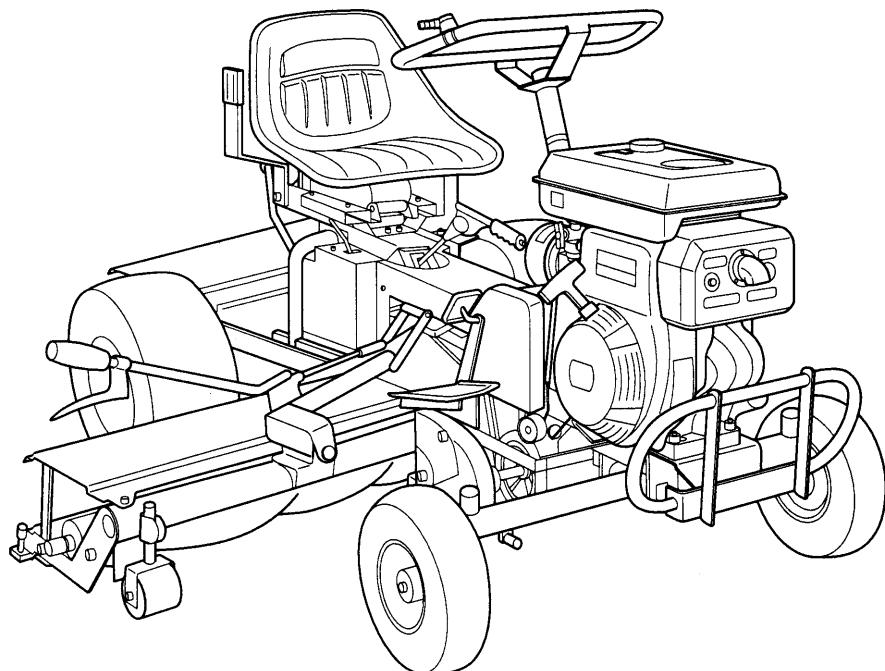


SUPER MOWER

LM180B

BARONESS
Lawn Mower



Owner's Handling Manual & Parts Catalog
SN13260 and onwards

Read this manual before using the machine.



KYOEISHA CO., LTD.

Greeting

Thank you very much for the riding-type triple lawn mower, Baroness Super Mower LM180B.

This manual explains the method of correct handling, adjustments, and inspection of LM180B. Prior to use, carefully read this Handling Manual, as well as the separate Handling Manual for Engine to thoroughly understand the contents for safe, correct operation.

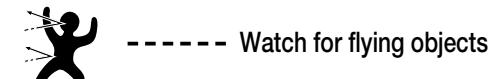
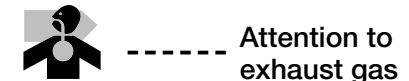
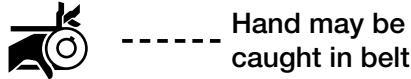
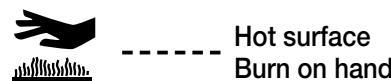
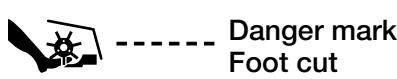
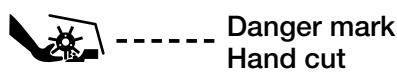
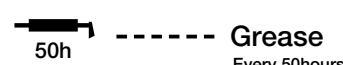
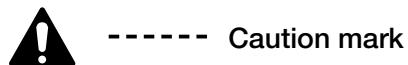
= NOTE =

- ◆ "Right and left" described in this Manual apply to cases where the machine is viewed from the driver's seat.
- ◆ This machine cannot be driven on a public road.
- ◆ The contents of this Manual are subject to change for improvement without notice.



- Marks attached to this Handling Manual and the machine indicate precautions for safety. Read them carefully.
- Understand well the operating procedures and safety precautions before operating the machine.
- The marks and explanatory sentences should be kept clean. If they are lost or damaged, attach new marks.

Symbols



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1. Safety Precautions

Before operating, understand correct operating procedures and safety precautions.

1-1 Safety Check before Work

- ① Wear clothes that fit your body.
Wear protectors (goggles, safety shoes, helmet, gloves, etc.) that suit the work.
- ② Learn how to stop the engine in an emergency. When the engine is started, put the change lever in the neutral position.



- ③ **CAUTION**  Belts, pulleys, rotating shafts, etc. are very dangerous when exposed. Check that all the covers are installed at specified positions.
- ④ Check that the brake, steering wheel, tires are normal.
- ⑤ Check that bolts and nuts are not loose. If they are, tighten them.

1) Cautions when engine is started

- ① Check that the side brake is pulled.
- ② Keep away from children and other persons, and operate the machine alone.
- ③ Start the engine only from the driver's seat.

- ④ **WARNING**  Do not operate the engine in a poorly-ventilated place. The exhaust gas contains noxious carbon monoxide.

1-2 Safety Check during Work

- ① Pull the traveling lever slowly to prevent sudden starting.

- ② **DANGER**  Be careful not to drop the mower when lifting it.

- ③ **DANGER**  Do not put your hand or foot near the blade reel cylinders when they are rotating.

- ④ **DANGER**  The blade reel cylinders and bottom blades are very sharp. Handle them carefully.

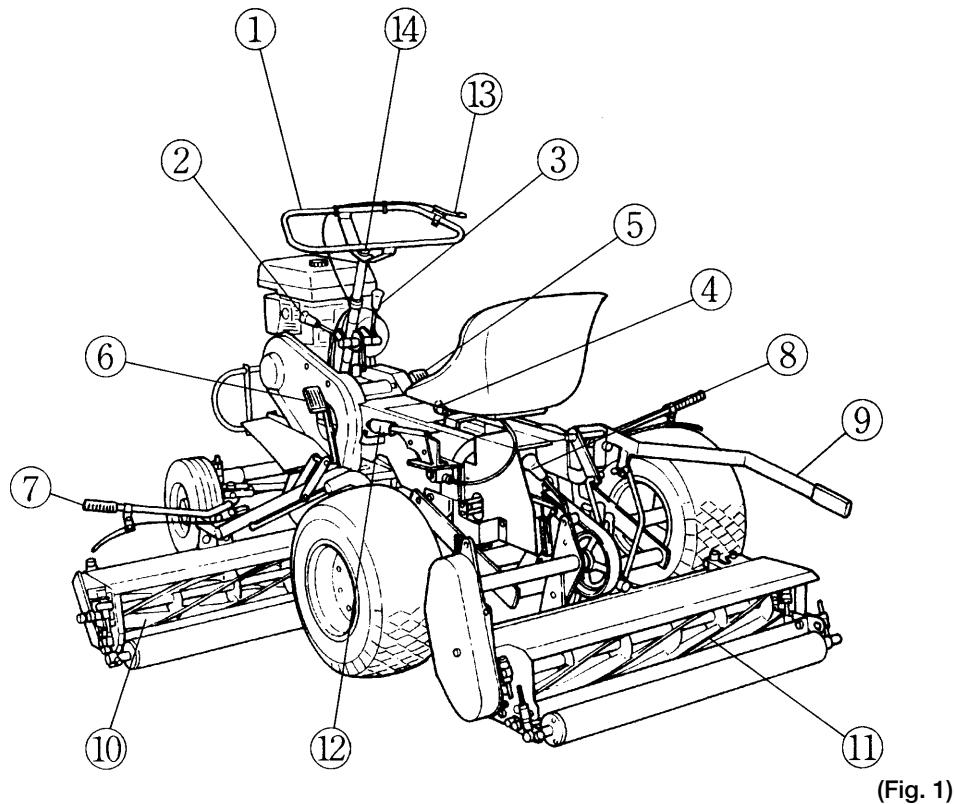
- ⑤ **DANGER**  Fire is strictly prohibited during fuel supply. Supply fuel outdoors after the engine is stopped and cooled.

- ⑥ **CAUTION**  The engine is very hot during operation. Do not put your hand or combustibles near the muffler and engine.
- ⑦ Always operate the machine at a speed that allows emergency stopping. Avoid sudden starting or sudden turning. Travel at low speed especially when travelling downhill.
- ⑧ Do not operate at a place in danger of falling or slipping.
- ⑨ When leaving the driver's seat, park the machine at a flat place, stop the engine, and pull the side brake.
- ⑩ If any machine abnormality such as abnormal vibration or abnormal noise is noticed during operation, immediately stop the engine, investigate the cause and completely repair before restarting.

1-3 Safety Check after Work

- ① For adjusting, repairing or cleaning, choose a flat place and pull the parking brake.
- ② When doing any work under the raised mower portion or machine, use proper supports to hold it up.
- ③ Keep the caution marks and explanations clean at all times. If they are lost or damaged, attach new labels.
- ④ Do not remodel the machine without permission, otherwise malfunction or danger will result.
- ⑤ Do not store the machine indoors with the fuel left in the tank.
- ⑥ Cool the engine before covering the machine with a sheet, etc.

2. Names of Portions



No.	Name	No.	Name
①	Handle	⑧	Clutch lever for rear mower
②	Traveling clutch lever	⑨	Lifting lever (for rear mower)
③	Clutch lever for right/left mowers	⑩	Left blade reel cylinder
④	Change lever	⑪	Rear blade reel cylinder
⑤	Brake pedal	⑫	Side brake
⑥	Diff-lock pedal	⑬	Throttle lever
⑦	Lifting lever (for right/left mowers)	⑭	Engine stop switch

Table 1

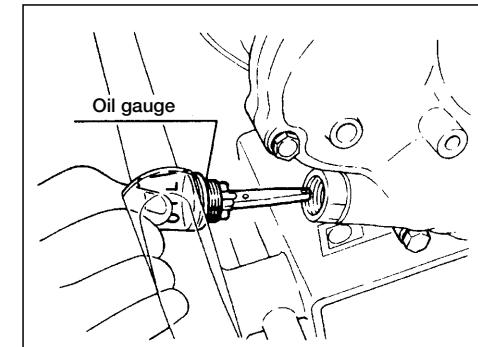
3. Inspection before Use

3-1 Inspection of Engine Oil



For details, see the separate Handling Manual for Engine.

Check the engine oil at a flat place. Put in the oil gauge (without screwing it in) through the oil filter port to check that the oil level is between the two knurl lines on the gauge. If not, supply oil.



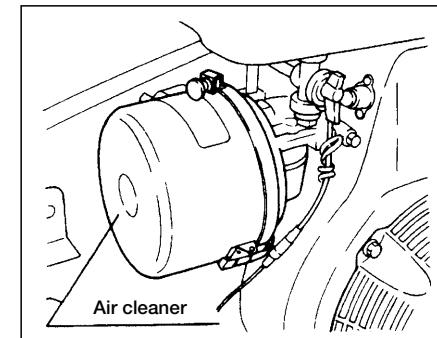
(Fig. 2)

3-2 Inspection of Air Cleaner



For details, see the separate Handling Manual for Engine.

If the air cleaner element is heavily contaminated, engine starting failure, insufficient output, or malfunction will result, and the engine life will be extremely shortened as well. For the cleaning method, see 7-2 Cleaning of Air Cleaner.



(Fig. 3)

3-3. Inspection of Fuel



When fuel is insufficient, supply lead-free gasoline for automobiles.

The tank capacity is approx. 6 litres.

3-4. Inspection of Oil Leakage

Check the bottom of the machine for oil leakage.

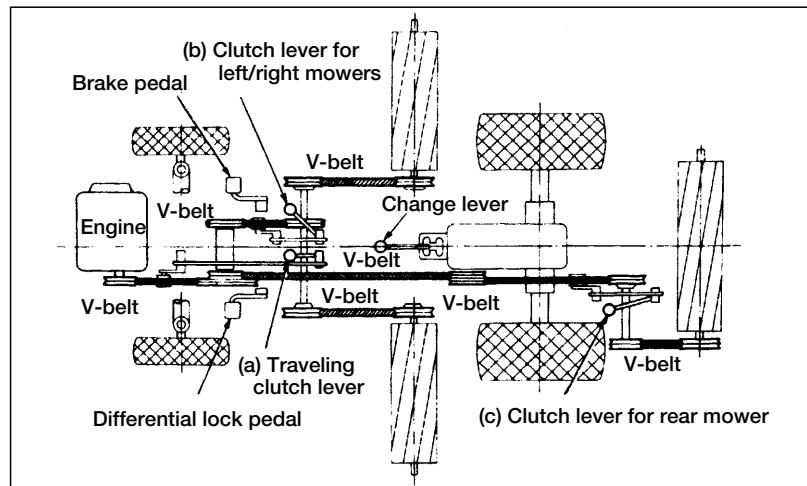
3-5. Inspection of Tires

The mowing height changes according to the pneumatic pressure of the tire.
Keep the pneumatic pressure constant at all times.

Size of tire	Pneumatic pressure
Front wheel 4.00-5	2.0 kg/cm ²
Rear wheel 18x8.50-8	0.8 kg/cm ²

3-6. Inspection of Belts

Excessive belt tension will damage bearings or break shafts. If belts are excessively loose, slippage and belt damage will result, or the reel rotation and operation speed will not be high enough for mowing. Check the belt for appropriate tension and make sure that there is no crack.



(Fig.4)

Belts are installed as shown in Fig.4. (6 types; 8 in total)

For adjustment of belts, refer to "4-11 Adjustment of Belt Tension."

3-7. Inspection of Mowers

Check the three mower units for the mowing height and sharpness of blades.

4. Operation and Adjustment of Each Section

4-1. Start / Stop of Engine



For details, refer to the engine Handling manual.

1) Start

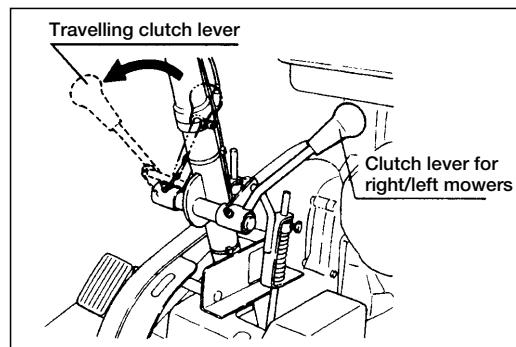
- ① Open the fuel cock, which is under the fuel tank.
- ② Move the throttle lever from the low-speed side slightly to the high-speed side.
- ③ Pull the choke button. Pull the button halfway for restarting, as necessary.
- ④ Pull the start rope hard.
- ⑤ After the engine has started, slowly return the choke button.
- ⑥ Warm up the engine at a slow speed for 1-2 minutes without a load.
- ⑦ Gradually move the throttle lever to high-speed side.

2) Stop

- ① Move the throttle lever to the slow-speed, and continue idling for 1-2 minutes.
- ② Turn off the engine switch.
- ③ Close the fuel cock.

4-2 ! Operation of Travelling Clutch Lever

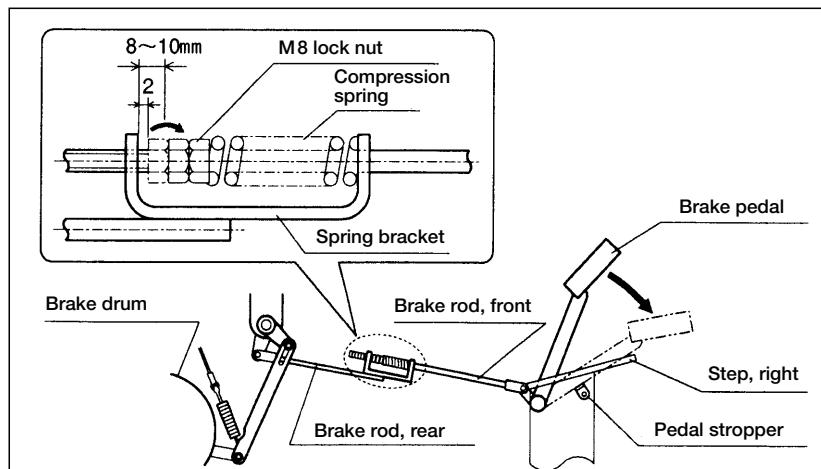
Pull the lever slowly to prevent sudden starting. Start the machine while allowing the belt to slip in the same way as clutch-slipping. (Fig. 5)



(Fig. 5)

4-3 Operation and Adjustment of Brake Pedal

To stop the machine, depress the brake pedal with your right foot until it hits the pedal stopper. If the pedal play increases or the brake does not work properly even if the pedal is depressed up to the stopper, shorten the rod by loosening the lock nut and screwing in the nut. Adjust it so that the clearance between the spring bracket and the double nut will be 8-10mm when the pedal is depressed up to the stopper. (If smaller than 8mm, the brake does not work properly, and if larger than 10mm, the brake may be damaged.) (Fig. 7)



(Fig. 6)

4-4 Operation and Adjustment of Diff-Lock Pedal

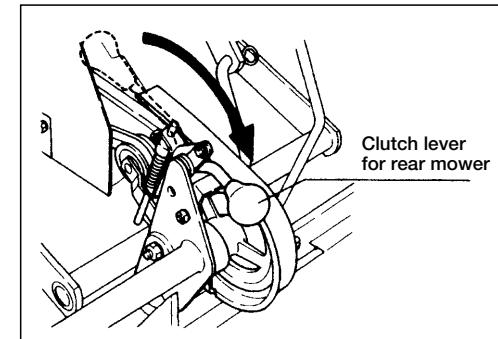
If the pedal on the left is depressed, the differential device is locked to enhance linearity, thus preventing slipping. If the pedal play increases, make adjustment with the adjusting bolts at both ends of the wire.

4-5 Operation of Clutch Lever for Right/Left Mowers

Pull this lever to rotate the right/left mowers.
The right and left mowers rotate simultaneously.

4-6 Operation of Clutch Lever for Rear Mower

Pull this lever to rotate the rear mower.

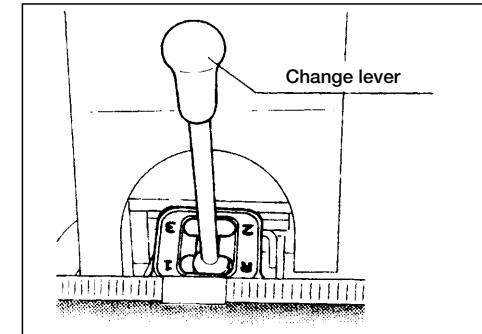


(Fig. 7)

4-7 Operation of Change Lever

A direct change system is adopted for the change lever. The speed change positions are shown in the figure.

- ◆ Do not change the lever position during travelling.



(Fig. 8)

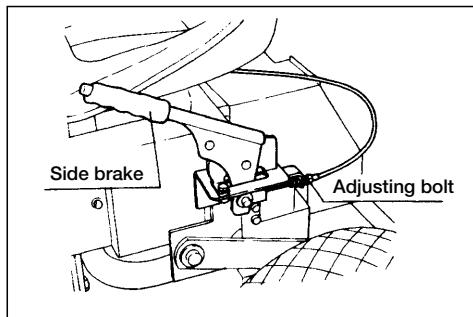
4-8 Operation and Adjustment of Side Brake

1) Operation

The side brake is located on the left side of the saddle. Pull it completely for parking.

While pressing the pushbutton, return the brake lever correctly.

- ◆ For parking on a hill, apply scotch in addition to pulling the side brake.

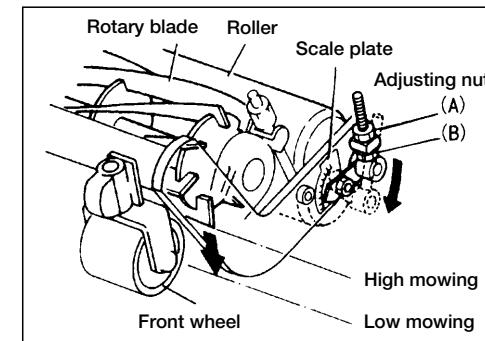


(Fig. 9)

2) Adjustment

If the side brake does not work properly, make adjustment with the adjusting bolts at both ends of the wire. (Fig. 9)

- ◆ The front wheel is provided to prevent the blade reel cylinder from damaging a convex portion of the lawn surface. It should not be grounded but should be raised 10-20mm.

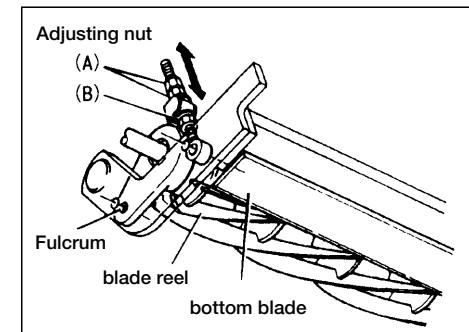


(Fig. 10)

4-10 Adjustment of Blade Engagement

To adjust the engagement between the blade reel cylinder and bottom blade, bring the edges entirely into slight contact with each other by using the adjusting nuts so that newspaper can be cut.

- ① If gap is created between edges
→ Slightly loosen the nut B and tighten A.
 - ② If tight and difficult to turn
→ Slightly loosen the nut A and tighten B.
- ◆ If the newspaper cannot be cut at some places even if the blades are in slight contact, grind them by lapping in good time.



(Fig. 11)

4-9 Adjustment of Mowing Height

The mowing height is adjusted by moving up/down the roller.

- ① To increase mowing height
→ Loosen the nut A and lower the roller.
- ② To decrease mowing height
→ Loosen the nut B and raise the roller.

4-11 Adjustment of Belt Tension

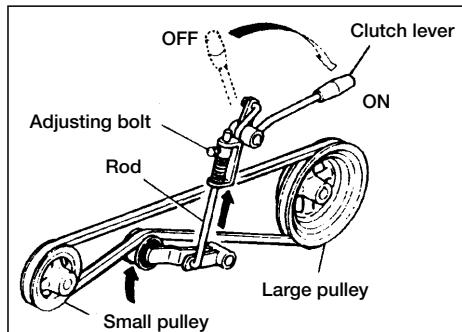
The belt tension is adjusted by changing the rod length with the adjusting bolt or nut.

1) Belt tension clutch (3 places)

Loosen the adjusting bolt, and change the length of the rod.

◆ Make adjustment so that the belt and large pulley are stopped when the clutch lever is set to OFF.

- ① Traveling clutch
- ② Right/left mowers clutch
- ③ Rear Mower clutch

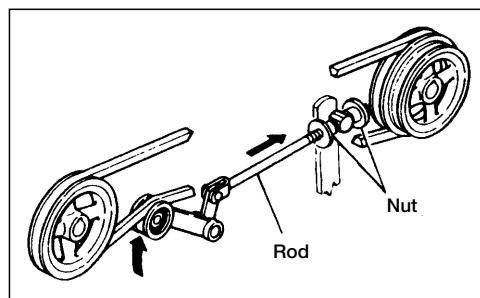


(Fig. 12)

2) Portions where belt is always tensioned (2 places)

Loosen the adjusting nut, and change the length of the rod.

- ① Between mission pulley and large pulley on the intermediate shaft.
- ② Between outside pulleys of rear mower portion.



(Fig. 13)

5. Mowing Work



DANGER



Do not put your hands and feet near the blade reel cylinder when it is rotating.

5-1 How to Operate

- ① Before starting the engine, check the following points.
 - The change lever must be in the neutral position.
 - The travelling clutch lever must be in the "OFF" position.
 - ② Start the engine.
 - ③ Pull the clutch levers of the right/left mowers and rear mower.
 - ④ Slowly pull the travelling clutch lever in the same way as clutch-slipping.
- ◆ When the machine is started through the above operations, the blade reel cylinders rotate and the mowing work starts.

5-2 Adjustment before Work

- ① Check the sharpness of the blade. The blade is sharp if newspaper can be cut well.
- ② Try mowing to see if the mowing height of the three mowers is the same.

6. Method of Lapping

Lapping is intermediate finishing that is required temporarily before resharpening the blade. Both blade reel cylinder and bottom blade are simultaneously lapped by applying the abrasive while turning the blade reel cylinder in the direction opposite to the mowing direction.

1) Things to be prepared (special-order products)

- ① Lapping machine Baroneess RM20
- ② Abrasive FEL-PRO Clover Reel Sharpening Compound (genuine product)
- ③ Brush Paint brush
- ④ Tool 17 spanner, etc.
- ⑤ Others Strips of newspaper, gloves, etc.

2) Procedure

For details, see the Handling Manual of Lapping Machine.



- ① Bring the blade reel cylinder and the bottom blade into slight contact with each other uniformly at right and left. Cut newspaper into strips and check which portion of the blade is dull.
 - ② Connect the lapping machine and the blade reel cylinder shaft of the mower.
 - ③ Rotate the blade reel cylinder in the direction opposite to the mowing direction and apply the abrasive with a brush to the portion where the newspaper was cut well.
 - ④ Idle the machine for a while, and then switch off the lapping machine when contact noise is no longer heard.
 - ⑤ Trialy cut the newspaper strips with the entire width of the blade reel cylinder, and note portions of cutting well and not well.
- ◆ Repeat the above steps ①~⑤ When the blade reel cylinder and bottom blade are uniformly engaged (brought into contact) with each other entirely, wash off the abrasive to finish the work.



- ◆ The edges are very sharp. Be sure to wear gloves when touching the blades.
- ◆ The blade reel cylinder must be rotated in the direction opposite to the mowing direction.
- ◆ It is dangerous when you apply the abrasive with a brush to the rotating blade reel cylinder. Be careful that your hand and brush will not be caught.
- ◆ When cutting the newspaper, pay attention to your fingers that will turn the blade reel cylinder.
- ◆ Should the abrasive enter your eyes, immediately wash your eyes with water. If the condition is serious, consult a doctor.

7. Maintenance and Inspection of Portions

Before checking, clean the machine body. The parts of operating portions and consumables should be periodically maintained and replaced as necessary.

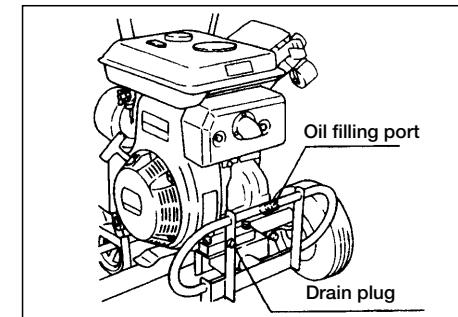
7-1 Change of Engine Oil



For details, see the Handling Manual for Engine.

If the engine oil is contaminated or running short or if poor-quality oil is used, the life of the engine will be extremely shortened. For changing oil, drain the oil through the drain plug when the engine is stopped and warm.

First time	after 20-hour operation
Second time and later	every 50-hour operation
Oil quantity	approx. 1.2 litres
SAE viscosity	SAE30 in summer, SAE20 in winter



(Fig. 14)

7-2 Cleaning of Air Cleaner



For details, see the Handling Manual for Engine.

Periodically clean the air cleaner so that clean air can be supplied to the engine.

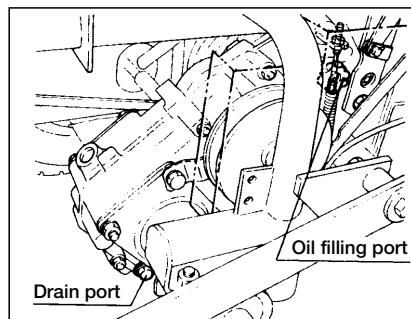
- ① Clean the urethane foam with white kerosene, and then immerse it in a mixture of three parts white kerosene and one part engine oil, and firmly squeeze before installing.
- ② Clean the element with white kerosene, immerse it in the mixture of three parts white kerosene and one part engine oil, and then shake/squeeze it before installing.

7-3 Change of Mission Oil

The oil filling port is located at the top on the right side of the mission case.

The drain port is located at the bottom on the right side of the mission case.

First time	after 50-hour operation
Second time and later	every 300 hours or every year
Oil quantity	approx. 2 litres
Specified oil	Oil No. 90 for automobile



(Fig. 15)

7-4 Oiling and Greasing

Always supply oil to moving parts and periodically grease them with
a
grease nipple.

7-5 Inspection of Parts

Check and maintain bearings, various seals, belts, pulleys, wires, tires, plugs, etc. periodically, and replace parts as necessary.

7-6 Maintenance List

◆Do maintenance earlier than the time shown below as necessary.

	Maintenance item	Hourly	50H	200H	Yearly
Engine	Inspection/supply of engine oil	<input type="checkbox"/>			
	Change of engine oil		<input type="checkbox"/>		
	Cleaning of ignition plugs		<input type="checkbox"/>		
	Cleaning of air cleaner		<input type="checkbox"/>		
	Cleaning of fuel strainer			<input type="checkbox"/>	
	Adjustment of ignition plug clearance			<input type="checkbox"/>	
	Removal of cylinder head carbon				<input type="checkbox"/>
	Cleaning of carburetor				<input type="checkbox"/>
	Checking/fitting of inlet valve/exhaust valve				<input type="checkbox"/>
	Overhaul				<input type="checkbox"/>
Machine	Inspection of tire air pressure	<input type="checkbox"/>			
	Inspection of looseness of screws	<input type="checkbox"/>			
	Inspection of fuel level	<input type="checkbox"/>			
	Inspection of oil leakage	<input type="checkbox"/>			
	Inspection of cutting quality of blade	<input type="checkbox"/>			
	Oil supply to sliding portions		<input type="checkbox"/>		
	Inspection of belt tension		<input type="checkbox"/>		
	Adjustment of wires		<input type="checkbox"/>		

Table 2

8. Inspection for Long Storage

For the engine, see the Handling Manual of Engine.



1) Changing oil

Change the engine oil/mission oil, etc.

2) Oiling

Supply oil to moving parts, and apply grease to the blade reel cylinder and bottom blade to prevent rusting.



50h

3) Draining fuel

If the engine is not used for one month or longer, drain the fuel from the fuel tank and carburetor to prevent defective starting and operation due to deterioration of the fuel.

4) Air pressure of tires

Set the air pressure slightly higher than the standard, and place the tires on plates to protect them from humidity.

5) Storage place

Cover the machine and store it at a dry place not exposed to rain.

9. Specifications

1) Mowers

Number of units	3
Mowing width	188cm
Reel diameter	16.3cm
Reel width	Right/left 66cm, rear 77cm
Number of reel blades	7 (5 optional)
Mowing height	13-50mm

Table 3

2) Engine

Name	Robin EH30B
Type	Air-cooled 4-cycle vertical OHV type gasoline engine
Total displacement	291cc
Continuous rated output	7.8PS/1800rpm
Maximum output	9.0PS/1800rpm
Maximum torque	3.9kgm/1250rpm
Fuel consumption	230g/PSh (at continuous rated output)
Specified lubricating oil	Engine oil for automobile (SAE30 API CF/SF)
Quantity of lubricating oil	1.2 litres
Fuel tank capacity	6 litres (lead-free gasoline for automobile)

Table 4

3) Machine

Number of speeds	Forward : 3 speeds, backward : 1 speed 1st speed : 3.1km/h 2nd speed : 6.4km/h 3rd speed : 9.4km/h Back : 3.1km/h
Speed	Grade ability : 20 Travelling clutch : Belt tension type Brake : Internal expanding type 5 inches Wheel : Front 4.00-5 Rear 18x8.50-8
	Minimum turning radius : 230cm Total length : 215cm Total width : 208cm Total height : 102cm Total weight : 350kg (with mowers) Efficiency : 84a/h (mowing width x 2nd speed x 0.7)

Table 5

Parts Catalog

Note

(Inquiry about This Machine)

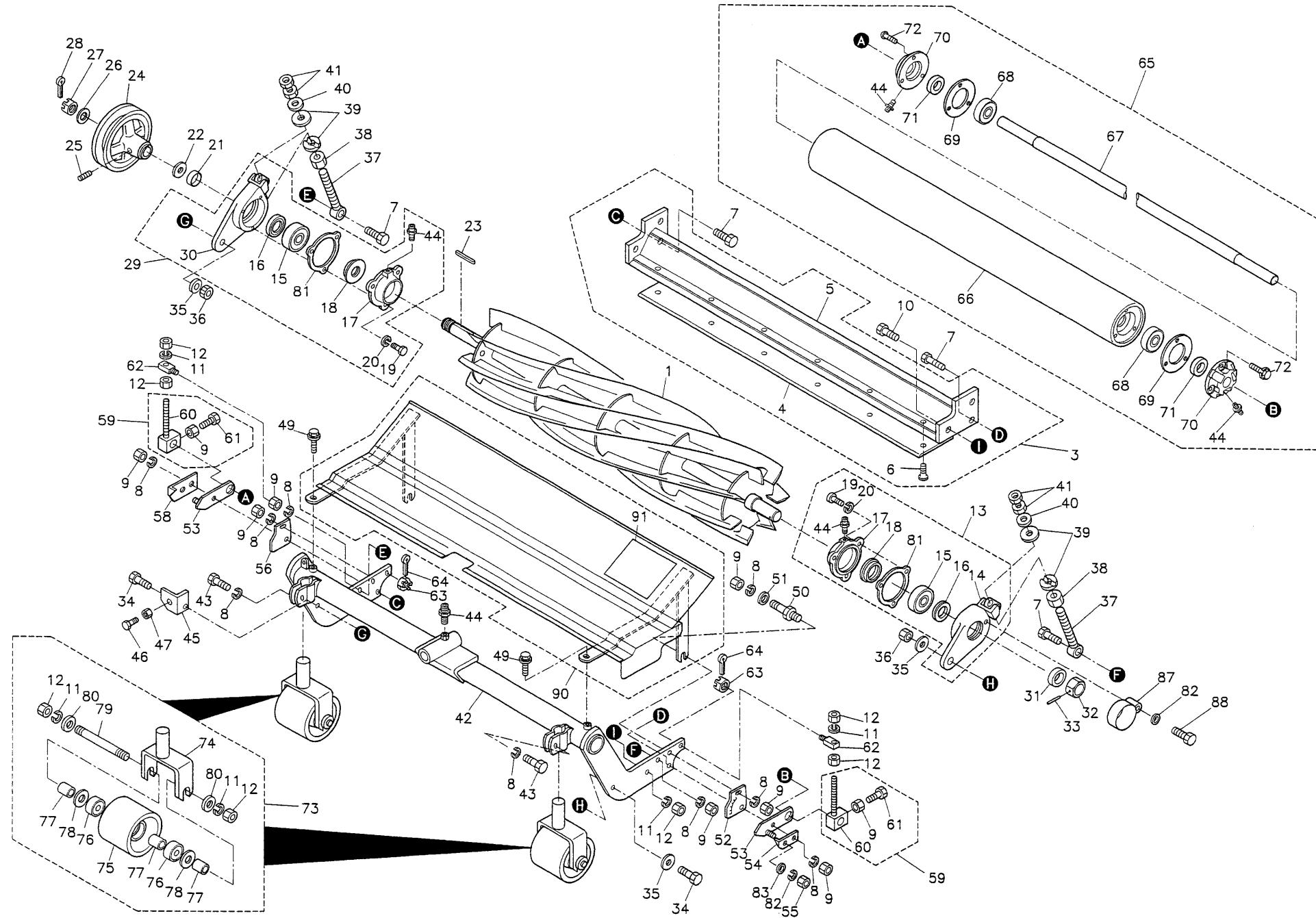
Since the type may be changed sequentially, inform us also of the machine type and No.
The contents of the catalog are subject to change without notice.

(Ordering Parts)

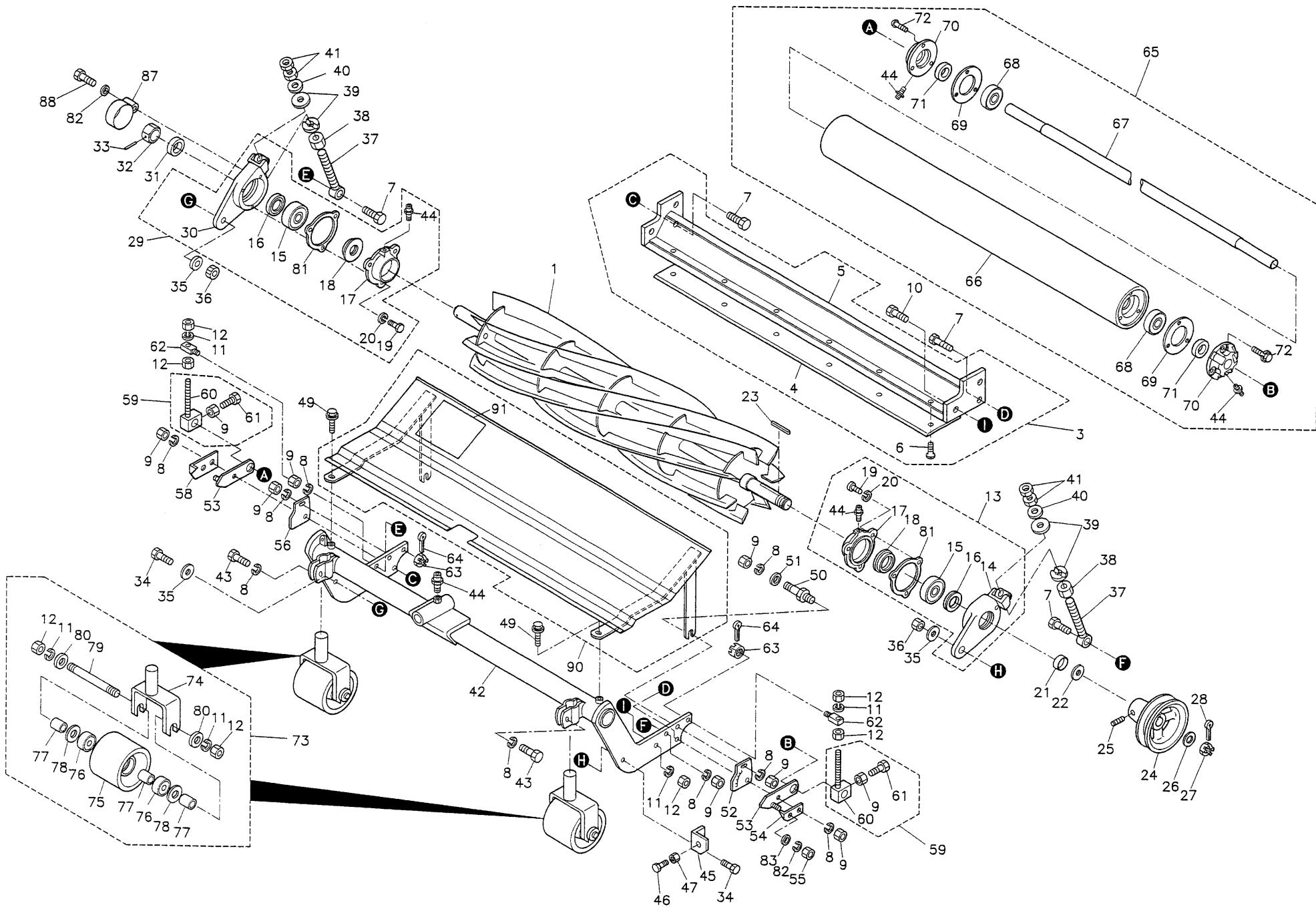
Parts are controlled with a computer. To prevent shipping of wrong parts,
inform us of the catalog No., code No., and part name when ordering parts.

Example	Catalog No.	Code No.	Part name	Quantity
	9-2	LM180A-0802Z3	Mission pulley	1

1 Left Mower Portion



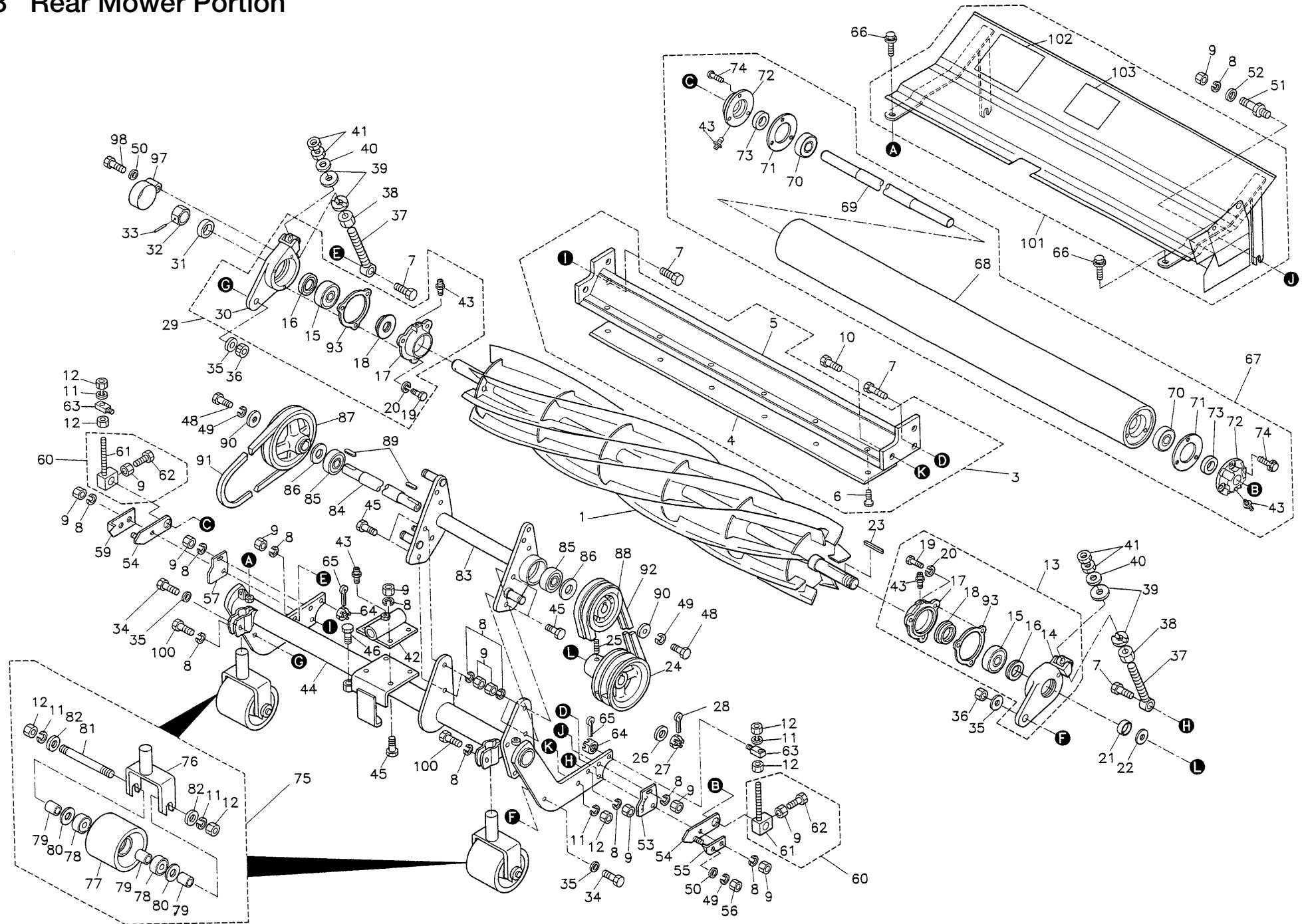
2 Right Mower Portion



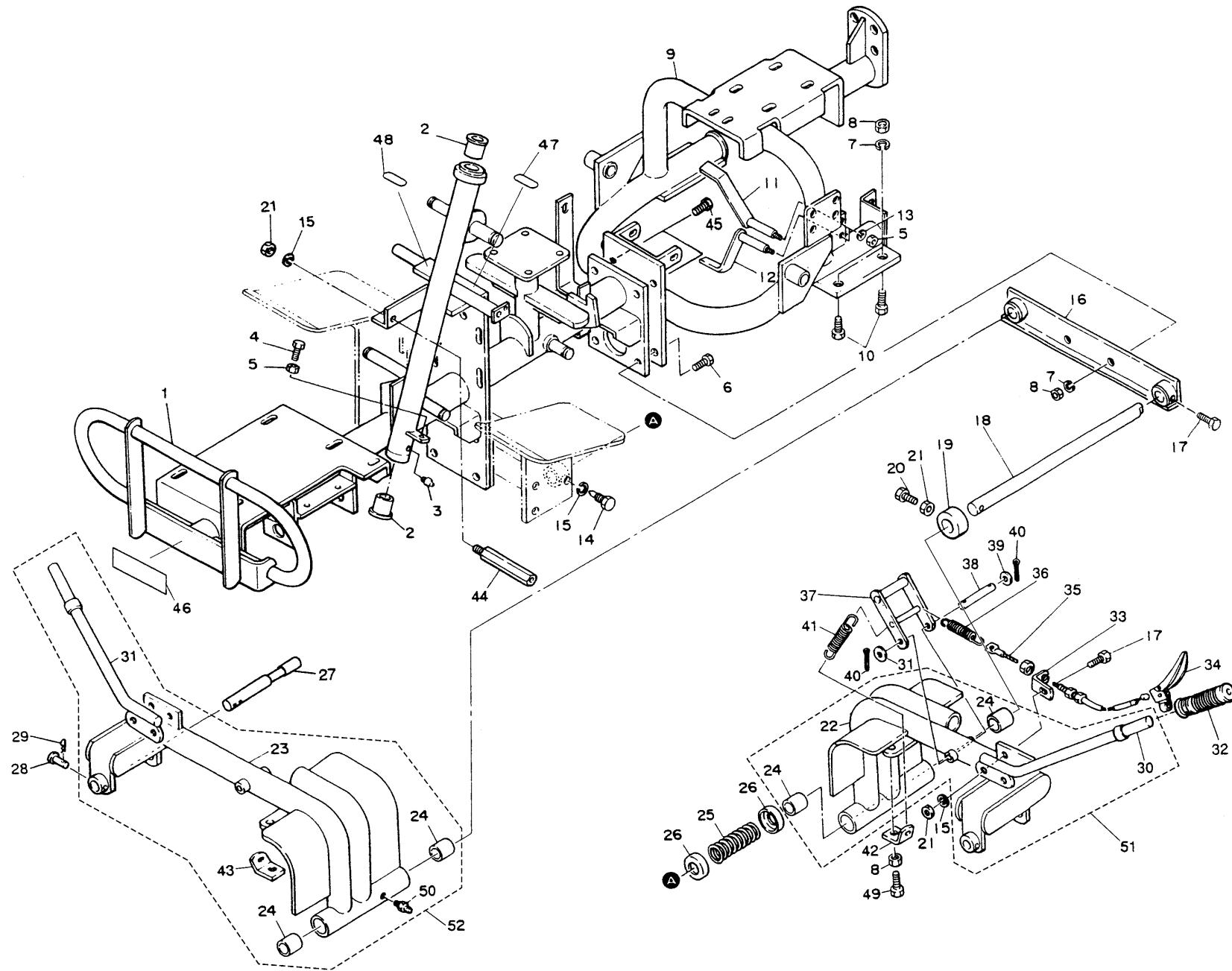
Catalog No.	Code No.	Part Name	Qty /Unit	Common Part	Retail Price
2- 1	K 2 8 1 8 5 0 R 7 A R	Blade reel cylinder 660-7R	1		
2- 2	K 2 8 1 8 5 0 R 5 A R	Blade reel cylinder 660-5R (option)	1		
2- 3	K 8 0 2 2 0 0 0 2 0	180 right-left knife Ass'y	1	<input type="radio"/>	
2- 4	K 2 5 1 0 0 0 0 0 3 0	7 bottom blade 85-662	1	<input type="radio"/>	
2- 5	K 7 4 4 2 0 0 0 0 6 R	Bottom blade mount 732	1	<input type="radio"/>	
2- 6	K 0 0 7 1 0 0 0 0 9 2	10 heat-treated-countersunk head screw 20	6	<input type="radio"/>	
2- 7	K 0 0 0 0 1 0 0 3 5 2	10 bolt 35	4	<input type="radio"/>	
2- 8	K 0 2 0 0 1 0 0 0 0 2	10S washer	10	<input type="radio"/>	
2- 9	K 0 1 0 0 1 0 0 0 0 2	10 nut	10	<input type="radio"/>	
2-10	K 0 0 0 0 1 2 0 3 5 2	12 bolt 35	2	<input type="radio"/>	
2-11	K 0 2 0 0 1 2 0 0 0 2	12S washer	6	<input type="radio"/>	
2-12	K 0 1 0 0 1 2 0 0 0 2	12 nut	10	<input type="radio"/>	
2-13	L M 1 8 0 B - 0 1 0 7 Z 0	Reel bracket metal left A Ass'y	1set	<input type="radio"/>	
2-14	L M 1 8 0 A - 0 1 0 8 Z 2	Reel bracket metal left A	1	<input type="radio"/>	
2-15	K 0 6 0 2 0 6 3 0 4 0	Bearing 6304Z	2	<input type="radio"/>	
2-16	K 0 8 6 0 0 0 0 0 5 0	Dustproof seal	2	<input type="radio"/>	
2-17	K 6 9 0 3 0 0 0 0 4 2	Housing cover	2	<input type="radio"/>	
2-18	K 0 8 2 2 5 4 2 0 8 0	Oil seal MHSA25428	2	<input type="radio"/>	
2-19	K 0 0 0 0 0 6 0 1 5 2	6 bolt 15	6	<input type="radio"/>	
2-20	K 0 2 0 0 0 6 0 0 0 2	6S washer	6	<input type="radio"/>	
2-21	K 6 2 1 2 0 0 0 1 6 2	20.2 STKM collar 25.4 4.75	1	<input type="radio"/>	
2-22	K 5 0 3 0 5 2 0 4 0 0	0.5 C2801P washer 2040	1	<input type="radio"/>	
2-23	K 0 5 5 0 0 0 0 0 5 0	5 x 5 x 42 special key	1	<input type="radio"/>	
2-24	K 2 4 2 0 0 0 0 0 1 2	B1V pulley 20134	1	<input type="radio"/>	
2-25	K 0 0 2 3 0 8 0 0 8 1	8 hollow set 8	2	<input type="radio"/>	
2-26	K 5 0 7 3 2 2 0 4 0 2	3.2 SPHC washer 2040	1	<input type="radio"/>	
2-27	K 0 1 7 0 0 0 0 0 1 2	20 slotted special nut	1	<input type="radio"/>	
2-28	K 0 3 0 0 0 3 2 3 6 2	3.2 cotter pin 36	1	<input type="radio"/>	
2-29	L M 1 8 0 B - 0 1 1 2 Z 0	Reel bracket metal right B Ass'y	1set	<input type="radio"/>	
2-30	L M 1 8 0 A - 0 1 1 1 Z 2	Reel bracket metal right B	1	<input type="radio"/>	
2-31	K 4 0 3 1 0 0 0 2 4 0	Waterproof cap	1		
2-32	K 6 0 8 0 0 0 0 0 3 2	Lapping shaft	1		
2-33	K 0 3 2 0 0 3 0 2 5 1	3 spring pin 25	1	<input type="radio"/>	
2-34	L M 1 8 0 A - 0 1 2 0 Z 2	Shaft bolt	2	<input type="radio"/>	
2-35	K 5 0 7 3 2 1 5 3 0 2	3.2 PHC washer 14.530	3	<input type="radio"/>	
2-36	K 0 1 4 5 1 4 0 0 0 2	14U nut P1.5	2	<input type="radio"/>	
2-37	K 6 5 1 1 0 0 0 0 9 2	Cutter adjusting bolt 100	2	<input type="radio"/>	
2-38	L M 1 8 0 A - 0 1 3 5 Z 2	M10 fine nut	2	<input type="radio"/>	
2-39	K 6 5 0 0 0 0 0 1 0 2	5SS41 washer 10.522	4	<input type="radio"/>	
2-40	K 5 0 5 1 0 1 0 2 0 0	1C5191P washer 1020	2	<input type="radio"/>	
2-41	K 0 1 0 6 1 0 0 0 0 2	10 nut P1	4	<input type="radio"/>	
2-42	L M 1 8 0 B - 0 1 4 1 A R	Mower frame right	1	<input type="radio"/>	
2-43	K 0 0 1 0 1 0 0 2 5 2	10 heat-treated bolt 25	2	<input type="radio"/>	
2-44	K 1 4 4 0 0 0 0 0 1 0	Grease nipple	5	<input type="radio"/>	
2-45	L M 1 8 0 A - 1 0 2 3 A 2	Scraper for right mower	1	<input type="radio"/>	

Catalog No.	Code No.	Part Name	Qty /Unit	Common Part	Retail Price
2-46	K 0 0 0 0 0 6 0 4 0 2	6 bolt 40	1	<input type="radio"/>	
2-47	K 0 1 0 0 0 6 0 0 0 2	6 nut	1	<input type="radio"/>	
2-48					
2-49	K 0 0 0 7 0 8 0 2 0 2	8 bolt 20SW	2	<input type="radio"/>	
2-50	L M 1 8 0 A - 0 1 4 7 Z 2	Reel cover bolt	2	<input type="radio"/>	
2-51	K 5 0 0 0 1 0 0 0 0 2	10 washer	2	<input type="radio"/>	
2-52	L M 1 8 0 B - 0 1 6 0 Z 0	Mowing height scale plate left	1	<input type="radio"/>	
2-53	L M 1 8 0 B - 0 1 5 0 A 2	Mowing height adjusting plate	2	<input type="radio"/>	
2-54	L M 1 8 0 A - 0 2 5 1 Z 2	Mowing height adjusting needle left	1	<input type="radio"/>	
2-55	K 0 1 0 0 8 0 0 0 2	8 nut	2	<input type="radio"/>	
2-56	L M 1 8 0 B - 0 1 6 2 Z 0	Mowing height scale plate right	1	<input type="radio"/>	
2-57					
2-58	L M 1 8 0 A - 0 2 5 2 Z 2	Mowing height adjusting needle right	1	<input type="radio"/>	
2-59	L M 1 8 0 B - 0 1 5 3 Z 0	Mowing height adjusting screw Ass'y	2sets	<input type="radio"/>	
2-60	L M 1 8 0 B - 0 1 5 4 Z 2	Mowing height adjusting screw	2	<input type="radio"/>	
2-61	K 0 0 0 1 0 0 2 5 2	10 bolt 25	2	<input type="radio"/>	
2-62	L M 1 8 0 B - 0 1 5 6 Z 2	Fixed shaft	2	<input type="radio"/>	
2-63	K 0 1 2 4 1 2 0 0 0 2	12 Slotted nut low	2	<input type="radio"/>	
2-64	K 0 3 0 0 3 2 2 5 2	3.2 cotter pin 25	2	<input type="radio"/>	
2-65	L M 1 8 0 B - 0 1 5 8 A 0	Roller assy	1set	<input type="radio"/>	
2-66	K 7 4 0 0 0 0 0 1 6 D	76.2 roller 674	1		
2-67	L M 1 8 0 B - 0 1 5 9 Z 0	Roller shaft	1	<input type="radio"/>	
2-68	K 0 6 0 2 0 6 2 0 3 0	Bearing 6203Z	2		
2-69	K 4 0 1 5 1 3 6 6 5 0	1 fiber 3665	2		
2-70	K 6 8 1 0 0 0 0 0 7 0	Seal housing	2		
2-71	K 0 8 2 1 7 3 0 0 8 0	Oil seal MHSA1730080	2		
2-72	K 0 0 0 6 0 6 0 1 5 2	6 bolt 15S	6		
2-73	L M 1 8 0 B - 1 2 0 1 Z 0	Front roller Ass'y	2sets	<input type="radio"/>	
2-74	L M 1 8 0 A - 1 2 0 4 Z 2	Front wheel bracket metal	2	<input type="radio"/>	
2-75	K 6 8 0 9 0 0 0 0 2 0	Roller 76 66	2	<input type="radio"/>	
2-76	K 0 6 0 8 0 6 2 0 1 0	Bearing 62012RS	4	<input type="radio"/>	
2-77	K 6 2 1 1 0 0 0 0 5 2	12.7SGP collar 17.3 16.3	6	<input type="radio"/>	
2-78	K 5 0 3 0 5 1 2 3 0 0	0.5C2801P washer 1230	4	<input type="radio"/>	
2-79	K 0 0 7 0 0 0 0 0 3 2	12 double-end stud 115	2	<input type="radio"/>	
2-80	K 5 0 0 0 1 2 0 0 0 2	12 Washer	4	<input type="radio"/>	
2-81	K 4 0 1 1 0 0 0 1 5 0	Packing	2	<input type="radio"/>	
2-82	K 0 2 0 0 0 8 0 0 0 2	8S washer	3	<input type="radio"/>	
2-83	K 5 0 0 0 0 8 0 0 0 2	8 washer	2	<input type="radio"/>	
2-84					
2-85					
2-86					
2-87	L M 1 8 0 B - 0 1 6 4 Z 2	Shaft cover	1		
2-88	K 0 0 0 0 0 8 0 4 0 2	8 bolt 40	1		
2-89					
2-90	L M 1 8 0 B S 2 3 8 0 A 0	Reel cover right for export COMP	1		
2-91	K 4 2 0 5 0 0 1 2 8 0	DANGER Mark	1		

3 Rear Mower Portion



4 Frame Portion

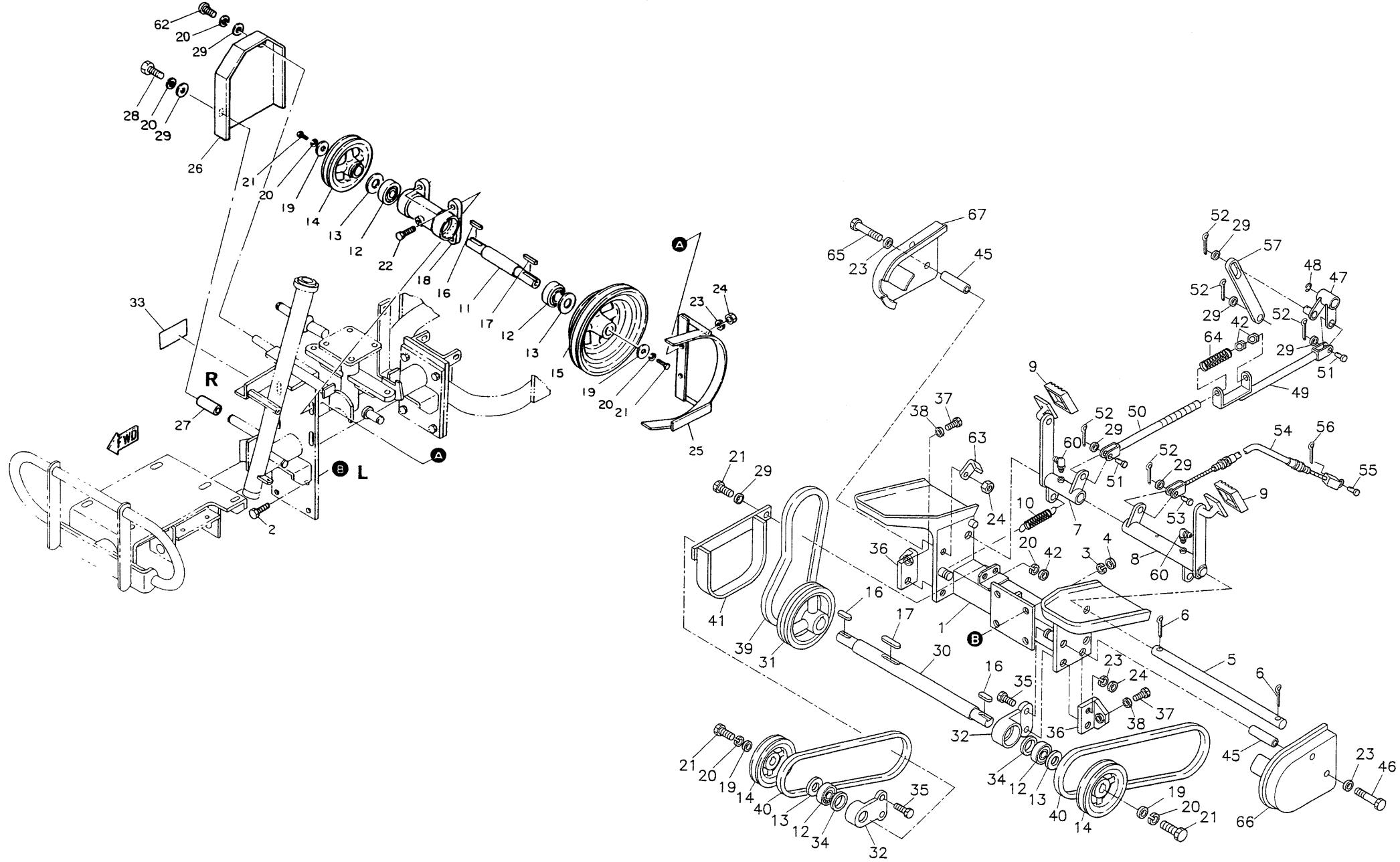


Catalog No.	Code No.	Part Name	Qty /Unit	Common Part	Retail Price
4- 1	LM180B-0301BD	Front frame	1		
4- 2	K60100000080	17.3 bush with hole 2222	2	<input type="radio"/>	
4- 3	K1440000010	Grease nipple	1	<input type="radio"/>	
4- 4	K0000080202	8 bolt 20	3	<input type="radio"/>	
4- 5	K0100080002	8 nut	4	<input type="radio"/>	
4- 6	K0000120402	12 bolt 40	2	<input type="radio"/>	
4- 7	K0200120002	12S washer	12	<input type="radio"/>	
4- 8	K0100120002	12 nut	14	<input type="radio"/>	
4- 9	LM180B-0401AD	Rear frame	1	<input type="radio"/>	
4-10	K0000120352	12 bolt 35	4	<input type="radio"/>	
4-11	LM180A-0450Z2	Belt stopper upper	1	<input type="radio"/>	
4-12	LM180A-0451Z2	Belt stopper lower	1	<input type="radio"/>	
4-13	K0200080002	8S washer	6	<input type="radio"/>	
4-14	LM180A-0308Z2	Supporting shaft fixing bolt	2	<input type="radio"/>	
4-15	K0200100002	10S washer	11	<input type="radio"/>	
4-16	LM180BS0305ZD	Lower frame rear	1	<input type="radio"/>	
4-17	K0000100202	10 bolt 20	4	<input type="radio"/>	
4-18	LM180A-0343Z2	Right/left mower supporting shaft	2	<input type="radio"/>	
4-19	K6218000082	22.5 tapped collar 3820	2	<input type="radio"/>	
4-20	K0000100252	10 bolt 25	2	<input type="radio"/>	
4-21	K0100100002	10 nut	13	<input type="radio"/>	
4-22	LM180B-0347AD	Left mower lifting arm	1		
4-23	LM180B-0348AD	Right mower lifting arm	1		
4-24	K6000000320	22.3 bush 3025	4	<input type="radio"/>	
4-25	K1000000293	5 compression spring 38130	2	<input type="radio"/>	
4-26	LM180A-0345Z2	Spring bracket	4	<input type="radio"/>	
4-27	LM180BS0384Z2	Oscillating shaft	2		
4-28	K6040080402	8 round head pin 40	2	<input type="radio"/>	
4-29	K0340800002	8 Snap pin	2	<input type="radio"/>	
4-30	LM180A-0358ZD	Lifting lever left	1	<input type="radio"/>	

Catalog No.	Code No.	Part Name	Qty /Unit	Common Part	Retail Price
4-31	LM180A-0359ZD	Lifting lever right	1	<input type="radio"/>	
4-32	K1300000080	Handle grip 15.5	2	<input type="radio"/>	
4-33	LM180B-0380Z2	Wire mounting plate	2	<input type="radio"/>	
4-34	K1211111024	Right clutch lever E111102	2	<input type="radio"/>	
4-35	K1170051200	Hook wire 512	2	<input type="radio"/>	
4-36	K1030000048	2U hook spring 1480	2	<input type="radio"/>	
4-37	LM180A-0374BD	Arm-hooking frame	2	<input type="radio"/>	
4-38	K6151000062	10 double-hole shaft 77	2	<input type="radio"/>	
4-39	K5000100002	10 washer	2	<input type="radio"/>	
4-40	K0300032202	3.2 cotter pin 20	4	<input type="radio"/>	
4-41	K1030000038	1.2U hook spring 10.4 56	2	<input type="radio"/>	
4-42	LM180A-0379Z2	Spring clamp left	1	<input type="radio"/>	
4-43	LM180A-0385Z2	Spring clamp right	1	<input type="radio"/>	
4-44	LM180A-1003A2	Cover fitting shaft	1	<input type="radio"/>	
4-45	K0000120352	12 bolt 35	2		
4-46	K4201000420	SAXON Mark	1		
4-47	LM180A-2223Z0	MAIN CLUCH LEVER Mark	1		
4-48	LM180A-2226Z0	CUTTER REVOLUTION Mark	1		
4-49	K0000120302	12 bolt 30	2		
4-50	K1440000030	B-type Grease nipple	2		
4-51	LM180B-0349Z0	Left mower lifting arm COMP	1		
4-52	LM180B-0350Z0	Right mower lifting arm COMP	1		

LM180BS

5 Intermediate Shaft Portion

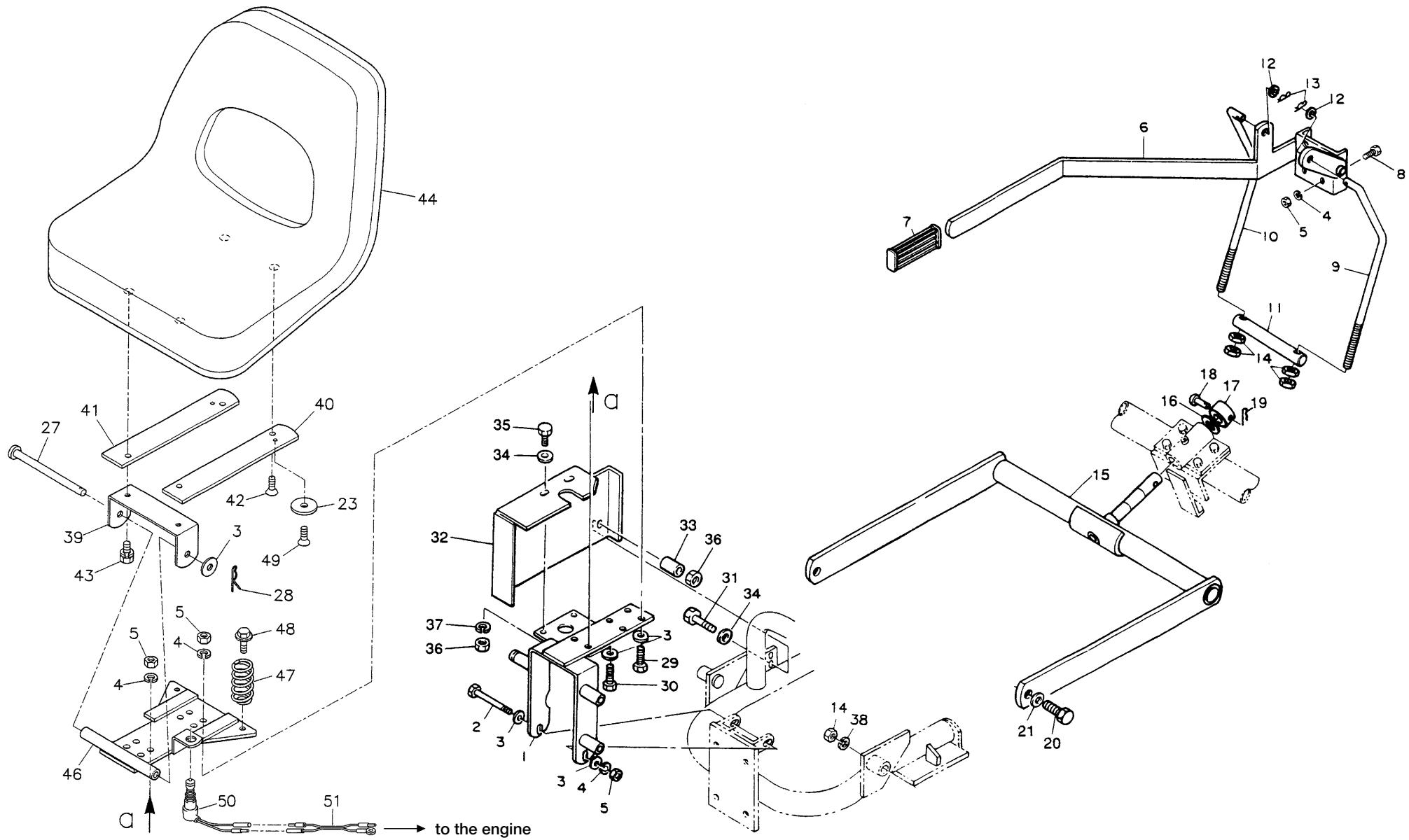


Catalog No.	Code No.	Part Name	Qty /Unit	Common Part	Retail Price
5- 1	LM180A-0303AD	Lower frame front	1	<input type="radio"/>	
5- 2	K0000120352	12 bolt 35	8	<input type="radio"/>	
5- 3	K0200120002	12S washer	12	<input type="radio"/>	
5- 4	K0100120002	12 nut	14	<input type="radio"/>	
5- 5	LM180A-0306A2	Brake shaft	1	<input type="radio"/>	
5- 6	K0300032252	3.2 cotter pin 25	2	<input type="radio"/>	
5- 7	LM180B-0309Z2	Brake pedal	1	<input type="radio"/>	
5- 8	LM180B-0310Z2	Diff-lock pedal	1	<input type="radio"/>	
5- 9	K4050000010	Pedal rubber 55-75	2	<input type="radio"/>	
5-10	K1030000042	2 U hook spring 1480	2	<input type="radio"/>	
5-11	LM180A-0312A0	Intermediate shaft	1	<input type="radio"/>	
5-12	K0604062040	Bearing 6204ZZ	4	<input type="radio"/>	
5-13	K5030520430	0.5 C2801P washer 2043	4	<input type="radio"/>	
5-14	K242000002D	B1V pulley 20124	3	<input type="radio"/>	
5-15	LM180A-0316Z2	Intermediate shaft double pulley	1	<input type="radio"/>	
5-16	K0500505250	5 double round key 525	3	<input type="radio"/>	
5-17	K0500505350	5 double round key 535.5	2	<input type="radio"/>	
5-18	LM180B-0319ZD	Intermediate shaft bearing	1	<input type="radio"/>	
5-19	K5073208322	3.2 SPHC washer 832	4	<input type="radio"/>	
5-20	K0200080002	8S washer	2	<input type="radio"/>	
5-21	K0000080202	8 bolt 20	2	<input type="radio"/>	
5-22	K0000100402	10 bolt 40	4	<input type="radio"/>	
5-23	K0200100002	10S washer	12	<input type="radio"/>	
5-24	K0100100002	10 nut	13	<input type="radio"/>	
5-25	LM180B-0335Z2	Belt stopper	1		
5-26	LM180B-1035BR	Belt cover F	1		
5-27	LM180B-1036Z2	9.2 SGP collar 13.840	1		
5-28	K0003080502	8 bolt 55	1		
5-29	K5000080002	8 washer	16	<input type="radio"/>	
5-30	LM180A-0325A0	Intermediate shaft lower	1	<input type="radio"/>	
5-31	LM180A-0328A2	Intermediate shaft lower pulley	1	<input type="radio"/>	
5-32	LM180B-0330Z2	Intermediate shaft lower bearing	2	<input type="radio"/>	
5-33	K4200000160	Nameplate (with adhesive)	1		
5-34	K0812242110	Oil seal MHS224211	2	<input type="radio"/>	
5-35	K0000100352	10 bolt 35	4	<input type="radio"/>	

Catalog No.	Code No.	Part Name	Qty /Unit	Common Part	Retail Price
5-36	LM180A-1024A2	Scraper	2	<input type="radio"/>	
5-37	K000060402	6 bolt 40	4	<input type="radio"/>	
5-38	K0100060002	6 nut	1	<input type="radio"/>	
5-39	K2342031000	V belt OLB31	1	<input type="radio"/>	
5-40	K2342041000	V belt OLB41	2	<input type="radio"/>	
5-41	LM180B-0337ZD	Belt stopper	1	<input type="radio"/>	
5-42	K0100080002	8 nut	3	<input type="radio"/>	
5-43					
5-44					
5-45	LM180A-1020A2	10.2 STKM collar 1662	4	<input type="radio"/>	
5-46	K0003100802	10 bolt 80	3	<input type="radio"/>	
5-47	LM180A-0425A2	Power converting metal part	1	<input type="radio"/>	
5-48	K0400012002	Stop ring E12	1	<input type="radio"/>	
5-49	LM180B-0481Z2	Brake rod rear	1	<input type="radio"/>	
5-50	LM180B-0480Z2	Brake rod front	1	<input type="radio"/>	
5-51	K6030080172	8 flat head pin 17	2	<input type="radio"/>	
5-52	K0300025162	2.5 cotter pin 16	5	<input type="radio"/>	
5-53	K6040080222	8 round head pin 22	1	<input type="radio"/>	
5-54	K1190069000	Diff-lock wire 690	1	<input type="radio"/>	
5-55	K6030050152	5 flat head pin 15	1	<input type="radio"/>	
5-56	K0300020162	2 cotter pin 16	1	<input type="radio"/>	
5-57	LM180A-0430A2	Connecting plate	1	<input type="radio"/>	
5-58					
5-59					
5-60	K1440000020	C-type Grease nipple	2		
5-61	K5000100002	10 washer	4	<input type="radio"/>	
5-62	K0042080202	8 cross-recessed round head screw 20	1		
5-63	LM180B-0390Z2	Brake pedal stopper	1		
5-64	K1000000072	3.5 compression spring 17.560	1		
5-65	K0003100902	10 bolt 90	1		
5-66	LM180AS2401ZD	Pulley cover left	1		
5-67	LM180AS2402ZD	Pulley cover right	1		

LM180BS

6 Rear Mower Lifting Portion

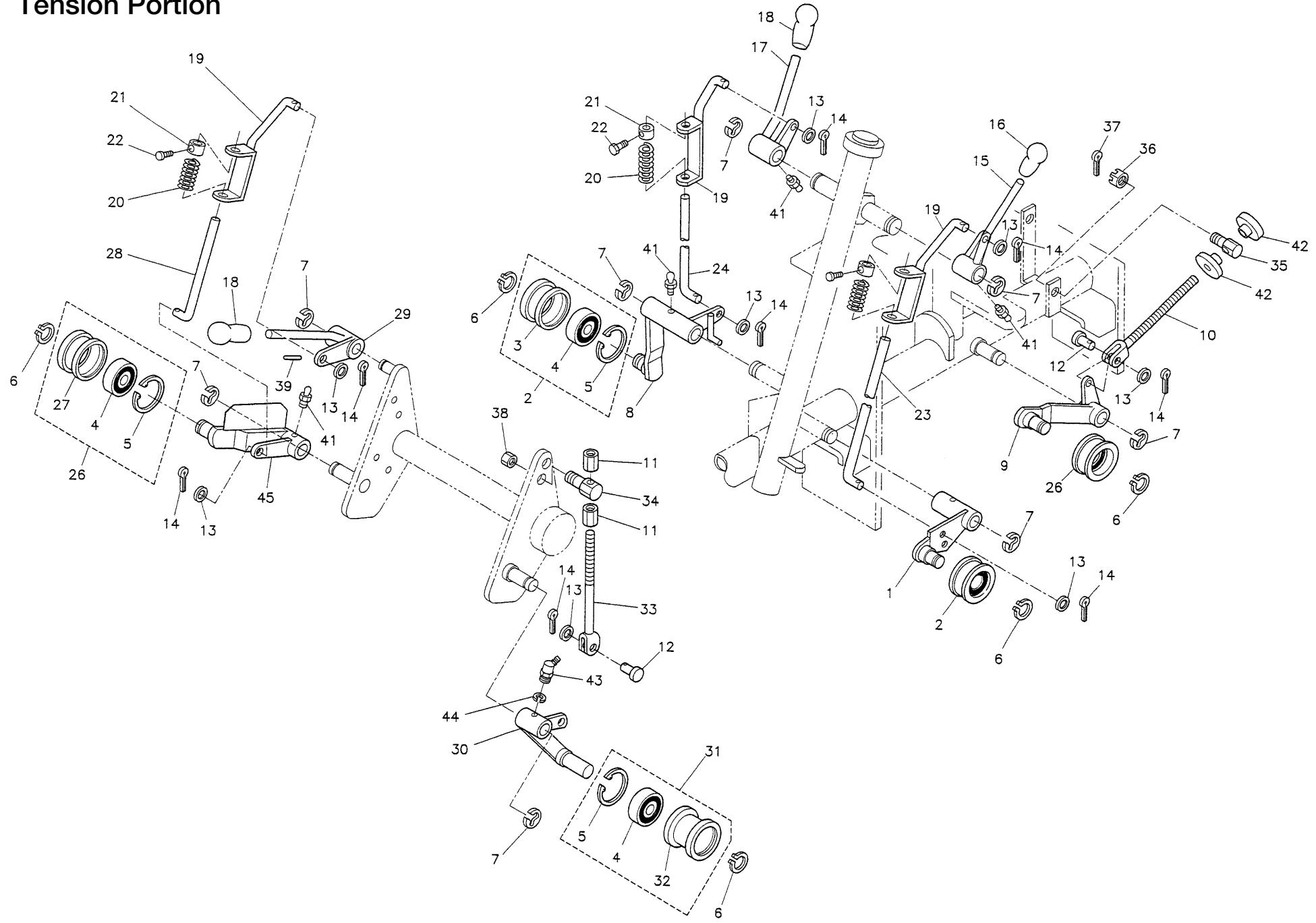


Catalog No.	Code No.	Part Name	Qty /Unit	Common Part	Retail Price
6- 1	LM 1 8 0 B - 0 4 0 4 Z D	Upper frame	1		
6- 2	K 0 0 0 3 1 0 1 3 0 2	10 bolt 130	1		
6- 3	K 5 0 0 0 1 0 0 0 0 2	10 washer	6	<input type="radio"/>	
6- 4	K 0 2 0 0 1 0 0 0 0 2	10S washer	10	<input type="radio"/>	
6- 5	K 0 1 0 0 1 0 0 0 0 2	10 nut	10	<input type="radio"/>	
6- 6	LM 1 8 0 B - 0 4 0 8 Z D	Lifting lever	1	<input type="radio"/>	
6- 7	K 1 3 0 0 0 0 0 0 9 0	Square lever grip	1	<input type="radio"/>	
6- 8	K 0 0 0 0 1 0 0 2 5 2	10 bolt 25	4	<input type="radio"/>	
6- 9	LM 1 8 0 B - 0 4 0 9 Z 2	Lifting connecting shaft left	1	<input type="radio"/>	
6-10	LM 1 8 0 B - 0 4 1 1 Z 2	Lifting connecting shaft right	1	<input type="radio"/>	
6-11	LM 1 8 0 A - 0 4 1 0 Z 2	Lifting shaft	1	<input type="radio"/>	
6-12	K 5 0 0 0 1 2 0 0 0 2	12 washer	2	<input type="radio"/>	
6-13	K 0 3 3 1 3 0 0 0 0 2	13 snap pin	3	<input type="radio"/>	
6-14	K 0 1 0 0 1 2 0 0 0 2	12 nut	10	<input type="radio"/>	
6-15	LM 1 8 0 B - 0 4 6 1 Z D	Rear mower lifting arm	1	<input type="radio"/>	
6-16	K 5 0 5 1 0 2 5 3 5 0	1 C5191P washer 2535	1	<input type="radio"/>	
6-17	LM 1 8 0 A - 0 4 6 3 Z 2	Stopper collar	1	<input type="radio"/>	
6-18	K 6 0 4 0 0 8 0 4 0 2	8 round head pin 40	1	<input type="radio"/>	
6-19	K 0 3 3 0 8 0 0 0 0 2	8 snap pin	1	<input type="radio"/>	
6-20	LM 1 8 0 A - 0 4 7 6 Z 2	Supporting shaft pin	2	<input type="radio"/>	
6-21	K 5 0 7 4 5 1 6 4 0 2	4.5 SPHC washer 1640	2	<input type="radio"/>	
6-22					
6-23	K 1 7 0 1 0 0 0 0 4 0	Saddle bracket rubber GTM	2	<input type="radio"/>	
6-24					
6-25					
6-26					
6-27	K 1 7 0 1 0 0 0 0 2 2	Saddle shaft GTM	1	<input type="radio"/>	
6-28	K 0 3 3 1 0 0 0 0 0 2	10 snap pin	2	<input type="radio"/>	
6-29	K 0 0 0 0 1 0 0 3 5 2	10 bolt 35	2	<input type="radio"/>	
6-30	K 0 0 0 0 1 0 0 3 0 2	10 bolt 30	2	<input type="radio"/>	

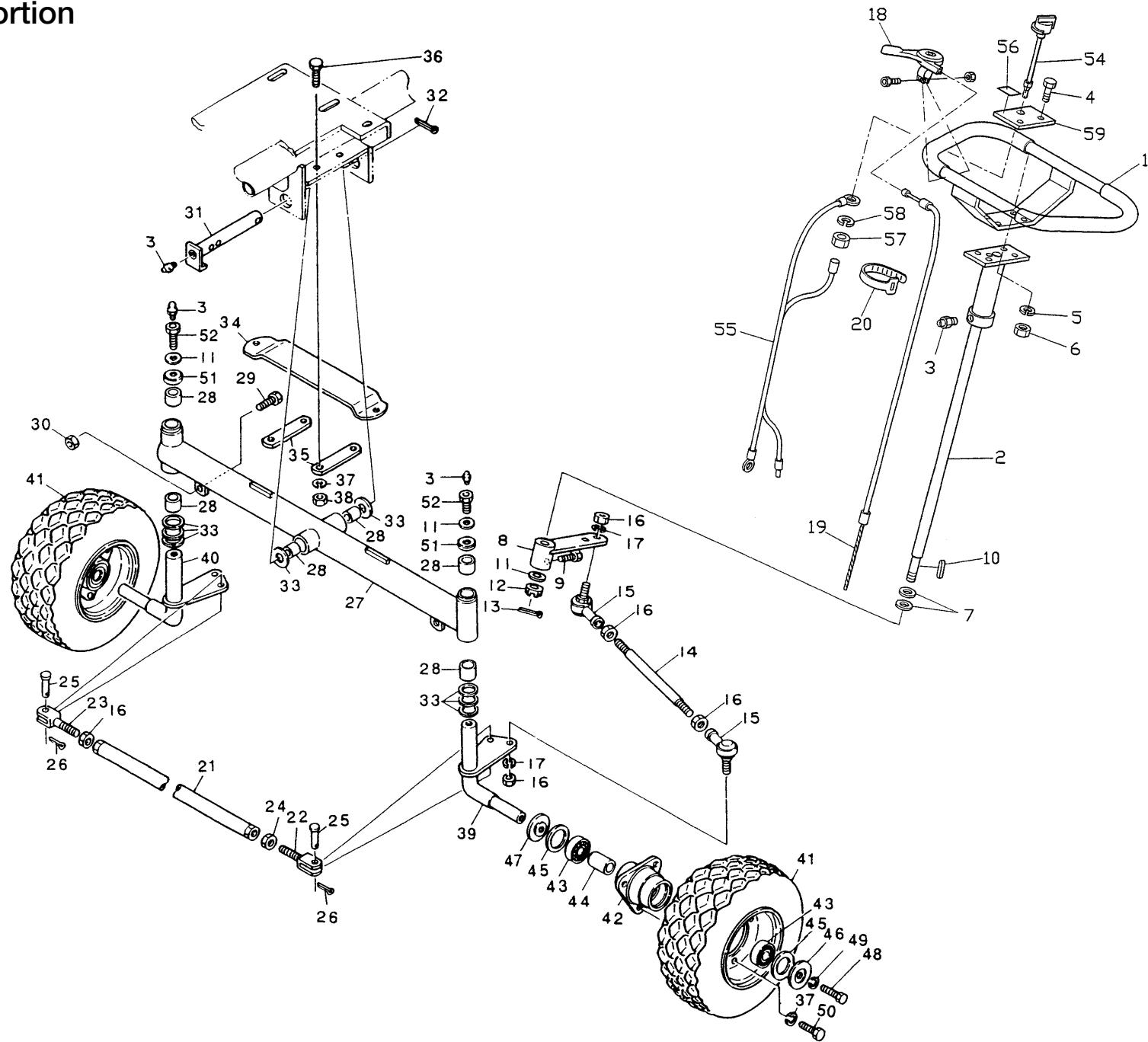
Catalog No.	Code No.	Part Name	Qty /Unit	Common Part	Retail Price
6-31	K 0 0 0 3 0 8 0 5 0 2	8 bolt 50	1		
6-32	LM 1 8 0 B - 1 0 3 7 Z R	Brake cover	1		
6-33	LM 1 8 0 B - 1 0 3 8 Z 2	9.2 SGP collar 13.8 33	1		
6-34	K 5 0 0 0 0 8 0 0 0 2	8 washer	3	<input type="radio"/>	
6-35	K 0 0 0 0 0 8 0 1 5 2	8 bolt 15	2	<input type="radio"/>	
6-36	K 0 1 0 0 0 8 0 0 0 2	8 nut	3	<input type="radio"/>	
6-37	K 0 2 0 0 0 8 0 0 0 2	8S washer	2	<input type="radio"/>	
6-38	K 0 2 0 0 1 2 0 0 0 2	12S washer	2	<input type="radio"/>	
6-39	LM 1 8 0 B S 0 4 8 2 Z D	Seat mounting plate	1		
6-40	LM 1 8 0 B S 0 4 8 3 A D	Seat mounting reinforcement left	1		
6-41	LM 1 8 0 B S 0 4 8 4 A D	Seat mounting reinforcement right	1		
6-42	K 0 0 4 1 0 8 0 1 5 2	8 cross-recessed countersunk head screw 15	2		
6-43	K 0 0 0 6 0 8 0 2 0 2	8 bolt 20S	2		
6-44	K 1 7 0 0 0 0 0 1 0 0	K2 seat	1		
6-45					
6-46	LM 1 8 0 B S 0 4 7 0 A D	Saddle mounting bracket	1		
6-47	K 1 0 0 0 0 0 0 8 1 8	5 compression spring 3260	2		
6-48	K 0 0 0 7 0 8 0 2 0 2	8 bolt 20 SW	2		
6-49	K 0 0 4 1 0 6 0 1 2 2	6 cross-recessed countersunk head screw 12	2		
6-50	K 3 6 7 1 0 0 0 0 3 0	Safety switch G1780	1		
6-51	LM 1 8 0 B T 1 6 1 0 Z 0	Safety switch wiring	1		

LM180BS

7 Tension Portion



8 Handle Portion

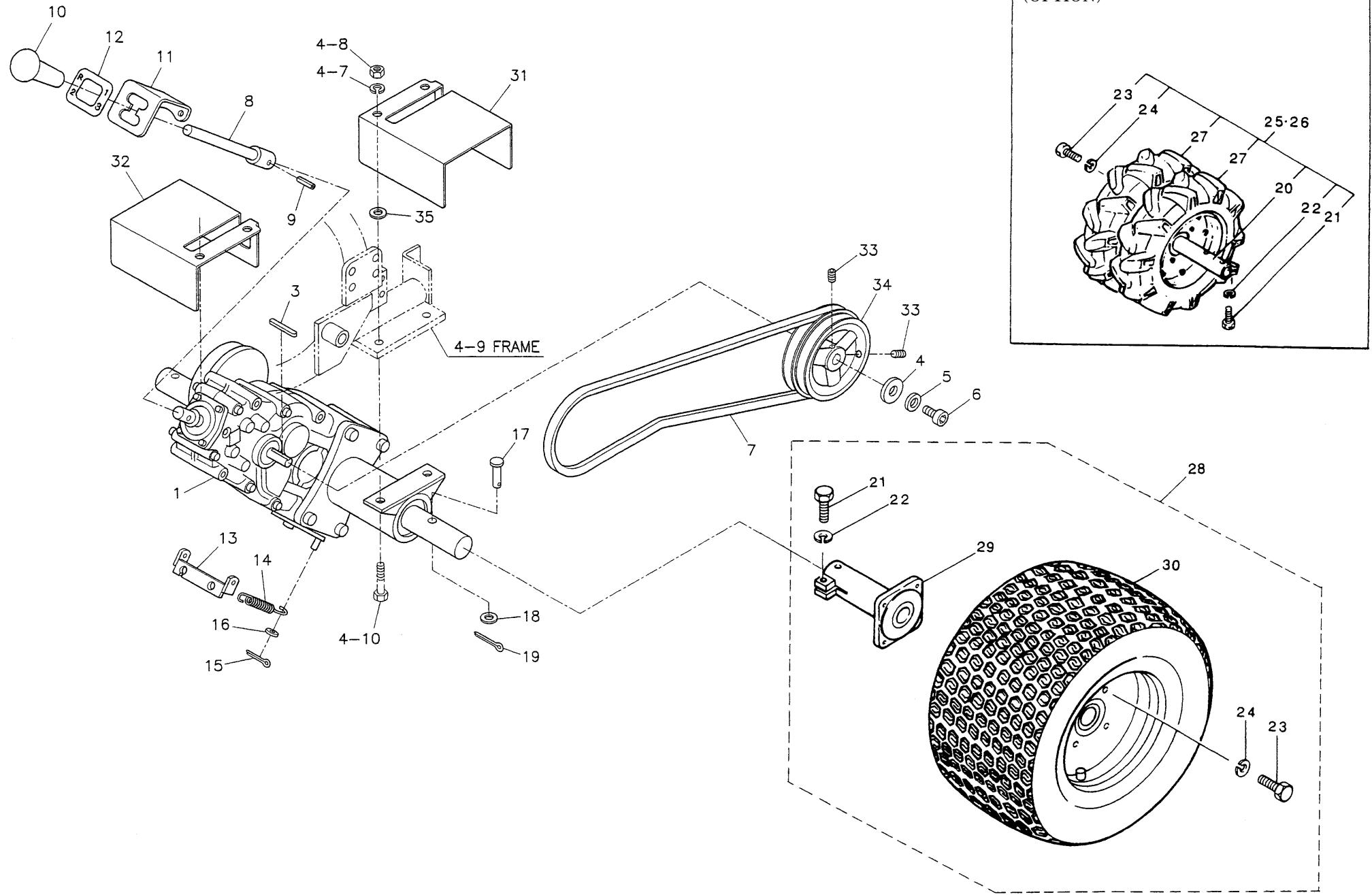


Catalog No.	Code No.	Part Name	Qty /Unit	Common Part	Retail Price
8- 1	LM180BS0701ZD	Handle	1	<input type="radio"/>	
8- 2	LM180A-0702CD	Handle shaft	1	<input type="radio"/>	
8- 3	K1440000010	Grease nipple	4	<input type="radio"/>	
8- 4	K0010060202	6 heat-treated bolt 20	4	<input type="radio"/>	
8- 5	K0200060002	6S washer	4	<input type="radio"/>	
8- 6	K0100060002	6 nut	4	<input type="radio"/>	
8- 7	K5051017300	1C5191P washer 1730	2	<input type="radio"/>	
8- 8	LM180A-0706A2	Arm	1	<input type="radio"/>	
8- 9	K0000080152	8 bolt 15	1	<input type="radio"/>	
8-10	K0500404310	4 double round key 431.5	1	<input type="radio"/>	
8-11	K5000120002	12 washer	1	<input type="radio"/>	
8-12	K0124120002	12 slotted nut low	1	<input type="radio"/>	
8-13	K0300032252	3.2 cotter pin 25	1	<input type="radio"/>	
8-14	LM180A-0713Z2	Relay rod	1	<input type="radio"/>	
8-15	K1604120000	L-ball LHS12	2	<input type="radio"/>	
8-16	K0100120002	12 nut	5	<input type="radio"/>	
8-17	K0200120002	12S washer	2	<input type="radio"/>	
8-18	K1203521000	Throttle lever E352100	1	<input type="radio"/>	
8-19	LM180AT1608Z0	Throttle wire	1	<input type="radio"/>	
8-20	K4242000022	Wire band 115	1	<input type="radio"/>	
8-21	LM180A-0712Z2	Tie rod	1	<input type="radio"/>	
8-22	LM180A-0715Z2	Adjusting metal left	1	<input type="radio"/>	
8-23	LM180A-0716Z2	Adjusting metal right	1	<input type="radio"/>	
8-24	K0180120002	12 left-hand thread nut	1	<input type="radio"/>	
8-25	K6031100252	10 heat-treated flat head pin 25	2	<input type="radio"/>	
8-26	K0300032202	3.2 cotter pin 20	2	<input type="radio"/>	
8-27	LM180A-0601ZD	Front axle	1	<input type="radio"/>	
8-28	K6000000050	22.3 bush 2620	6	<input type="radio"/>	
8-29	K0000100402	10 bolt 40	2	<input type="radio"/>	
8-30	K0100100002	10 nut	2	<input type="radio"/>	

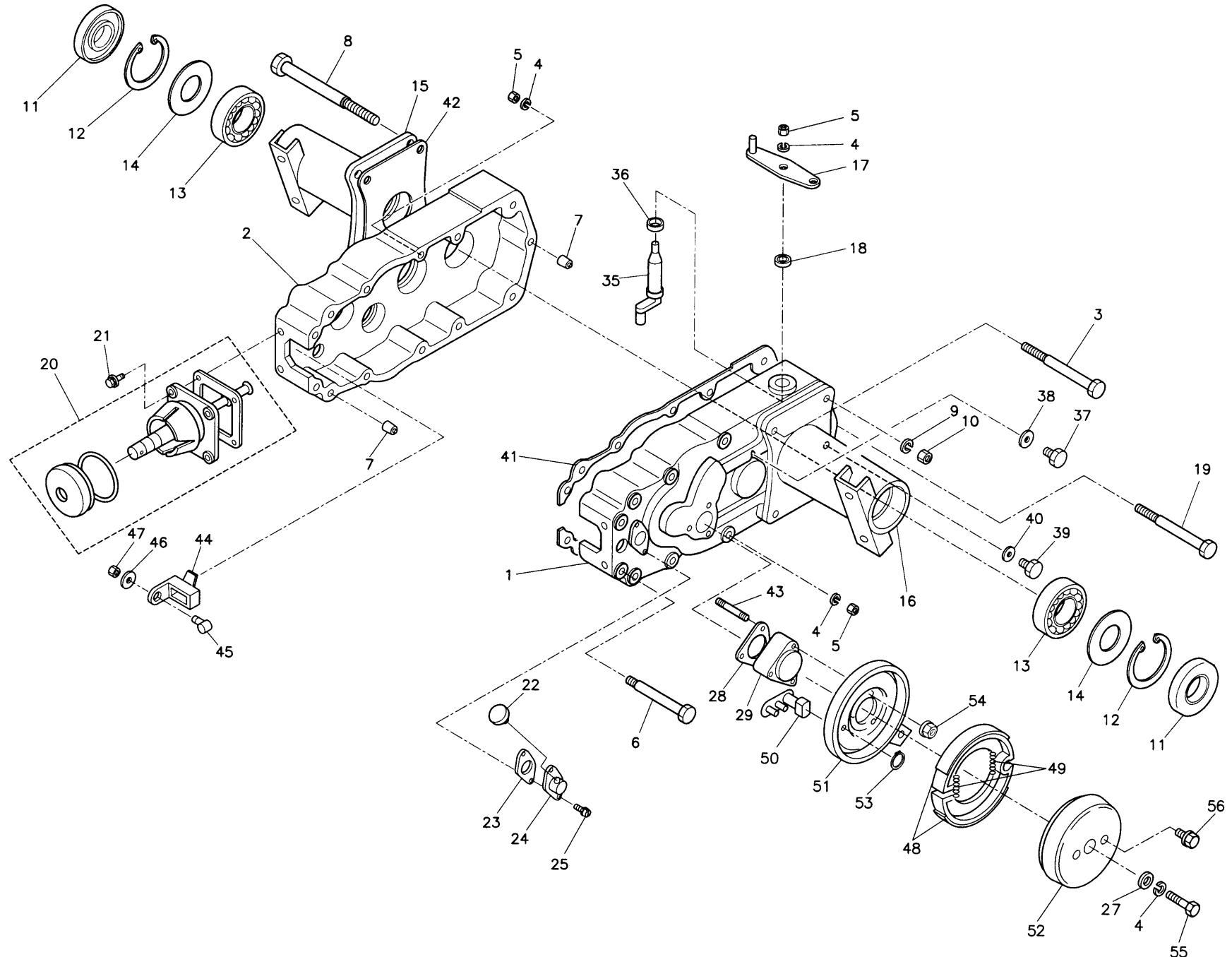
Catalog No.	Code No.	Part Name	Qty /Unit	Common Part	Retail Price
8-31	LM180A-0603Z2	Front pin	1	<input type="radio"/>	
8-32	K0300040322	4 cotter pin 32	1	<input type="radio"/>	
8-33	K5051022350	1C5191P washer 2235	8	<input type="radio"/>	
8-34	LM180A-0620ZD	Plate spring	1	<input type="radio"/>	
8-35	LM180A-0621Z2	Plate spring mounting plate	2	<input type="radio"/>	
8-36	K0000080302	8 bolt 30	4	<input type="radio"/>	
8-37	K0200080002	8S washer	10	<input type="radio"/>	
8-38	K0100080002	8 nut	4	<input type="radio"/>	
8-39	LM180BS0606Z8	Front wheel axle left	1	<input type="radio"/>	
8-40	LM180BS0607Z8	Front wheel axle right	1	<input type="radio"/>	
8-41	K2060000010	Tire 4.00-5 Ass'y	2	<input type="radio"/>	
8-42	K2160000072	Front wheel mounting seat	2	<input type="radio"/>	
8-43	K0606062040	Bearing 6204RS	4	<input type="radio"/>	
8-44	K6212000180	20.2STKM collar 25.4 40	2	<input type="radio"/>	
8-45	K4010132500	1 oil sheet 3250	4	<input type="radio"/>	
8-46	K5090000222	Mounting seat outer cover	2	<input type="radio"/>	
8-47	K5090000232	Mounting seat inner cover	2	<input type="radio"/>	
8-48	K0000100252	10 bolt 25	2	<input type="radio"/>	
8-49	K0200100002	10S washer	2	<input type="radio"/>	
8-50	K0000080202	8 bolt 20	6	<input type="radio"/>	
8-51	LM180A-0616Z2	Dustproof cover	2	<input type="radio"/>	
8-52	K0071000082	12 bolt with nipple hole 15	2	<input type="radio"/>	
8-53					
8-54	K3662000050	Engine switch	1		
8-55	K3620000450	Engine switch wiring 820	1		
8-56	K4203000670	Engine switch mark	1		
8-57	K0102080002	8 nut 3	1		
8-58	K0210080002	8 Disc spring L	1		
8-59	LM180B-0721ZD	Stop switch mounting plate	1		

LM180BS

9 Mission Portion



10 Mission Case Portion

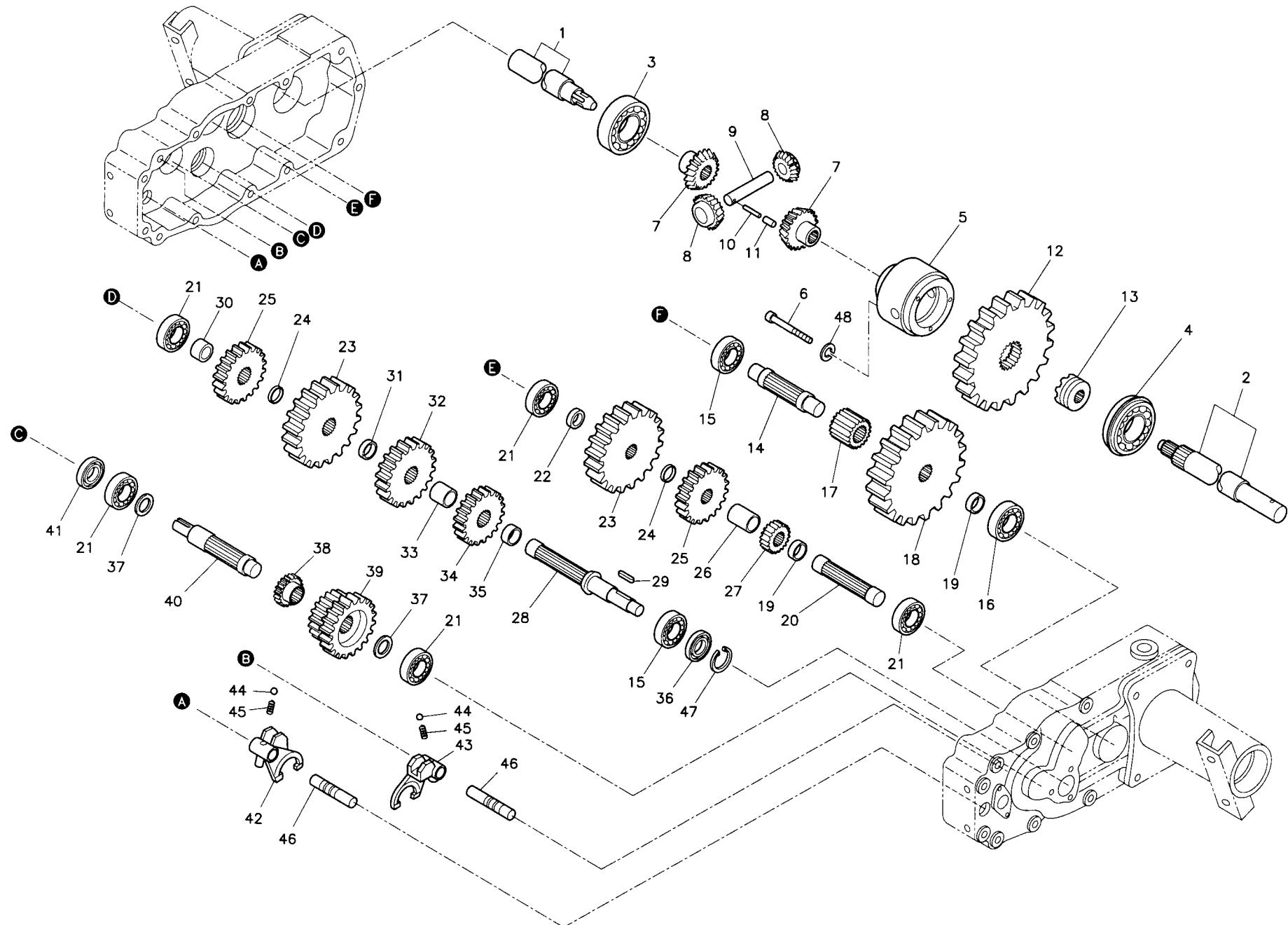


Catalog No.	Code No.	Part Name	Qty /Unit	Common Part	Retail Price
10-1	P 2 1 1 1 - 8 0 3 2 2 0	Case L	1		
10-2	P 2 1 1 1 - 8 0 3 3 1 8	Case R	1		
10-3	P 0 1 0 7 - 0 8 1 2 0 0	8 bolt 120	1		
10-4	P 0 4 1 0 - 0 8 0 0 0 0	8 washer S	11		
10-5	P 0 3 0 4 - 0 8 2 0 0 0	8 nut	8		
10-6	P 0 1 0 7 - 0 8 0 9 0 0	8 bolt 90	4		
10-7	P 2 1 5 5 - 4 0 1 7 0 9	Knock pipe	2		
10-8	P 2 1 0 1 - 4 0 4 9 0 7	Bolt 10-160	4		
10-9	P 0 4 1 0 - 1 0 0 0 0 0	10 washer S	4		
10-10	P 0 3 0 4 - 1 0 2 0 0 0	10 nut	4		
10-11	P 2 1 0 4 - 4 1 9 0 0 1	Oil seal 357213	2		
10-12	P 2 1 0 1 - 4 1 0 2 0 9	72 retaining ring R	2		
10-13	P 0 5 0 1 - 6 2 0 7 0 0	Ball BRG 6207	2		
10-14	P 2 1 0 2 - 4 2 6 2 0 3	Washer 35720.8	2		
10-15	P 2 3 1 0 - 6 0 5 1 0 8	Axle case R COMP	1		
10-16	P 2 3 1 0 - 6 0 5 0 0 9	Axle case L COMP	1		
10-17	P 2 3 4 0 - 4 0 8 7 1 3	Diff-lock lever COMP	1		
10-18	P 2 1 0 4 - 4 0 0 4 0 1	Oil seal 14248	1		
10-19	P 0 1 0 7 - 0 8 1 1 5 0	8 bolt 115	2		
10-20	P 2 4 4 0 - 0 0 5 7 0 0	Change Ass'y	1		
10-21	P 0 0 2 7 - 0 8 0 2 0 1	8 bolt SW20	4		
10-22	P 2 1 0 5 - 4 0 4 0 0 2	Plug G20	1		
10-23	P 2 1 5 3 - 4 0 4 8 0 1	PK oil filling port	1		
10-24	P 2 1 5 7 - 4 0 1 9 0 5	Oil filling port	1		
10-25	P 0 0 3 0 - 0 6 0 1 6 0	6 round head screw S16	2		
10-26					
10-27	P 2 1 0 2 - 4 2 7 3 0 9	Washer 8283.2	1		
10-28	P 2 1 5 3 - 4 0 7 0 0 0	PK brake	1		
10-29	P 2 1 1 4 - 4 0 1 0 0 9	Holder BK	1		
10-30					

Catalog No.	Code No.	Part Name	Qty /Unit	Common Part	Retail Price
10-31					
10-32					
10-33					
10-34					
10-35	P 2 1 4 4 - 4 0 5 3 0 5	Shifter (diff)	1		
10-36	P 2 1 0 3 - 4 0 5 4 0 7	Collar 15206.5	1		
10-37	P 2 1 0 5 - 4 0 0 1 0 3	Plug 8	1		
10-38	P 2 1 0 5 - 4 0 0 2 0 2	Gasket 8	1		
10-39	P 2 1 0 5 - 4 0 0 8 0 6	Plug 14	1		
10-40	P 2 1 0 5 - 4 0 0 9 0 5	Gasket 14	1		
10-41	P 2 1 5 3 - 7 0 0 5 0 9	PK case	1		
10-42	P 2 1 5 3 - 4 0 7 3 0 7	PK axle case	2		
10-43	P 0 1 7 6 - 0 8 0 5 0 3	8 stud 50	3		
10-44	P 2 3 4 0 - 4 0 4 0 0 1	Stopper COMP	1		
10-45	P 2 1 5 4 - 4 0 2 4 0 0	Stopper pin	1		
10-46	P 2 1 0 2 - 4 0 8 4 0 9	Washer 8221	1		
10-47	P 0 3 0 4 - 0 8 3 0 0 0	8 nut	1		
10-48	P 2 1 5 0 - 0 0 1 3 0 4	Brake shoe	2		
10-49	P 2 1 5 0 - 0 0 1 5 0 2	Spring	2		
10-50	P 2 1 5 0 - 0 0 1 2 0 5	BK lever COMP	1		
10-51	P 2 1 5 0 - 0 0 1 1 0 6	BK cover COMP	1		
10-52	P 2 1 5 0 - 0 0 1 8 0 9	Drum BK	1		
10-53	P 0 6 0 0 - 0 1 8 0 0 0	18 retaining ring S	1		
10-54	P 2 1 0 1 - 4 3 2 5 0 6	Flange nut 8	3		
10-55	P 0 1 5 7 - 0 8 0 2 5 0	8 flange bolt	1		
10-56	P 0 1 5 7 - 0 8 0 1 4 0	8 flange bolt	2		

LM180B

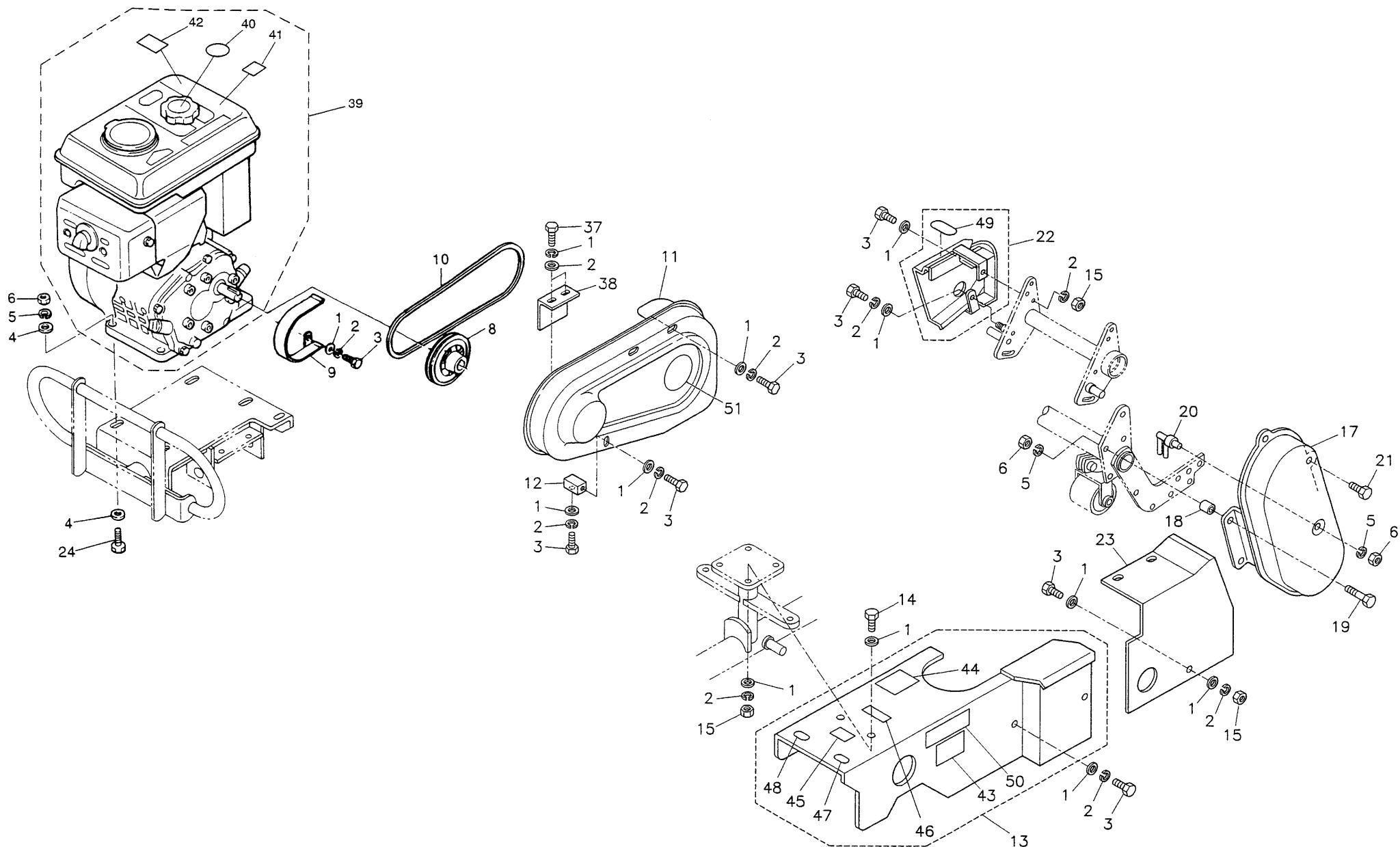
11 Gear Portion



Catalog No.	Code No.	Part Name	Qty /Unit	Common Part	Retail Price
11- 1	P 2 1 3 3 - 6 7 2 0 0 4	G shaft R	1		
11- 2	P 2 1 3 3 - 6 7 1 9 0 8	G shaft L	1		
11- 3	P 0 5 0 1 - 6 2 0 6 0 0	Ball BRG 6206	1		
11- 4	P 0 5 0 1 - 6 2 0 6 6 0	Ball BRG 6206NR	1		
11- 5	P 2 1 3 6 - 6 0 0 3 0 3	Diff case	1		
11- 6	P 2 1 0 1 - 4 1 4 2 1 8	Bolt 8-57	1		
11- 7	P 2 1 2 0 - 4 0 1 9 4 5	Diff side gear	2		
11- 8	P 2 1 2 0 - 4 0 1 8 4 6	Bevel pinion	2		
11- 9	P 2 1 3 1 - 4 0 5 0 0 4	Diff shaft	1		
11-10	P 0 4 6 0 - 0 5 0 2 8 0	5 pin S28	1		
11-11	P 0 4 5 2 - 0 8 0 1 6 0	8 pin 16	1		
11-12	P 2 1 2 9 - 4 0 5 7 2 4	Gear L48	1		
11-13	P 2 1 3 5 - 4 0 3 2 0 4	Clutch	1		
11-14	P 2 1 3 2 - 4 0 4 5 0 1	Shaft D	1		
11-15	P 0 5 0 1 - 6 2 0 4 0 0	Ball BRG 6204	2		
11-16	P 0 5 0 1 - 6 3 0 4 0 0	Ball BRG 6304	1		
11-17	P 2 1 2 2 - 4 0 4 3 0 6	Gear K15	1		
11-18	P 2 1 2 2 - 4 0 4 2 0 7	Gear J54	1		
11-19	P 2 1 0 3 - 4 1 2 1 0 2	Collar 20259	2		
11-20	P 2 1 3 2 - 4 0 4 4 0 2	Shaft C	1		
11-21	P 0 5 0 1 - 6 3 0 3 0 0	Ball BRG 6303	5		
11-22	P 2 1 0 3 - 4 1 1 9 0 7	Collar 17257.5	1		
11-23	P 2 1 2 2 - 4 0 4 0 0 9	Gear D43	2		
11-24	P 0 7 0 1 - 2 0 1 0 0 0	Washer	2		
11-25	P 2 1 2 2 - 4 0 3 5 0 7	Gear S29	2		
11-26	P 2 1 0 3 - 4 1 2 3 0 0	Collar 202534	1		
11-27	P 2 1 2 2 - 4 0 3 4 0 8	Gear 115	1		
11-28	P 2 1 3 3 - 4 2 6 5 0 0	Shaft B	1		
11-29	P 0 4 8 0 - 0 5 0 2 5 0	5 key 525	1		
11-30	P 2 1 0 3 - 4 1 1 8 0 8	Collar 172515.5	1		

Catalog No.	Code No.	Part Name	Qty /Unit	Common Part	Retail Price
11-31	P 2 1 0 3 - 4 1 2 2 0 1	Collar 20257.5	1		
11-32	P 2 1 2 2 - 4 0 4 1 0 8	Gear E33	1		
11-33	P 2 1 0 3 - 4 1 1 4 0 2	Collar 202524	1		
11-34	P 2 1 2 2 - 4 0 3 3 0 9	Gear F28	1		
11-35	P 2 1 0 3 - 4 1 2 0 0 3	Collar 202511.5	1		
11-36	P 2 1 0 4 - 4 0 0 5 0 0	Oil seal 20407	1		
11-37	P 0 7 0 1 - 1 7 2 0 0 0	Washer	2		
11-38	P 2 1 2 2 - 4 0 3 8 1 5	Gear A16	1		
11-39	P 2 1 2 2 - 4 0 3 9 0 3	Gear BC25-31	1		
11-40	P 2 1 3 3 - 4 0 3 5 0 3	Shaft A	1		
11-41	P 2 1 0 4 - 4 0 6 8 0 9	Oil seal 17407	1		
11-42	P 2 1 4 4 - 4 0 4 0 0 1	Shifter fork A	1		
11-43	P 2 1 4 4 - 4 0 8 1 0 8	Shifter fork BC	1		
11-44	P 0 6 5 0 - 0 5 0 1 6 0	5/16 steel ball	2		
11-45	P 2 1 5 2 - 4 0 0 2 0 0	Spring (fork)	2		
11-46	P 2 1 4 1 - 4 0 0 5 0 1	Shifter shaft A	2		
11-47	P 2 1 5 2 - 4 0 0 3 0 9	Retaining ring 20	1		
11-48	P 0 4 1 0 - 0 8 0 0 0 0	8 washer S	4		

12 Engine Portion

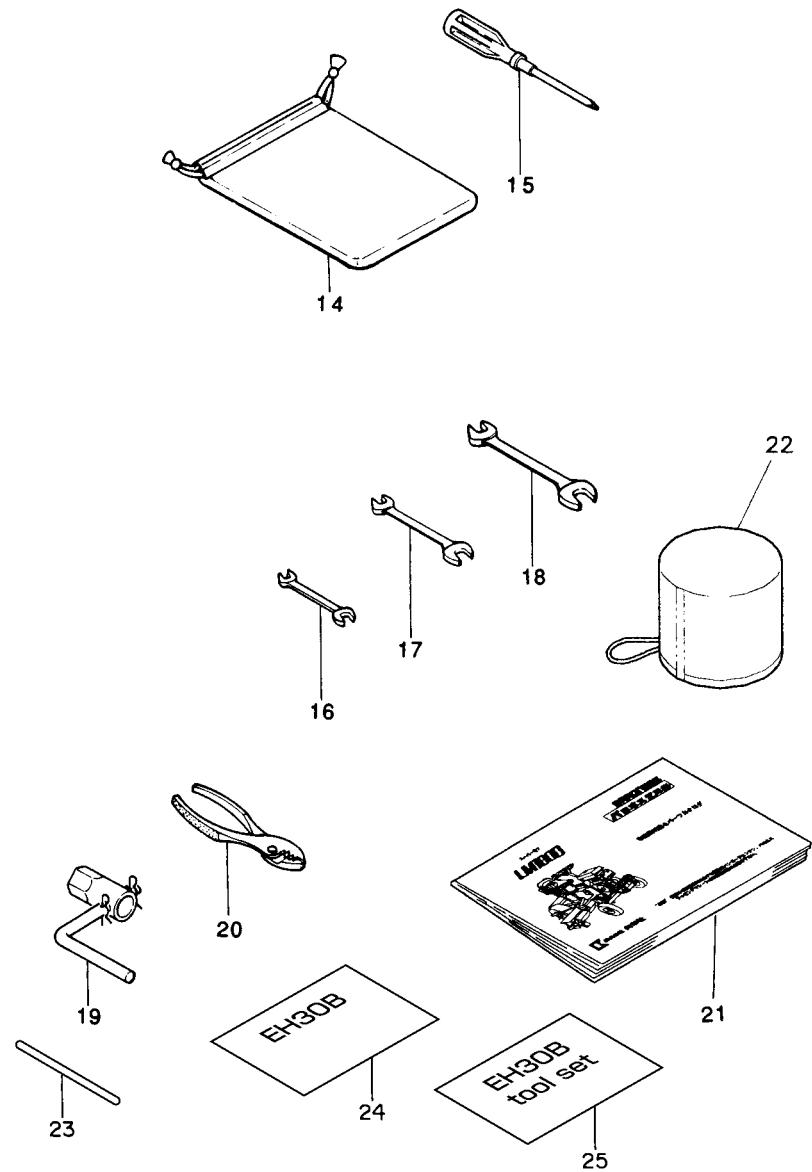
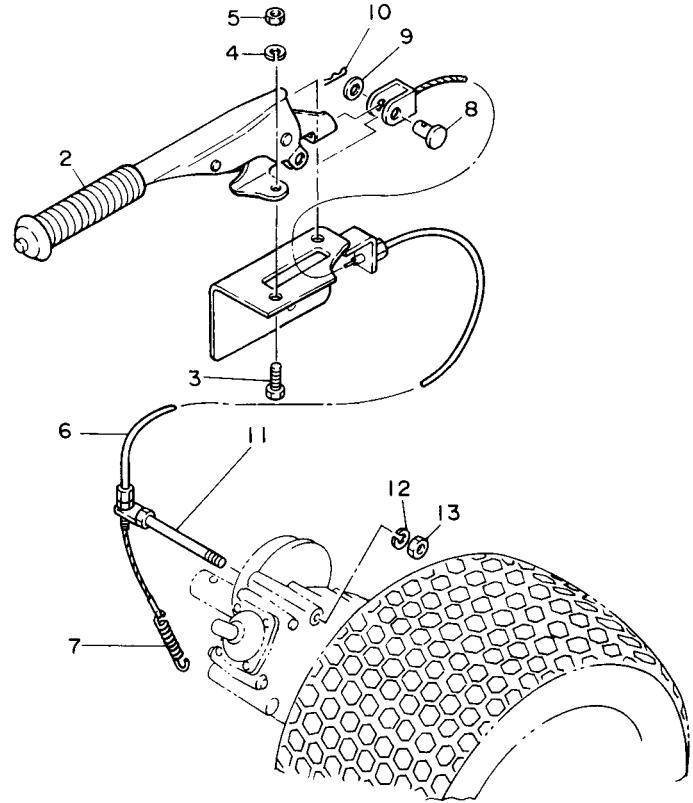


Catalog No.	Code No.	Part Name	Qty /Unit	Common Part	Retail Price
12- 1	K 5 0 0 0 0 8 0 0 0 2	8 washer	17	<input type="radio"/>	
12- 2	K 0 2 0 0 0 8 0 0 0 2	8S washer	14	<input type="radio"/>	
12- 3	K 0 0 0 0 0 8 0 2 0 2	8 bolt 20	5	<input type="radio"/>	
12- 4	K 5 0 0 0 1 0 0 0 0 2	10 washer	8	<input type="radio"/>	
12- 5	K 0 2 0 0 1 0 0 0 0 2	10S washer	11	<input type="radio"/>	
12- 6	K 0 1 0 0 1 0 0 0 0 2	10 nut	7	<input type="radio"/>	
12- 7					
12- 8	LM180A-1602Z2	Engine pulley	1	<input type="radio"/>	
12- 9	LM180A-1607Z2	Belt stopper	1	<input type="radio"/>	
12-10	K 2 3 4 3 0 4 9 0 0 0	V-belt GLB49	1	<input type="radio"/>	
12-11	LM180B-1017AR	Belt cover A	1	<input type="radio"/>	
12-12	LM180A-1002B2	Cover mounting metal	1	<input type="radio"/>	
12-13	LM180BS1040B0	Belt cover B COMP	1		
12-14	K 0 0 0 0 0 8 0 2 5 2	8 bolt 25	3	<input type="radio"/>	
12-15	K 0 1 0 0 0 8 0 0 0 2	8 nut	7	<input type="radio"/>	
12-16					
12-17	LM180B-1026ZR	Belt cover C	1	<input type="radio"/>	
12-18	K 6 2 1 1 0 0 0 0 5 2	12.7 SGP collar 17.3163	2	<input type="radio"/>	
12-19	K 0 0 0 0 1 0 0 4 0 2	10 bolt 40	2	<input type="radio"/>	
12-20	LM180A-1025Z2	Scraper	1	<input type="radio"/>	
12-21	K 0 0 0 0 0 8 0 1 5 2	8 bolt 15	1	<input type="radio"/>	
12-22	LM180BS1042A0	Belt cover D COMP	1	<input type="radio"/>	
12-23	LM180B-1019ZR	Belt cover E	1	<input type="radio"/>	
12-24	K 0 0 0 0 1 0 0 4 5 2	10 Bolt 45	4	<input type="radio"/>	
12-25					
12-26					
12-27					
12-28					
12-29					
12-30					

Catalog No.	Code No.	Part Name	Qty /Unit	Common Part	Retail Price
12-31					
12-32					
12-33					
12-34					
12-35					
12-36					
12-37	K 0 0 0 0 0 8 0 1 2 2	8 bolt 12	2		
12-38	LM180B-1042ZR	Supplementary cover	1		
12-39	LM180BT1609Z0	Robin EH300B67001 COMP	1		
12-40	K 4 2 0 5 0 0 1 3 0 0	ENGINE OIL WARNING Mark	1		
12-41	K 4 2 0 5 0 0 1 3 3 0	NOISE WARNING Mark	1		
12-42	K 4 2 0 9 0 0 0 7 2 0	LWA 105 Mark	1		
12-43	K 4 2 0 5 0 0 1 2 9 0	HEALTH&SAFETY WARNING Mark	1		
12-44	K 4 2 0 5 0 0 1 3 1 0	SAFETY INSTRUCTIONS Mark	1		
12-45	K 4 2 0 9 0 0 0 6 4 0	CE Mark	1		
12-46	LM180A-2221Z0	MADE IN JAPAN Mark	1		
12-47	LM180A-2224Z0	DIFFER LOCK PEDAL Mark	1		
12-48	LM180A-2225Z0	BRAKE PEDAL Mark	1		
12-49	LM180A-2226Z0	CUTTER REVOLUTION Mark	1		
12-50	LM180B-1013Z0	LM180B Mark	1		
12-51	K 4 2 0 1 0 0 0 2 0 0	BARONESS ROUND SHAPE MARK	1		

LM180BS

13 Side Brake Installation and Accessory Tools





CE Declaration of Conformity

We, Kyoeisha Co., Ltd. of 1-26 Miyuki-cho, Toyokawa, Aichi-pref. 442-8530 Japan declare that :

Equipment Ride-on lawnmower
Model name / number BARONESS / LM180BT

in accordance with the following Directives :

98/37/EC The Machinery Directive and its amending directives

has been designed and manufactured using the following specifications :

EN 292-1 Safety of machinery – Basic concepts, general principles for design –
 Part 1 : Basic terminology, methodology

EN 292-2 Safety of machinery – Basic concepts, general principles for design –
 Part 2 : Technical principles and specifications

EN 836 Garden equipment – Powered lawnmowers – Safety

Signed : Katsuaki Makino

Name : Katsuaki Makino

Position : Development Dept. Manager

Date : January 23, 2006

Manufacturers Declaration of Conformity for

Product Identification

Product : Ride-on lawnmower
Brand : BARONESS (Saxon)
Type : LM180BT
Starting Serial No. : 13118

Measured Sound Power Level : LWA 103.63 dB
Guaranteed Sound Power Level : LWA 105 dB

Manufacturer
Name : Kyoeisha Co., Ltd.
Address : 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Technical Documentation
Keeper's Name : Kyoeisha Co., Ltd.
Keeper's Address : 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Conformity Assessment Procedure : Internal Control of Production with Assessment of Technical Documentation and Periodical Checking (Annex VI) of 2000/14/EC

Involved Notified Body

Name : SNC-H
Address : 11, Route de Sandweiler
5230 Sandweiler
Luxembourg

Technical Construction File

Date : January 23, 2006
Technical Construction File No. : No. TC180BT-02
Test Laboratory : TUV Rheinland Luxembourg GmbH
Centre Commercial "Le2000" Z.I. Route de Bettembourg
L-3378 LIVANGE Luxembourg

Means of conformity

The product is in conformity with the Directive relating to the noise emission in the environment by equipment for use outdoors 2000/14/EC, in accordance with Article 12 of the Directive.

References of other Community Directives applied

98/37/EC

Signature :



Katsuaki Makino
Manager
Development Dept.
Kyoeisha Co., Ltd.

Date : January 23, 2006



Head Office Aichi-Pref. 442-8530 Japan.
1-26, Miyuki-cho, Toyokawa,

Tel : (0533)84-1390
Fax : (0533)89-3623
Tut Care Machinery