





Operator Manual cum Parts Catalogue KMW – MIN T 8 DLX



Farm Mechanisation Business Unit

FOREWORD

KIRLOSKAR OIL ENGINES LIMITED (KOEL) congratulates you for becoming a prestigious customer of KOEL by purchasing the MIN T.

Read, Understand and follow all the instructions on the machine and in the manual before attempting to operate.

The Operator Manual covers important usage instructions & guidelines on machine operating procedures, safety instruction, warranty policy, Do's and Don'ts, troubleshooting, periodic service maintenance schedule and Parts catalogue.

Register your product warranty by submitting duly filled warranty registration Card to KOEL dealer. We are providing three labours free Services within six months of purchase, requested to utilize our services according to the service maintenance schedule mentioned in the operator manual.

This Manual covers all variants of MIN T 8 HP DLX Power Weeder. Please refer relevant details only applicable for your Machine.

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As continuous improvements are contemplated the illustrations and description are not binding.

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1. MINT 8 DLX Warranty Period and Warranty Policy Guide Lines

1.1 Warranty Period

SI. No.	Product	Warranty Coverage
1	Machine (Engine, Transmission)	6 months or 250 operational hours whichever is earlier from Date of Sale to First Purchaser
2	Proprietary parts, Like: Fuel Injection Pump, Fuel Injector, Tyre, etc.	Warranties for Proprietary parts are subject to respective manufactures as per their warranty policy and guidelines.
3	Accessories / Implements	Will not be covered

1.2 Warranty Policy Guide Lines

- 1. The warranty period shall start from the date of purchase of product and applicable to the first purchaser on receipt of the warranty Registration Card.
- 2. The warranty only covers the manufacturing defect or defective part within the specified warranty timeframe only.
- 3. The warranty will cease if Service maintenance is not carried out as per periodical maintenance schedule.
- 4. Warranty voids if KOEL genuine parts or approved blades are not used on machine during periodical maintenance.
- 5. The warranty will not cover for normal wear & tear of parts such as clutch plate, rubber parts, plastic parts, electrical parts.
- 6. Under warranty period, only repair or replacement of defective parts will be considered, replacement of the machine is not warranted.
- 7. Warranty is not transferable to the second and subsequent owners.
- 8. The warranty ceases if the machine is serviced or repaired by unauthorized persons or at any Local workshop.
- 9. The warranty will not cover for any accidental damage, fire, collision, improper usage, tampering, customer abuse and external modifications/fabrications done by the customer.

KOEL reserves the right to refuse warranty if the product was found not to be carried periodical maintenance & installed as per our installation instructions.

2. WARRANTY REGISTRATION CARD / SALES INTIMATION CARD

MIN T 8 D	LX Details						
Model Eng	Model Engine No.			Invoice No.			Invoice Date
Frame No) .						
				Warranty Sta	rt Dat	e	Warranty End Date
Use of	1. Forest Pr	ofessionals	2.	Orchard	3.	. Vegetal	ble Crops
MIN T	4. Hill Area		5.	House Garden	6	. Any Otl	ner (Please Specify)
Customer	Details						
	Name						
	Village						
ТА	ALUK/TALUKA					District	:
	City					PIN	
	State					Countr	У
M	Mobile / mail ID				1	Date of	Birth
Customer's Signature (I acknowledge that I have read, understood and I accept the warranty policy and terms explained in Chapter 1.2)			Deal	er's Sea	I & Signature		

• Dealer has to maintain the photo copy of the WRC (Company Copy)

2. Technical Specifications

Power Weeder Specifications			
	Product	MIN T 8 DLX	
	Model	CC418	
	Bore X Stroke (mm)	86 x 72	
	Displacement (cc)	418	
Engine	Туре	Single Cylinder, Air cooled Diesel engine	
	Power	7.5 hp	
	Rated rpm	3000	
	High Idle rpm	3150	
	Type of Starting	Recoil Type (Manual) / Electric Start	
sion	No. of Speeds	5 (3 forward + 2 reverse) with Differential lock	
nsmis	Working speed	1.25 , 2.5 & 9.25 kmph	
Tra	Clutch	Dry - Double Cone type	
5	Rotation	850 rpm	
/ Tille	Blades (nos.)	24	
otary	Tilling Width	650 mm max. / 300 mm min.	
R	Tilling depth	1 to 6 inches	
	Tyre size	5.00 - 10	
	Dimension L * W * H (mm)	1120 X 720 X 900	
	Weight	170 kgs.	

3. Safety Precautions Do's and Don'ts

3.1 Safety Precautions of MINT 8 DLX

- 1. Read and follow the owner's manual and safety instructions carefully before operating.
- 2. Don't allow children to use the machine.
- 3. In general all moving parts particular shafts & blades shall be treated as dangerous

3.2 DOs

Training

- 1. Read, Understand and follow all instructions on the machine and in the manual before attempting to operate. Keep this manual in a safe place for future and regular reference and for ordering replacement for parts.
- 2. Be familiar with all controls and their proper operations, know how to stop the machine and disengage them quickly.

A. General - Operator should:

- a) Be in good health, sound mind and be not under the influence of any sort of intoxicants;
- b) Be adequately trained on MINT 8 DLX and when required;
- c) Obtain and read the operator's manual before using the MINT 8 DLX for the first time; and when required.
- d) Wear suitable non slip footwear, suitable hearing protection and comfortable clothing.

B. Before Starting MINT 8 DLX - Operator should:

- a) Inspect the machine and make certain that it is properly adjusted and in good working condition;
- b) Keep all controls in neutral before starting.
- c) Check the oil level of engine and fuel level in tank.
- d) Check the transmission oil level
- e) Clear the work area of objects that might jam or wrap around the tines such as glass, large sticks, stones, metal objects, wire, rope, and string-like materials.

C. Maintenance & Storage - Operator should:

- a) Only use genuine spare parts/accessories approved by MINT 8 DLX.
- b) Keep machine, attachment and accessories in safe working order.

- c) Apply Grease/Oil to all link, pins and rivets.
- d) Check for tightness of all fasteners.
- g) Wash and clean the machine periodically.
- i) Keep Machine in level platform.
- J) During storage, and whenever the power unit is unattended, disengage the PTO (power take- off) and render the engine unstartable by disconnecting the battery.
- h) When storing the machine for longer intervals, use the spring latch to latch the clutch lever in the depressed (disengaged) position. This prevents the clutch cone from sticking to the lining during storage.
- i) Store the machine in a well-ventilated place, protected from dampness and the weather.

3.3 Don'ts

- 1. Do not put hands or feet near or under rotating parts.
- 2. Don't operate the MINT 8 DLX without any Demonstration training.
- 3. Do not operate if you found any leakage of Fuel or lubricants.
- 4. Never place your hands, feet, or any part of your body near or under any moving part while the MINT engine is running.
- 5. Do not touch the muffler and engine when the machine is in use.
- 6. Do not use this machine around large roots and surface rocks.
- 7. Do not use this machine around underground pipes and wiring.
- 8. Do not use machine when fuel leakage is observed near FIP, Injector and Fuel lines.
- 9. Do not operate the machine without good visibility.
- 10.Do not tamper with any safety devices or fittings.
- 11.Do not use unapproved attachments.
- 12.Don't use non recommended blades.
- 13. Disengage clutch before shifting gear
- 14.Ensure gears are aligned properly during shifting and if not release clutch to align the gear.
- 15. Do not wear open-toed sandals or go barefoot when operating the machines.
- 16. Do not wear loose fitting, scarf, ties or jewels which might caught in the machine while operating.
- 17. Do not operate the MINT 8 DLX on terrain.

- 18. Don't store the fuel in Closed (Unventilated atmosphere) and in area where source of flames or sharks are there. Don't smoke while fueling
- 19. Don't fuel a running or hot engine. Don't loosen the fuel cap while engine is running.
- 20. Don't make any adjustment when the engine is in use
- 21. Handle LH/RH and other levers to be used only for controlling the machine
- 3.4 Recognize Decals Information's

An important the safety incorporated into MINT 8 DLX is the warning and information decals found in various parts of the machine.

4. Control & Equipment



5. Maintenance & Service-Operating Instructions

5.1 Recoil Starter Grip

Pulling the starter grip operates the recoil starter to crank the engine



5.2 Accelerator (Throttle) Control Lever

The throttle lever controls the engine speed and tine rotations. Moving the throttle lever in the direction shown, run the engine faster or slower.





- To increase engine RPM, pull the lever to anti clockwise direction
- To decrease engine RPM, push the lever to clockwise direction

5.3 Main Clutch Lever

The main clutch lever engages and disengages the transmission that drives the blades. It is located on left hand side of handlebar.



5.4 Lever for Forward & Reverse Speed

The transmission offers a choice of fast & slow speed in forward direction. The drive gears are available through a rod on the left side of the handlebar. Forward and reverse are controlled with the **red** lever on the right top of the handlebar.

On each of these models, a PTO/ reverse lockout device prevents shifting into reverse with the tiller engaged. But the lockout disengages automatically during operation with a front mount attachment on the unit. When a front mount attachment is on the unit, the third gear (transport gear) is blocked out.



6. Maintenance and Installation

The purpose of the maintenance schedule is to keep the tiller in the best operating condition. Inspect or service as scheduled in the table below.

Remember that your servicing dealer knows your tiller best and is fully equipped to maintain and repair it.

To ensure the best quality and reliability, use only new, KOEL genuine parts or their equivalents for repair and replacement.

	Daily	Free Service Period (from date of delivery)		Frequency	
		20 hrs. / 30 days	100 hrs. / 75 days	100 hrs. / 75 days	200 hrs./ 150 days
Clean Crank Case		С	С	С	
Engine Oil	I	R	R	R	
Clean Air cleaner	I	С	С	С	
Fuel Level	I				
Fuel Filter Element		R			R
Valve Clearance (adjust if necessary)		I/A	I/A	I/A	
Cylinder Head Bolts		I/T	I/T	I/T	
Main Gear Box Oil			R	I/F	
Decompression lever	Т				
Blade fitting Nuts and Bolts	I/T				
Injector Pressure and timing			I	I	
Clutch free play	I/A	I/A	I/A	I/A	
L					

6.1 Maintenance Chart

C - Clean I - Inspect R – Replace T – Torque A – Adjust F – Fill/Top-up

Routine paid services to be done at every 75 days or 100 hrs. (Whichever is earlier)

6.2 Engine Oil Change Procedure

Place MINT on flat surface, remove sump drain plug & engine oil filler cap / dipstick.





Drain the old/ used oil and collect it in a container while the engine is warm to assure rapid and complete draining.

After complete oil drain out, tighten the drain plug securely.

Fill recommended, new engine oil to the outer edge of the oil filler hole. Use funnel to avoid oil spilling.



Reinstall oil filler cap & tighten. After completing the process, start engine for 2-3 minutes for complete oil circulations.

6.3 Air Cleaner Oil Change & Cleaning Procedure

Step 1 - Loosen air filter clamps, separate oil bath bowl & filter element.

Step 2 - Dispose old oil from bowl & wipe out dust particles from bowl by use of clean cloth.

Step 3 - Fill new recommended oil into the oil bath bowl.

Step 4 - Clean filter elements with diesel or kerosene & reinstall. If filter elements are damaged, replace with new one.

Step 5 - Reinstall oil bath bowl & tighten filter bowl clamps.

Note: Operating engine with dusty oil or damaged filter element causes engine performance.



6.4 Transmission Oil Change Procedure

- Place MINT on flat surface & keep oil container tray at bottom of gear box to collect old oil.
- Drain out transmission oil by removing transmission drain plug and oil filer cap
- After complete oil drain out, reinstall the drain plug securely & fill recommended transmission oil into the gear box. Use funnel to avoid oil spilling.
- Use oil filler gun or oil applicator to avoid oil spilling.
- After complete of process, reinstall oil filler cap.
- To check transmission oil level, remove oil level filler cap provided at top side of gear box assy.
- When it drops near the low mark add oil, but do not fill above the full mark.

• Put the dipstick back into the filler hole and twist the stick around so the flat side is toward the center of the transmission gearbox

USE ONLY KOEL RECOMMENDED OIL & LUBICANTS				
Lubricants Type	Specifications	Quantity	Replacement	
Engine Oil	SAE 15W-40, CF-4	1.65 lit	Every Service	
Transmission Oil	SAE 80W-90, GL-4	2.2 lit	200 Hrs or 5 months	
Air Cleaner	SAE 15W-40, CF-4	15-20 ml	Every Service	

6.5 Lubrication Specification Chart

6.6 Free Service Schedule

Free Service recommended with following schedule (Month or Hours of usage whichever is earlier)				
Sr. No.	Free Service	Days	Total Hours Used	
1	1st Free Service	30	20	Date of Sale
2	2nd Free Service	75	100	
3	3rd Free Service	150	200	

6.7 Maintenance Program

1. Refer to the maintenance instructions and illustrations in the "Use and Maintenance" manual furnished for your model engine. _{Change} oil, filters, etc., and clean the cylinder fins and crankcase breather as instructed in the engine manual.

2. Daily Clean-Up:

When the machine is very dirty you may hose down everything except the engine immediately after use. But to avoid cracking the engine, you must let it cool before hosing it down. You may, however, idle the engine until it is warm enough to evaporate the wash water from around the spark plug.

3. After First 10 Operating Hours

(and afterwards as recommended):

- a) Tighten nuts and bolts:
- b) Check tire pressure;

c) Originally, the position of A lever is normal. As clutch wears out the same lever could have a wider opening being so uneasy to use, this means that it is necessary to adjust the cable, setting lever A on its original position acting on adjustment device B and on counter-nut C;



d) Check the gear oil level of each attachment. Re-check rear tyne tillers and other attachments every 100 hours.

4. Occasionally as needed

Clean any dirt and old grease from the PTO connections of all equipment and pack with clean bearing grease.

5. Seasonally

Lubricate the control cables with a light oil; Clean parts thoroughly and apply grease to the control column indexing rod or lever, column fork, column support or pivot post.

6.8 Use and Care Of Attachments





Lubrication of Attachments

1.Rototiller and cover assembly: Remove the pipe plug on top of the attachment gear housing. If the oil level is more than 2 inches (50 mm) below the filler hole, fill to the top with SAE 80/ 90 or SAE 90EP (extreme pressure) gear oil. Maintain at the nearly full level.

2. All other attachments: Remove dirty grease and lubricate the PTO coupling of the Attachment with bearing grease whenever greasing the unit PTO.

6.9 Coupling Attachment To PTO

When the PTO flange of the attachment is coupled to the unit PTO flange and the PTO is engaged, the splined shaft slides out to engage the splined (grooved) shaft of the attachment. Then the shafts rotate as a single member until the PTO shift lever is used to retract the drive shaft.



Although the attachment may be coupled directly to the unit PTO, there is a quick hitch that can shorten the time for coupling and uncoupling attachments. There are also PTO extensions in lengths of 3" and 6"which can be coupled between the PTO and attachment for better balance with certain attachment and engine combinations.

6.9.1 Direct Coupling:

1. Remove the lock nuts and washers from the tractor PTO studs.

2. Align the tractor PTO with the connecting flange of the attachment. Always bring the weeder to the attachment. If necessary use props to level the attachment.

3. Slide the PTO studs into the attachment flange and secure with the washers and lock nuts.



6.9.2 Quick Hitch:

1. The hitch consists of two parts held together by a captive T-handled pin. Pull and turn pin sideways to separate the parts.

2. Remove the two nuts from the tractor PTO studs and the two bolts and nuts from the quick hitch.

3. Attach the female part, pin-side-up, to the tractor PTO. Attach the male part, hole-sideup, to the attachment-connecting flange. Install and tighten the four nuts.

4. Fit the attachment part into the PTO part. Twist the pin so it drops down into locking position, securing the two parts together.

5. To uncouple, pull the pin.

6.10 Use and Care Of Rear-Tine Tiller Attachment

6.10.1 Tilling Width

Important

When changing sets of tines, it is important to keep the tines in place on one side for use as a model while changing tines on the other.

Do not mount the tines backwards on the flange.



6.10.2 Tilling Depth Adjustment

The procedure is the opposite of what many people first would believe. For the deepest soil penetration, you raise the depth controlling "knife" by pinning the bar in the bottom hole (see drawing).

1. Remove the hairpin and the clevis pin from the bracket and bar.

2. Raise or lower the bar handle to align the holes in the bar and brackets. Pin the bar at desired setting, or as recommended in step 3.

3. In hard ground, as when tilling a patch of ground for the first time, pin the depth adjustment rod through the top hole for a shallow cut.

After a pass or two to break up the hard top crust, stop the engine and pin the depth adjustment bar through the lower position hole.

Pinning the bar through the bottom holes raises the depth-gauging "knife" for maximum tilling depth.





Warning – Obstruction such as rocks and tree roots in the soil can cause "blade breakage / bending where the machine suddenly jerks or leaps forward. Do not try to control the unit in this type of condition Just let it go and the machine will stop.

6.10.3 Tilling Suggestions

 When breaking new ground or preparing hard, rocky soil, till at a maximum depth at the lowest gear setting and at a fast throttle setting.
In soft soil you can probably start right off tilling at maximum depth and are achieved in the lowest gear speeds.

2. You can avoid trampling over and tamping the fresh tilled rows by walking to one side of the tiller. Swing the handlebar to the side and adjust it to a comfortable height. After a bit of practice with the tiller, you can work out a pattern where your footprints will be erased with each new pass.



7. Starting and Stopping (Including PTO Engagement and Control Unit)

7.1 Disengaging the PTO

Pull back on the PTO shift rod to disengage the PTO in rear mount mode. Push down the PTO shift rod to disengage the PTO in front mount mode.

7.2 Shift into neutral

On the gear speed selector, all positions marked "n" are neutral.

7.3 Latch both clutch and stop switch levers for engine starting

The clutch is the black lever and the stop switch is the red lever on the left handlebar. The red lever has to be held depressed during operation or it will shut off the engine. For starting, squeeze both levers against the handlebar with one hand and prop them in this position by setting the wire spring latch (see drawing).



Note

Squeezing the clutch lever dislodges the wire spring latch, letting you take over control of the clutch. If you let go of the handlebar, the engine will be switched to a stop.

7.4 Cranking to start

Turn the ignition key to START to crank the engine. Key will return to the RUN position when you let go.

ENGINE WARM-UP PERIOD: let the engine warm up for a few moments without any load (in neutral N and PTO disengaged) to give the oil time to reach the parts of the engine in need of lubrication.

7.5 Stopping

Any time you let go of the left handlebar, the red stop lever on top will activate the ignition stop switch to stop the engine. Always remember to turn off the switch to prevent current drain when the unit is not in use.

7.6 Differential

The differential drive directs the driving to one wheel, allowing the other to free-wheel. Differential drive facilitates making tight turns with the unit.



7.7 Taking control of the machine

1. When the engine is running, hold the left handlebar, press the **stop switch** and pull the clutch lever to dislodge the spring latch. Now both clutch and stop levers will be under your control.

2. Do not release the **stop switch** lever or it will stop the engine. When ready for action, shift into the required gear and slowly release the clutch lever.

Note

Transmission to the axle and wheels is independent of transmission through the pto to an attachment.

The advantage of this design is that the most efficient operating rpm of the attachment can be selected by the throttle setting, and the desired machine movement chosen independently through a combination of throttle setting and gear selection.

7.8 Gear and PTO engagement

1. Start the engine and take control of the unit. Keep the throttle at moderate speed setting.

2. Hold the clutch lever (left handlebar) depressed while shifting, and engaging the PTO lever, and until you are ready to drive.

3. Shift into the lowest forward speed position on the gear speed selector. If the gears will not engage, release (slip) the clutch just a bit unit the gears mesh.

4. Slowly release the clutch lever and the machine will move forward. If you wish to stop momentarily without killing the engine or shifting into neutral, depress the clutch lever fully.

7.9 Disengage the clutch

Position 1 and 2 on the gear selector will be available for backing and position 3 will be locked out.

Select speed, and depress the red reverser lever on right handlebar before engaging the clutch when going back to forward drive disengages the clutch.

8. Troubleshooting 8.1 Engine Troubleshooting

		Engine Not Starting
Sr. No.	Cause	Action Taken
1	Fuel quantity less	Keep sufficient fuel in tank.
2	Unsteady Fuel flow	Check fuel tank, fuel filter and fuel lines for any bend or any blockage. Clean or replace if required.
3	Air in the Fuel system	Check fuel pipes leakage, replace if found leak. Check banjo, washers & O rings, replace if required. Release air from fuel system.
4	Valve Clearance Incorrect	Adjust Valve Clearance as recommended.
5	Injector Pressure	Check Injector Pressure, adjust if required as recommended.
6	Incorrect Fuel Injection Timing	Check Fuel Timing & adjust if required by Spill Cut Off method.
7	FIP pressure low	Remove FIP and check it , at the OEM Service Centre. Calibrate the FIP if required.
8	Low Compression Pressure	Check Engine compression as recommended. If found less remove Cylinder head and check valve seat leakage, rework it. If found ok then check Piston Rings butt gap and Piston to Liner Clearance. Any of those found more, then replace it.

	Engine Stalls (Stop Running)			
Sr. No.	Cause	Action Taken		
1	Air in the Fuel system	Check fuel pipes leakage, replace if found leak. Check banjo, washers & O rings, replace if required. Release air from fuel system.		
2	Low Oil Level	Check the quantity of oil, top up if required.		
3	Lube Oil Pump & Strainer	Inspect Lube Oil Pump to see if it works normally. Replace if required. Check all oil ducts. Check Strainer blockage. Clean it & replace if req.		
4	Low Injector Pressure	Check Injector Pressure; adjust Injector pressure if required as recommended.		
5	Incorrect Fuel Injection Timing	Check Fuel Timing & adjust if required by Spill Cut Off method.		
6	FIP pressure low	Remove FIP and check it, at the OEM Service Centre. Calibrate he FIP if required.		

Black Smoke From Engine			
Sr. No.	Cause	Action Taken	
1	Adulterated Fuel in tank	Drain fuel from tank, filter and fuel pipes. Flush fuel system and refill with diesel.	
2	Engine Overloaded	Reduce load appropriately and adjust speed. Check the belt tension. Adjust as recommended. Check the Implement Depth and adjust depth as recommended.	
3	Air Filter Choked	Clean the wire mesh & foam with diesel or kerosene. Replace the foam if required	
4	Low Injector Pressure	Check Injector Pressure; adjust Injector pressure if required as recommended.	
5	Incorrect Fuel Injection Timing	Check Fuel Timing & adjust if required by Spill Cut Off method.	
6	FIP pressure low	Remove FIP and check it, at the OEM Service Centre. Calibrate the FIP if required.	
7	Low Compression Pressure	Check Engine compression as recommended. If found less remove Cylinder head and check valve seat leakage, rework it. If found ok then check Piston Rings butt gap and Piston to Liner Clearance. Any of those found more gaps then replace it.	
	Engine S	Starts But Fires Intermittently & Stops	
Sr. No.	Cause	Action Taken	
1	Air Filter Choked	Clean the wire mesh & foam with diesel or kerosene. Replace the foam if required	
2	Silencer Choked	Clean exhaust system, if required replace silencer.	
3	Water In Fuel System	Drain fuel from tank, filter and fuel pipes. Flush fuel system and refill with diesel.	
4	Fuel Filter Choked	Change Fuel filter.	
5	Low Injector Pressure	Check Injector Pressure; adjust Injector pressure if required as recommended.	
6	FIP pressure low	Remove FIP and check it, at the OEM Service Centre. Calibrate the FIP if required.	

8.2 Other Troubleshooting

Rotary blades are broken			
Sr. No.	Cause	Action Taken	
1	Collide with stones in the course of using	Replace the blades. Avoid colliding with hard things like stones in the soil when working	
The operating cable is broken			
Sr. No.	Cause		n Taken
1	Long-time abrasion in work		ace the cables

Notes

POWER WEEDER CC418 ENGINE CATALOGUE

SR. No	NAME	ASSEMBLY CODE
1	ENGINE BLOCK	CC1.001.80
		P08.0701,
2	CYLINDER HEAD ROCKER ARM & COVER ASSEMBLY	P08.0702
		P08.0703
3	PISTON & CRANK ASSEMBLY	P08.0717
4	LUBRICATION & SPEED CONTROL SYSTEM	CC1.004
5	AIR FILTER ASSEMBLY	P08.0710
6	INJECTOR ASSEMBLY	CC1.190.3
7	FUEL INJECTION PUMP ASSEMBLY	P08.0705
8	HIGH PRESSURE PIPE ASSEMBLY	P08.0706.010.0.PR
9	FUEL TANK AND BRACKET	P08.0709
10	EXHAUST SYSTEM	
11	INJECTOR LEAK OF ASSEMBLY	P08.0708
12	RECOIL STARTER ASSEMBLY	CC1.196.10.0.00
13	WIND LEADING CASE ASSEMBLY	CC1.018

Engine Parts Catalogue - 8HP



Farm Mechanisation Business Unit

ENGINE BLOCK (CRANK CASE)



ENGINE BLOCK (CRANK CASE)

Sr.No.	Part No.	Description	Qty.	Remark
*1	CC3.001.10.0.00	CYLINDER BLOCK / CRANKCASE ASSEMBLY	1	CONSISTING OF SR. NO. 2 to 13 & 30 -
2	CC3.001.007.0.00	CYLINDER BLOCK	1	
3	CC1.001.022.0.00	THRUST PIECE	1	
4	50.003.08.0.14	SET SCREW M8 x1.25 x 14	1	
5	CC3.001.016.0.00	CYLINDER HEAD STUD (LONG)	2	
6	50.505.08.000.	SPRING WASHER- M8	1	
7	50.506.08.000.	PLAIN MACHINED WASHER - M8	1	
8	CC3.001.011.0.00	CYLINDER HEAD STUD (SHORT)	2	
9	CC3.001.006.0.00	REAR OIL SEAL (30x 45 x 8)	1	
10	CC1.001.054.0.00	OIL DRAIN PLUG M16x 15 WITH GASKET	2	
11	CC1.001.024.0.00	NEEDLE BEARING 7941115	1	
12	CC3.006.009.0.00	BALL BEARING 6307	1	
13	CC1.001.057.0.00	RETAINING PIN 8 x 12	2	
*14	CC3.001.010.0.00	BEARING 6202	1	
*15	CC3.004.30.0.00	FORK LEVER ASSEMBLY	1	
*16	CC3.001.40.0.00	CRANKCASE COVERASSEMBLY	1	CONSISTING SR. NO. 17 to 25
17	CC3.001.027.0.00	CRANKCASE COVER	1	
18	CC3.001.035.0.00	MAIN BUSHING	1	
19	CC3.001.028.0.00	ALUMINUM PLUG 0 8 x 8	1	
20	CC3.001.56.0.00	OIL GUIDE	1	
21	CC3.001.026.0.00	BEARING 6206	1	
22	CC3.001.032.0.00	FRONT OIL SEAL 30 x 45 x 10	1	
*23	CC3.001.010.0.00	BEARING 6202	1	
24	CC3.001.025.0.00	CRANKCASE COVER GASKET	1	
24	CC3.001.025.0.00	CRANKCASE COVER GASKET	1	
25	CC3.001.042.0.00	FLANGE BOLT M8 x 1.25 x 35 L 8.8	16	
29	CC3.001.041.0.00	FLANGE BOLT M8 x 1.25 x 40 HEAD 10mm	2	
30	CC3.001.014.0.00	CYLINDER HEAD NUTS (LONG)	2	
31	CC3.001.013.0.00	CYLINDER HEAD NUTS (SHORT)	2	
32	CC3.001.012.0.00	CYLINDER HEAD NUT WASHER M10OD = 20MM THK = 3	2	
33	CC3.001.71.0.00	CYLINDER HEAD GASKET 0.1 mm	1	
	CC3.001.72.0.00	CYLINDER HEAD GASKET 0.2 mm	1	
	CC3.001.73.0.00	CYLINDER HEAD GASKET 0.3 mm	1	
	CC3.001.74.0.00	CYLINDER HEAD GASKET 0.4 mm	1	
	CC3.001.76.0.00	CYLINDER HEAD GASKET 0.5 mm	1	
34	CC3.001.017.0.00	RECTANGLE RING GASKET 4.5 x 2.2	1	
35	CC1.001.018.0.00	OIL DIPSTICK WITH "O" RING	2	



CYLINDER HEAD ROCKER ARM & COVER ASSEMBLY

CYLINDER HEAD ROCKER ARM & COVER ASSEMBLY

Sr. No.	Part No.	Description	Qty.	Remark
*1	CC3.002.10.0.00	ROCKER COVER ASSEMBLY	1	CONSISTING SR. NO. 2 TO 8
2	CC3.003.002.0.00	ROCKER COVER	1	
3	CC3.003.005.0.00	DECOMPRESSION SHAFT	1	
4	CC3.003.010.0.00	BREATHER ASSEMBLY	1	
5	CC1.002.028.0.00	"O" RING (12 x 19)	1	
6	CC1.002.030.0.00	FLANGE BOLT M6 x 1 x 70 L 8.8	1	
7	CC1.002.002.0.00	OILING SCREW PLUG	3	
8	CC3.003.001.0.00	ROCKER COVER GASKET	1	
*9	CC3.002.20.0.00	ROCKERARMASSEMBLY	1	CONSISTING SR. NO. 10 TO 15
10	CC3.002.016.0.00	ROCKER ARM BODY WITH SHAFT	1	
11	CC3.002.017.0.00	ROCKER ARM	2	
12	CC3.002.011.0.00	CLIP A	2	
13	CC3.002.012.0.00	ROCKER ARM SCREW M6 x 1 x 32	2	
14	CC3.002.013.0.00	ROCKER NUT M6	2	
15	CC1.300.15.0.00	FLANGE BOLT M8 x 1.25 x 45	2	
*16	CC3.002.30.0.00	CYLINDER HEAD ASSEMBLY	1	CONSISTING SR. NO 17 TO 28
17	CC3.002.025.0.00	CYLINDER HEAD	1	
18	CC3.002.018.0.00	ADJUSTING VALVE SPACER	2	
19	CC3.002.019.0.00	VALVE COLLET	4	
20	CC3.002.020.0.00	VALVE SPRING SEAT	2	
21	CC3.002.021.0.00	VALVE SPRING	2	
22	CC3.002.022.0.00	VALVE GUIDE OIL SEAL	2	
23	CC3.002.023.0.00	VALVE SPRING WASHER	2	
24	CC3.002.008.0.00	PIN 4 x 8	1	
25	CC1.002.048.0.00	STUD M8 x 1.25 x 36	2	
26	CC3.002.024.0.00	STUD A M6 x 90	2	
27	CC3.002.003.0.00	INLET VALVE	1	
28	CC3.002.004.0.00	EXHAUST VALVE	1	
29	06.072.03.0.00	SPACER (BAR) FOR ACTUATOR-INJECTOR	2	

PISTON & CON ROD ASSEMBLY



PISTON & CON ROD ASSEMBLY

Sr.	Part No.	Description	Qty.	Remark
*1	P05.0723.040.0.PR	PISTON & CON ROD ASSEMBLY	1	CONSISTING OF SR. NO. 2 TO 11
2	P05.0723.010.0.PR	PISTON ASSEMBLY COMPLETE	1	CONSISTING OF SR. NO. 3,7
*3	CC3.005.50.0.00	PISTON ASSEMBLY WITH PIN	1	CONSISTING OF SR. NO. 4 TO 6
4	CC3.005.59.0.PR	PISTON	1	
5	CC3.005.57.0.PR	PISTON PIN	1	
6	CC3.005.006.0.00	RETAINER CLIP OF PISTON PIN DIA 21	2	
7	CC3.005.30.0.00	PISTON RING GROUP	1	CONSISTING OF SR. NO. 8 TO 10
*8	CC3.005.001.0.00	TOP COMPRESSION CHROME PLATED RING (FOR 78 DIA PISTON)	1	NOT ILLUSTRATED
*9	CC3.005.002.0.00	TAPER FACE SECOND COMPRESSION RING (FOR 78 DIA PISTON)	1	NOT ILLUSTRATED
*10	CC3.005.003.0.00	CHROME CONFORMABLE OIL RING (FOR 78 DIA PISTON)	1	NOT ILLUSTRATED
*11	CC3.003.040.0.00	CON ROD ASSEMBLY COMPLETE	1	CONSISTING OF SR. NO. 12 TO 15
12	CC3.005.008.0.00	CONNECTING ROD	1	
13	CC3.005.007.0.00	CONNECTING ROD BUSH	1	
14	CC3.005.009.0.00	CONNECTING ROD BEARING	2	
15	CC3.005.011.0.00	CONNECTING ROD BOLT M7 x 1 x 38	2	

CRANKSHAFT, CAMSHAFT, BALANCER SHAFT & FLYWHEEL ASSEMBLY



CRANKSHAFT, CAMSHAFT, BALANCER SHAFT & FLYWHEEL ASSEMBLY

Sr. No.	Part No.	Description	Qty.	Remark
*1	P08.0707.110.0.PR	CRANKSHAFT ASSEMBLY FOR DLX	1	CONSISTING OF SR. NO. 2 TO 6
2	P08.0707.109.0.PR	CRANKSHAFT SUITABLE FOR CONICAL SLEEVE	1	
3	CC3.006.005.0.00	CRANKSHAFT TIMING GEAR	1	
4	CC3.006.008.0.00	BALANCING SHAFT DRIVING GEAR	1	
5	CC1.003.016.0.00	PLUG 6 x 8	1	
6	CC1.003.013.0.00	KEY 5 x 12	3	
*7	P05.0707.020.0.PR	FLY WHEEL ASSEMBLY	1	CONSISTING OF SR. NO. 8 TO 17
8	CC3.006.010.0.00	FLYWHEEL	1	
12	CC3.006.013.0.00	NUT FLYWHEEL M18	1	
13	CC3.006.012.0.00	FLYWHEEL NUT WASHER	1	
15	CC1.005.33.0.00	FLANGE BOLT M6x 1 x 20	3	
16	CC3.006.017.0.00	CABLE HOLDER CLAMP	1	
17	N11.051.06.0.00	FLANGED SCREW - M6 x 1.0 x 12 mm	1	
*18	CC3.007.10.0.00	CAMSHAFT ASSEMBLY	1	CONSISTING OF SR. NO. 19 TO 24
19	CC1.003.022.0.00	SLEEVE OF FUEL PUMP	1	
20	CC3.007.001.0.00	PUSH ROD	2	
21	CC3.007.002.0.00	ТАРРЕТ	2	
22	CC1.003.025.0.00	KEY 4 x 12	1	
23	CC3.007.003.0.00	CAMSHAFT	1	
24	CC3.007.004.0.00	CAMSHAFT TIMING GEAR	1	
*25	CC3.006.010.0.0	BALANCER SHAFT ASSEMBLY	1	CONSISTING OF SR. NO. 26 TO 29
26	CC3.006.001.0.00	BALANCER SHAFT	1	
27	CC1.003.009.0.00	KEY 5 x 7	2	
28	CC3.006.002.0.00	BALANCER SHAFT TIMING GEAR	1	
29	CC3.001.010.0.00	BALL BEARING 6202	2	



LUBRICATION AND SPEED CONTROL SYSTEM

LUBRICATION AND SPEED CONTROL SYSTEM

Sr. No.	Part No.	Description	Qty.	Remark
1	CC3.004.10.0.00	OIL PUMP ASSEMBLY	1	CONSISTING OF SR. NO. 2 TO 6
2	CC3.004.11.0.00	OIL PUMP	1	
3	CC1.004.028.0.0	RETAINING PIN 3 x 16	1	
4	CC3.010.003.0.0	OIL PUMP COVER	1	
5	CC3.010.004.0.0	O RING 34.5 x 1.8	1	
6	N11.051.06.0.00	FLANGED SCREW - M6 x 8.0 x 12 mm	3	
7	CC3.004.15.0.00	OIL FILTER	1	CONSISTING OF SR. NO. 8 TO 10
8	CC3.004.16.0.00	LUBE OIL FILTER	1	
9	CC1.300.89.0.00	SEAL RING 20 x 2.65	1	
10	CC1.004.005.0.0	SLINGER BOLT M6 x 1 x 15 8.8	1	
11	CC3.004.20.0.00	OIL PUMP DRIVING GEAR I GOVERNOR GEAR ASSEMBLY	1	CONSISTING OF SR. NO. 12 TO 15
12	CC3.004.21.0.00	OIL PUMP DRIVING GEAR I GOVERNOR GEAR	1	
13	CC3.004.22.0.00	GOVERNOR WEIGHT	2	
14	CC3.004.23.0.00	GOVERNOR PIN	2	
15	CC1.004.018.0.0	GOVERNOR FORK TAPPET	1	
16	CC3.004.30.0.00	FORK LEVER ASSEMBLY		CONSISTING OF SR. NO. 17 TO 22
17	CC3.012.018.0.0	FORK LEVER	1	
18	CC1.300.96.0.00	PLAIN WASHER M8 OD 18 mm THK. 1 mm	4	
19	CC3.001.005.0.0	BEARING 794118	2	
20	CC3.012.014.0.0	OIL SEAL 8 x 14 x 4	1	
21	CC3.012.011.0.0	STOPPING LEVER PIN 3 x 22	2	
22	CC3.012.015.0.0	FUEL CONTROLLER WITH NUT M 10	1	

AIR FILTER ASSEMBLY



Sr. No.	Part No.	Description	Qty.	Remark
1	CC1.006.10.0.00	INLET MANIFOLD ASSEMBLY		CONSISTING OF SR. NO. 2 TO 7
2	CC1.006.026.0.00	INLET MANIFOLD GASKET	1	
3	CC1.006.027.0.00	INLET MANIFOLD	1	
4	CC1.006.003.0.00	AIR CLEANER GASKET	2	
5	CC1.006.004.0.00	AIR CLEANER DOUBLE ENDED SET SCREW M6 x 25 x 1	1	
6	50.003.06.0.25	SET SCREW M6 x 1.0 x 25- 8.8	1	
7	P08.0710.001.0.PR	BEND PIPE FOR AIR FILTER	1	
8	P08.0713.010.0.PR	AIR FILTER ASSEMBLY	1	

INJECTOR ASSEMBLY



Sr.	Part No.	Description	Qty.	Remark
No.				
1	CC1.190.20.0.00	IN ECTOR ASSEMBLY FOR CC418 ENGINE (7.5 HP 3000 RPM)	1	CONSISTING SR. NO. 2 TO 5
2	CC1.190.06.0.00	IN ECTOR FOR CC418 ENGINE (7.5 HP 3000 RPM)	1	
3	CC1.190.07.0.00	SPACER SLEEVE FOR IN ECTOR	1	NOT ILLUSTRATED
4	CC1.190.08.0.00	MOUNTING FLANGE FOR IN ECTOR	1	NOT ILLUSTRATED
5	CC1.190.09.0.00	FUEL OVERFLOW CONNECTION FOR IN ECTOR	1	NOT ILLUSTRATED
6	CC1.190.22.0.PR	NO LE WASHER (THICKNESS - 4 mm)	1	NOT ILLUSTRATED
7	50.006.20.000	NUT M6 x 1 - GR 8	2	

FUEL INJECTION PUMP ASSEMBLY



Sr. No.	Part No.	Description	Qty.	Remark
1	CC1.190.11.0.00	FUEL INJECTOR PUMP	1	
2	CC1.014.021.0.00	FUEL INJECTOR PUMP ADJUSTING GASKET(0.2)	1	
	CC1.014.022.0.00	FUEL INJECTOR PUMP ADJUSTING GASKET(0.3)	1	
	CC1.014.023.0.00	FUEL INJECTOR PUMP ADJUSTING GASKET(0.4)	1	
	CC1.014.009.0.00	FUEL INJECTOR PUMP ADJUSTING GASKET(0.5)	1	
3	CC1.014.011.0.00	SEALING PLATE GASKET	1	
4	50.006.06.000	NUT - M6 x 1 - GR 8	3	
5	50.505.06.000	SPRING WASHER - M6	3	

HIGH PRESSURE PIPE ASSEMBLY



Sr. No.	Part No.	Description	Qty.	Remark
1	P08.0706.010.0.PR	HIGH PRESSURE PIPE ASSEMBLY	1	

RECOIL STARTER ASSEMBLY



Sr. No.	Part No.	Description	Qty.	Remark
1	CC1.196.10.0.00	RECOIL STARTER ASSEMBLY	1	

FUEL TANK ASSEMBLY



Sr. No.	Part No.	Description	Qty.	Remar
*1	P08.0709.050.0.PR	FUEL TANK WITH BRACKET	1	
2	50.508.08.0.00	COPPER WASHER (10 x 16)	1	NOT ILLUSTRATED
3	CC1.010.006.0.00	FUEL HOSE 50 mm	1	
4	50.519.02.000	HOSE CLIP n16	2	
5	P08.0709.002.0.PR	SPECIAL BANJO FOR FIP	1	
6	P08.0709.004.0.PR	LOCK NUT M10 x 1	1	NOT ILLUSTRATED

EXHAUST SYSTEM ASSEMBLY



Sr. No.	Part No.	Description	Qty.	Remark
1	P08.0718.003.0.PR	EXHAUST SILENCER	1	
2	CC1.151.09.0.00	EXHAUST GASKET	1	NOT ILLUSTRATED
3	50.006.08.000	NUT M8 x 1.25 GR 8.8	2	NOT ILLUSTRATED

INJECTOR LEAKOFF ASSEMBLY



Sr. No.	Part No.	Description	Qty.	Remark
1	P08.0708.010.0.PR	LEAK OFF PIPE ASSEMBLY	1	NOT ILLUSTRATED
2	CC1.010.012.0.00	FUEL HOSE 200 mm FROM IN ECTOR TO TANK	1	
3	CC1.010.015.0.00	HOSE CLIP n8	2	
4	P08.0708.001.0.PR	SPECIAL BAN O	1	
5	CC1.010.021.0.00	FUEL HOSE ID 7, OD 15, L 50 MM	1	
6	CC1.010.031.0.00	FUEL HOSE ID 6, OD 11, L 180 MM	1	

VARIABLE SPEED MECHANISM



Sr. No.	Part No.	Description	Qty.	Remark
1	P08.0721.010.0.PR	VARIABLE SPEED MECHANISM	1	





WIND LEADING CASE ASSEMBLY (COWLING ASSEMBLY)

Sr. No.	Part No.	Description	Qty.	Remark
1	CC1.018.20.0.00	WIND LEADING CASE ASSEMBLY (COWLING ASSEMBLY)	1	CONSISTING OF SR. NO. 2 TO 4,7,8
2	CC1.018.002.0.00	WIND LEADING CASE	1	
3	CC1.018.001.0.00	SHOCK PADS	1	
4	CC3.018.30.0.00	COLLAR OF WIND LEADING CASE WITH SHOCK ABSORBER	4	CONSISTING OF SR.NO.5,6
5	CC3.018.003.0.00	SHOCK ABSORBER	1	
6	CC3.018.004.0.00	COLLAR OF WIND LEADING CASE	1	
7	CC1.010.008.0.00	FLANGE BOLT M6x1x25 8.8	4	
8	CC1.005.003.0.00	PLAIN WASHER M6 (GB90-85) OD 18mm THK 1.5 mm	4	
9	CC1.018.10.0.00	WIND LEADING PLATE ASSEMBLY	1	CONSISTING OF SR. NO. 10,11,14,15
10	CC1.018.16.0.00	WIND LEADING PLATE	1	
11	CC3.018.40.0.00	COLLAR OF WIND LEADING PLATE WITH PAD	1	CONSISTING OF SR. NO.12,13
12	CC3.018.17.0.00	COLLAR OF WIND LEADING PLATE	1	
13	CC3.018.18.0.00	PAD	1	
14	CC1.018.19.0.00	SHOCK ISOLATION PIECE OF WIND LEADING PLATE	1	
15	N11.051.07.0.00	FLANGED SCREW - M6 x 1.0 x 16 mm	1	

FUEL FILTER ASSEMBLY FOR RECOIL START



SR.NO	PART NO	DESCRIPTIONS	QTY
1	P08.0709.066.0.PR	BRACKET FOR VERTICAL HAND PRIMER	1
2	FA1.031.20.0.00	FUEL FILTER	1
3	DV0.040.56.0.00	PRIMER PUMP	1
4	P08.0709.065.0.PR	HOSE PIPE (FUEL FILTER TO PRIMER PUMP)	1
5	P08.0709.077.0.PR	FUEL PIPE (FUEL TANK TO FUEL FILTER)	1
6	P08.0709.071.0.PR	FUEL PIPE (PRIMER PUMP TO FIP)	1
7	50.538.03.000.	1 4 BSP BAN O BOLT (FOR FUEL FILTER)	2
8	50.504.04.000.	BAN O BOLT(M14) (FOR PRIMER)	2
9	50.508.12.000.	COPPER WASHER	8
10	50.002.08.025.	SET BOLT - M8X1.25X25 - 8.8	1
11	50.506.08.000.	WASHER (M8)	6
12	CC1.010.008.0.00	FLANGE BOLT M6X1X25 8.8	2
13	N11.051.02.0.00	FLANGED NUT M6 X 1.0	2
14	2H.112.07.0.00	HOSE CLAMP 12 TO 18 MM UPITER	2
15	50.006.08.000	NUT- M8X1.25 - GR.8	3
16	P08.2201.680.0.00	FUEL FILTER MOUNTING BRACKET ASSLY	1
17	50.002.08.030.	SET BOLT - M8X1.25X30 - 8.8	2



SR. NO.	DESCRIPTION	GROUP NO.
1	ENGINE BASE FRAME ASSEMBLY	D001
2	CLUTCH ASSEMBLY	D002
3	GEAR BOX ASSEMBLY	D003
4	TRANSMISSION ASSEMBLY	D004
5	TOP COVER ASSEMBLY	D005
6	REAR COVER ASSEMBLY	D006
7	HANDLE BAR MOUNTING ASSEMBLY	D007
8	HANDLE BAR ASSEMBLY	D008
9	ROTOR TILLER AND COVER ASSEMBLY EARTHING UP TYPE	D015
10	ROTOR TILLER AND COVER ASSEMBLY MIXING TYPE	D011
11	DRIVE WHEEL SYSTEM	D009

Transmission & Body Parts Catalogue



Farm Mechanisation Business Unit



SR.NO.	PART NO	PART NAME	QTY.
1		ENGINE ASSEMBLY.	1
2	P08.D001.001.0.00	SLEEVE 25.5*30.5*18	1
3	50.911.08.030	FLANGE BOLT M8*30	4
4	P08.D001.041.O.00	HOUSING ADAPTOR	1
5	P08.D001.003.0.00	ADJUSTING PLAIN WASHER M18	1
6	P08.D001.002.0.00	STUD M8*71	6
7	50.911.10.045	FLANGE BOLT M10*45	4
8	P08.D001.081.0.00	ENGINE GUARD	1
9	57.507.10.000	PLAIN WASHER M10	4
10	50.008.10.000	LOCK NUT M10	4

CLUTCH ASSEMBLY



SR.NO.	PART NO.	PART DESCRIPSION	QTY.
1	P08.D002.025.0.00	CLUTCH ASSEMBLY	1 (CONSISTING OF 2 TO 11)
11	P08.D002.022.0.00	CONICAL BUSH	1

GEAR BOX ASSEMBLY



SR.NO.	PART NO	PART NAME	QTY.
1	P08.D003.085.0.00	DUST COVER	1
2	P08.D003.051.0.00	CLUTCH FORK ROLLER ASSEMBLY	1
3	P08.D003.052.0.00	FORK	1
4	57.507.18.000	PLAIN WASHER M18	1
5	P08.D003.041.0.00	CASE	1
6	P08.D003.001.0.00	DOUBLE END STUDS M8×41	6
7	P08.D003.042.0.00	RATCHET CLUTCH	1
8	P08.D003.053.0.00	SPLINE SHAFT	1
9	P08.D003.002.0.00	DIFFERENTIAL CLUTCH SPRING	1
10	50.911.06.016	FLANGE BOLTS M6*16	1
11	P08.D003.012.0.00	STAY FIXED HEX NUT M6	1
12	P08.D003.003.0.00	C CLIP Φ6	1
13	P08.D003.071.0.00	CLUTCH BRACKET PULLEY	1
14	P08.D003.081.0.00	SHIFTING FORK BRACKET	1
15	P08.D003.021.0.00	REVERSE RETURN SPRING	1
16	P08.D003.022.0.00	ΟΙL SEAL Φ14*Φ22*4	3

GEAR BOX ASSEMBLY

SR.NO.	PART NO	PART NAME	QTY.
17	P08.D003.054.0.00	ELASTIC CYLINDRICAL PIN Φ6×25	2
18	P08.D003.043.0.00	RADIAL SHIFTER	2
19	P08.D003.044.0.00	RADIAL SHIFTER HEAD	2
20	P08.D003.004.0.00	DOUBLE END STUDS M8×56	2
21	P08.D003.005.0.00	DOUBLE END STUDS M8×71	4
22	P08.D003.006.0.00	CLIP Φ52	1
23	P08.D003.055.0.00	SPACER	1
24	P08.D003.007.0.00	STEEL BALL Φ12	1
25	P08.D003.023.0.00	SHIFT POSITION SPRING	1
26	P08.D003.024.0.00	SHIFT LEVER RESET SPRING	1
27	P08.D003.072.0.00	GEAR LINK ROD	1
28	P08.D003.082.0.00	SHIFTING FORK BRACKET	1
29	50.008.08.000	LOCK NUT M8	1
30	P08.D003.025.0.00	CIRCULAR COVER GASKET	1
31	P08.D003.045.0.00	CIRCULAR COVER	1
32	50.911.06.012	FLANG BOLTS M6X12	3
33	P08.D003.056.0.00	RIGHT SPLINE SHAFT	1
34	50.008.08.000	LOCKNUT M8	6
35	P08.D003.083.0.00	UMBRELLA TOOTH LEFT SEAT	1
36	P08.D003.057.0.00	BEVEL GEAR 2	2
37	P08.D003.058.0.00	BEVEL GEAR 1	2
38	P08.D003.059.0.00	WORM GEAR	1
39	P08.D003.084.0.00	BEVEL GEAR SEAT	1
40	57.507.06.000	PLAIN WASHER M6	6
41	P08.D003.008.0.00	ALLEN SCREW M8 x 40	6
42	P08.D003.060.0.00	BEVEL GEAR SHAFT	1
43	P08.D003.061.0.00	LEFT SPLINE SHAFT	1
44	57.507.10.000	PLAIN WASHER M10	1
45	P08.D003.046.0.00	SHIFTING UNIVERSAL JOINT	1
46	P08.D003.009.0.00	COTTER PIN 3.2*25	1
47	P08.D003.073.0.00	LONG STICK	1
48	P08.D003.026.0.00	UPPER PLASTIC COVER	1
49	P08.D003.027.0.00	BOTTOM PLASTIC COVER	1
50	P08.D003.010.0.00	PHILIPS COUNTERSUNK HEAD TAPPING SCREWS ST4X25	2
51	P08.D003.011.0.00	OIL DRAIN HEX BOLT M18*15	1
52	P08.D003.028.0.00	OIL SEAL 15*28*8	1

TRANSMISSION ASSEMBLY



SR.NO.	PART NO	PART NAME	QTY.
1	P08.D004.021.0.00	BEARING 6205	2
2	P08.D004.051.0.00	WORM	1
3	P08.D004.052.0.00	COUNTER SHAFT GEAR - 38 TEETH	1
4	P08.D004.053.0.00	CIRCLIP Φ25	1
5	P08.D004.054.0.00	VARIABLE SPEED CLUTCH GEAR	1
6	P08.D004.055.0.00	ACTIVE SPLINE SHAFT	1
7	P08.D004.022.0.00	BEARING 6302	1
8	P08.D004.023.0.00	C TYPE JUMP RING Φ12	1
9	P08.D004.024.0.00	OIL SEAL 38X55X7	1
10	P08.D004.001.0.00	FUNCTIONAL CLUTCH GEAR POSITIONING SPRING	1
11	P08.D004.002.0.00	FUNCTIONAL CLUTCH GEAR POSITIONING STEEL BALL	2
12	P08.D004.056.0.00	OUTPUT SHAFT GEAR BOX	1
13	P08.D004.057.0.00	CIRCLIP Ф30	1
14	P08.D004.025.0.00	BEARING 6006	1
15	P08.D004.058.0.00	FUNCTIONAL CLUTCH GEAR	1
16	P08.D004.059.0.00	FUNCTION OUTPUT GEAR- 40 TEETH	1
17	P08.D004.060.0.00	REVERSE SLIDING GEAR	1
18	P08.D004.061.0.00	TRANSMISSION DRIVE GEAR	1
19	P08.D004.026.0.00	BEARING 6202	1

TOP COVER ASSEMBLY



SR.NO.	PART NO	PART NAME	QTY.
1	P08.D005.041.0.00	TOP COVER	1
2	P08.D005.081.0.00	CABLE SUPPORT	1
3	50.911.08.030	FLANGE BOLT M8*30	3
4	P08.D005.001.0.00	SPRING	1
5	P08.D005.071.0.00	LEVER PLATE	1
6	50.008.08.000	LOCK NUT M8	1
7	P08.D005.002.0.00	CIRCLIP Φ6	1
8	P08.D005.051.0.00	CLUTCH HOLDER	1
9	P08.D005.021.0.00	DIPSTICK ASSY.	1
10	P08.D005.082.0.00	SUPPORT FOR BATTERY MOUNTING BRACKET	1
11	P08.D005.024.0.00	SWITCH OFF WIRE	1
12	P08.D005.083.0.00	CABLE SUPPORT	1
13	57.076.06.016	ALLEN SCREW M6X16	1
14	57.006.06.000	NUT M6	1
15	57.076.10.016	ALLEN SCREW M10X16	1
16	P08.D005.005.0.00	SPRING	2
17	P08.D005.006.0.00	Ο-RING Φ 19* Φ 3.55	1
18	50.911.08.025	FLANGE BOLT M8X25	1
19	P08.D005.023.0.00	OIL CAP	1
20	P08.D005.004.0.00	O-RING 1.8*14	1
21	P08.D005.052.0.00	CLUTCH STEERING FORK	1
22	P08.D005.022.0.00	TOP COVER GASKET	1

REAR COVER ASSEMBLY



REAR COVER ASSEMBLY

SR.NO.	PART NO	PART NAME	QTY.
1	50.008.12.000	LOCK NUT M12	2
2	P08.D006.001.0.00	STUD M12X1.25X56	2
3	57.507.12.000	PLAIN WASHER M12	2
4	P08.D006.046.0.00	OUTPUT PROTECTION COVER	1
5	P08.D006.003.0.00	CIRCLIPS FOR HOLE Φ55	1
6	50.008.08.000	LOCK NUT M8	6
7	P08.D006.041.0.00	REAR COVER	1
8	P08.D006.004.0.00	REAR COVER DOWELØ8*18	2
9	P08.D006.042.0.00	REVERSE GEAR SEAT	1
10	P08.D006.021.0.00	NEEDLE BEARING	1
11	57.507.10.000	PLAIN WASHER M10	2
12	50.911.10.030	FLANGE BOLT M10*30	2
13	P08.D006.051.0.00	REVERSE GEAR SHAFT	1
14	P08.D006.052.0.00	REVERSE GEAR	1
15	P08.D006.022.0.00	WEAR RESISTANT GASKET	1
16	P08.D006.005.0.00	ELASTIC CYLINDRICAL PIN Φ4×20	4
17	P08.D006.043.0.00	ROCKER HEAD	1
18	P08.D006.044.0.00	SMALL ROCKLE	1
19	P08.D006.006.0.00	ELASTIC CYLINDRICAL PIN Φ6×25	1
20	P08.D006.023.0.00	FLAT GASKET Φ14*Φ20*2	1
21	P08.D006.024.0.00	ΟΙL SEAL Φ14*Φ22*4	1
22	P08.D006.053.0.00	CLUTCH FORK SHAFT	1
23	P08.D006.025.0.00	O-TYPE RINGS Φ14×Φ2.65	1
24	57.507.12.000	PLAIN WASHER M12	1
25	P08.D006.026.0.00	CLUTCH RESET SPRING	1
26	P08.D006.027.0.00	CLUTCH PLASTIC COVERS	1
27	P08.D006.071.0.00	CLUTCH CONNECTING ROD	1
28	57.507.10.000	PLAIN WASHER M10	1
29	P08.D006.002.0.00	COTTER PIN 3.2*25	1
30	P08.D006.045.0.00	UNIVERSAL JOINT	1
31	908.D003.073.0.00	LONG STICK	
32	P08.D003.026.0.00	UPPER PLASTIC COVER	1
33	P08.D003.027.0.00	BOTTOM PLASTIC COVER	1
34	P08.D003.010.0.00	PHILIPS COUNTERSUNK HEAD TAPPING SCREWS ST4X25	2

HANDLE BAR MOUNTING ASSEMBLY



HANDLE BAR MOUNTING ASSEMBLY

SR.NO.	PART NO	PART NAME	QTY.
1	P08.D007.051.0.00	STEERING SHAFT	1
2	P08.D007.052.0.00	STEERING POSITIONING PIN	1
3	P08.D007.041.0.00	STEERING SHAFT LOCATING BLOCK	2
4	57.507.12.000	PLAIN WASHER M12	2
5	57.002.12.080	HEX BOLT M12*80	1
6	P08.D007.027.0.00	PROTECTIVE COVER FIXING SUPPORT SLEEVE	3
7	P08.D007.021.0.00	PLANAR STEERING RESET SPRING	1
8	P08.D007.022.0.00	LIFTING HANDLE	1
9	P08.D007.023.0.00	ADJUSTING SPRING	1
10	57.002.10.110	HEX BOLT M10*110	1
11	P08.D007.081.0.00	HANDLE COVER	1
12	P08.D007.025.0.00	UPPER HANDLE PLASTIC COVER	1
13	P08.D007.026.0.00	UNDER HANDLE PLASTIC COVER	1
14	P08.D007.001.0.00	CROSS RECESSED COUNTERSUNK HEAD SCREWS ST4X20	2
15	P08.D007.002.0.00	U SHAPE BOLT M8	2
16	P08.D007.071.0.00	ARM CONNECTING BODY	1
17	50.008.10.000	LOCK NUT M10	3
18	50.008.08.000	LOCK NUT M8	6
19	50.911.08.035	FLANGE BOLT M8*35	2
20	P08.D007.024.0.00	GEAR LEVER HOLDER	2
21	P08.D007.082.0.00	LIMIT PLATE	1
22	50.008.12.000	LOCK NUT M12	1
23	57.507.10.000	PLAIN WASHER M10	2
24	50.911.08.020	FLANGE BOLTS M8*20	2
25	50.911.08.025	FLANGE BOLT M8*25	2
26	50.911.10.075	FLANGE BOLT M10*75	2
27	P08.D007.072.0.00	SHOCK ABSORBING SLEEVE ASSEMBLY	2
28	P08.D007.083.0.00	CONNECTING SEAT OF ARM REST	1
29	P08.D007.084.0.00	GEAR BOARD	1
30	P08.D007.085.0.00	POSITION LIMIT BOARD	1

HANDLE BAR ASSEMBLY



SR.NO.	PART NO	PART NAME	QTY.
1	P08.D008.001.0.00	HANDLE BAR	1
2	50.911.06.025	FLANGE BOLT M6*25	2
3	P08.D008.021.0.00	LOWER TRIGGER RESET SPRING	2
4	P08.D008.051.0.00	LOWER TRIGGER RESET SPRING PIN Φ 8*8*6.5	2
5	P08.D008.052.0.00	PIN	2
6	P08.D008.081.0.00	AUTOMATIC LOADER	1
7	50.008.06.000	LOCK NUT M6	2
8	P08.D008.082.0.00	PROTECTIVE COVER MOUNTING CARD	2
9	P08.D008.083.0.00	PROTECTIVE COVER FOR HANDLE	2
10	P08.D008.022.0.00	REVERSE GEAR AND DIFFERENTIAL CABLE ASSEMBLY	2
11	P08.D008.071.0.00	U TYPE CONNECTING ROD	2
12	P08.D008.053.0.00	BOLT LOCATING PIN	3
13	50.911.08.030	FLANGE BOLT M8*30	2

HANDLE BAR ASSEMBLY

SR.NO	PART NO	PART NAME	QTY.
14	P08.D008.023.0.00	REVERSE LIMIT SPRING HANDLE	1
15	P08.D008.072.0.00	REVERSE HANDLE LIMIT SPRING SEAT	1
16	P08.D008.084.0.00	UNDER HANDLE PLASTIC COVER	2
17	P08.D008.085.0.00	UPPER HANDLE PLASTIC COVER	2
18	P08.D007.001.0.00	CROSS RECESSED COUNTER SUNK HEAD SCREWS ST4X20	6
19	P08.D008.086.0.00	LINKAGE SHEET	3
20	50.911.08.045	FLANGE BOLTS M8*45	4
21	P08.D008.087.0.00	TURN AND REVERSE BRACKET	1
22	50.008.08.000	LOCK NUT M8	5
23	50.911.06.040	FLANGE BOLT M6*40	1
24	57.507.06.000	PLAIN WASHER M6	1
25	P08.D008.024.0.00	HANDLEBAR GRIP	2
26	P08.D008.073.0.00	ACCELERATOR SWITCH BRACKET	1
27	P08.D008.074.0.00	THROTTLE SWITCH ASSEMBLY	1
28	P08.D008.025.0.00	THROTTLE CABLE ASSEMBLY	1
29	P08.D008.026.0.00	HANDLE LOCKING CABLE ASSEMBLY	1
30	P08.D008.037.0.00	UPPER CLUTCH CABLE ASSEMBLY	1
31	P08.D008.027.0.00	CLUTCH CABLE ASSEMBLY	1
32	P08.D008.054.0.00	UPPER CLUTCH HANDLE SCREW SHAFT	1
33	P08.D008.028.0.00	UPPER CLUTCH HANDLE RESET SPRING	1
34	P08.D008.029.0.00	UPPER CLUTCH PLATE TRIGGER	1
35	50.008.06.000	LOCK NUT M6	1
36	P08.D008.088.0.00	TURN OFF SWITCH	1
37	P08.D008.075.0.00	TURN OFF SWITCH AND BRAKE BRACKET	1
38	P08.D008.030.0.00	TURN OFF SWITCH HANDLE	1
39	P08.D008.055.0.00	RESET SPRING CONNECTING SHAFT	1
40	P08.D008.031.0.00	TURN OFF SWITCH RESET SPRING	1
41	P08.D008.032.0.00	LEVER HANDLE	2
42	P08.D008.076.0.00	EMERGENCY STOP CABLE ASSEMBLY	1
43	P08.D008.056.0.00	ELASTIC CYLINDRICAL PIN Φ4×20	1
44	P08.D008.033.0.00	CABLE ROLLER	1
45	P08.D008.077.0.00	REVERSE GEAR LEVER	1
46	P08.D008.034.0.00	UPPER PLASTIC LEVER (RED)	1
47	P08.D008.035.0.00	UNDER PLASTIC LEVER (RED)	1
48	P08.D008.036.0.00	CLUTCH LEVER	1

ROTOR TILLER AND COVER ASSEMBLY EARTHING UP TYPE SR.NO. PART NO PART NAME QTY. P08.D015.081.0.00 DITCHING FENDER BER DAMPING SLEEVE 2 1 2 50.911.08.030 FLANGE BOLTS M8*30 2 3 50.911.08.016 FLANGE BOLTS M8*16 4 6 4 50.008.08.000 LOCK NUT M8 5 50.911.10.030 HEX BOLT M10X30 16 6 P08.D015.071.0.00 SPLINE CONNECTING SEAT 2 7 4 P08.D011.023.0.00 REAR TINE TILLER-RIGHT BLADE 8 P08.D011.022.0.00 REAR TINE TILLER-LEFT BLADE 4 9 P08.D015.001.0.00 SPECIAL BOLT M8*35 8 10 P08.D015.031.0.00 ROTAVATOR SHAFT LEFT 1 11 P08.D015.072.0.00 **ROTAVATOR SHAFT RIGHT** 1 12 57.002.08.025 HEX BOLT M8X25 4 13 57.507.08.000 8 **SPRING WASHER M8** 14 P08.D015.073.0.00 BOX BRACKET 1 15 P08.D015.023.0.00 BOX FIXED SUPPORT PAPER PAD GASKET 1 16 P08.D015.041.0.00 REAR TINE TILLER CRANK CASE 1 17 P08.D015.002.0.00 DRAIN BOLT - REAR TINE TILLER CASE 1

P08.D015.051.0.00

18

1

OUTPUT SHAFT

ROTOR TILLER AND COVER ASSEMBLY EARTHING UP TYPE

SR.NO.	PART NO	PART NAME	QTY.
19	P08.D015.052.0.00	REAR TINE TILLER BEVEL GEAR	1
20	P08.D015.024.0.00	DEEP GROOVE BALL BEARING	2
21	P08.D015.025.0.00	OIL SEAL	2
22	P08.D015.042.0.00	CRANKCASE COVER	1
23	57.002.08.035	HEX BOLT M8*35	4
24	57.505.08.000	SPRING WASHER M8	4
25	50.008.16.000	LOCK NUT M14	2
26	P08.D015.026.0.00	BEARING 3204	1
27	P08.D015.053.0.00	REAR TINE TILLER DRIVE SHAFT	1
28	P08.D015.027.0.00	DEEP GROOVE BALL BEARING 6004	1
29	P08.D015.028.0.00	OIL SEAL	1
30	P08.D015.074.0.00	COUPLING END	1
31	P08.D015.029.0.00	O-RING Ø21	1
32	57.507.08.000	PLAIN WASHER M8	1
33	57.002.08.030	HEX BOLT M6*16	1
34	P08.D015.032.0.00	RUBBER FENDER	2
35	50.911.12 .090	FLANGE BOLTS M12*90	1
36	57.507.12.000	PLAIN WASHER M12	1
37	50.008.12.000	LOCK NUT M12	1
38	57.507.10.000	PLAIN WASHER M10	4
39	P08.D015.082.0.00	LARGE PANEL	1
40	P08.D015.083.0.00	TILLAGE DEPTH ADJUSTMENT PLATE	1
41	P08.D011.001.0.00	SPACER PIN	1
42	57.507.10.000	PLAIN WASHER M10	1
43	P08.D011.031.0.00	RESET SPRING	1
44	P08.D011.002.0.00	SPLIT WASHER M10	1
45	P08.D011.003.0.00	SPLIT PIN	2
46	P08.D015.033.0.00	SUPPORT PLATE FOR RUBBER FENDER	2
47	P08.D015.030.0.00	ADJUSTABLE HANDLE	1
48	P08.D015.076.0.00	REGULATING HANDLE SHEATH	1
49	P08.D015.075.0.00	TRANSMISSION SUPPORT PLATE	1
50	P08.D015.021.0.00	REAR TINE TILLER-LEFT BLADE	8
51	P08.D015.022.0.00	REAR TINE TILLER-RIGHT BLADE	8
52	50.008.10.000	LOCK NUT M10	16

ROTOR TILLER AND COVER ASSEMBLY MIXING TYPE



SR.NO.	PART NO	PART NAME	QTY.
1	P08.D011.021.0.00	RUBBER DAMPING SLEEVE	2
2	P08.D011.081.0.00	FENDER	1
3	50.911.08.016	FLANGE BOLTS M8X16	12
4	50.911.06.025	FLANGE BOLT M6X25	2
5	P08.D011.082.0.00	SIDE FENDER	2
6	P08.D015.071.0.00	SPLINE CONNECTING SEAT	2
7	P08.D011.023.0.00	REAR TINE TILLER-RIGHT BLADE	10
8	P08.D011.022.0.00	REAR TINE TILLER-LEFT BLADE	10
9	57.002.06.035	HEX BOLT M6X35	16
10	P08.D011.071.0.00	ROTOR SHAFT MIXING TYPE	4
11	57.002.06.025	HEX BOLT M6X25	8
12	57.002.08.025	HEX BOLT M8X25	4
13	57.507.08.000	SPRING WASHER M8	4
14	P08.D015.073.0.00	BOX BRACKET	1
15	P08.D015.023.0.00	GASKET, BOX BRACKET	1

ROTOR TILLER AND COVER ASSEMBLY MIXING TYPE

SR.NO.	PART NO	PART NAME	QTY.
16	P08.D015.041.0.00	REAR TINE TILLER CRANK CASE	1
17	P08.D015.002.0.00	DRAIN BOLT –REAR TINE TILLER CASE	1
18	P08.D015.051.0.00	OUTPUT SHAFT	1
19	P08.D015.052.0.00	REAR TINE TILLER BEVEL GEAR	1
20	P08.D015.024.0.00	DEEP GROOVE BALL BEARING	2
21	P08.D015.025.0.00	OIL SEAL	2
22	P08.D015.042.0.00	CRANKCASE COVER	1
23	50.911.08.035	HEX BOLT M8X35	4
24	57.505.08.000	SPRING WASHER M8	4
25	50.008.16.000	LOCK NUT M14	2
26	P08.D015.026.0.00	BEARING 3204	1
27	P08.D015.053.0.00	REAR TINE TILLER DRIVE SHAFT	1
28	P08.D015.027.0.00	DEEP GROOVE BALL BEARING 6004	1
29	P08.D015.028.0.00	OIL SEAL 28*42*7	1
30	P08.D015.074.0.00	COUBLING END	1
31	P08.D015.029.0.00	O-RING Ø21	1
32	57.507.08.000	PLAIN WASHER M8	1
33	50.911.06.016	FLANGE BOLT M6X16	1
34	P08.D011.083.0.00	RIGHT SIDE PLATE	1
35	50.911.12.090	FLANGE BOLTS M12X90	1
36	57.507.12.000	PLAIN WASHER M12	1
37	50.008.12.000	LOCK NUT M12	1
38	57.507.10.000	PLAIN WASHER M10	4
39	P08.D015.082.0.00	LARGE PANEL	1
40	P08.D015.083.0.00	TILLAGE DEPTH ADJUSTMENT PLATE	1
41	P08.D011.001.0.00	SPACER PIN	1
42	57.507.10.000	PLAIN WASHER M10	1
43	P08.D011.031.0.00	RESET SPRING	1
44	P08.D011.002.0.00	SPLIT WASHER M10	1
45	P08.D011.003.0.00	SPLIT PIN	2
46	P08.D011.085.0.00	LEFT SIDE PLATE	1
47	P08.D015.030.0.00	ADJUSTABLE HANDLE	1
48	P08.D015.076.0.00	REGULATING HANDLE SHEATH	1
49	P08.D015.075.0.00	TRANSMISSION SUPPORT PLATE	1

DRIVE WHEEL SYSTEM



SR.NO.	PART NO	PART NAME	QTY.
1	P08.D009.021.0.00	BEARING 6205	1
2	P08.D009.022.0.00	HUB GASKET	1
3	P08.D009.001.0.00	CIRCLIP FOR HOLE Ø47	1
4	P08.D009.023.0.00	BEARING 6005	1
5	P08.D009.024.0.00	OIL SEAL 30X42X8	1
6	P08.D009.002.0.00	CIRCLIP FOR SHAFT 25	1
7	P08.D009.041.0.00	HUB FOR REDUCTION UNIT WHEEL	1
8	P08.D005.003.0.00	SCREW M8X25	2
9	57.002.10.40	HEX BOLT M10X40	4
10	P08.D009.081.0.00	INSIDE SEMICIRCLE FOR WHEEL	1
11	P08.D009.025.0.00	WHEEL ASSY	1
12	57.507.10.000	PLAIN WASHER M10	4
13	57.505.10.000	SPRING WASHER M10	4
15	57.006.10.000	HEX NUT M10	4
16	57.002.10.040	HEX BOLT M10X40	4

1 st FREE SEF (20 hrs. or 30 Days from D	RVICE COUPON ate of Sale whichever is earlier)	
Model :	Date of Sale :	
Engine No. :	Date of Service :	
Chassis No. :	Next Service Due Date :	
Owner's Name :	Signature	Dealer's Seal & Signature
Technician's Name :		
	Signature	
	1 ^{or} FREE SEI (20 hrs. or 30 Days from D Model : Engine No. : Chassis No. : Owner's Name : Technician's Name :	1 ^{or} FREE SERVICE COUPON (20 hrs. or 30 Days from Date of Sale whichever is earlier) Model : Date of Sale : Engine No. : Date of Service : Chassis No. : Next Service Due Date : Owner's Name : Signature Technician's Name : Signature

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		≫	A Kirloskar Group Company
2nd Free Service (100 hrs. or 75 days)	2 nd FREE SE (100 hrs. or 75 Days from	ERVICE COUPON Date of Sale whichever is earlier)	Coupon No. :
Date of Service :	Model :	Date of Sale :	
Chassis No. :	Engine No. :	Date of Service :	
No. of working hours :	Chassis No. :	Next Service Due Date :	
Dealer's Stamp & Sign. :	Owner's Name :	Signature	Dealer's Seal & Signature
	Technician's Name :	Signature	1
L	 	ĸ	IRLOSKAR OIL ENGINES LIMITED A Kirloskar Group Company

Coupon No. : **3rd Free Service** 3rd FREE SERVICE COUPON (200 hrs. or 150 days) (200 hrs. or 150 Days from Date of Sale whichever is earlier) Date of Service : Model : Date of Sale : Date of Service : Chassis No. : Engine No. : No. of working Chassis No. : Next Service Due Date : hours : **Owner's Name :** Dealer's **Dealer's Seal & Signature** Stamp & Sign. : Signature Technician's Name : Signature

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Check List For 1 st Free Service				
Sr. No.	Mark √ after each operation is completed	Mark	Mark $$ after each operation is completed	Mark
1	Clean Weeder throughly		Check for abnormal noise and vibration	
2	Clean crank case after running the engine for 5-10 minutes, clean oil screen assembly.		Check all control lever function	
3	Change engine oil and refill with recommended grade & quantity of engine oil		Clean dirt, dust & grass from the blades properly	
4	Clean air cleaner and filtering element. Change oil.			
5	Lubricate all moving parts.			
6	Check cylinder head nuts. Tighten the nut to the recommended torque.			
7	Check and tighten all nuts and bolts to the recommended torque.			
8	Adjust valve clearance as recommended.			
9	Clean fuel filter element, change it if necessary.			
10	Tighten the rotary blades Nuts and Bolts			
11	Tighten the Chassis stud and bolts			
12	Tighten the Wheel Nuts			
13	Start engine and follow.			

Check List For 2 nd Free Service					
Sr. No.	Mark \checkmark after each operation is completed	Mark	Mark √ after each operation is completed	Mark	
1	Clean Weeder throughly		Check for abnormal noise and vibration		
2	Clean crank case after running the engine for 5-10 minutes, clean oil screen assembly.		Check all control lever function		
3	Change engine oil and refill with recommended grade & quantity of engine oil		Clean dirt, dust & grass from the blades properly		
4	Clean air cleaner and filtering element. Change oil.				
5	Lubricate all moving parts.				
6	Check cylinder head nuts. Tighten the nut to the recommended torque.				
7	Check and tighten all nuts and bolts to the recommended torque.				
8	Adjust valve clearance as recommended.				
9	Clean fuel filter element, change it if necessary.				
10	Tighten the rotary blades Nuts and Bolts				
11	Tighten the Chassis stud and bolts				
12	Tighten the Wheel Nuts				
13	Drain, flush and fill Transmission case oil with recommended grade				
14	Start engine and follow.				

Check List For 3 rd Free Service				
Sr. No.	Mark √ after each operation is completed	Mark	Mark √ after each operation is completed	Mark
1	Clean Weeder throughly		Check for abnormal noise and vibration	
2	Clean crank case after running the engine for 5-10 minutes, clean oil screen assembly.		Check all control lever function	
3	Change engine oil and refill with recommended grade & quantity of engine oil		Clean dirt, dust & grass from the blades properly	
4	Clean air cleaner and filtering element. Change oil.			
5	Lubricate all moving parts.			
6	Check cylinder head nuts. Tighten the nut to the recommended torque.			
7	Check and tighten all nuts and bolts to the recommended torque.			
8	Adjust valve clearance as recommended.			
9	Clean fuel filter element, change it if necessary.			
10	Tighten the rotary blades Nuts and Bolts			
11	Tighten the Chassis stud and bolts			
12	Tighten the Wheel Nuts			
13	Drain, flush and fill Transmission case oil with recommended grade			
14	Start engine and follow.			

11. PDI Check List

PDI CHECK LIST					
Sr. No.	Engine	Mark			
1	Check Engine Oil and Top up to Recommended Level				
2	Check Fuel Tank And fuel lines for leakage & tighten if required				
3	Check air cleaner oil and Top up to the mark				
4	Check Engine foundation bolts and tighten, if necessary				
5	Crank the engine 3 - 4 times				
6	Check exhaust condition				
7	Check abnormal sound				
8	Check vibration				
9	Check engine speed and hunting				
10	Check for oil leakage				

Sr. No.	Supportive Aggregates	Mark
1	Check gear box oil and Top-up the level	
2	Lubricate all moving parts of joints and lever	
3	Check tyre pressure	
4	Check all bolts and nuts and tighten, if necessary	
5	Tighten the wheel nuts and all blades nut & bolts	
6	Check all control lever function	

	PDI Coupon No. :						
Model :	Engine No. :	Chassis No. :	Invoice No. :				
Dealer's Name : _							
			Signature				
Technician's Name	Technician's Name						
	Signature						
Remarks if any :	_						
	—						
	Customer's Signature						

Kirloskar Oil Engines Limited A Kirloskar Group Company 13,Laxmanrao Kirloskar Road, Khadki,Pune, Maharashtra 411003

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