



CR POWER RAKE Owner's Manual



COMPACT POWER RAKE Owner's Manual

CR550HC, CR550H, CR550HCEU

Beginning Serial #: 010616001

Accessories

Replacement Parts

SLICING REEL	SLICING BLADES	SPACER BUMPERS	DRIVE BELT	FLAIL BLADES	FLAIL SHAFTS
A complete verti-slicing reel for your CR. 20" wide reel for use in grasses that require vertical cutting, and for assisting in lawn overseeding projects.	A full set of twenty blades for replacement. Includes 40 new capscrews, and lock nuts for replacement installation.	A complete replacement set. 44 of 1/2" spacer bumpers and 4 of 1/4" spacer bumpers	Original Equipment drive belt for your CR.	A complete replacement set. 30 of our high quality flail blades for your CR. Includes 8 new lock clips for replacement installation.	A full set of four shafts for replacement. Includes 8 new lock clips for replacement installation. <i>NOTE: We recommend replacing the shafts when you replace flails.</i>
P/N 350252	P/N 350187	P/N 350258	P/N 350207	P/N 350251	P/N 350185

Original Instructions

IMPORTANT- READ CAREFULLY BEFORE USE AND KEEP FOR FUTURE REFERENCE



CR POWER RAKE Owner's Manual



ABOUT THIS MANUAL

THANK YOU for purchasing a BILLY GOAT® CR Power Rake. 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.

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SPECIFICATIONS

	CR550H	CR550HC	CR550HCEU
Engine: HP	5.4 (4.0kW)	5.0 (3.73 kW)	5.0 (3.73 kW)
Engine: Model	X160TQX2	GC160AQHA	GC160AQHL
Engine: Type	HONDA OHC	HONDA OHC	HONDA OHC
Engine: Fuel Capacity	3.8 qt (3.6L)	2.1 qt (2.0 L)	2.1 qt (2.0 L)
Engine: Oil Capacity	0.63 qt (0.6L)	0.63 qt. (0.6 L)	0.63 qt. (0.6 L)
Total Unit Weight:	125# (56.8 kg)	125# (56.8 kg)	125# (56.8 kg)
Max. operating slope	20°	20°	20°
In accordance with 2000/14/EEC standards	99 dB(a)	99 dB(a)	99 dB(a)
Sound at operator's ear	81 dB(a)	81 dB(a)	81 dB(a)
Vibration at operator position	1.01g (9.94 m/s ²)	1.01g (9.94 m/s ²)	1.01g (9.94 m/s ²)

SOUND



99

SOUND LEVEL 81 dB(a) at Operator Position

Sound tests were conducted in accordance with 2000/14/EEC, and were performed on 2-9-2002 under the conditions listed below.

⚠ Sound power level listed is the highest value for any model covered in this manual. Please refer to serial plate on the unit for the sound power level for your model.

General Conditions:
 Temperature:
 Wind Speed:
 Wind Direction:
 Humidity:
 Barometric Pressure:

Sunny
 43°F (6.1°C)
 10 mph (16.1 kmh)
 North West
 82.2%
 29.72Hg (754 mm Hg)

VIBRATION DATA

VIBRATION LEVEL 1.01g (9.94m/s²)

Vibration levels at the operator's handles were measured in the vertical, lateral and longitudinal directions using calibrated vibration test equipment. Tests were performed on 5-25-2006 under the conditions listed below.

General Conditions:
 Temperature:
 Wind Speed:
 Wind Direction:
 Humidity:
 Barometric Pressure:

Sunny
 72.32°F (22.4°C)
 3.8 mph (6.12kph)
 East
 62.2%
 29.9Hg (101.3kpa)



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INTENDED USE

INTENDED USE

This machine is designed for removing thatch from your lawn, renovation of existing lawns, and to assist in overseeding operations. The machine should not be used for any other purpose than that stated above.

DO NOT operate if excessive vibration occurs. If excessive vibration occurs, shut engine off immediately and check for damaged or worn reel, loose pulley bolts or set screws, loose engine or lodged foreign objects. (See troubleshooting section on page 9).

INSTRUCTION LABELS

The labels shown below were installed on your BILLY GOAT® CR Power Rake. 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.



LABEL DANGER KEEP HANDS AND FEET AWAY
ITEM #51 P/N 400424



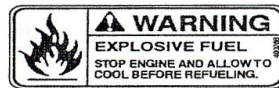
LABEL CLUTCH ITEM #49
P/N 830503



DANGER FLYING DEBRIS
ITEM # 48 P/N 810736



LABEL CAUTION GUARD
ITEM #52 P/N 900327



LABEL EXPLOSIVE FUEL
ITEM # 50 P/N 400268



LABEL INSTRUCTION HEIGHT ADJ.
ITEM #35 P/N 350224

ENGINE LABELS/CONTROLS

HONDA

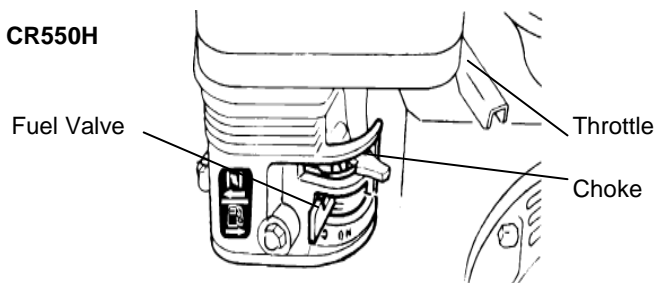


■ READ OWNER'S MANUALS BEFORE OPERATION.
 ■ LIRE LE MANUEL D'UTILISATEUR AVANT USAGE.
 ■ VOR INBETRIEBNAHME UNBEDINGT BEDIENUNGSANLEITUNG DURCHLESEN.
 ■ NO UTILIZAR SIN ANTES NO HABER LEIDO EL MANUAL.

IMPORTANT ENGINE INFORMATION-HONDA MOTOR CO.,LTD
 ENGINE FAMILY:THN163U1G1RA DISPLACEMENT - 163cm³
 TUNE UP SPECIFICATION *REFER TO OWNER'S MANUAL FOR
 MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS *THIS ENGINE
 MEETS 1995 CALIFORNIA EMISSION REGULATIONS FOR
 UTILITY AND LAWN AND GARDEN EQUIPMENT ENGINES.

OIL ALERT
 ■ WHEN OIL LEVEL LOW,
 ENGINE STOPS IMMEDIATELY.

Controls CR550H





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PACKING CHECKLIST

NOTE: Items in () can be referenced in the Parts Illustration and Parts List on pages 10-11.

Your Billy Goat Power Rake is shipped from the factory in one carton, completely assembled.



READ all safety instructions before assembling unit.

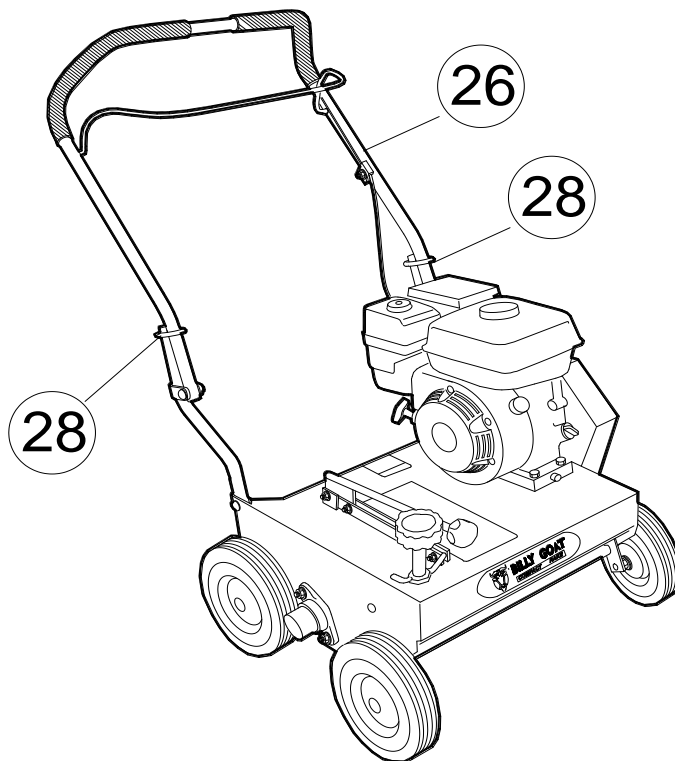
TAKE CAUTION when removing the unit from the box the Handle Assembly is attached and folded over.



PUT OIL IN ENGINE BEFORE STARTING

PARTS BAG & LITERATURE ASSY

Warranty card P/N- 400972, Owner's Manual P/N-350245, Declaration of Conformity P/N-350139, General Safety and Warnings manual P/N-100295, and Literature CR Accessories 350246.



Boxing Parts Checklist

- Honda GC 5.0 OHC
- Literature Assy P/N-350243

ASSEMBLY

NOTE: Items in () can be referenced in the Parts Illustration and Parts list on pages 10-11.

1. **UNFOLD** the upper handle (item 26) and slide handle lock loops (item 28) into place to secure the upper handle to the lower.
2. **CHECK** engine oil level and fill to proper level with engine manufacturers recommended grade of oil. Move height adjust lever to down position, to level engine during checking. See engine manufacturer's instruction manual.
3. **CONNECT** spark plug wire.



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OPERATION

STARTING ENGINE

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.

FUEL VALVE: Move fuel valve to "ON" position (when provided on engine).

STOP SWITCH: Located on the engine. "slow/stop" position.

CHOKE: Operated with choke lever on side of engine.

THROTTLE: Controlled by throttle lever on the motor.

If your unit fails to start, check the troubleshooting section on page 9 and also see the engine manual.

SLICING OPERATION


NOTE: NEVER PARK THIS UNIT ON A SLOPE OF ANY KIND. Always keep the reel in the up position when parking the unit.


BLADE POSITION & DEPTH CONTROL LEVER: The blades can be raised or lowered into the ground by height adjustment lever on the engine base. The resulting blade depth can be adjusted higher or lower. (See Fig. 1 & 2)


ADJUSTING BLADE DEPTH: The depth of the blades can be raised or lowered by rotating the knob on the top of the adjustment lever. The blades are lowered by rotating the knob counter-clockwise, and raised by rotating the knob clockwise. The relative depth of the blades can be gauged by using the depth scale located on the right front corner of the engine base. (See Fig. 3)

FOLDING HANDLE: This unit is equipped with a folding upper handle for easier storage and transportation. The handle can be folded by sliding the handle lock loops up (item 28). This releases the upper handle, allowing it to be folded over the unit.

HANDLING & TRANSPORTING: This unit requires two people to lift it. With the handle in the folded position, lift holding the lower handle and belt/shaft guard one on each side of the machine. Secure the machine in place during transport.

 Never lift the machine while the engine is running.

STORAGE:  Never store engine indoors or in enclosed poorly ventilated areas with fuel in tank, where fuel fumes may reach an open flame, spark or pilot light, as on a furnace, water heater, clothes dryer or other gas appliance. If engine is to be unused for 30 days or more, prepare as follows:

 Remove all gasoline from carburetor and fuel tank to prevent gum deposits from forming on these parts and causing possible malfunction of engine. Drain fuel outdoors, into an approved container, away from open flame. Be sure engine is cool. Do not smoke. Run engine until fuel tank is empty and engine runs out of gasoline.

RAKING OPERATION

SET DEPTH: With engine off, set the raking depth so that the blades just touch on a flat surface (i.e. driveway, or sidewalk).

ENGAGE BLADES: Pull back on the bail on the operators handle. **NOTE:** When engaging the blades in heavy load conditions, i.e. heavy thatch or very uneven turf, push down on the operators handle lifting the front wheels slightly. Engage the blades. Slowly lower the unit into the turf.

RAKE: Rake a small test area and examine the results. Thatch should be removed and deposited on top of the healthy grass. If excessive damage occurs to healthy grass, adjust the blade depth to decrease damage. Continue raking the yard, working in one direction (i.e. north-south, or east-west). **NOTE:** If a large drop in engine RPM occurs, or the unit pulls you forward and bounces during operation, the blade depth is set too low.

REMOVE THATCH: After raking, a layer of thatch will be deposited over the top of the lawn. This thatch must be removed prior to any fertilizing, seeding, or watering of the lawn. We suggest the use of a lawn vacuum or wheeled blower for collection and removal of the thatch.

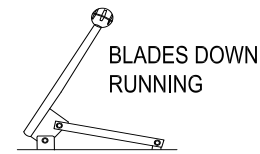
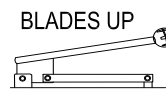


Fig. 1

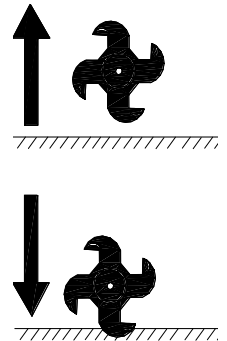


Fig. 2

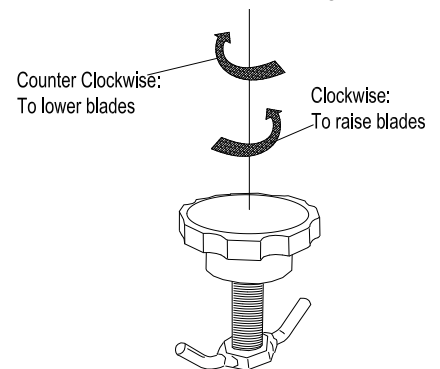


Fig. 3



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VERTI-CUTTING OPERATION

SET DEPTH: With engine off, set the raking depth so that the blades just touch on a flat surface (i.e. driveway, or sidewalk).

ENGAGE BLADES: Pull back on the bail on the operator's handle. *NOTE:* When engaging the blades in heavy load conditions (i.e. heavy thatch, or very uneven turf), push down on the operator's handle lifting the front wheels slightly. Engage the blades. Slowly lower the unit into the turf.

SLICE: Verti-cut a small test area and examine the results. Some thatch and cut stems should be removed and deposited on top of the healthy grass. Grass runners should be cut and ready for removal. If excessive damage occurs to healthy grass, adjust the blade depth to decrease damage. Continue raking the yard, working in one direction (i.e. north-south, or east-west). *NOTE:* If a large drop in engine RPM occurs, or the unit pulls you forward and bounces during operation, the blade depth is set too low.

REMOVE THATCH/STEMS: After verti-cutting, a layer of thatch and cut stems will be deposited over the top of the lawn. We suggest the use of a lawn vacuum or wheeled blower for collection and removal of the thatch/stems.

*****TIPS*****

MOW

Mow the lawn to its normal cut height.

DRY

Be sure grass is dry. Wet conditions can cause increased damage to healthy grass.

INSPECT

Check the lawn before beginning work. Remove all rocks, wire, string, or other objects that can present a hazard during work prior to starting.

IDENTIFY

Mark all fixed objects to be avoided during work, such as sprinkler heads, water valves, buried cables, or clothes line anchors, etc.

THATCH

Thatch is a dense layer of dead grass, clippings, and roots that builds up over time at the base of the lawn preventing air, water, and fertilizer from reaching the soil. This can cause shallow root development and make a lawn more susceptible to drought and disease. Thatch also provides an ideal environment for insects to hide and multiply. Periodic removal of thatch will keep your lawn in good health.

HEAVY THATCH

Lawns with an excessive amount of thatch will require multiple treatments for effective removal. Trying to remove excessive thatch (greater than 3/4"[19 mm] deep) in one treatment will damage or destroy the living part of the lawn. It is best to remove heavy thatch in seasonal treatments (i.e. spring, and fall).

CHECK

Before beginning, it is best to evaluate the condition of the lawn by cutting one or more core samples from the area to be treated. A core can be cut using a piece of pvc, or metal pipe. Hammer the pipe into the ground, remove it, push the core out of the pipe and inspect it to determine the depth of thatch in your yard.

SLOPES

Rake slopes across not up and down the slope. This is much easier and safer for the operator and is better for the lawn. Raking across will help to reduce runoff during watering and allow the sloped ground to hold more seed, fertilizer, and water. The units maximum operating slope is 35% or 19°.

DEPTH

The wide range of depth adjustment on your unit is provided to allow for blade wear. Setting the reel deeper will not produce better, or quicker results. The flail reel is intended to be set so it just touches the surface on flat ground. The slicing reel should be set even with the ground for verti-slicing work, and set to a maximum 1/2" depth for overseeding jobs. Setting the reel deeper than this will only result in premature wear on the unit (i.e. failed belt). If you desire to work the ground deeper than the above guidelines allow, it should be done gradually in multiple passes.



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MAINTENANCE

PERIODIC MAINTENANCE

NOTE: Items in () can be referenced in the Parts Illustration and Parts List on pages 10-11.

Periodic maintenance should be performed at the following intervals:

Maintenance Operation	Every Use (daily)	Every 25 Hours
Inspect for loose, worn or damaged parts		●
Check engine oil	●	
Inspect belt		●
Engine (See Engine Manual)		
Grease reel bearings		●
Inspect and clean engine air filter	●	
Oil height adjustment linkage		●

FLAIL BLADE WEAR

1. Wait for engine to cool and disconnect spark plug.
2. Close fuel valve on engine. (Honda only)
3. Lean unit back onto lower handles and secure in place.
4. Inspect blades for wear, and immediately replace any bent, or cracked blades. Measure the overall length of the blade. (See Fig. 4)
5. If blades measure less than 3.0"(76 mm) in overall length, they must be replaced. *NOTE:* We recommend replacing all the flails at once.

SLICING BLADE WEAR

1. Wait for engine to cool and disconnect spark plug.
2. Close fuel valve on engine. (Honda only)
3. Lean unit back onto lower handles and secure in place.
4. Inspect blades for wear, and immediately replace any bent or cracked blades. Measure the overall length of the blade from the center of the attachment bolts to the tip of the worn blade.
5. If blades measure less than 3.0"(76 mm) they must be replaced. *NOTE:* We recommend replacing all the blades at once.

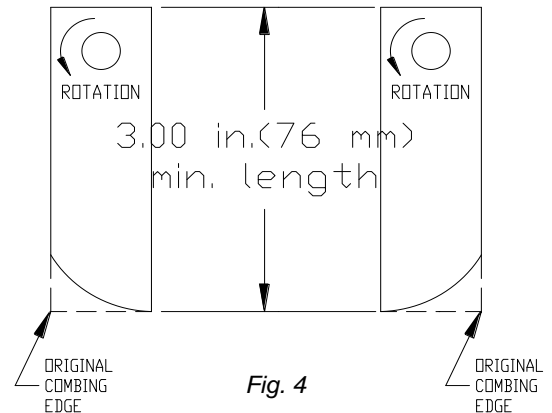


Fig. 4

ROTATING FLAIL REEL END TO END

To maximize flail blade life and performance, the reel can be rotated end to end periodically to provide a fresh lead cutting edge. Takes approx. 20 min. and requires two 1/2" socket wrenches with extension bar.

1. Wait for engine to cool and disconnect spark plug.
2. Close fuel valve on engine.
3. Lean unit back onto lower handles and secure in place.
4. Remove six screws (item 65) holding the belt and shaft guards (item 21 & 22) in place. It is necessary to lower the height adjust lever to reach the locknuts on the guards. Remove the guards.
5. Remove the drive belt (item 9) by "walking" it out of the groove on the reel pulley (item 2).
6. Remove the four lock nuts (item 47) and washers (item 35) holding the bearings (item 23) to the frame of the unit.
7. The reel (item 6) is now free from the machine. Slide the reel down and out of the machine.
8. Remove the capscrew (item 58), lock washer (item 57), reel pulley (item 2), key (item 75), and reel spacer (item 10) from the end of the reel.
9. Rotate the reel end to end, and re-install these items on the opposite end of the reel.
10. Re-install the reel in reverse order of removal. Re-install the guards in reverse order of removal.



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DRIVE BELT REPLACEMENT

NOTE: Takes approx. 10 min. and requires 3/8" socket wrench with extension.

1. Wait for engine to cool and disconnect spark plug.
2. Remove six self-tapping screws (item 65) holding the belt guard (item 21 & 22) in place. Remove the guard.
3. Remove the belt (item 9) by rotating the reel pulley (item 2) and walking it out of the groove. Discard old belt
4. Install new belt using same procedure to walk the belt into the groove.
5. With new belt installed, pull bail rod back to engaged position and measure extension of idler spring. Spring should stretch 1" to 1.25" (25-32 mm) with bail engaged. Adjust clutch cable as necessary to achieve this extension.
6. Re-install the belt guard.

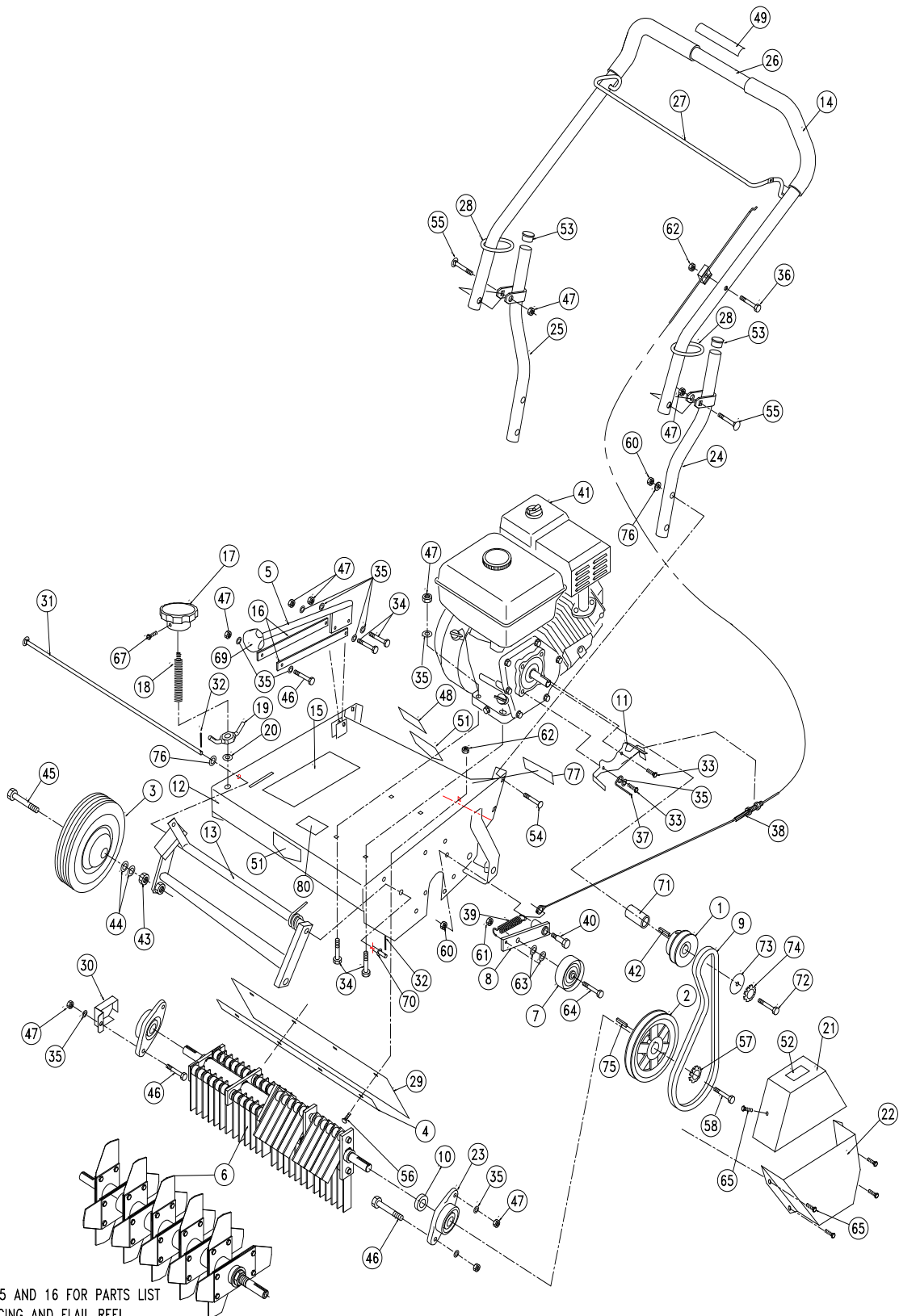
TROUBLESHOOTING

Problem	Possible Cause	Solution
Abnormal vibration	Damaged or missing blades. Loose handle bolts. Loose engine bolts.	Stop work immediately. Replace any damaged or missing blades. Tighten all loose nuts and bolts.
Engine stalls or labors when raking	Blades set too deep into ground.	Raise blades so that they just touch the ground on a level surface.
Engine will not start	Throttle in off position. Out of gasoline or bad, old gasoline. Spark plug wire disconnected. Gas valve off. Dirty air cleaner.	Check choke position. Check gasoline. Connect spark plug wire. Turn on gas valve. Clean or replace air cleaner. Contact a qualified service person.
Engine is locked, will not pull over	Debris locked against reel, or drive pulleys. Engine problem.	Pull spark plug wire and remove debris. Contact an engine servicing dealer for engine problems.



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CR PARTS DRAWING



SEE PAGE 15 AND 16 FOR PARTS LIST
FOR SLICING AND FLAIL REEL



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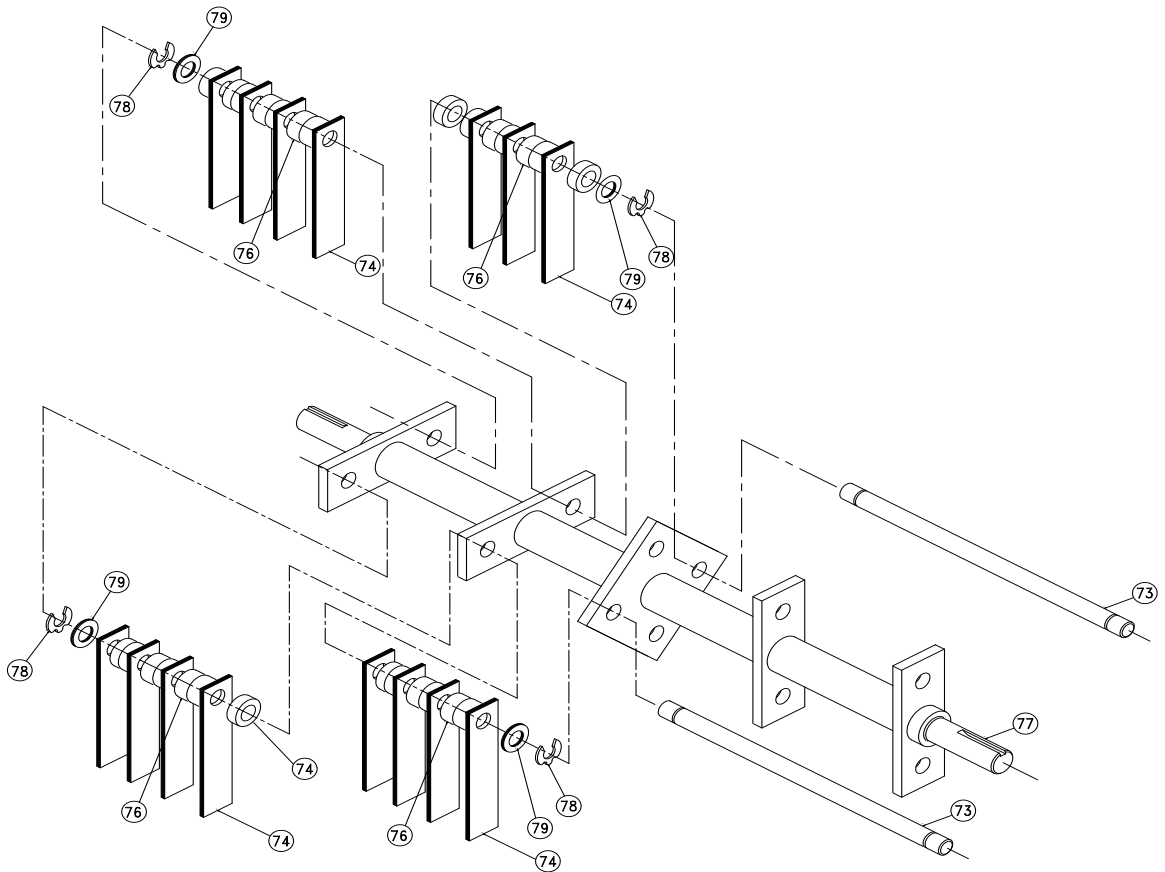
CR PARTS LIST

item no.	PARTS LIST	CR550HC Part No.	QTY	CR550HCEU Part No.	QTY	CR550H Part No.	QTY
1	Pulley 3.0" O.D.	350101	1	350101	1	350101	1
2	Pulley 5.5" O.D. X ¾"	350206	1	350206	1	350206	1
3	Wheel 8" Semi-Pneu White	350236	4	350236	4	350236	4
4	Bar Strap	350211	1	350211	1	350211	1
5	Rod Height Wa	350220	1	350220	1	350220	1
6	Reel Flail Assy (see page 10 & 11 for parts list and detailed dwg.)	350241-S	1	350241-S	1	350241	1
7	Pulley Idler 2.75"	350114	1	350114	1	350114	1
8	Arm Idler WA	350115	1	350115	1	350115	1
9	Belt 5L X 34"	350207	1	350207	1	350207	1
10	Spacer Reel Pulley	350118	1	350118	1	350118	1
11	Bracket Belt Finger	350208	1	350208	1	350208	1
12	Chassis WA W/ Label	350235	1	350235	1	350235	1
13	Frame Front WA	350213	1	350213	1	350213	1
14	GRIP 1" x 13"	400570	2	400570	2	400570	2
15	Label Instr. Hgt. Adj.	350224	1	350224	1	350224	1
16	Link Height Bar	350223	2	350223	2	350223	2
17	Knob Height Adj.	850154	1	850154	1	850154	1
18	STUD ¾"-10 X 5 1/2" PLTD	810538	1	810538	1	810538	1
19	LOCKNUT ASSY	800227	1	800227	1	800227	1
20	WASHER ¾" NYLON	800109	1	800109	1	800109	1
21	Guard Belt Top Wa	350248	1	350248	1	350248	1
22	Guard Belt Bottom Wa	350249	1	350249	1	350249	1
23	Bearing ¾" Cast Flange	350209	2	350209	2	350209	2
24	Handle Lower LH WA	350134	1	350134	1	350134	1
25	Handle Lower RH WA	350135	1	350135	1	350135	1
26	Handle Upper PR500	350136	1	350136	1	350136	1
27	Bail Clutch WA	350137	1	350137	1	350137	1
28	Loop Folding Handle	350138	2	350138	2	350138	2
29	Deflector Rubber	350210	1	350210	1	350210	1
30	Guard Shaft CR	350250	1	350250	1	350250	1
31	PIN LIFT FRONT 3/8" X 21 3/16" Long	350212	1	350212	1	350212	1
32	PIN COTTER 1/8" X 1" Z/P	900471	1	900471	1	900471	1
33	SCREWCAP 5/16-24x3/4" GR5	8042026	2	8042026	2	8042026	2
34	SCREWCAP 5/16 - 18 x 1 1/2	8041030	6	8041030	6	8041030	6
35	WASHER 1/4" FLAT Z/P	8171002	13	8171002	13	8171002	13
36	SCREWCAP 1/4"-20X1.5"	8041008	1	8041008	1	8041008	1
37	BELT FINGER WIRE	350301	1	350301	1	350301	1
38	Cable Clutch Reel PR500	350181	1	350181	1	350181	1
39	Spring Extension	350300	1	350300	1	350300	1
40	Bolt Shoulder 1/2" X 1"	500114	1	500114	1	500114	1
41	ENGINE HONDA 5.0 HP (CR550HC), HONDA 5.5 (CR550H)	430272	1	430272	1	600115	1
	ENGINE HONDA 5.5 HP (CR550H)	600115	1	600115	1		
	ENGINE HONDA 5HP (CR550HCEU)			350426EU	1		
42	KEY 3/16" X 1"	9201078	1	9201078	1	9201078	1
43	NUT 1/2 - 13 JAM	8162005	4	8162005	4	8162005	4
44	WASHER 1/2 SAE	8172011	8	8172011	8	8172011	8
45	SCREWCAP 1/2-13 x 3" Z/P	8041102	4	8041102	4	8041102	4
46	SCREWCAP 5/16"-18X1 1/4" HCS ZP	8041029	5	8041029	5	8041029	5
47	NUT LOCK 5/16-18	8160002	13	8160002	13	8160002	13
48	LABEL DANGER THROWN OBJECT	810736	1	810736	1	810736	1
49	LABEL CLUTCH VQ	830503	1	830503	1	830503	1
51	LABEL WARNING	400424	2	400424	2	400424	2
52	LABEL DANGER GUARD	900327	1	900327	1	900327	1
53	PLUG CAP 1" RD	890132	2	890132	2	890132	2
54	BOLT CARRAIGE 3/8-16 x 1 3/4	8024061	4	8024061	4	8024061	4
55	BOLT CARRAIGE 5/16-18 x 1 3/4	8024043	2	8024043	2	8024043	2
56	SCREWCAP 1/4-20x1"	8041006	4	8041006	4	8041006	4
57	LOCK WASHER TWISTED TOOTH	400502	1	400502	1	430502	2
58	SCREWCAP 3/8-16x1" REEL ASSEMBLY	8041050	1	8041050	1	8041050	1
60	NUT LOCK 3/8-16	8160003	5	8160003	5	8160003	5
61	NUT LOCK 3/8-16 THIN	8161042	1	8161042	1	8161042	1
62	NUT LOCK 1/4-20	8160001	5	8160001	5	8160001	5
63	WASHER 5/16 FLAT CUT	8171003	2	8171003	2	8171003	2
64	SCREWCAP 3/8-16x1.5"	8041052	1	8041052	1	8041052	1
65	SCREWCAP SHEET METAL DRILL POINT 1/4X3/4	430208	6	430208	6	430208	6
67	SCREW MACH. #10-24X2"	8059143	1	8059143	1	8059143	1
69	Knob Height Adj.	430128	1	430128	1	430128	1
70	WASHER 5/16 SAE	8172009	1	8172009	1	8172009	1
71	SPACER CRANK CR HONDA	350338	1	350338	1	350338	1
72	SCREWCAP 5/16-24 x 1 1/4" GR. 8	400389	1	400389	1	400389	1
74	WASHER TWISTED TOOTH	400389	1	400389	1	400389	1
75	KEY 3/16" X 5/8"	9201072	1	9201072	1	9201072	1
76	3/8 FLAT CUT WASHER	8171004	5	8171004	5	8171004	5
77	LABEL SPARK ARRESTOR	100256	1	100256	1	100256	1



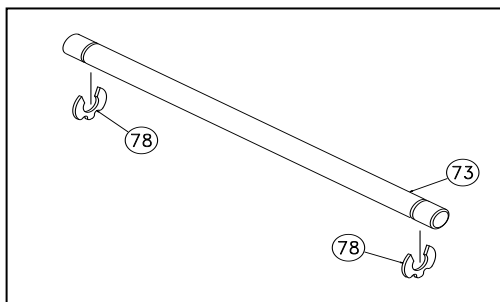
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FLAIL REEL ASSY 350241-S



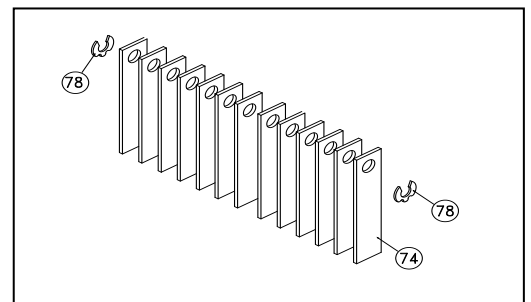
item no.	PARTS LIST	Part No.	QTY
73	SHAFT FLAIL BLADE	350141	4
74	BLADE FLAIL	350205	30
76	SPACER BUMPER 5/8" x 1/2"	350144	54
77	SHAFT WA FLAIL REEL	350145	1
78	CLIP LOCK 1/2"	350146	8
79	WASHER 1/2 SAE	8172011	8

FLAIL SHAFT KIT 350185



item no.	PARTS LIST	Part No.	QTY
73	SHAFT FLAIL BLADE	350141	4
78	CLIP LOCK 1/2"	350146	8

FLAIL BLADE KIT 350251-S

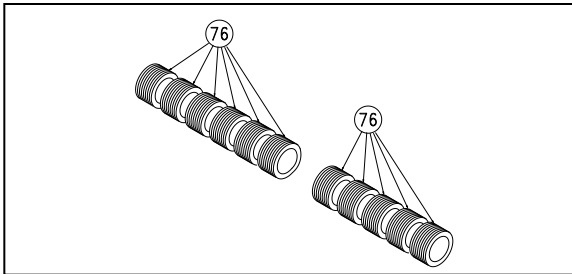


item no.	PARTS LIST	Part No.	QTY
74	BLADE FLAIL	350205	30
78	CLIP LOCK 1/2"	350146	8



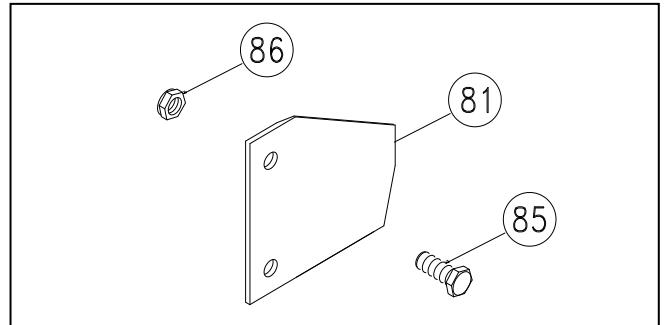
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SPACER BUMPER KIT 350258



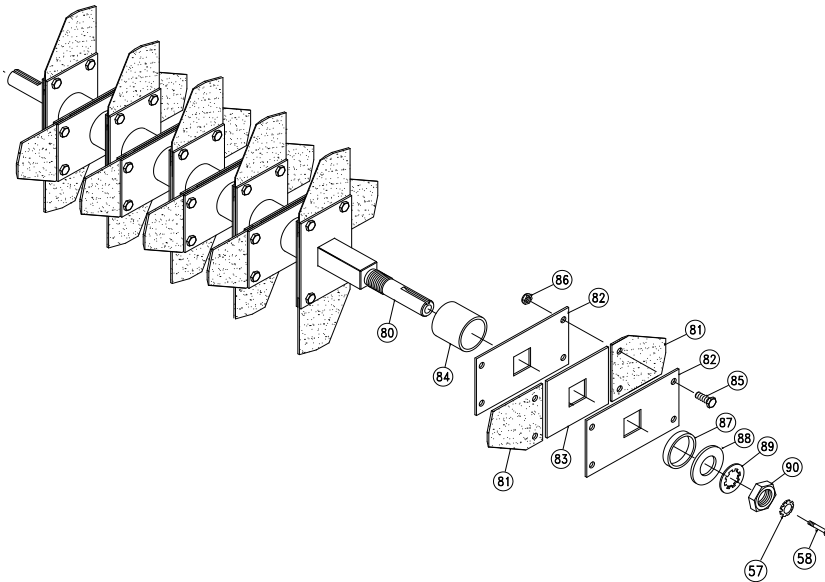
item no.	PARTS LIST	Part No.	QTY
76	SPACER BUMPER 5/8" x 1/2"	350144	54

SLICING BLADE KIT 350187



item no.	PARTS LIST	PR500 Part No.	QTY
81	BLADE SLICING REEL	350147	20
85	SCREWCAP 1/4-20 X 3/4 HCS ZP	8041004	40
86	NUT LOCK 1/4-20	8142004	40

SLICING REEL ASSY 350252



item no.	PARTS LIST	PR500 Part No.	QTY
57	LOCK WASHER 5/16 TWISTED TOOTH	430298	1
58	SCREWCAP 5/16 - 24 X 1" GR. 5	400164	1
80	SHAFT SLICING WA	350142	1
81	BLADE SLICING REEL	350147	20
82	PLATE BLADE MTG.	350253	20
83	SPACER BLADE MTG.	350254	10
84	SPACER BLADE ASSY	350150	9
85	SCREWCAP 1/4-20 X 3/4 HCS ZP	8041004	40
86	NUT LOCK 1/4-20	8142004	40
87	COLLAR SPACER	350152	1
88	WASHER 0.937 x 1.750 x 0.119	350153	1
89	WASHER LOCK 7/8 INT. TOOTH	350154	1
90	NUT JAM 7/8-14	350155	1



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en	English	fi	Suomi	lv	Latviešu	ru	Русский
bg	Български език	fr	Français	nl	Nederlands	sl	Slovenščina
cs	Čeština	el	Ελληνικά	no	Norsk	sk	Slovák
da	Dansk	hr	Hrvatski	pl	Polski	sv	Svenska
de	Deutsch	hu	Magyar	pt	Português	tr	Türkçe
es	Español	it	Italiano	ro	Română		
et	eesti keel	lt	Lietuvių				

en	EC Declaration of Conformity	el	Δήλωση συμμόρφωσης ΕΚ	pl	Deklaracja zgodności UE
bg	Декларация за съответствие с европейските стандарти	hu	EU Megfelelőségi nyilatkozat	pt	Declaração de Conformidade à CE
cs	ES Prohlášení o shodě	hr	EC Deklaracija o sukladnosti	ro	Declarație de conformitate C.E.
da	EC Overensstemmelseserklæring	it	Dichiarazione di conformità CE	ru	Заявление о соответствии стандартам и нормам ЕС
de	EG-Konformitätserklärung	lv	EB atitiktības deklarācija	sl	ES izjava o skladnosti
es	Declaración de Conformidad de la CE	nl	E.C. Conformiteitsverklaring	sk	Vyhlasenie o zhode
et	Eü vastavustunnistus	no	CE konformitetserklæring	sv	EG-försäkran om överensstämmelse
fi	EC-vaatimustenmukaisuusvakuutus			tr	EC Uygunluk Deklarasyonu
fr	Déclaration de conformité CE				

en	Category	Power Rake/Overseeder	fr	Catégorie	Puissance Rake / semoir	pl	Kategoria	Rake zasiania / Siewnik
bg	Категория	Мощност Rake / Сеялка	el	Κατηγορία	Ισχύς Η γκανιότα / σπαρτική μηχανή	pt	Categoria	Rake Alimentação / Semeador
cs	Kategorie	Posilovač Šhmovač píče / sečí stroje	hu	Kategória	Power Rake / Vetőgép	ro	Categorie	Rake putere / Seeder
da	Kategori	Magt Raken / Seeder	hr	Kategorija	Snaga Rake / SIJAČICE	ru	Категория	Мощность Грабли / Сеялка
de	Kategorie	Strom Rechen/Einzelkornsämaschinen	it	Categoria	Potenza Rake / Seminatrice	sl	Kategorija	Moč Rake / Seeder
es	Categoría	Rastrillo de alimentación/ Sembradora	lv	Kategorija	Maitinimo grēbļus / Sējamoji	sk	Kategória	Power Rake / sejačky
et	Kategooria	Võimsus Rake / Seeder	lt	Kategorija	Jaudas grąbeklis / Sėjamašina	sv	Kategori	Ström Rake / Seeder
fi	Kategoria	Virta Rake / Kylvökone	nl	Categorie	Vermogen Rake / Zaaimachine	tr	Kategori	Güç Rake / Mibzeri
			no	Kategori	Strøm Rake / sårmaskin			

en	This is to certify that the products listed in this document meet the requirements of the European Community Law, and can carry the CE mark. These models comply with the following Directives and related Standards.
bg	Декларацията се издава в удостоверение на това, че изброените продукти съответстват на стандартите на правните норми на Европейския съюз и могат да носят знака CE. Моделите изпълняват директивите и техните стандарти, както следва.
cs	Tímto stvrzujeme, že výrobky uvedené v tomto dokladu splňují požadavky zákonů Evropského společenství a mohou být označeny značkou CE. Tyto modely splňují následující směrnice a související normy.
da	Det bekræftes hermed, at de produkter, der er nævnt i dette dokument, opfylder bestemmelserne i EU-lovgivningen og kan bære CE-mærkatet. Disse modeller er i overensstemmelse med følgende direktiver og relaterede standarder:
de	Hiermit wird bescheinigt, dass die in diesem Dokument aufgeführten Produkte mit den gesetzlichen Bestimmungen der Europäischen Gemeinschaft übereinstimmen und das CE- Zeichen tragen können. Diese Modelle erfüllen die folgenden Richtlinien sowie weitere anzuwendende Normen.
es	La presente certifica que los productos enumerados en este documento cumplen con los requerimientos de la Legislación de la Comunidad Europea, y que pueden portar la marca CE. Estos modelos cumplen con las siguientes Directrices y Estándares relacionados:
et	Kinnitame, et eespool nimetatud tooted vastavad Euroopa Ühenduse seadusandluse nõuetele ja kannavad CE-märgistust. Eespool nimetatud mudelid vastavad järgmistele direktiividele ja seotud standardidele:
fi	Vakuutamme, että tässä asiakirjassa luetellut tuotteet täyttävät Euroopan Unionin lainsäädännön asettamat vaatimukset ja voi saada CE-merkinnän. Nämä mallit täyttävät seuraavien direktiivien ja niitä koskevien standardien vaatimukset:
fr	Nous déclarons par la présente que les produits mentionnés dans le document sont conformes à la législation de la Communauté européenne et peuvent porter le marquage CE. Ces modèles sont conformes aux directives suivantes et aux normes connexes :
el	Με την παρούσα δήλωση πιστοποιείται ότι τα προϊόντα που αναφέρονται στην παρούσα πληρούν τις απαιτήσεις της Ευρωπαϊκής Κοινοτικής Νομοθεσίας και μπορούν να φέρουν τη σήμανση CE. Τα μοντέλα αυτά συμμορφώνονται με τις ακόλουθες Οδηγίες και τα σχετικά Πρότυπα.
hu	Ez annak tanúsítására szolgál, hogy a dokumentumban felsorolt termékek megfelelnek az Európai közösségi jog követelményeinek és viselheti a CE jelzést. Ezek a modellek eleget tesznek a következő irányelveknek és vonatkozó szabványoknak.
hr	Ovo je potvrda da proizvodi koji su navedeni u ovom dokumentu odgovaraju zakonima europske zajednice i da nose CE oznaku. Ovi modeli zadovoljavaju sljedeće direktive i odgovarajuće standarde.
it	Si certifica che i prodotti elencati nel presente documento soddisfanno i requisiti della legislazione della Comunità Europea e possono recare il marchio CE. Questi modelli sono conformi alle seguenti norme e direttive:
lt	Šiuo patvirtiname kad šiame dokumente paminėti produktai atitinka Europos Bendrijos įstatymų reikalavimus ir jie gali būti pažymėti CE ženkle. Šie modeliai atitinka sekančias direktyvas ir standartus.
lv	Ar šo tiek apstiprināts, ka šajā dokumentā uzskaitītie izstrādājumi atbilst Eiropas Kopienas Likuma prasībām un var tikt marķēti ar emblēmu CE. Šie modeļi atbilst sekojošajām Direktīvām un attiecīgajām Normām.
nl	Hiermee wordt gecertificeerd dat de producten die in deze lijst staan opgesomd, voldoen aan de wettelijke voorschriften van de Europese Gemeenschap en mogen worden voorzien van de CE markering. Deze modellen voldoen aan de volgende richtlijnen en bijbehorende normen:
no	Dette sertifiserer at produktene som er nevnt i dette dokumentet oppfyller kravene som stilles av EU, og at de dermed kan CE-merkes. Disse modellene tilfredsstiller følgende direktiver og relaterte standarder:
pl	Niniejszym zaświadcza się, że produkty wymienione w niniejszym dokumencie spełniają wymogi Prawa Wspólnoty Europejskiej i mogą nosić oznakowanie CE. Modele te spełniają wymogi następujących dyrektyw i powiązanych norm.
pt	O presente documento certifica que os produtos listados neste documento atendem aos requisitos das Leis da Comunidade Europeia e podem levar a marca CE. Esses modelos estão de acordo com as seguintes diretivas e padrões relacionados.
ro	Prin prezenta se atestă faptul că produsele menționate în acest document îndeplinesc cerințele de Drept Comunitar European și pot purta sigla C.E. Aceste modele sunt în conformitate cu următoarele directive și standarde asociate.
ru	Настоящим удостоверяется, что перечисленные в этом документе изделия соответствуют требованиям законов Европейского Союза и могут быть обозначены знаком CE. Эти модели отвечают требованиям следующих директив и соответствующих стандартов.
sl	To služi kot potrđitev, da izdelki, ki so navedeni v tem dokumentu, ustrezajo zahtevam zakonodaje Evropske skupnosti in so lahko opremljeni z oznako CE. Ti modeli so v skladu z naslednjimi direktivami in povezanimi standardi.
sk	Týmto vyhlasujeme, že výrobky uvedené v tomto dokumente, splňajú požiadavky zákonov ES a môžu byť označené značkou CE. Tieto modely vyhovujú nasledujúcim smerniciam príslušným normám.
sv	Härmed försäkras att produkterna som finns listade i detta dokument uppfyller kraven i Europeiska gemenskapens lagstiftning och kan förses med CE-märket. Modellerna uppfyller följande direktiv och tillhörande normer.
tr	Bu belgeyle belirlenen ürünlerin Avrupa Birliği Yasası gereksinimlerini karşılayarak CE işareti taşıyabilmesini onaylamak içindir. Bu modeller aşağıdaki Direktif ve ilgili Standartlarla uyumludur



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en Directive: 2006/42/EC	hu Irányelv: 2006/42/EC	pt Diretiva: 2006/42/EC
bg Директива: 2006/42/EC	el Οδηγία: 2006/42/EC	ru Директива: 2006/42/EC
cs Směrnice č. 2006/42/EC	hr Direktiva: 2006/42/EC	ro Directiva: 2006/42/EC
da Direktiv: 2006/42/EF	it Direttiva: 2006/42/EF	sl Direktiva: 2006/42/EF
de Richtlinie: 2006/42/EG	lt Direktyva: 2006/42/EG	sk Smernica: 2006/42/EG
es Directriz: 2006/42/EC	lv Direktīva: 2006/42/EC	sv Direktiv: 2006/42/EC
et Direktiiviga: 2006/42/EÜ	nl Richtlijn: 2006/42/EÜ	tr Direktif: 2006/42/EÜ
fi Direktiivi: 2006/42/EC	no Direktiv: 2006/42/EC	
fr Directives : 2006/42/CE	pl Dyrektywy: 2006/42/CE	

en Model	Guaranteed Sound Power Level	Measured Sound Power Level	Sound Pressure Level at Operator's Ear (1)	Engine Net Power	Hand/Arm Vibration (2)	Mass
bg Model	Гарантирано ниво на звука	Измерено ниво на звука	Налягане на звука, измерено на нивото на ухото на оператора (1)	Мощност на двигателя	Вибрация на дланта и на ръката (2)	Маса
cs Model	Garantovaná hladina akustického výkonu	Změřená hladina akustického výkonu	Hladina akustického tlaku naměřená u ucha obsluhující osoby (1)	Užitečný výkon motoru	Vibrace rukou/paří (2)	Váha
da Model	Garanteret støjriveau	Målt støjriveau	Lydtryksniveau ved brugers øre (1)	Maskine Netto kraft	Vibration af hånd/arm (2)	Vægt
de Modell	Garantierter Schalleistungspegel	Gemessener Schalleistungspegel	Schalldruckpegel am Ohr der Bedienungsperson (1)	Motor Nettoleistung	Vibrationen an Hand/Arm (2)	Masse
es Modelo	Nivel garantizado de potencia acústica	Nivel medido de potencia acústica	Nivel de presión acústica en el oído del operador (1)	Potencia neta del motor	Vibración mano / brazo (2)	Masa
et Mudel	Garanteeritud heliivõimsuse tase	Mõõdetud heliivõimsuse tase	Helirõhu tase kasutaja kõrvna juures (1)	Masin puhas töötav	Võkumine käsi / käsivars (2)	Massi
fi Malli	Taattu äänitehotaso	Mitattu äänitehotaso	Äänepaine tase käyttäjän korvan tasolla (1)	Moottorin nettoteho	Käden/käsivarren värinä (2)	Paino
fr Modèle	Niveau de bruit garanti	Niveau de bruit mesuré	Niveau sonore au niveau de l'oreille de l'opérateur (1)	Puissance nette du moteur	Vibrations au niveau de la main/du bras (2)	Masse
el Μοντέλο	Εγγυημένη στάθμη ηχητικής ισχύος	Μετρηθείσα στάθμη ηχητικής ισχύος	Στάθμη ηχητικής πίεσης στο αυτί του χειριστή (1)	Καθαρή ισχύς κινητήρα	Χειροβραχιονική δόνηση (2)	Μάζα
hu Model	Garantált hangteljesítmény szint	Mért hangteljesítmény szint	Hangnyomás szint a gépkezelő fülénél (1)	Motor hasznos teljesítménye	Kéz/kar vibráció (2)	Tömeg
hr Model	Zajamčena razina snage zvuka	Izmerjena razina snage zvuka	Razina zvučnog tlaka na uhu rukovatelja (1)	Neto snaga motora	Vibracije šake/ruke (2)	Masa
it Modello	Livello acustico garantito	Livello acustico misurato	Livello di pressione acustica all'orecchio dell'operatore (1)	Potenza netta motore	Vibrazioni a mani/braccia (2)	Massa
lt Modelis	Garantuotas triukšmo lygis	Pamatuotas triukšmo lygis	Garso spaudimo lygis įrangos naudotojui (1)	Variklio bendras galinumas	Rankenos vibracija (2)	Masė
lv Modelis	Garantētais skaņas jaudas līmenis	Izmērītais skaņas jaudas līmenis	Skaņas spiediena līmenis pie operatora ausis (1)	Dzinēja neto jauda	Rokas/pleca vibrācija (2)	Masa
nl Model	Gegarandeerd geluidsrukniveau	Gemeten geluidsrukniveau	Geluidsrukniveau bij het oor van de gebruiker (1)	Netto motorvermogen	Trilling van hand/arm (2)	Mass
no Modell	Garantert lydsterkenivå	Målt lydsterkenivå	Lydtrykk-nivå ved operatørens øre (1)	Motorens netto krefter	Hånd/arm-vibrasjon (2)	Masse
pl Model	Gwarantowany poziom mocy akustycznej	Zmierzony poziom mocy akustycznej	Poziom ciśnienia akustycznego w uchu operatora (1)	Moc netto silnika	Drgania ręki/ramienia (2)	Masa
pt Modelo	Nível de potência de som garantido	Nível de potência de som medido	Níveis de pressão do som no ouvido do operador (1)	Potência útil do motor	Vibração na mão/braço (2)	Massa
ro Model	Nivel de zgomot garantat	Nivel de zgomot măsurat	Nivel de presiune acustică la urechea operatorului (1)	Putere netă motor	Vibrație mână/braț (2)	Masă
ru Модель	Гарантированный уровень звуковой мощности	Измеренный уровень звуковой мощности	Уровень звукового давления на месте оператора (1)	Полезная мощность двигателя	Интенсивность вибрации на ладонях/руках (2)	Вес
sl Model	Zajamčena raven zvočne moči	Izmerjena raven zvočne moči	Raven zvočnega tlaka pri užesu uporabnika (1)	Izhodna moč motorja	Tresljaji na rokah (2)	Masa
sk Model	Zaručená hladina akustického výkonu	Nameraná hladina akustického výkonu	Hladina akustického tlaku pôsobiaceho na ucho obsluhy (1)	čistý výkon motora	Ruka/Rameno Vibrácia (2)	Masa
sv Modell	Garanterad ljudeffektnivå	Uppmätt ljudeffektnivå	Ljudtrycksnivå vid operatörens öra (1)	Motoreffekt netto	Hand-/ armvibrationer (2)	Massa
tr Model	Garantili Ses Gücü Seviyesi	Ölçülen Ses Gücü Seviyesi	Operatörün Kulağındaki Ses Basıncı Seviyesi (1)	Makine Net Gücü	El/Kol Titreşimi (2)	Ağırlık
CR550H	100 dB(A)	99 dB(A)	81dB(A)	3.7 kW	9.94 m/s ²	56.8 kg
CR550HC	100 dB(A)	99 dB(A)	81dB(A)	3.7 kW	9.94 m/s ²	56.8 kg
CR550HCEU	100 dB(A)	99 dB(A)	81dB(A)	3.7 kW	9.94 m/s ²	56.8 kg
PR550	102 dB(A)	101dB(A)	82 dB(A)	4.1kW	8.04	147 kg
PR550H	102 dB(A)	101dB(A)	82 dB(A)	4.1kW	8.04	147 kg
OS552	102 dB(A)	101dB(A)	82 dB(A)	4.1kW	8.04	147 kg
OS552H	102 dB(A)	101dB(A)	82 dB(A)	4.1kW	8.04	147 kg



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(1) ISO 5395-1:2013 F.7 (EN 4871:1996)
(2) ISO 5395-1:2013 G.8 (EN 12096:1997, D.1)

en	Manufacturing Place / Keeper of Documentation	el	Τόπος κατασκευής / Υπεύθυνος πύρησης αρχείων τεκμηρίωσης	pl	Miejsce produkcji / Osoba odpowiedzialna za przechowywanie dokumentów
bg	Място на производство / Архивар	hu	Gyártás helye / A dokumentáció őrzője	pt	Local de Fabrico / Responsável pela Documentação
cs	Místo výroby / Držitel dokumentace	hr	Mjesto proizvodnje / Čuvar dokumentacije	ro	Loc de fabricație / Păstrător documentație
da	Fremstillingssted / Indehaver af dokumentationen	it	Sede di produzione / Archiviatore di documentazione	ru	Место производства / Владелец документации
de	Herstellungsort / Verantwortlicher für die Dokumentation	lt	Pagaminimo vieta / Dokumentacijos turėtojas	sl	Kraj izdelave / Hranitelj dokumentacije
es	Lugar de manufactura / Guardián de documentación	lv	Ražošanas vieta / Dokumentācijas glabātājs	sk	Miesto výroby / Dokumentácia majiteľa
et	Valmistamiskoht / Dokumentatsiooni hoidja	nl	Productieplaats / Documentatiebeheerder	sv	Tillverkningsplats / Dokumentförvaring
fi	Valmistuspaikka / Asiakirjojen haltija	no	Produksjonssted / Dokumentasjonsholder	tr	Üretim Yeri / Doküman Sorumlusu
fr	Lieu de fabrication / Personne chargée de conserver la documentation				

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Revision: F100515A

10/05/2015