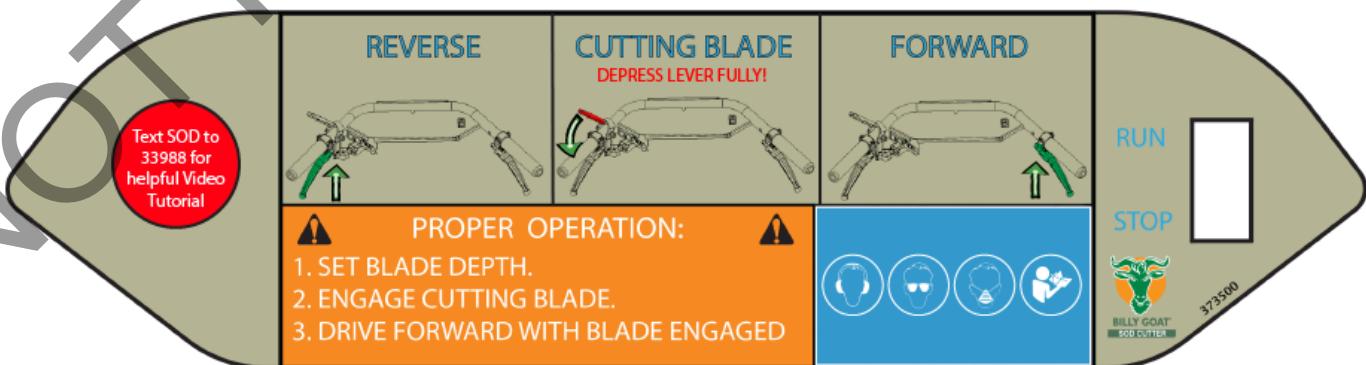
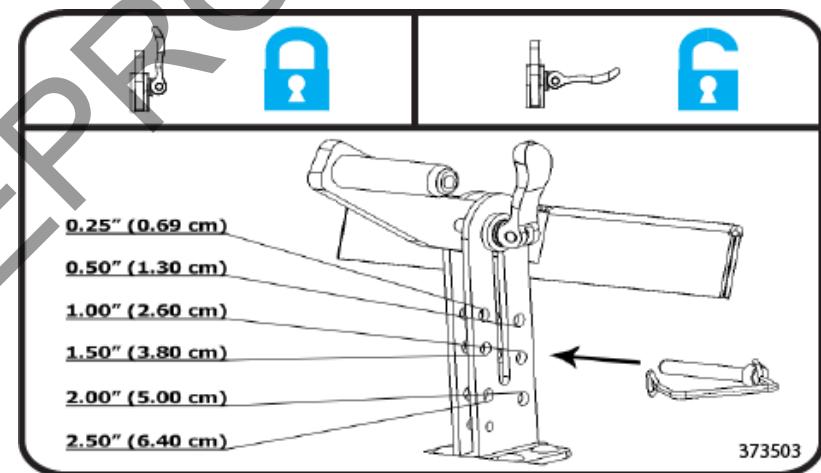
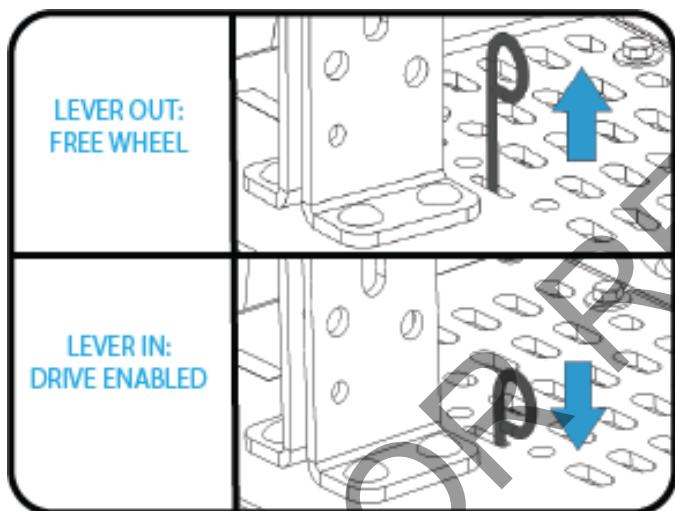


Fig. 5
CONSOLE P/N 373500

Operation

Note: Item numbers in () will be referenced in the Parts Illustration and Parts List on pages 16-34.

Like all mechanical tools, reasonable care must be used when operating machine. Inspect machine work area and machine before operating. Make sure that all operators of this equipment are trained in general machine use and safety.

Starting the Engine

- Put oil in engine before starting!
- See engine manufacturer's instructions for type and amount of oil and gasoline used. Engine must be level when checking and filling oil and gasoline.

Engine Speed: Engine speed is fixed.

Fuel Valve: Move fuel valve to "ON" position.

Choke: Found on engine above fuel "ON" switch.

Pull: Pull the starting rope to start engine.

Forward/Reverse Controls: See page 6 "Operator's Controls".

WARNING: Do not operate if excessive vibration occurs. If excessive vibration occurs, shut engine off immediately and check for damaged or worn blade, loose blade bolts, loose engine or lodged foreign objects.

Handling and Transporting

- Use loading ramps to move unit into truck or trailer for transport.
- Do not operate the blade when loading.
- Never load this machine by hand.

Cutting Operation

The unit performs best when the ground is wet. If possible, sprinkle the work area several hours before starting.

CAUTION: Use extreme care when operating the blade. Inspect the work area for foreign objects that could cause damage to the unit or injure the operator if struck by the blade. Never operate the blade with bystanders in the work area.

General Operation

Position the turf cutter outdoors on sufficiently firm, flat soil. Read the instructions provided by the engine manufacturer in the relative manual and follow them carefully to prevent situations from arising which may endanger either persons or the machine.

TIP: When using the machine for the first time, execute maneuvers on flat ground free of foreign objects to become more comfortable with machine operation. After switching on the engine, follow the instructions given in the previous paragraph. Be mindful of the machine tipping forward (See Figure 9. on the following page).

WARNING: Do not adjust cutting depth while machine is in motion. Choose a cutting depth suitable for the type of terrain the machine is to be used on.

Operation Continued

1. Choose a depth of cut. See instruction label on the unit (see *Fig. 2*). Note: Sod should be cut leaving a minimum amount of dirt (1/4"-3/8") attached to the roots. This minimizes its weight for removal and encourages faster growth when reused.
2. Holding both handles, fully engage the blade clutch lever on the operator's left hand side. Rocking back on the handles, allow the blade to cut into the sod to your chosen depth. Keep the blade clutch lever fully engaged at all times when cutting (see *Fig. 9*).
3. As ground conditions allow, increase/decrease the ground speed by squeezing the drive lever more (increased speed) or less (slower speed). If the engine RPM drops significantly reduce forward speed until the engine comes back up to speed.
4. When you reach the end of the strip you are cutting, release both the clutch lever and the speed control until the unit stops. Using the blade depth adjustment handle raise the blade to the maximum height possible and lock it in place.
5. Fully engage both blade drive and forward ground drive levers and the unit will drive forward and complete the cut of the strip.
6. Release the blade lever and continue to drive the unit forward into position for the next cut, repeat the process above as required.

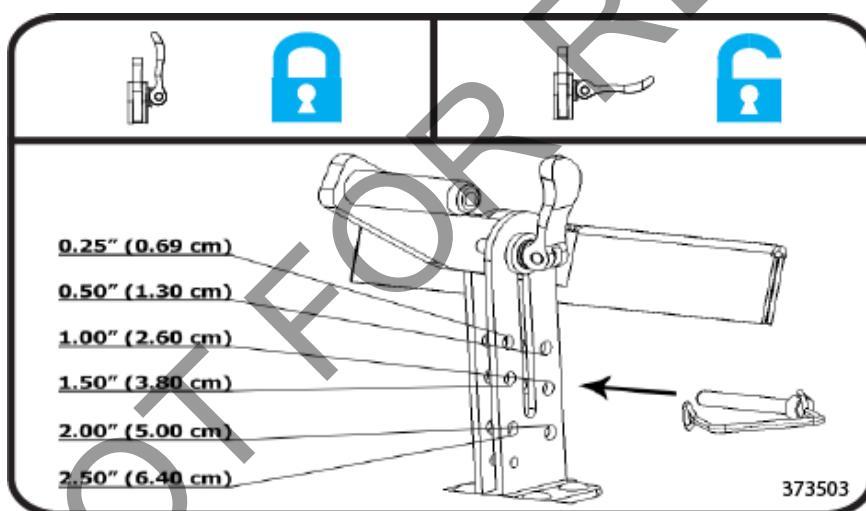


Fig. 2.
HEIGHT ADJUST P/N 373503

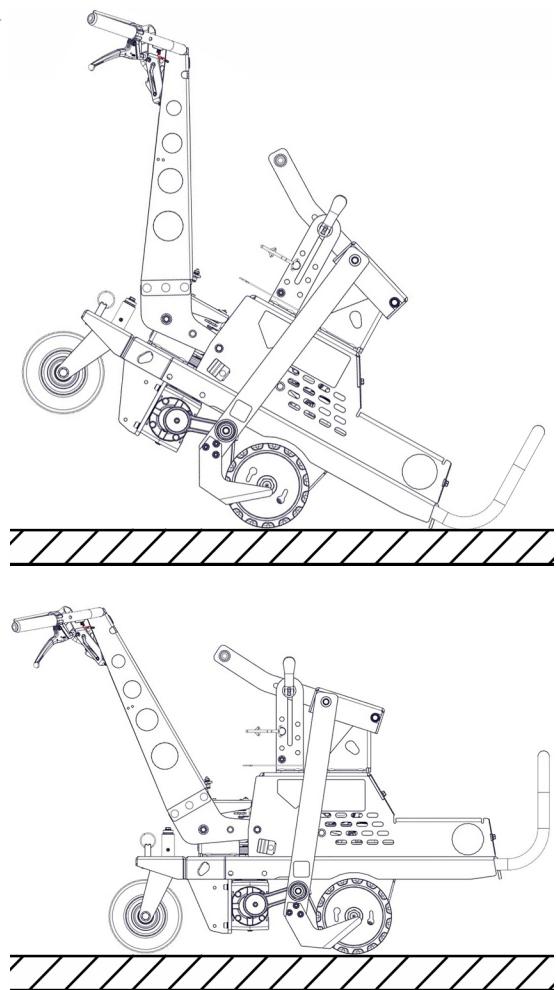


Fig. 9.

Maintenance

Note: Item numbers in () will be referenced in the Parts Illustration and Parts List on pages 11-20.

Periodic Maintenance

Maintenance operation to be performed at every indicated month or operating hour, whichever comes first.	Every Use	Every 25 Hrs	Every 50 Hrs	Every 100 Hrs	Every 200 Hrs	Every 300 Hrs
Check engine oil (Add if necessary)	•					
Change engine oil		•				
Check Air Filter (Clean if necessary)	•					
Clean air filter			•			
Replace air filter					•	
Lubricate chains		•				
Check chains for tension		•				
Inspect axle area between wheels for build-up. Clean by removing front and rear access plates between wheels.		•				
Check and adjust sparkplug				•		
Replace sparkplug						•
Replace cutting blade (If worn past 2.00" wide limit)					•	
Sharpen cutting blade		•				
Check traction belts			•			
Replace traction belts					•	
Grease upper Pinion Bearing on Gearbox (Use MOBOLITH SHC 220 grease or equivalent)					•	
Grease jackshaft bearings			•			
Inspect for loose, worn or damaged parts	•					
Check rear caster rod						
Check for excessive vibration	•					
Inspect drive cables for wear (adjust if necessary)			•			

Note: Blade, drive belts, and chains are normal wear items. See *Fig. 11* for Chain configuration. These should be inspected on a regular basis and replaced if worn. Also see your Billy Goat Dealer for servicing your machine.

Belt Replacement

Note: See *Fig. 10* for belt configuration.

Switch off the engine and disconnect the spark plug wire before carrying out any maintenance or repair work on the machine.

If a belt is worn or breaks it should be replaced as follows:

Note: see pages 16-34 for part illustrations

Blade Belt

1. Disconnect the spark plug, and then remove the guards.
2. Remove the master link on the lower drive chain to allow the belt to be slipped past.
3. Loosen the blade drive belt guides by loosening the nut and bolt holding them to the base. Do not completely remove the nut and bolt, just loosening it will allow the belt guide to be moved far enough back to remove the blade drive belt from the engine drive pulley.
4. Walk the old belt off of the engine drive pulley and the rear gearbox pulley.
5. In order to remove the belt from the machine you will need to remove the bolt holding the V-groove pulley onto the belt engagement arm and remove this pulley. In this way, you can now slip the belt out from under the blade engagement arm.
6. Install the new belt by reversing the steps used to remove the old belt.
7. Place the blade drive belt guides back in their original locations to insure proper operation
8. Reinstall the lower drive chain onto the jackshaft by reinserting the master link.
9. Reinstall the guards.
10. Check for proper operation.

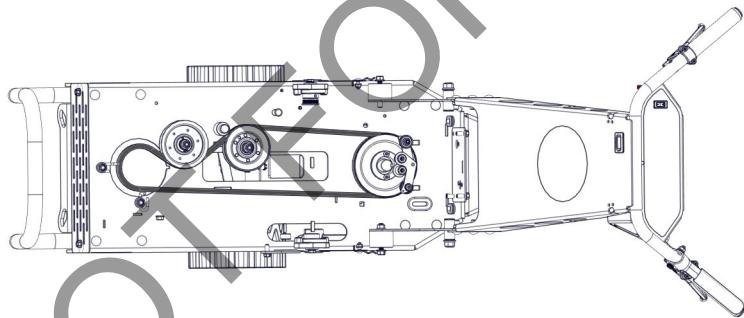


Fig 10. Belt Configuration

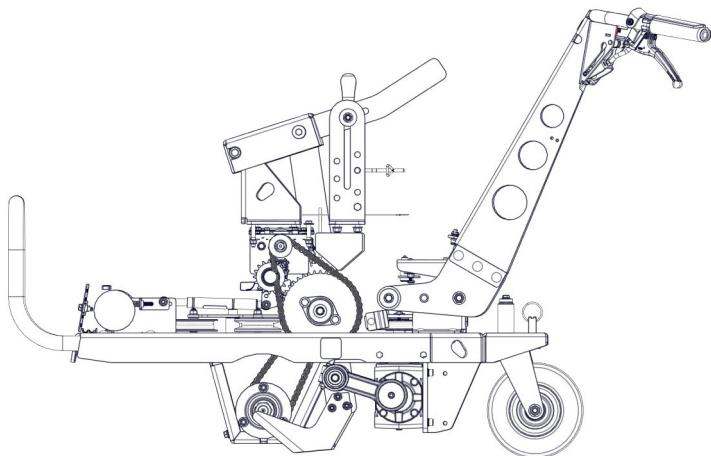


Fig 11. Chain Configuration

Maintenance Continued

Drive Belt

1. Disconnect the spark plug, and then remove the guards.
2. Loosen the blade drive belt guides by loosening the nut and bolt holding them to the base. Do not completely remove the nut and bolt, just loosening it will allow the belt guide to be moved far enough back to remove the blade drive belt from the engine drive pulley.
3. Using a 3/8" drive wrench handle, insert it into the transmission drive belt idler arm and turn the idler arm clockwise looking down from the top of the machine. This will provide enough leverage to remove the belt from the engine drive pulley.
4. Once the belt is removed from the engine drive pulley, there will be enough slack that the idler arm will swing free. The idler arm tension spring will most likely become loose from it's anchor point.
5. Slip the transmission drive belt from around the transmission pulley and pull out of the front of the machine navigating the belt from around the idler arm.
6. Pull the belt out of the bottom of the machine through the hole under the engine drive pulley.
7. Install the new belt by reversing the steps used to remove the old belt.
8. Place the blade drive belt guides back in their original locations to insure proper operation
9. Reinstall the guards.
10. Check for proper operation.

Checking and Replacing the Blade

- Always check the state of the blade before commencing work. Do not forget to switch off the engine!
- Remove the sparkplug wire.
- During work operations if the blade strikes stones or stumps stop straightaway and make sure that it has not become bent or broken. A damaged blade must be replaced.
- If the blade is very worn, cracked or bent, it may snap and project objects outwards, risking serious injury.
- Use heavy-duty work gloves to check or replace the blade to avoid risk of injury to hands.
- The blade fixing screws and relative nuts are also subject to wear. Always replace them at the same time as the blade, using bolts and screws of the same grade and type. Torque the bolts to 26-28 ft. lbs. (35.25-37.96 N.m)
- The blade wears more quickly on dry, sandy ground. In these conditions it should be replaced more frequently.

To remove the blade, proceed as follows:

1. Switch off the engine and disconnect the spark plug wire
2. Adjust the cutting height to maximum
3. Check the state of the blade. Check that the blade is not cracked, bent, excessively worn or broken
4. When replacement or inspection is completed, reattach spark plug

Checks

- Adjust the belt and cable control tension after the first few working hours to account for initial break-in.
- Briefly operate all the machine's components to detect any abnormal noises or overheating.
- During the initial running in period avoid heavy-duty usage to encourage proper break-in of mechanical parts.
- Never neglect maintenance operations after work and carry out all prescribed checks regularly.

Maintenance Continued

Cable Control Adjustment

To adjust the cables place the machine on flat ground, switch off the engine and disconnect the wire from the spark plug.

Blade and Drive Control Cables

Adjustments to the tension on the cables are made by adjusting the barrel length located on the handle. By extending the barrel out, more tension will be put on the cable. Make sure that you do not apply too much tension as this will cause premature failure or cause the lever to engage when it is not wanted.

Note: Apply lithium grease to the slots on the drive levers where the cable sits to avoid premature failure.



NOT FOR REPRODUCTION

Troubleshooting

Problem	Possible Cause	Solution
Engine will not start.	<ul style="list-style-type: none"> • Rocker Stop switch on operators console is in “stop” position. • Choke not on. • Out of gasoline, bad or old gas. • Spark plug wire disconnected. • Dirty air cleaner. • Blade clutch is engaged 	<ul style="list-style-type: none"> • Move Rocker Stop switch on operators console to “run” position. • Check engine. • Check Gasoline. • Check for spark with an approved tester. • Clean or replace air cleaner. • Disengage the blade clutch lever.
Engine runs poorly	Spark plug wire loose. Carburetor out of adjustment. Water or dirt in fuel system. Spark plug fouled, faulty or wrong gap	Adjust carburetor (refer to engine manual). Reset gap or replace spark plug (refer to engine manual).
Belt slips	“Clutch cable out of adjustment. Belt worn. Trying to cut too deep for soil conditions.”	“Adjust clutch cable. Replace belt. Replace blade or irrigate sodded area.”
Abnormal vibration	“Loose cutting blade. Handlebar vibration mounts old or worn. Loose engine bolts”	“Stop work immediately. Check blade mounting bolts. Replace damaged or bent blade if required. Inspect handlebar vibration mounts. Check engine mounting.”
Will not cut or has poor cutting performance	“Dull or damaged Blade. Debris locked against blade. Engine running at too low RPM. Sod is too dry.”	“Sharpen or replace blade. Remove debris. Check engine RPM (refer to engine manual). Irrigate area where cutting sod.”
Drive will not engage	“Transmission by-pass rod is in neutral. Drive cable out of adjustment. Broken drive cable. Worn or broken belt.”	“Dis-engage transmission by-pass rod. Adjust drive cable. Replace with new cable. Replace belt.”
Drive will not release	“RTN mechanism out of adjustment. Drive cable out of adjustment. Damaged drive lever.”	“Adjust RTN mechanism. Adjust drive cable. Replace drive lever.”
Engine is locked, will not pull over	“Oil in cylinder due to having engine tipped with head down too long. Damaged engine.”	“Remove sparkplug and turn engine over to clear oil. Clean sparkplug and replace. Refer to engine owner’s manual.”

Engine Service and Warranty

When servicing engine refer to specific manufacturer's engine owner's manual. All engine warranty is covered by the specific engine manufacturer. If your engine requires warranty or other repair work contact your local servicing engine dealer. When contacting a dealer for service it is a good idea to have your engine model number available for reference (See table on page 3). If you cannot locate a servicing dealer in your area you can contact the manufacturer's national service organization: American Honda- 800-426-7701

Warranty Claim Procedure

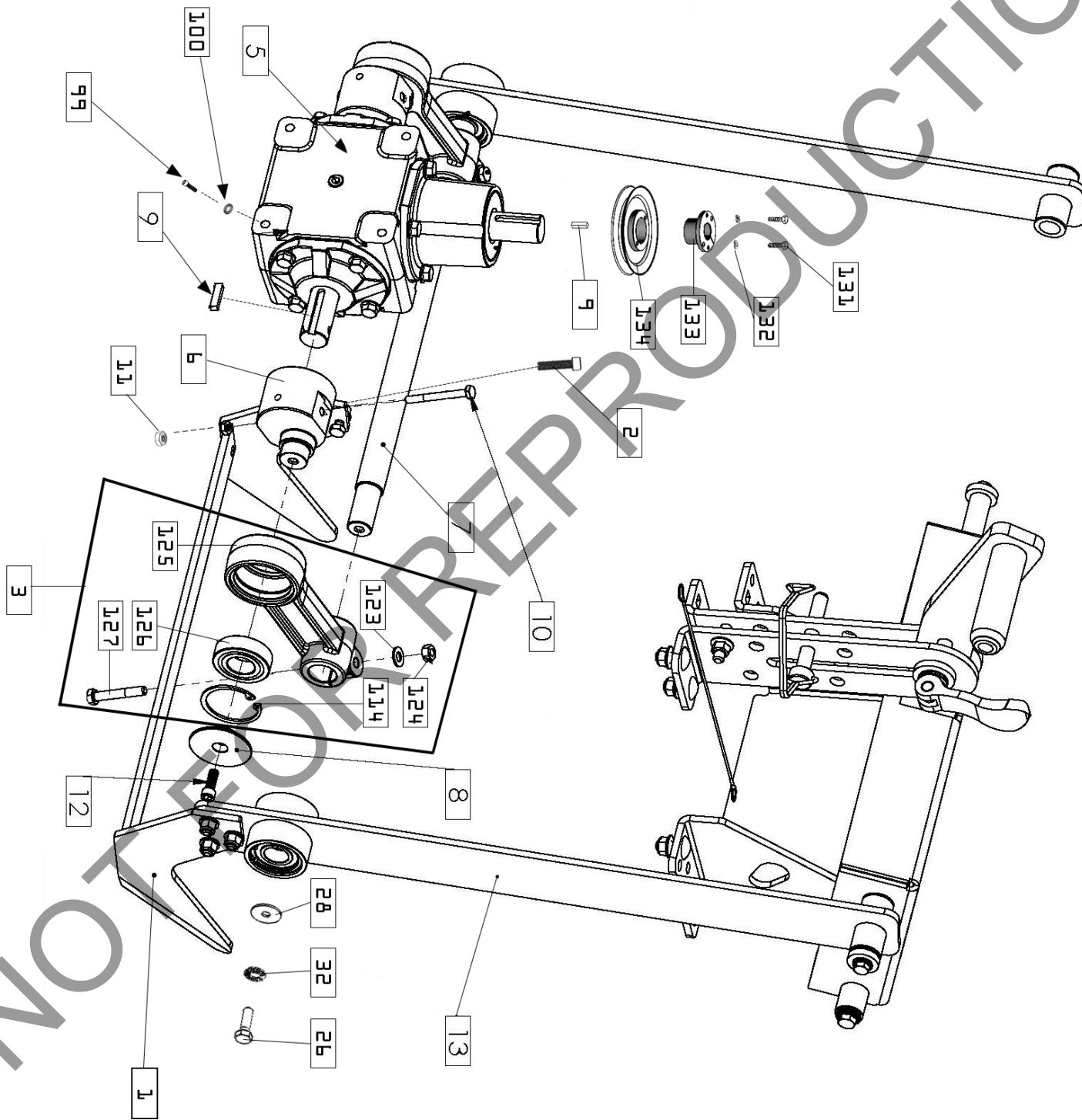
Should a BILLY GOAT® machine fail due to a defect in material and/or workmanship, the owner should make a warranty claim as follows:

- The machine must be taken to the dealer from whom it was purchased or to an authorized Servicing BILLY GOAT Dealer.
- The owner must present the remaining half of the Warranty Registration Card, or, if this is not available, the invoice or receipt.
- The Warranty Claim will be completed by the authorized BILLY GOAT Dealer and submitted to their respective BILLY GOAT Distributor for their territory Attention: Service Manager. Any parts replaced under warranty must be tagged and retained for 90 days. The model number and serial number of the unit must be stated in the Warranty Claim.
- The distributor service manager will sign off on the claim and submit it to BILLY GOAT for consideration.
- The Technical Service Department at BILLY GOAT will study the claim and may request parts to be returned for examination. BILLY GOAT will notify their conclusions to the distributor service manager from whom the claim was received.
- The decision by the Technical Service Department at BILLY GOAT to approve or reject a Warranty Claim is final and binding.

For online product registration go to www.billygoat.com

Maintenance Record

Gearbox Assembly



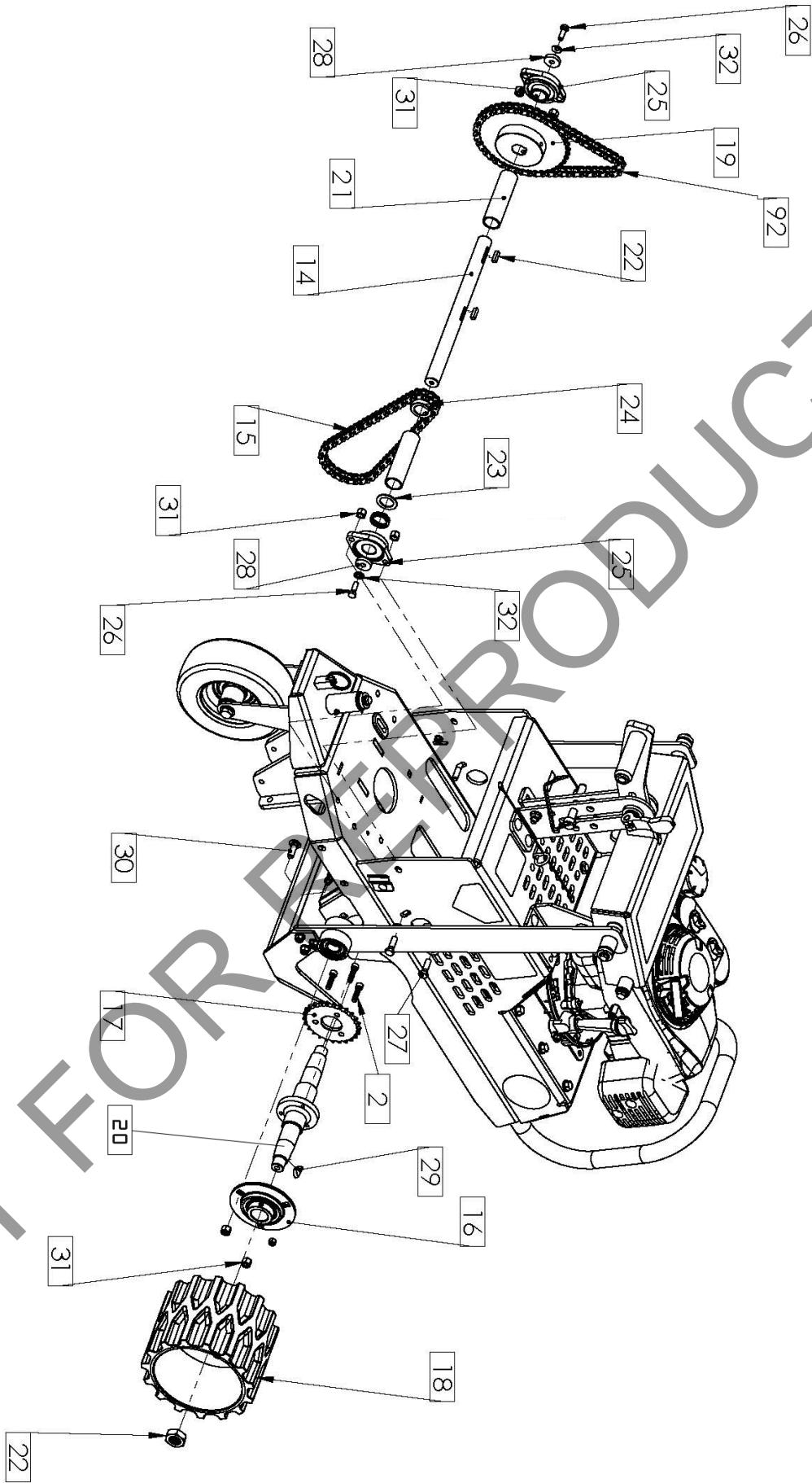
Gearbox Assembly

SC181H

SC181HG

Item No.	Description	Part No.	QTY	Part No.	QTY
1	KIT, SC REPLACEMENT BLADE	371203-S	2	371203-S	2
2	SHCS, 5/16-18 X 1.25 BLK OX W/RED PATCH	362289	2	362289	2
3	ROD, CONNECTING ASSY SC181H	373016	2	373016	2
5	GEARBOX, SPIRAL BEVEL 2:1 CURTIS	373233	1	373233	1
	SC181 GEARBOX SEAL KIT	373602	1	373602	1
6	ECCENTRIC, BLADE DRIVE SC181H	373237	2	373237	2
7	BAR, PUSH	373238	1	373238	1
8	WASHER, CONNECTING ROD	373281	2	373281	2
9	KEY 1/4" SQ X 1.00"	9201113	2	9201113	2
10	SCREWCAP 1/4"-20 X 2 1/2" HCS ZP	8041012	2	8041012	2
11	NUT LOCK, 1/4-20 LT WT TH ZP	8161040	2	8161040	2
12	SCR-CAP, SH .3125"-24 X 0.875" G8 ZP	8049001	2	8049001	2
13	ARM, BLADE SC181H	373014	2	373014	2
26	SCREWCAP 5/16"-18 X 1" GR 5 HCS ZP	8041028	2	8041028	2
28	WASHER 1.125 OD x 0.344 ID x .25 THK ZP	441150	2	441150	2
32	WASHER, BELLEVILLE CONTACT .323X.717X.05	8181010	2	8181010	2
99	SCR-CAP, SH .375" - 16 X 1.250" G8 ZP	8048127	4	8048127	4
100	- WSHR-NORD LOCK 0.406" X 0.654" ZP	8182001	4	8182001	4
114	RING, RETAINING DHO-47	373236	2	373236	2
123	WASHER 5/16 SAE Z/P	8172008	2	8172008	2
124	NUT 5/16-24 FIN HEX ZP	8149002	2	8149002	2
125	CONNECTING ROD, MACHINED SC181	373234	2	373234	2
126	BEARING, 6205 25MM BORE ARMORED SEALS	373280	2	373280	2
127	SCREWCAP 5/16-24 x 2" GR.8 w/PATCH	350204	2	350204	2
131	SCREWCAP 1/4"-20 X 1" HCS ZP	8041006	2	8041006	2
132	WASHER LOCK 1/4 S/T MED	8177010	2	8177010	2
133	BUSHING, TAPERED HUB Ø1.000" BORE	373240	1	373240	1
134	PULLEY, BLADE DRIVE	373230	1	373230	1

Wheel Drive Assembly



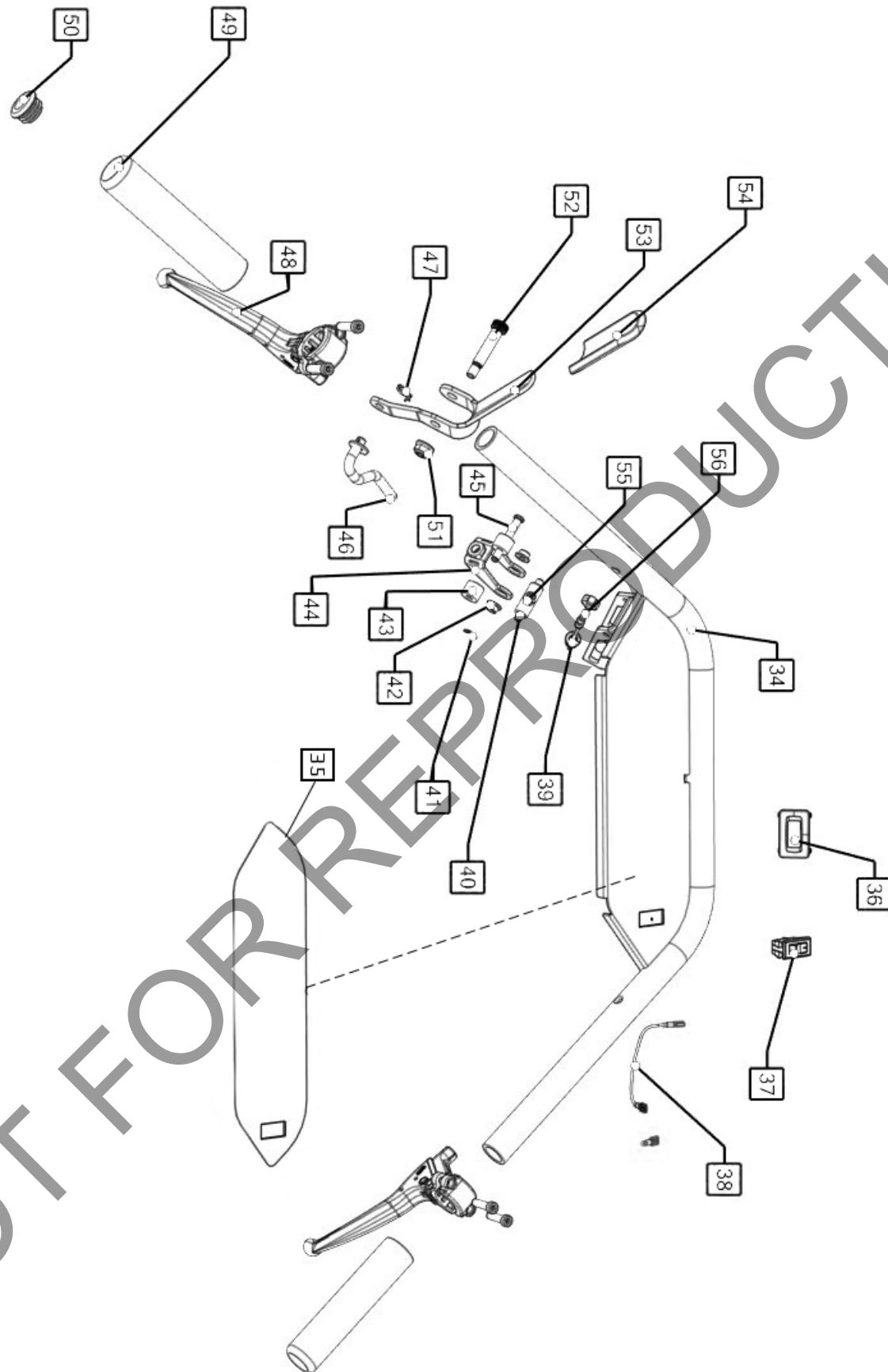
Wheel Drive Assembly

SC181H

SC181HG

Item No.	Description	Part No.	QTY	Part No.	QTY
2	SHCS, 5/16-18 X 1.25 BLK OX W/RED PATCH	362289	3	362289	3
14	JACKSHAFT, WHEEL DRIVE	373218	1	373218	1
15	CHAIN, #40 X 58 PITCHES	373220	1	373220	1
16	BEARING, FLANGETTE ASSY 1.25" BORE	373221-S	2	373221-S	2
17	SPROCKET, #40 X 25 TEETH, THREE HOLE MOU	373227	1	373227	1
18	WHEEL, DRIVE SOD CUTTER	373228	2	-	-
	WHEEL, DRIVE SC181H GOLF	-	-	373321	2
19	SPROCKET, 40B42, 1.00" BORE	373317	1	373317	1
20	AXLE, DRIVE SC181H MACHINED	373270	1	373270	1
21	SPACER, Ø1.25 X .109 WALL X 4.531 LG	373402	2	373402	2
22	NUT JAM 7/8"	350155	2	350155	2
23	MACHINERY BUSHING 1" X 1 1/2 X 14 GA	362205	1	362205	1
24	SPROCKET, #40B12, 1" BORE	371291	1	371291	1
25	BEARING FLANGED 1.0 DIA	381042	2	381042	2
26	SCREWCAP 5/16"-18 X 1" GR 5 HCS ZP	8041028	2	8041028	2
27	SCREWCAP 3/8"-16 X 1 1/4" HCS ZP	8041051	4	8041051	4
28	WASHER 1.125 OD x 0.344 ID x .25 THK ZP	441150	2	441150	2
29	1008 WOODRUFF	373226	2	373226	2
30	BOLT CARRIAGE 3/8-16 X 1 1/4" ZP	8024059	6	8024059	6
31	NUT LOCK 3/8-16 HEX	8160003	9	8160003	9
32	WASHER, BELLEVILLE CONTACT .323X.717X.05	8181010	2	8181010	2
92	CHAIN, #40 X 54 PITCHES	373219	1	373219	1

Handle Bar Assembly



Part No. 373506

20

373506_B_HI

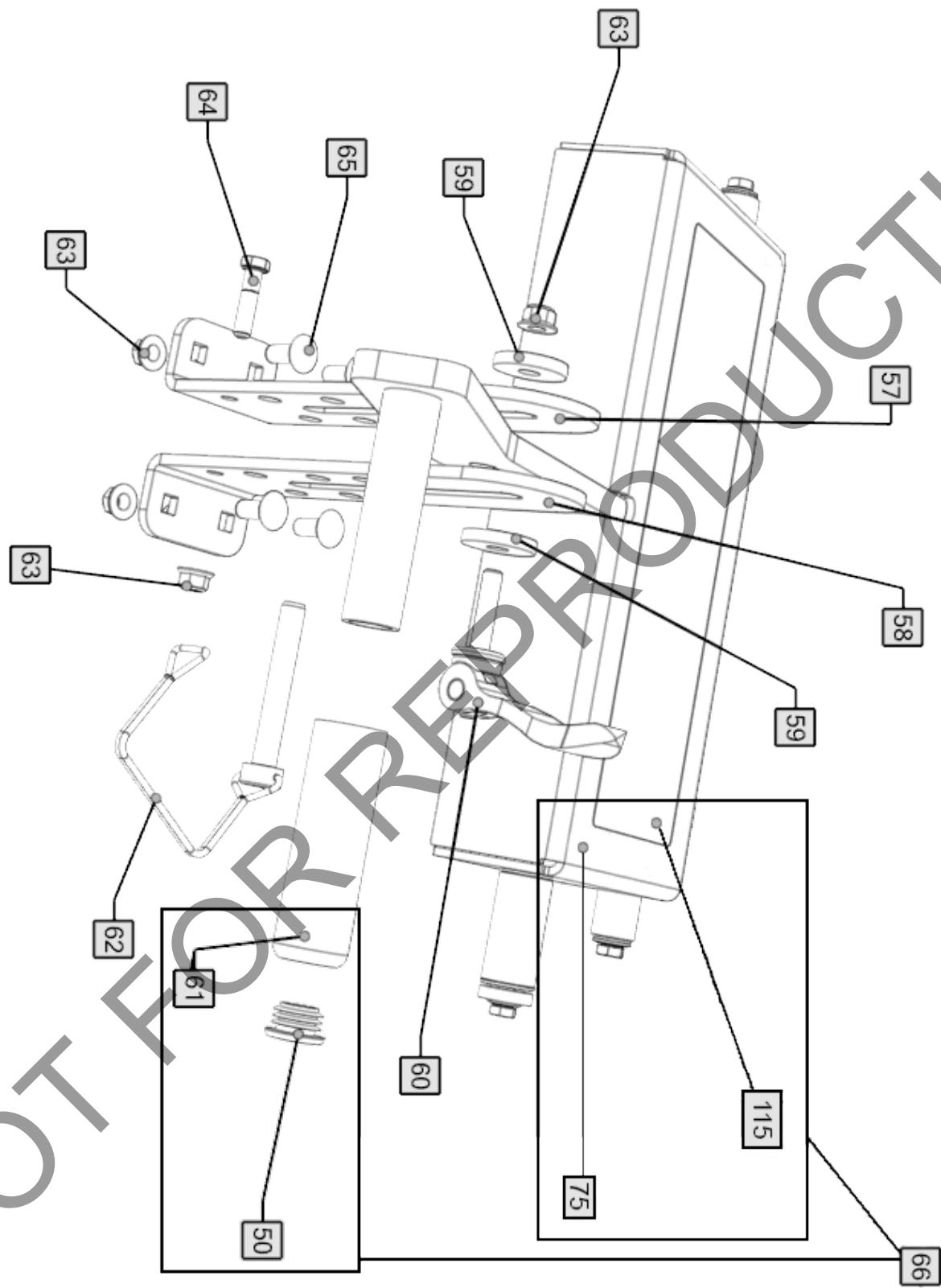
Handle Bar Assembly

SC181H

SC181HG

Item No.	Description	Part No.	QTY	Part No.	QTY
34	HANDLE WA W/LABELS	373600	1	373600	1
35	LABEL CONSOLE SC181H	373500	1	373500	1
36	HOURMETER, INDUCTIVE PANEL MOUNT	373305	1	373305	1
37	SWITCH LKG RKR B&S #493521	500281	1	500281	1
38	HARNESS, STOP SWITCH WIRE	373312	1	373312	1
39	BUSHING, SPLIT 0.350" NYLON BLACK	373308	1	373308	1
40	BARREL FITTING, CABLE SLIDE	373287	1	373287	1
41	RING RETAINING 1/4" E-CLIP	430327	1	430327	1
42	BUSHING, FLANGE .250" I.D. IGUS	373310	2	373310	2
43	SPACER, ROUND 5/8 OD X .252 ID X 1/2 LNG	373309	2	373309	2
44	CLEVIS, CLUTCH CONTROL SC181H	373290	1	373290	1
45	PIN CLEVIS 1/4" X 1 11/16" ZP	373307	1	373307	1
46	LINK, WIRE CLUTCH SC181H	373288	1	373288	1
47	PIN, RUE RING 0.313" ZP	373216	1	373216	1
48	MAGURA CONTROL	351209	2	351209	2
49	GRIP HANDLE 1" X 5.5"	500267	2	500267	2
50	INSERT GLIDE 1 INCH 10-14 GA	890132	2	890132	2
51	NUT-HEX-NYLK, FLG .3125"-18 ZP	8165002	1	8165002	1
52	BOLT SHOULDER 3/8 X 1 1/2	501313	1	501313	1
53	LEVER, CONTROL BLADE SC181H	373289	1	373289	1
54	GRIP LEVER .125" X 1" X 5" ORANGE	500379	1	500379	1
55	RING, RETAINING 7/32 E-CLIP SE-21	373306	1	373306	1
56	CABLE, CLUTCH BELT SC181H	373259	1	373259	1

Height Adjust Assembly (Part 1)



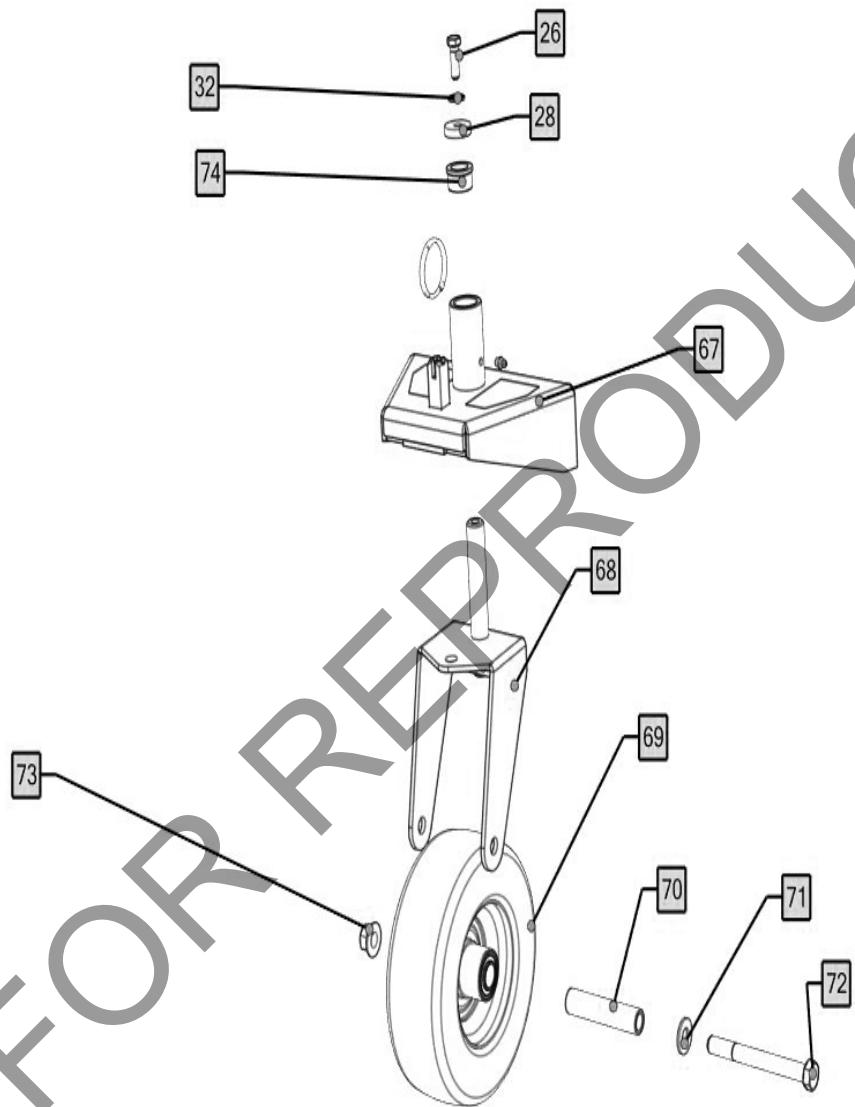
Height Adjust Assembly (Part 1)

SC181H

SC181HG

Item No.	Description	Part No.	QTY	Part No.	QTY
50	INSERT GLIDE 1 INCH 10-14 GA	890132	1	890132	1
57	BRACKET, DEPTH CONTROL LH	373225	1	373225	1
58	BRACKET, DEPTH CONTROL RH	373224	1	373224	1
59	WASHER 1.5 OD x .453 ID x .25 THK	440153	2	440153	2
60	LEVER CAM LOCK	371219	1	371219	1
61	GRIP 1" ID x 4"	790179	1	790179	1
62	PIN, WIRE LOCK 1/2 X 3" LG ZP	371284	1	371284	1
63	NUT-HEX-NYLK, FLG .375"-16 ZP	8165003	6	8165003	6
64	SCREWCAP 3/8"-16 X 1 3/4" HCS ZP	8041053	1	8041053	1
65	BOLT CARRIAGE 3/8-16 X 1" ZP	8024058	4	8024058	4
66	BRACKET HEIGHT ADJUST W/LABELS	373601	1	373601	1
75	BRACKET, HEIGHT ADJUST WA	373111	1	373111	1
115	LABEL, BADGING TOP	373502	1	373502	1

Back Wheel Assembly (Part 1)



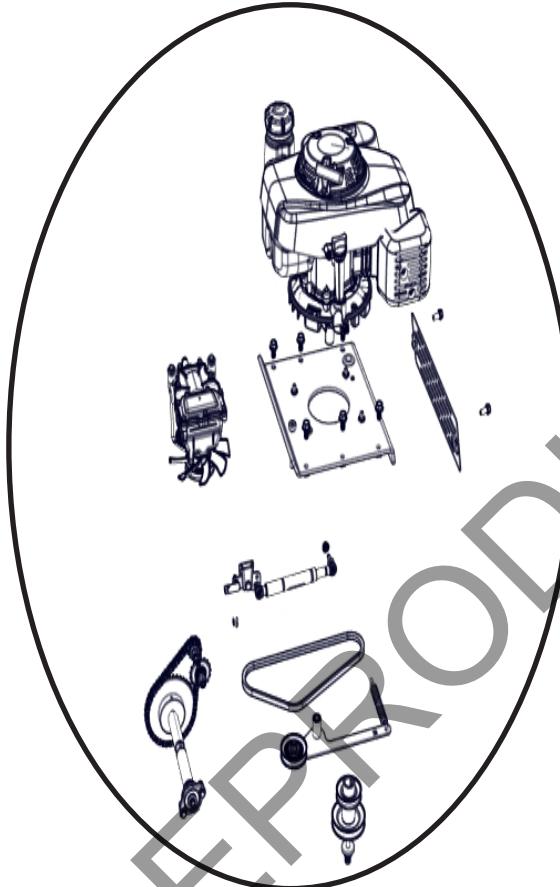
Back Wheel Assembly

SC181H

SC181HG

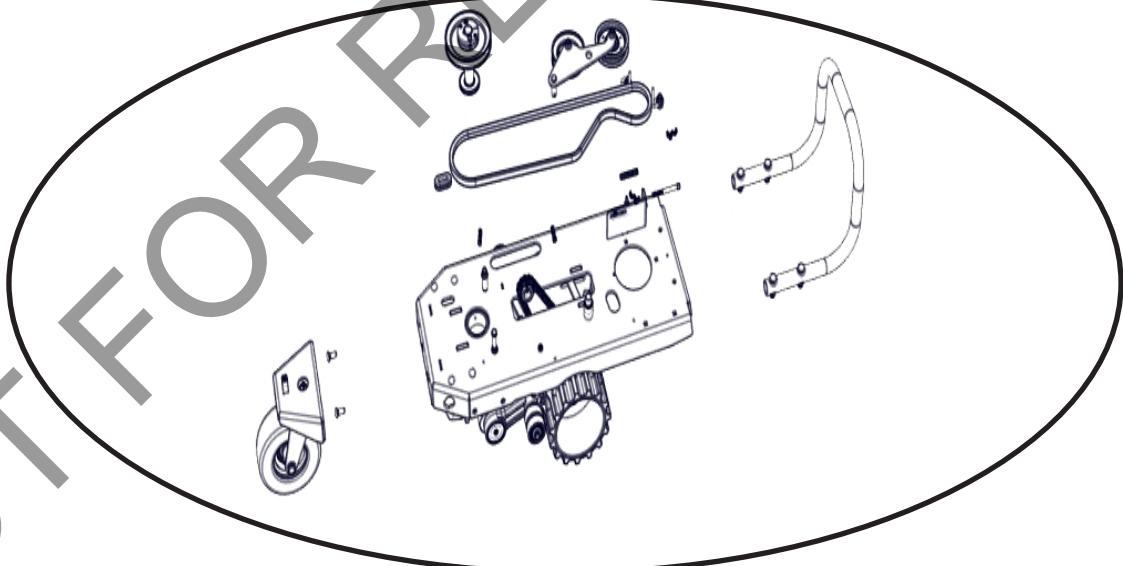
Item No.	Description	Part No.	QTY	Part No.	QTY
26	SCREWCAP 5/16"-18 X 1" GR 5 HCS ZP	8041028	1	8041028	1
28	WASHER 1.125 OD x 0.344 ID x .25 THK ZP	441150	1	441150	1
32	WASHER, BELLEVILLE CONTACT .323X.717X.05	8181010	1	8181010	1
67	CASTER MOUNT WA W/LABELS	373602	1	373602	1
68	BRACKET, CASTER 8"D X 3"W	373302	1	373302	1
69	WHEEL, 8" X 3" HEAVY DUTY	373300	1	373300	1
70	SPACER, .75 ID X 3.563 LG ZP	373301	1	373301	1
71	WASHER 1/2 SAE Z/P	8172011	1	8172011	1
72	SCREWCAP 1/2"-13 X 4 3/4 HCS ZP GR. 5	8041108	1	8041108	1
73	NUT-HEX-NYLK, FLG .500"-13 ZP	8165005	1	8165005	1
74	BUSHING FLANGE 1" OD 3/4" ID	520184	2	520184	2

Frame Assembly



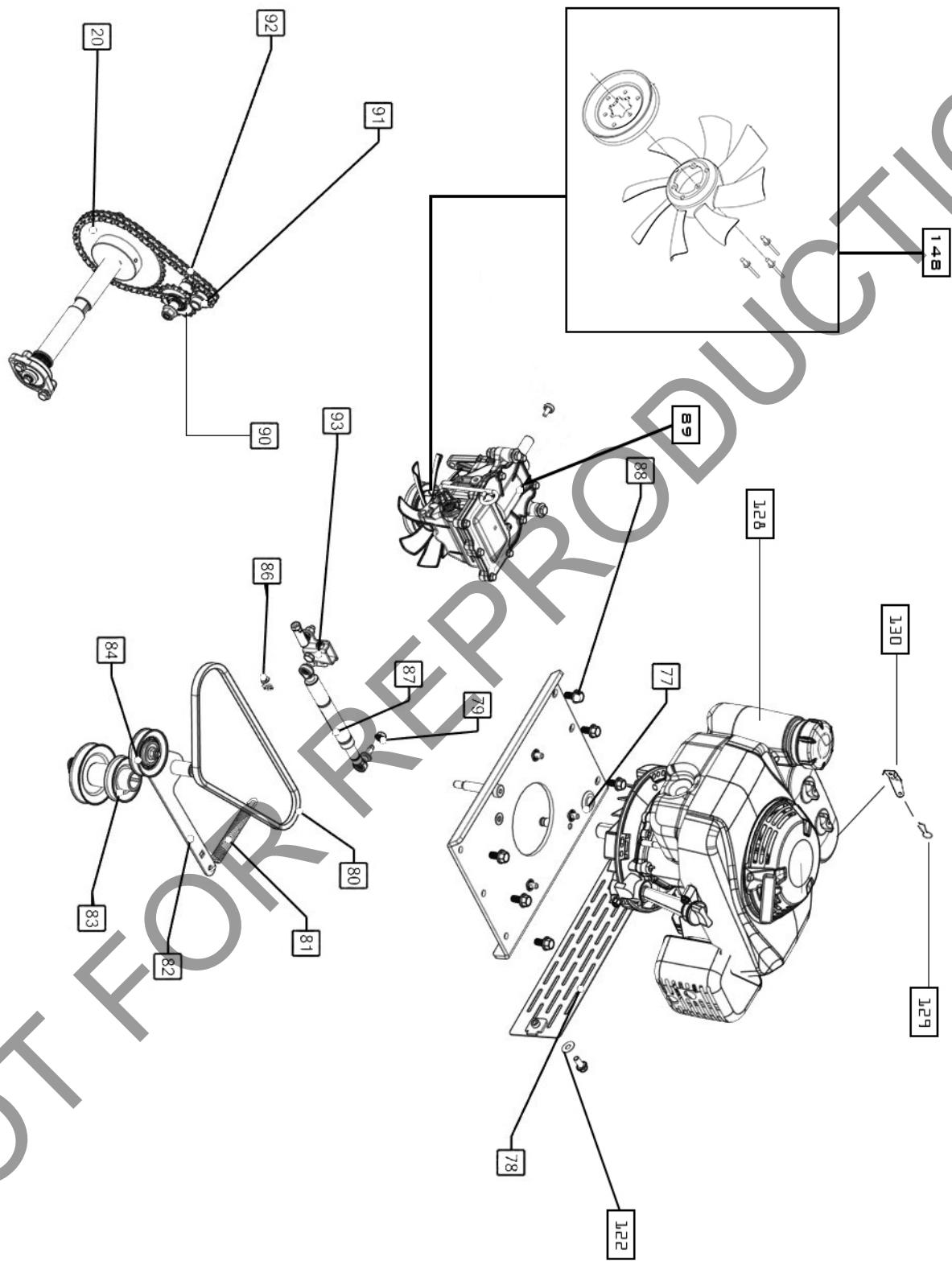
Part 1

Part 2



NOT FOR REPRODUCTION

Frame Assembly Part 1



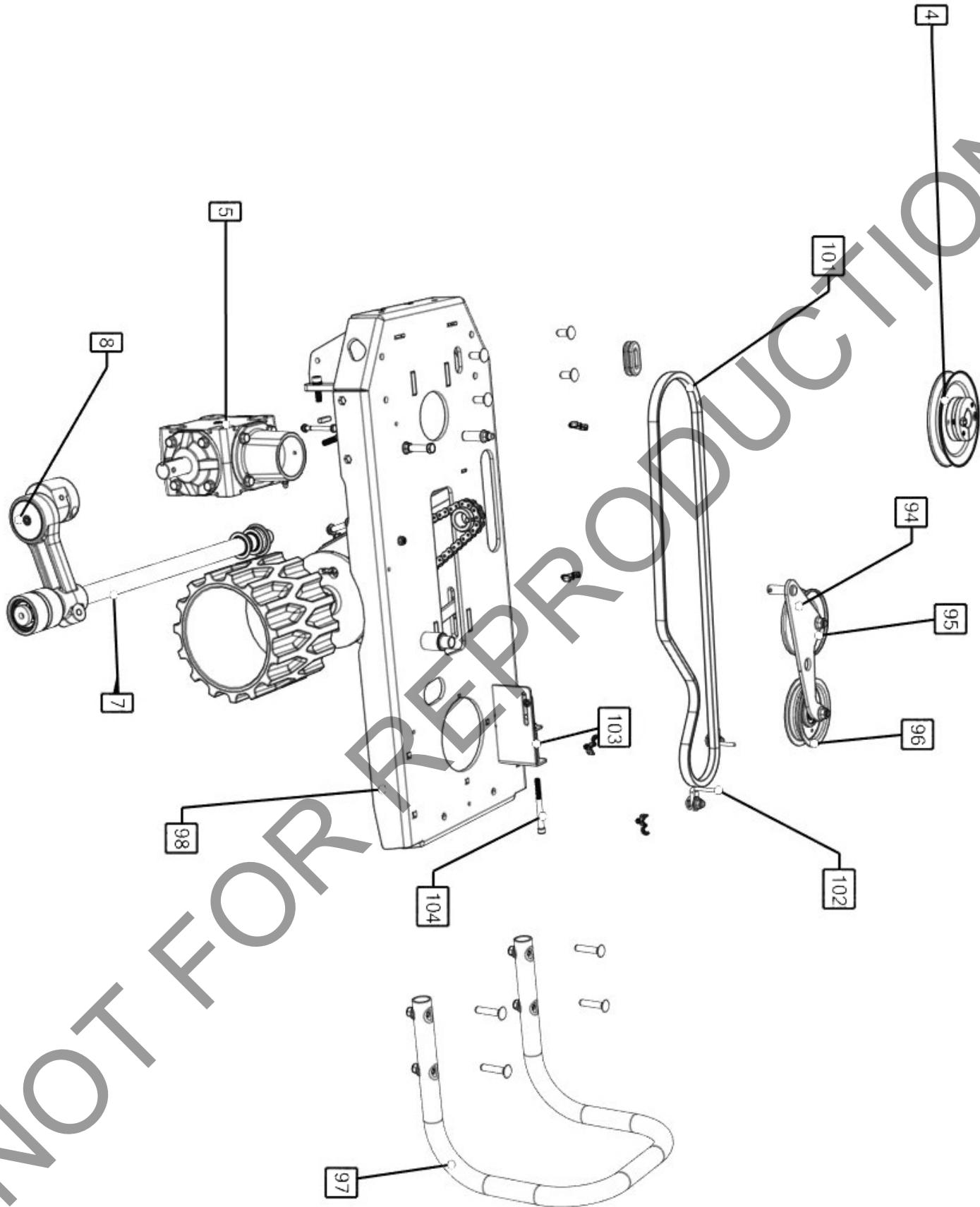
Frame Assembly Part 1

SC181H

SC181HG

Item No.	Description	Part No.	QTY	Part No.	QTY
20	SPROCKET, 40B42, 1.00" BORE	373317	1	373317	1
77	GROMMET 0.69" I.D. FIT 1.00" HOLE	373286	1	373286	1
78	PLATE, FRONT GUARD	373212	1	373212	1
79	NUT-HEX-FGLK, M8 X 1.25 ZP	373265	1	373265	1
80	BELT 4L X 34 OUTSIDE LG (PBL)	830223	1	830223	1
81	SPRING, IDLER BC2600	501261	1	501261	1
82	ARM, IDLER DRIVE	373276	1	373276	1
83	PULLEY, DOUBLE DRIVE	373275	1	373275	1
84	PULLEY 3V GROOVE IDLER	351216	1	351216	1
86	ROD, TRANSMISSION BYPASS	373314	1	373314	1
87	DAMPER, RTN AVM	373231	1	373231	1
88	SER. HEX WSHR FLNG SCR 0.375 - 16 x 0.75	791080	6	791080	6
89	TRANSMISSION, RT310 W/7" FAN INSTALLED.	373332	1	373332	1
90	SPROCKET, IDLER 17T X 1/2" BORE	373229	1	373229	1
91	SPROCKET 40B10 5/8" BORE	371212	1	371212	1
92	CHAIN, #40 X 54 PITCHES	373219	1	373219	1
93	TAB, CONTROL LEVER FRONT	373217	1	373217	1
122	SER. HEX WSHR FLNG SCR 5/16" - 18 x 3/4"	351264	19	351264	19
128	ENGINE GXV160 SOD CUTTER - FIXED THRTTLE	371285	1	371285	1
129	CHOKE PULL WIRE	371265	1	371265	1
130	BRACKET CHOKE SC	371266	1	371266	1
148	KIT, SC181H TRANSMISSION PULLEY SERVICE	373603	1	373603	1

Frame Assembly Part 2



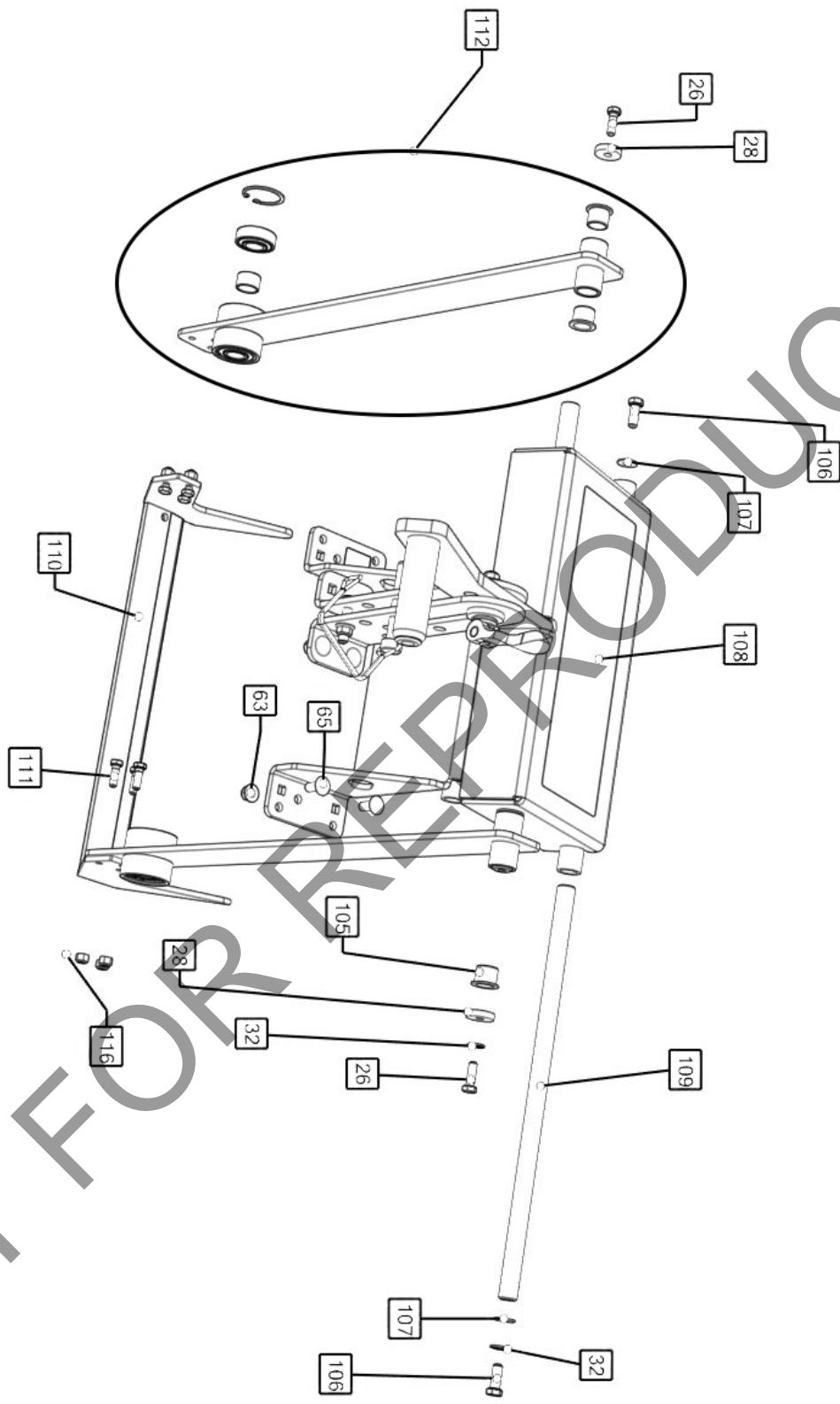
Frame Assembly Part 2

SC181H

SC181HG

Item No.	Description	Part No.	QTY	Part No.	QTY
4	PULLEY, BLADE DRIVE	373230	1	373230	1
5	GEARBOX, SPIRAL BEVEL 2:1 CURTIS	373233	1	373233	1
7	BAR, PUSH	373238	1	373238	1
8	WASHER, CONNECTING ROD	373281	2	373281	2
94	BELLCRANK, BLADE DRIVE SC181H	373222	1	373222	1
95	PULLEY IDLER INSIDE 4"	520061	1	520061	1
96	PULLEY IDLER 4.00" OD X 3/8" BORE	500113	1	500113	1
97	TUBE BUMPER SC	371400	1	371400	1
98	BASE, FRAME SC181H	373200	1	373200	1
101	BELT, GATES 5L X 59 LNG BANDLESS	373269	1	373269	1
102	BELT FINGER AE900	362340	2	362340	2
103	SPRING, COMPRESSION 3.500" LNG X .480" O	373267	1	373267	1
104	SCR-CAP, SH .3125"-18 X 3.500" G8 ZP	8048119	1	8048119	1

Height Adjust Assembly (Part 2)



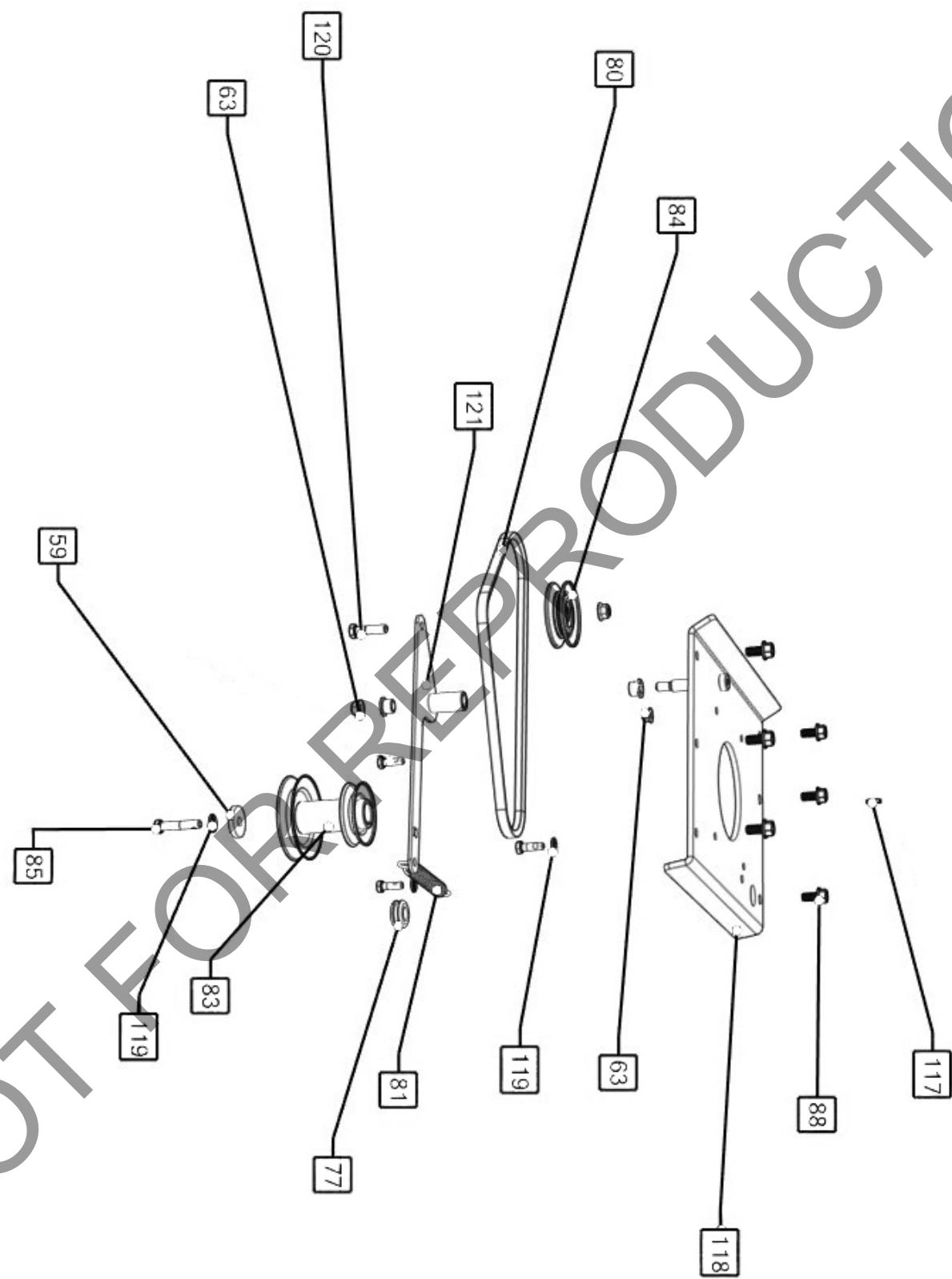
Height Adjust Assembly (Part 2)

SC181H

SC181HG

Item No.	Description	Part No.	QTY	Part No.	QTY
26	SCREWCAP 5/16"-18 X 1" GR 5 HCS ZP	8041028	2	8041028	2
28	WASHER 1.125 OD x 0.344 ID x .25 THK ZP	441150	2	441150	2
32	WASHER, BELLEVILLE CONTACT .323X.717X.05	8181010	2	8181010	2
63	NUT-HEX-NYLK, FLG .375"-16 ZP	8165003	4	8165003	4
65	BOLT CARRIAGE 3/8-16 X 1" ZP	8024058	4	8024058	4
105	BUSHING PIVOT FRAME AE	360183	2	360183	2
106	SCREWCAP 3/8"-16 X 1" HCS ZP	8041050	2	8041050	2
107	WASHER 5/16 FLAT ZP	8171003	2	8171003	2
109	SHAFT PIVOT BEARING	371259	1	371259	1
110	BLADE 18" WA KIT	371203-S	1	371203-S	1
112	ARM, BLADE SC181H WA	373014	2	373014	2

Engine Assembly



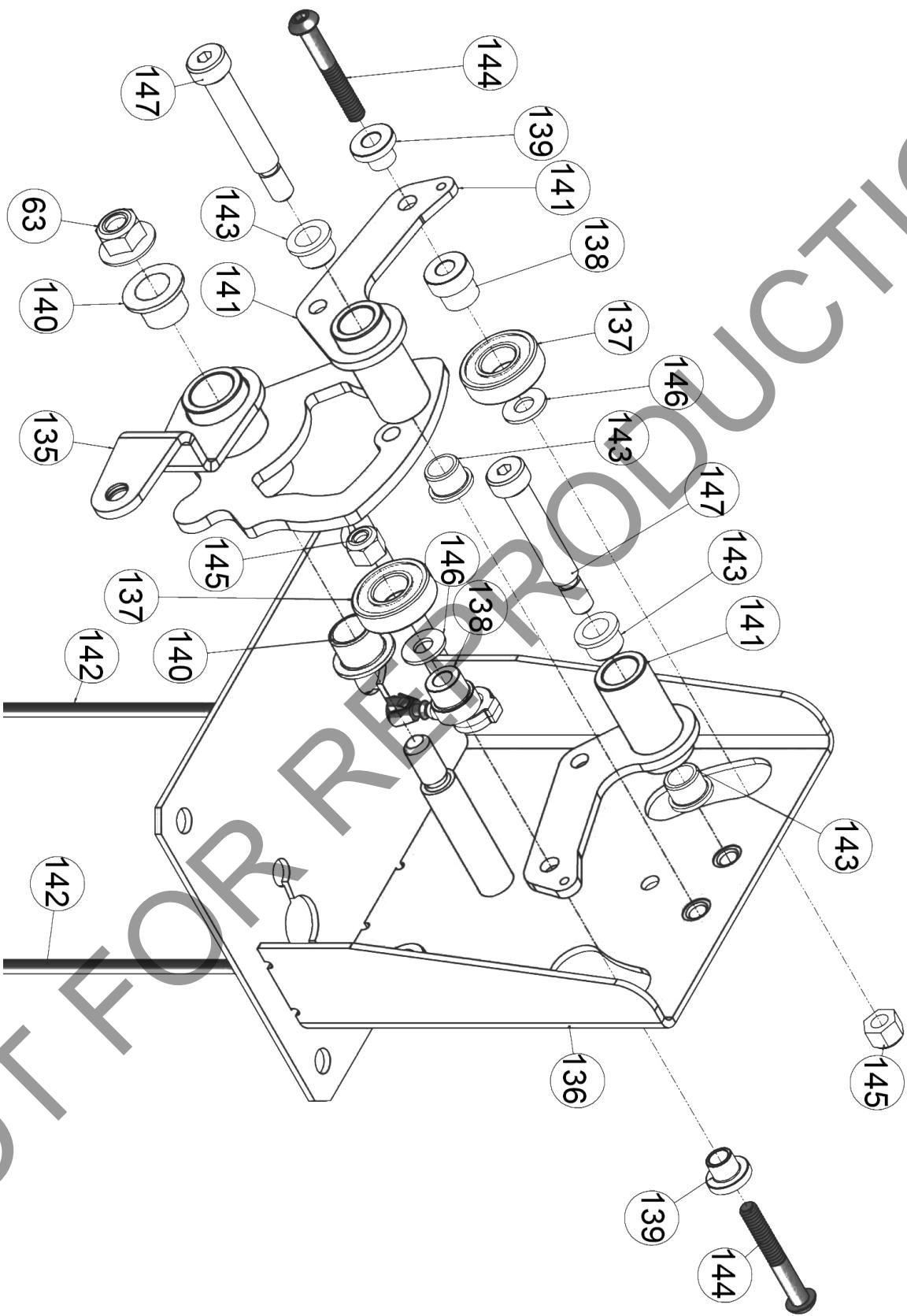
Engine Assembly

SC181H

SC181HG

Item No.	Description	Part No.	QTY	Part No.	QTY
59	WASHER 1.5 OD x .453 ID x .25 THK	440153	1	440153	1
63	NUT-HEX-NYLK, FLG .375"-16 ZP	8165003	1	8165003	1
77	GROMMET 0.69" I.D. FIT 1.00" HOLE	373286	1	373286	1
80	BELT 4L X 34 OUTSIDE LG (PBL)	830223	1	830223	1
81	SPRING, IDLER BC2600	501261	1	501261	1
83	PULLEY, DOUBLE DRIVE	373275	1	373275	1
84	PULLEY 3V GROOVE IDLER	351216	1	351216	1
85	SCREWCAP 1/2" -20 X 1 1/4 GR. 5 W/PATCH	520028	2	520028	2
88	SER. HEX WSHR FLNG SCR 0.375 - 16 x 0.75	791080	6	791080	6
117	KEY HI PRO 5/32" X 5/8"	900162	1	900162	1
118	PLATE, ENGINE MOUNT WA	373105	1	373105	1
119	WSHR-STL, BLV, .402 X .877 X .063 CN MZ	8181011	1	8181011	1
120	SCREWCAP 3/8"-16 X 1 1/2" HCS ZP	8041052	1	8041052	1
121	IDLER, TRANS. BELT SC181H WA	373603	1	373603	1

Speed Control Assembly



Speed Control Assembly

SC181H

SC181HG

Item No.	Description	Part No.	QTY	Part No.	QTY
63	NUT-HEX-NYLK, FLG .375"-16 ZP	8165003	1	8165003	1
135	CAM, SPEED CONTROL WA	373112	1	373112	1
136	BRACKET, SPEED CONTROL WA	373113	1	373113	1
137	BEARING .500 ID x 1.125 OD X .313 THK	351257	2	351257	2
138	SPACER, SPEED CONTROL STEPPED PM	351347	2	351347	2
139	SPACER, SPEED CONTROL EYELET PM	351348	2	351348	2
140	BUSHING, .500" I.D.	362254	2	362254	2
141	BELLCRANK BC2600 WA	501114	2	501114	2
142	CABLE, SPEED CONTROL ASSY RH	501276	2	501276	2
143	BUSHING 3/8 ID x 1/2 OD x 3/8	840078	4	840078	4
144	SCREWCAP 1/4"-20 X 1 3/4 SKT BUT HD	840199	2	840199	2
145	NUT LOCK 1/4-20 HEX ZP	8160001	2	8160001	2
146	WASHER 1/4 SAE 9/32 X 5/8 X 1/16	8172007	2	8172007	2
147	BLT-SLDR,SH.375"X1.75",.313"-18X.50"G-8ZP	351258	2	351258	2



Service Kit No. 373600 contains the following parts:

Item No.	Part No.	Description	Quantity
35	373500	LABEL CONSOLE SC181H	1
49	500267	GRIP HANDLE 1" X 5.5"	2
50	890132	INSERT GLIDE 1 INCH 10-14 GA	2
76	430303	LABEL PRODUCT DECAL LG CIRCLE	1
116	373101	HANDLE SC181H WA	1