

**INSTRUCTION MANUAL** 

# RC185 Concrete and Asphalt Saws



**ENGINE:** 

Honda GX390

**PART NUMBER:** 

4812334057



# **Table of Contents**

# **Table of Contents**

1		Foreword
2		Safety Instruction
3		Technical specifications
4		Dimension
5		Transport
	1	Transport to work site
	2	Fitting of the cutting disc
	3	Operation
	3.1	Engine check before starting5
	3.2	Starting the engine
	3.3	Operation mechanism 5
	3.4	Please pay attention to the following
	3.5	Stopping the engine operator position 6
6		Important advice
	1	Spare parts ordering:
	2	Scrapping
	3	Main materials
	4	Maintenance schedule
	5	Maintenance
	5.1	Monthly maintenance
	5.2	Cutter Machine Life Fitness
7		Operation9
8		Engine
9		Spare part List

Table of Contents	

#### **Foreword**

These operating and maintenance instructions are part of your machine.

They provide necessary information to operate your machine safely and properly.

They also contain information on required operating, maintenance and repair measures.

Carefully read the operating and maintenance instructions before taking your machine into operation.

Please observe the safety regulations strictly and follow all instructions to ensure safe operation.

The description of the individual operating steps including the notes on safety to be followed can be found in chapter "Operation"

Ensure the compliance with the specified operating, maintenance and repair measures to maintain the functional safety of your machine.

Do not service or repair your machine by yourself to avoid harming persons or damaging material or environment.

The machine must only be serviced and repaired by qualified and authorised personnel.

Contact our customer service to carry out the required maintenance work or necessary repairs.

In case of operating errors, inadequate maintenance or the use of unapproved fuels and lubricants all warranty claims will become null and void.

For your own personal safety you should only use original parts from REDLINE.

For your machine we offer service kits to make maintenance easier.

In the course of technical development we reserve the right for technical modifications without prior notification.

These operating and maintenance instructions are also available in other languages.

Apart from that, you can also order the spare parts catalogue against the serial number of your machine.

The above notes do not constitute an extension of the warranty and liability conditions specified in the general sales and delivery conditions of REDLINE GmbH.

We wish you successful work with your REDLINE machine.

Dynapac Road Construction Equipment (India) Pvt. Ltd.

Plot no 01, Gat no. 163-168, Alandi Markal road,

Village: Fulgaon, Taluka: Haveli, Dist: Pune- 412216, India

dynapac-redline.com

# **Operation Manual - Safety Instruction**

# **Safety Instruction**

- Laws governing safety aspects on machinery may vary between countries but the following guides will useful to all operators:
- Before starting, carefully read the machine maintenance and operating manual and follow all the instructions.
- Use unleaded fuel only, for gasoline engines.
- Never operate the machine without the belt guard.
- Keep hand and feet away from moving parts while the machine is running.
- Do not operate the machine in closed places and inflammable environment.
- Operating the machine is advisable only with good lighting conditions.
- Hearing protection must be worn.
- Foot protection must be worn.
- Do not touch hot surfaces.

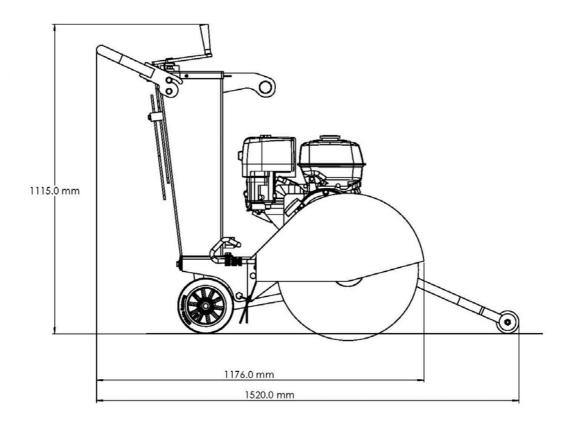


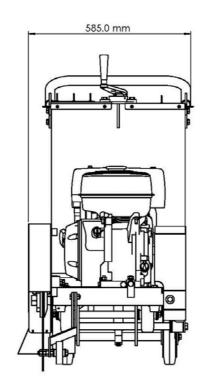
# **Technical specifications**

Models cat. no	RC185 HONDA GASOLINE				
Weight kg.	135				
Power transmission	V-Belt				
Max. Diameter of blade mm	500				
Min. Diameter of blade mm	350				
Bore mm	25.4				
Max. Cutting depth mm	185				
Disc`s circumferential speed Ø350 m/s Ø500 m/s (at engine`s nominal speed) No-load revolutions of disc1/min	45 64 2097				
(at engine`s nominal speed)					
Water tank capacity litres	40				
Drive motor Model	Honda GX390 Recoil start				
Output - HP	13				
Engine speed - rpm	3600				
Fuel tank - litres	6.5				
Engine oil - litres SAE 15W/40	1.1				
Air cleaner	Dry type				
NOISE AND	VIBRATIONS				
Sound power level ac	cording to ISO 5349 (*)				
Measured sound power level LwA=dB(A)	106				
Vibration values a=m/s²	The hand - arm vibration values according to ISO 5439				
	2.96				

<sup>(\*)</sup> The above noise level and vibration values were determined at normal speed of the engine. During operation these values may differ because of the actual operational conditions.

# Dimension





## **Transport**

- 1 Transport to work site: see pictures 1 in page 9
  - Only use suitable lifting equipment with a minimum lifting capacity of 200 kg for the transport of the floor saw.
  - Always switch off motor during transport!
  - Empty the water tank.
  - Attach appropriate secure lifting devices to the central lifting point (A) provided for this purpose.
  - Remove the cutting disc and place the floor saw in the highest possible cutting position before transporting the machine.
  - Fold the handle down.
- 2 Fitting of the cutting disc: see pictures 3-8 in page 9 & Page 10
- 3 Operation
- 3.1 Engine check before starting
  - 1. Fill fuel tank.
  - 2. Check oil level in engine crankcase and top up necessary type of oil according to manufacturer's instructions.
  - 3. Fill up the water tank. (See picture 8A-8B in page 10)
  - 4. Before starting the engine, make sure that the blade is not touching the ground. (See picture 9 in page 10.
  - 5. To rise the blade, turn handle B clockwise (See picture 10 in page 10)
- 3.2 Starting the engine see pictures 13-19 in page 11 & page 12
- 3.3 Operation mechanism see pictures 11 in page 11
  - 1. Run the engine at idle speed for a few minutes.
  - 2. Move the throttle to maximum engine speed
  - 3. Make sure that the blade is not vibrating by visual inspection.
  - 4. Open water tap.
  - 5. Lower the blade into the floor by slowly turning handle B anti-clockwise.
  - 6. When blade reaches to required depth (as indicated on depth gauge) lock handle B by knob C.

# **Operation Manual - Transport**

# 3.4 Please pay attention to the following:

- 1. Long engine life, less blade wear and best cutting results is achieved by keeping steady engine speed (RPM) while cutting.
- 2. Do not allow the blade to be lowered down below the concrete or asphalt into the sand. This will result in a higher wear rate of the blade.
- 3. When the cutting is finished, raise the blade from the floor. Allow the engine to idle for 2-3 minutes and then switch it off.
- 3.5 Stopping the engine operator position See Pictures 20 22 in page 12

# Important advice

The manufacturer declines all responsibility for loss or damage resulting from misuse or any modification or alteration that does not conform to the manufacturer's original specifications.

At the workstation, the sound pressure level may exceed 85 db (A). In this case individual protection measures must be taken.

# 1 Spare parts ordering:

When ordering spare parts, please mention machine serial no., part no. and description.

## 2 Scrapping:

In the event of deterioration and scrapping of the machine, the following items must be disposed of in accordance with the requirements of the legislation in force.

#### 3 Main materials:

1. Engine: Aluminium (AL), Steel (AC), Copper (CU), Polyamide (PA)

2. Machine: Steel sheet (AC)



The instructions for use and spare parts found in this document are for information only and are not binding. As part of our product quality improvement policy, we reserve the right to make any and all technical modifications without prior notice.

#### 4 Maintenance schedule:

Check a	Check all external screw connections for tight fit approx. 8 hours after first operation.						
Parts	Maintenance interval						
Air filter	Check for external damage and tight fit. Check foam and filter insert clean or replace if necessary.						
Engine oil other parts	Check oil level, top up if necessary.  Check cutting disc for damages and correct tightenning - change and or adjust if necessary.  Pay attention to the directional arrow on the disc.	Daily					
Belt	Check tension and wear - replace if necessary.	Weekly					
Engine	See engine manufacturers handbook						

### 5 Maintenance

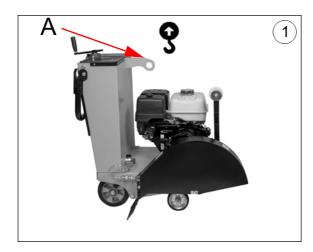
# 5.1 Monthly maintenance:

- Perform maintenance work on engine according manufacturer's instructions.
- Check belt tightness and tighten if necessary.
- Belts should be move 10 -15 mm when pushed by the thumb (See picture 12 in page 11).
- Grease blade shaft bearings.
- Check and retighten bolts and nuts.

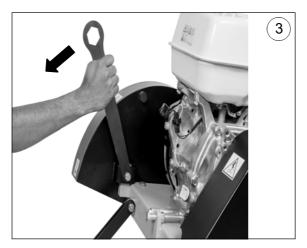
#### 5.2 Cutter Machine Life Fitness:

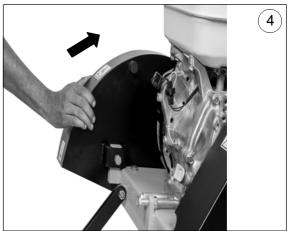
- Park parallel to the plane surface.
- Lift the machine from the lifting hook.
- Grease the machine daily.
- Check the tight fit of the air filter external and insert the clean foam and filter on a daily basis.
- Check the oil level.
- Ensure the correct fitting of the blade as per the arrow mark direction on the blade.
- Ensure the engine is operated at maximum RPM to avoid receiving an unwanted load in regular intervals of operation time.
- Speed of the blade should not be below 2700 RPM (12HP Engine, RPM in max.)
- Cool the saw blade by getting enough water from the tank in gravity by ¾ inches diameter hose pipe, 5 gallons/min water flow from the tank to the blade.
- Cutting blade life depends upon the strength of the concrete in consideration of the compressive strength of 3000 psi (fresh OPC concrete within 120hrs).
- Cutter machine blade should not be in contact with external abrasive material a blade, other than concrete will wear out blade life faster.
- To achieve the said life (linear 750 Meters) the Dimond cutting blade is 100mm depth and 500mm diameter with a speed of 2700 RPM.
- Educate the end user about the above basic points to follow during Commissioning.

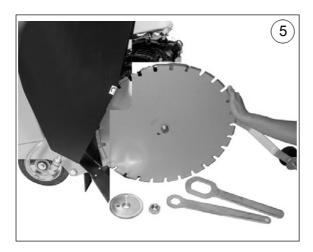
# Operation

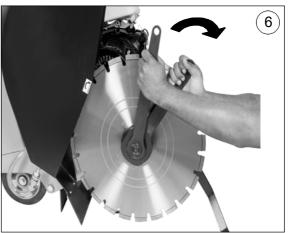




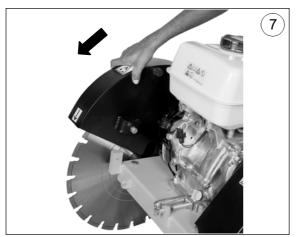


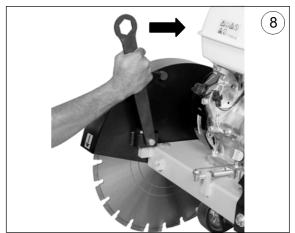


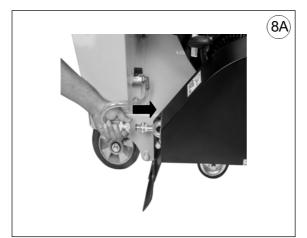




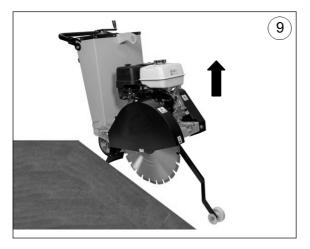
# Operation Manual - Operation

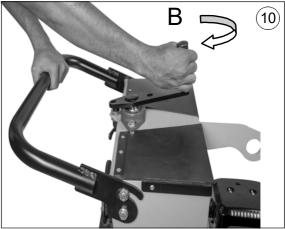




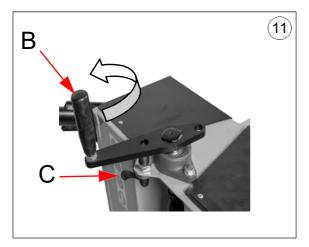


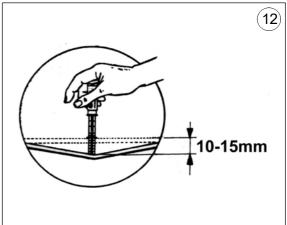




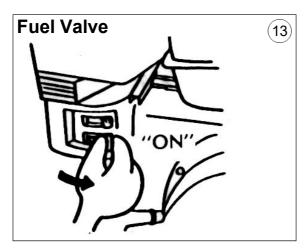


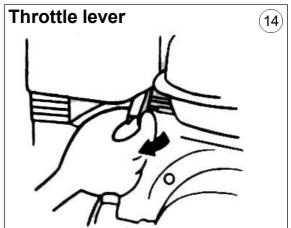
# Operation Manual - Engine

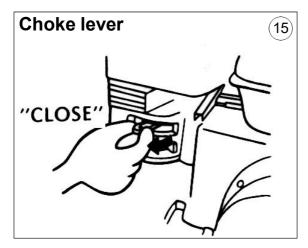


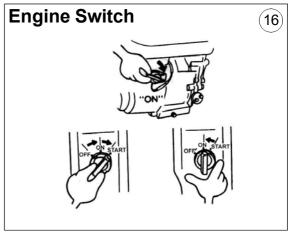


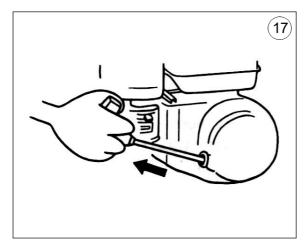
# Engine

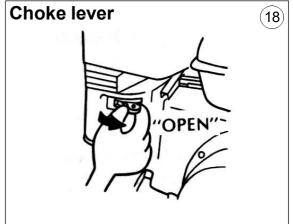


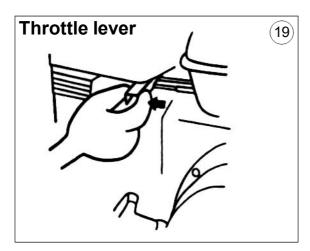


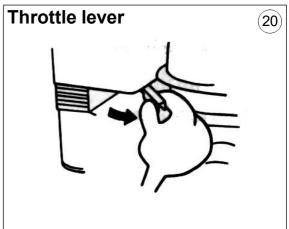


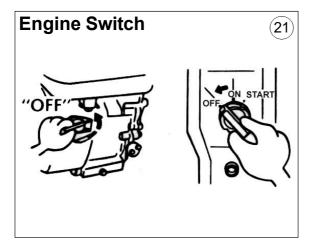


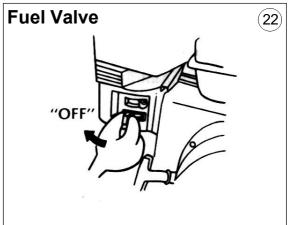






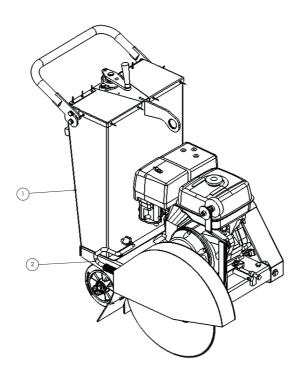






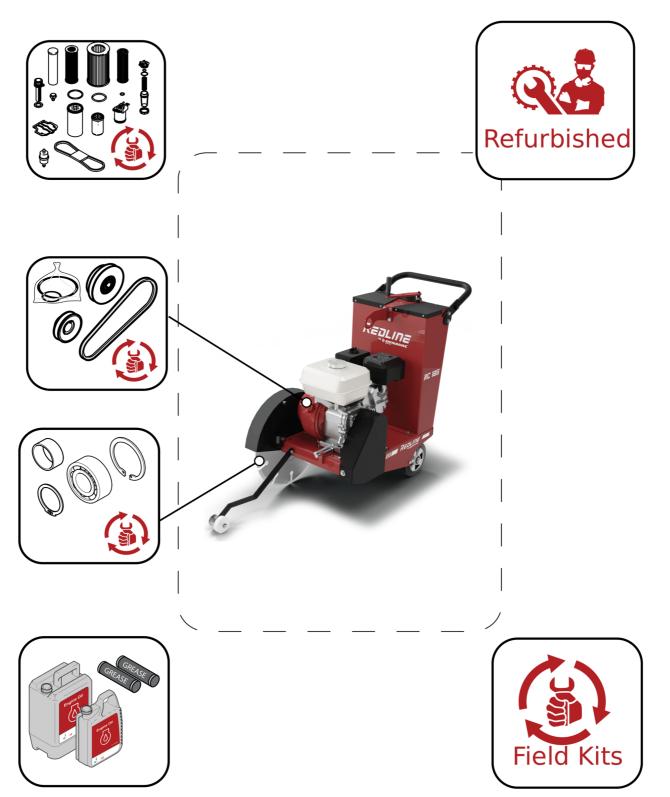
C185
ervice, repair and wear part kits
Kits-4812334057 Service, repair and wear part kits
Service, repair and wear part kits
4812334945 Repair kit, Transmission
4812334946 Repair kit, Transport wheels
4812334947 Repair kit, Front Pointer Assembly
4812334948 Repair kit, Depth control handle
Service parts
Refurbishing kits
4812334951 Refurbishing kit - covering
Field kits
4812334949 Field kits, Cutter Blade
4812334950 Field kits, Water system
Lubricants
oncrete and Asphalt Saw, cpl.
Concrete and Asphalt Saw
Service parts
ater system
Water system

Spare parts list	Concrete and Asphalt Saws RC185
Defects Darte Online for the most up to date information. The printed information might	



Item	Part No.	Name	Qty	L	С	SN INFO
1	-	Concrete and Asphalt Saw				
2	-	Water system				

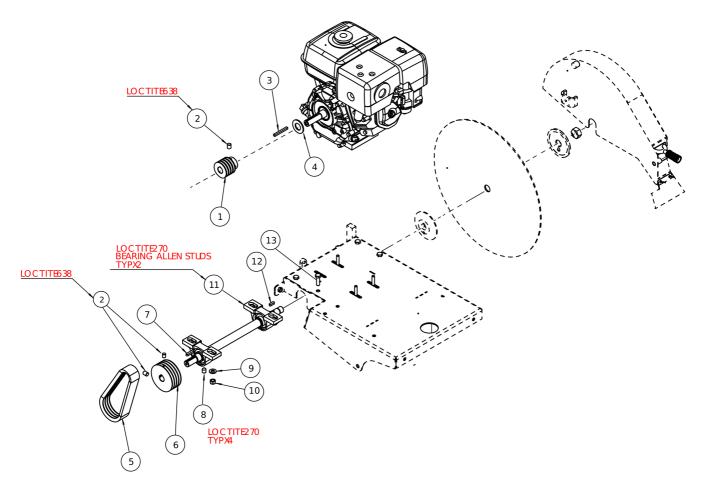
Service, repair and wear part kits Kits-4812334057 Service, repair and wear part kits



Item	Part No.	Name	Qty	L	С	SN INFO
1	Service, repair and wear part kits	Service, repair and wear part kits				
1.1	4812334945	Repair kit, transmission	1			

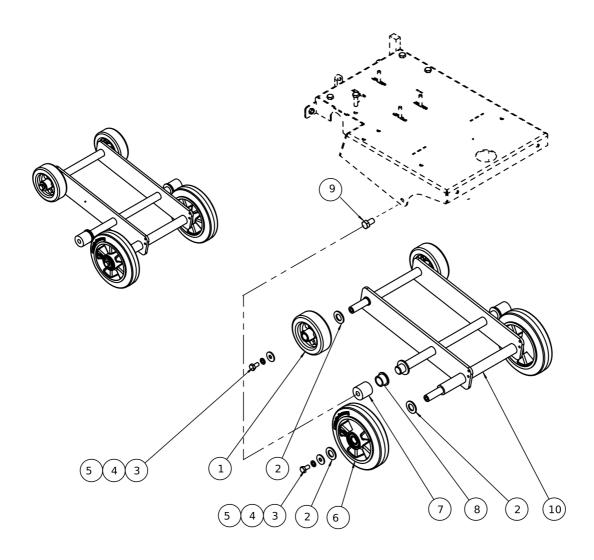
Item	Part No.	Name	Qty	L	С	SN INFO
1.2	4812334946	Repair kits,Transport wheels	1			
1.3	4812334947	Repair kit, Front Pointer Assembly	1			
1.4	4812334948	Repair kit, Depth control handle	1			
1.5	4812334057	Service kit	1			
2	Refurbishing kit	Refurbishing kit				
2.1	4812334951	Refurbishing kit - covering	1			
2.2	Refurbishing kit - decals	Refurbishing kit - decals				
3	Field kit	Field kit				
3.1	4812334949	Field kits, Cutter Blade	1			
3.2	4812334950	Field kits, Water system	1			
4	PNNA	Lubricants and operating substances				

# Service, repair and wear part kits 4812334945 Repair kit, Transmission



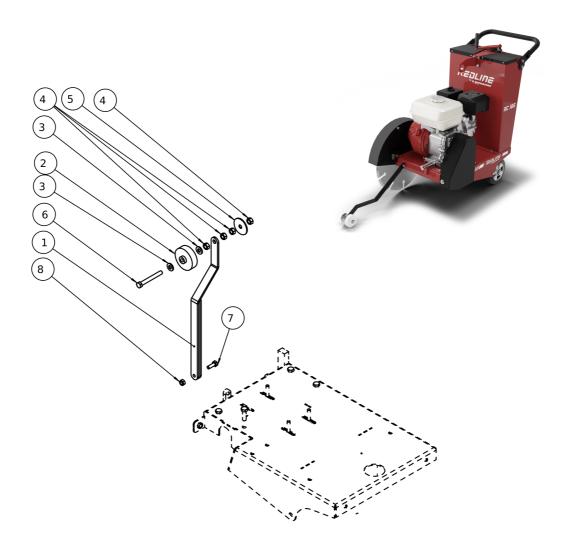
Item	Part No.	Name	Qty	L	С	SN INFO
KIT	4812334945	Repair kit, transmission	1			
1	4812086267	V-belt pulley	1			
2	4812086268	Hex.soc. Set screw	4			
3	4812086269	Key	1			
4	4812086270	Engine spacer	1			
5	4812086286	V-belt	4			
6	4812086285	V-belt pulley	1			
7	4812086284	Key	1			
8	4812334984	Hex Socket Set Scrrew	4			
9	4812086277	Plain washer	6			
10	4812086280	Self locking nut	4			
11	4812086283	Pillow block bearing	2			
12	4812086281	Key	1			
13	4812086264	Hex. Head screw	4			

# Service, repair and wear part kits 4812334946 Repair kit, Transport wheels



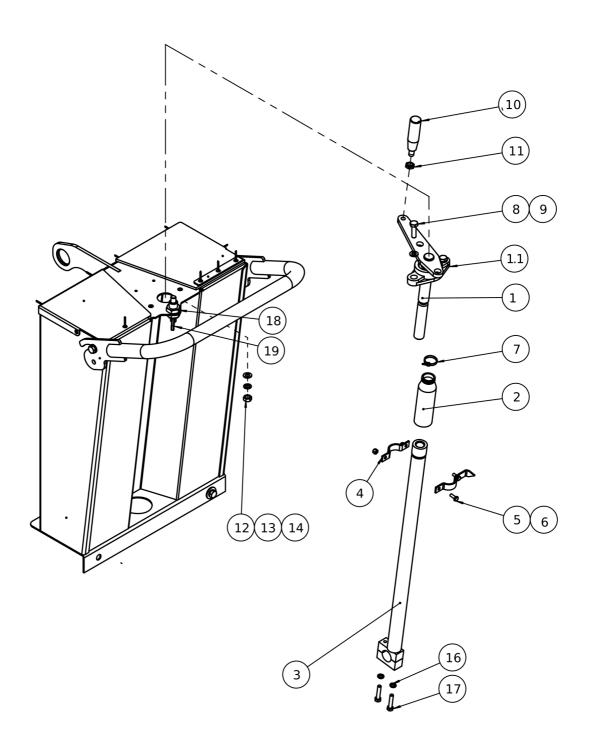
Item	Part No.	Name	Qty	L	С	SN INFO
KIT	4812334946	Repair kits,Transport wheels	1			
1	4812086295	Wheel	2			
2	4812086294	Washer	6			
3	4812086226	Washer	4			
4	4812086225	Lock washer	4			
5	4812086231	Hex. Head screw	4			
6	4812086296	Set wheel & washer	2			
7	4812086297	Bush holder	2			
8	4812086298	Nylon bush	2			
9	4812086289	Hex. Head screw	2			
10	4812086299	Base trolley	1			

# Service, repair and wear part kits 4812334947 Repair kit, Front Pointer Assembly



Item	Part No.	Name	Qty	L	С	SN INFO
KIT	4812334947	Repair kit, Front Pointer Assembly	1			
1	4812086279	Front pointer	1			
2	4812086278	Wheel	1			
3	4812086277	Plain washer	2			
4	4812086265	Hex. Nut	4			
5	4812086276	Washer	1			
6	4812086266	Hex. Head screw	1			
7	4812086224	Hex.head screw	5			
8	4812086280	Self locking nut	1			

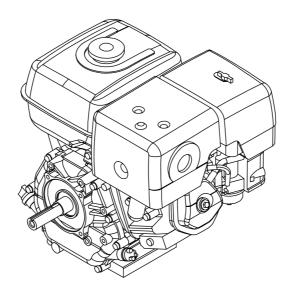
# Service, repair and wear part kits 4812334948 Repair kit, Depth control handle



Item	Part No.	Name	Qty	L	С	SN INFO
KIT	4812334948	Repair kit, Depth control handle	1			
1	4812086238	Depth control handle	1			

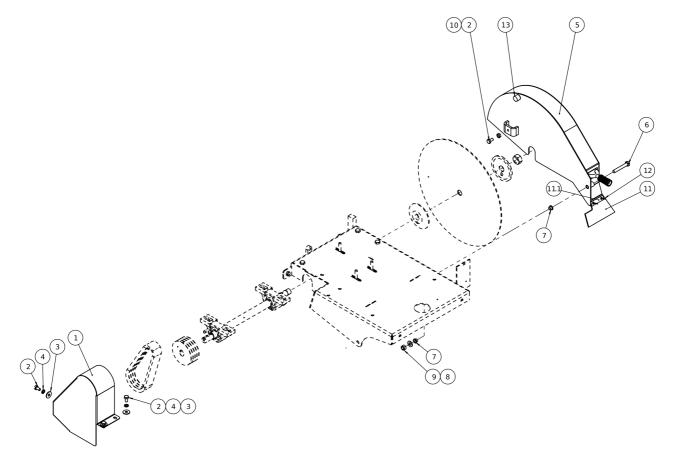
Item	Part No.	Name	Qty	L	С	SN INFO
1.1	4812086239	Flange bearing	1			
2	4812086234	Rubber bellows	1			
3	4812086227	Depth control pipe	1			
4	4812086228	Depth indicator assembly	1			
5	4812086229	Hex. Head screw	2			
6	4812086230	Self locking nut	2			
7	4812086235	Black nylon tie	1			
8	4812086240	Hex.head screw	2			
9	4812086241	Washer	8			
10	4812086243	Swivel handle	1			
11	4812086242	Hex.thin nut	1			
12	4812086256	Nut	4			
13	4812086225	Lock washer	4			
14	4812086241	Washer	8			
16	4812086301	Lock washer	2			
17	4812086302	Hex. Head screw	2			
18	4812086236	Locking pin-federriegel with thread	1			
19	4812086237	Hex.thin nut	2			

# Service, repair and wear part kits Service parts



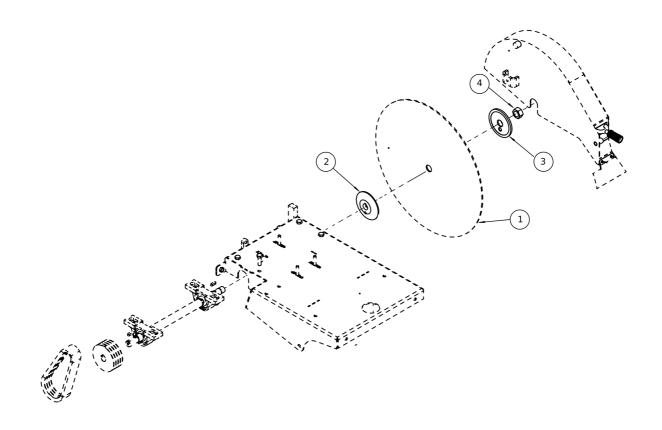
Item	Part No.	Name	Qty	L	С	SN INFO
1	4812086309	Washer for oil drain plug	2			
2	4812086310	Rope for recoil starter	1			
3	4812086311	Spark plug	1			
4	4812086312	Element Air Cleaner	1			

# Refurbishing kits 4812334951 Refurbishing kit - covering



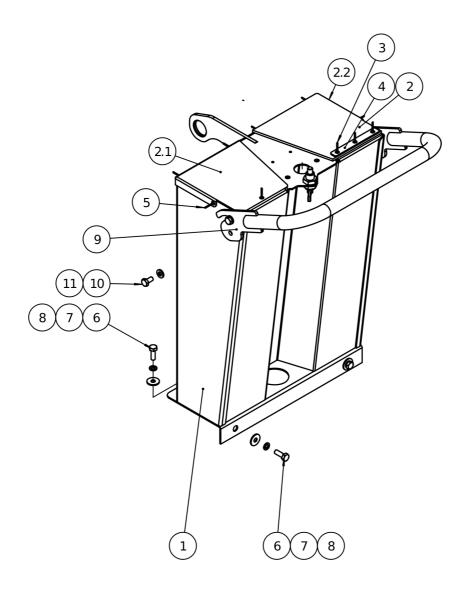
Item	Part No.	Name	Qty	L	С	SN INFO
KIT	4812334951	Refurbishing kit - covering	1			
1	4812086287	Belt guard	1			
2	4812086231	Hex. Head screw	5			
3	4812086226	Washer	4			
4	4812086225	Lock washer	4			
5	4812086259	Blade guard	1			
6	4812086257	Hexagon head screw	1			
7	4812086258	Plastic bush	2			
8	4812086277	Plain washer	1			
9	4812086280	Self locking nut	1			
10	4812086256	Nut	7			
11	4812086254	Splash guard	1			
11.1	4812086255	Splash guard holder	1			
12	4812086253	Blind rivet	2			
13	4812086261	Blade guard antivibration mounting	1			

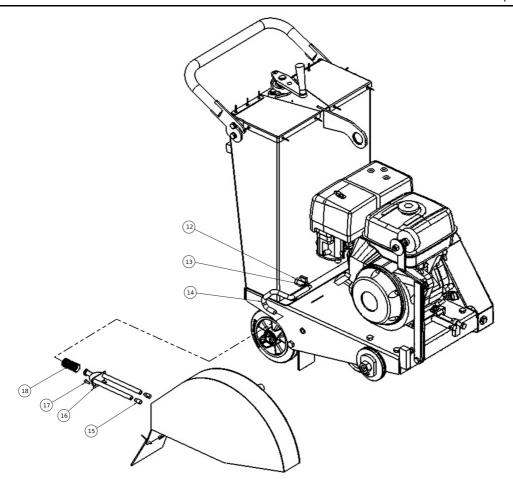
# Field kits 4812334949 Field kits, Cutter Blade



Item	Part No.	Name	Qty	L	С	SN INFO
KIT	4812334949	Field kits, Cutter Blade	1			
1	4812086428	Diamond saw	1			
2	4812086263	Inner blade collar	1			
3	4812086262	Outer blade collar	1			
4	4812086260	Blade shaft nut	1			

# Field kits 4812334950 Field kits, Water system

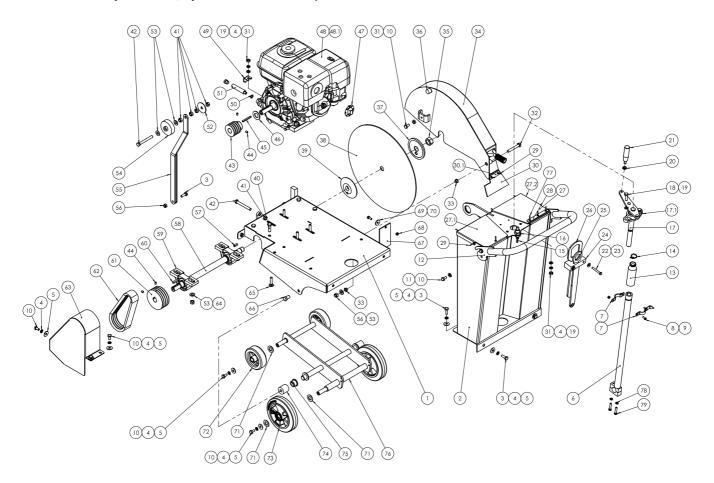




Item	Part No.	Name	Qty	L	С	SN INFO
KIT	4812334950	Field kits, Water system	1			
1	4812086223	Water tank assembly	1			
2	4812086249	Water tank cover	1			
2.1	4812086250	Water tank cover	1			
2.2	4812086251	Elbow stripe water tank	1			
3	4812086300	Blind rivet	3			
4	4812086252	Tank cover holder	1			
5	4812086253	Blind rivet	4			
6	4812086224	Hex.head screw	4			
7	4812086225	Lock washer	4			
8	4812086226	Washer	4			
9	4812086233	Handle	1			
10	4812086231	Hex. Head screw	2			
11	4812086232	Washer	2			
12	4812086303	Ball valve	1			
13	4812086304	Elbow hose connector	1			
14	4812086305	Plastic pipe				

Item	Part No.	Name	Qty	L	С	SN INFO
15	4812086306	Rubber plug	2			
16	4812086307	Water spliter assy.	1			
17	4812086229	Hex. Head screw	2			
18	4812086308	1/2" quick connector	1			

# Concrete and Asphalt Saw, cpl. Concrete and Asphalt Saw



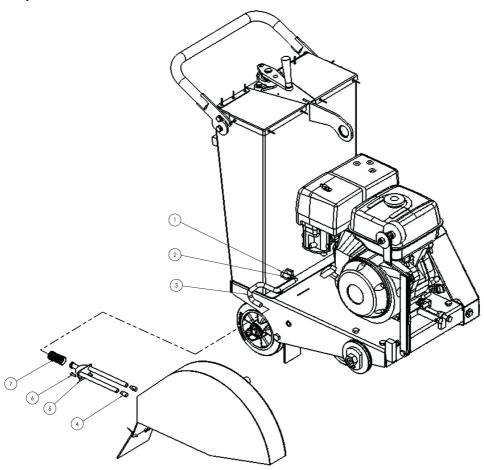
Item	Part No.	Name	Qty	L	С	SN INFO
1	4812086222	Machine frame	1			
2	4812086223	Water tank assembly	1			
3	4812086224	Hex.head screw	5			
4	4812086225	Lock washer	17			
5	4812086226	Washer	12			
6	4812086227	Depth control pipe	1			
7	4812086228	Depth indicator assembly	1			
8	4812086229	Hex. Head screw	2			
9	4812086230	Self locking nut	2			
10	4812086231	Hex. Head screw	9			
11	4812086232	Washer	4			
12	4812086233	Handle	1			
13	4812086234	Rubber bellows	1			
14	4812086235	Black nylon tie	1			
15	4812086236	Locking pin-federriegel with thread	1			
16	4812086237	Hex.thin nut	2			

Item	Part No.	Name	Qty	L	С	SN INFO
17	4812086238	Depth control handle	1			
17.1	4812086239	Flange bearing	1			
18	4812086240	Hex.head screw	2			
19	4812086241	Washer	8			
20	4812086242	Hex.thin nut	1			
21	4812086243	Swivel handle	1			
22	4812086244	Hex. Head screw	2			
23	4812086245	Washer	2			
24	4812086246	Tool holder	1			
25	4812086247	Spanner	1			
26	4812086248	Spanner	1			
27	4812086249	Water tank cover	1			
27.1	4812086250	Water tank cover	1			
27.2	4812086251	Elbow stripe water tank	1			
28	4812086252	Tank cover holder	1			
29	4812086253	Blind rivet	9			
30	4812086254	Splash guard	1			
30.1	4812086255	Splash guard holder	1			
31	4812086256	Nut	7			
32	4812086257	Hexagon head screw	1			
33	4812086258	Plastic bush	2			
34	4812086259	Blade guard	1			
35	4812086260	Blade shaft nut	1			
36	4812086261	Blade guard antivibration mounting	1			
37	4812086262	Outer blade collar	1			
38	4812086428	Diamond saw	1			
39	4812086263	Inner blade collar	1			
40	4812086264	Hex. Head screw	4			
41	4812086265	Hex. Nut	5			
42	4812086266	Hex. Head screw	2			
43	4812086267	V-belt pulley	1			
44	4812086268	Hex.soc. Set screw	4			
45	4812086269	Key	1			
46	4812086270	Engine spacer	1			
47	4812086271	Exhaust deflector	1			
48	4812086272	Engine	1			
49	4812086273	Stopper block	1			
50	4812086274	Sealing washer	1			

Item	Part No.	Name	Qty	L	С	SN INFO
51	4812086275	Oil lengthner	1			
52	4812086276	Washer	1			
53	4812086277	Plain washer	6			
54	4812086278	Wheel	1			
55	4812086279	Front pointer	1			
56	4812086280	Self locking nut	1			
57	4812086281	Key	1			
58	4812086282	Blade shaft	1			
59	4812086283	Pillow block bearing	2			
60	4812086284	Key	1			
61	4812086285	V-belt pulley	1			
62	4812086286	V-belt	4			
63	4812086287	Belt guard	1			
64	4812086280	Self locking nut	4			
65	4812086288	Hex. Head screw	4			
66	4812086289	Hex. Head screw	2			
67	4812086290	Splash guard	1			
68	4812086291	Self locking nut	1			
69	4812086292	Washer	1			
70	4812086293	Hex.head screw	1			
71	4812086294	Washer	6			
72	4812086295	Wheel	2			
73	4812086296	Set wheel & washer	2			
74	4812086297	Bush holder	2			
75	4812086298	Nylon bush	2			
76	4812086299	Base trolley	1			
77	4812086300	Blind rivet	3			
78	4812086301	Lock washer	2			
79	4812086302	Hex. Head screw	2			

			Refe	renced Pages		
Service parts	 	 	 		 	9

# Water system Water system



Item	Part No.	Name	Qty	L	С	SN INFO
1	4812086303	Ball valve	1			
2	4812086304	Elbow hose connector	1			
3	4812086305	Plastic pipe	1			
4	4812086306	Rubber plug	2			
5	4812086307	Water spliter assy.	1			
6	4812086229	Hex. Head screw	2			
7	4812086308	1/2" quick connector	1			



