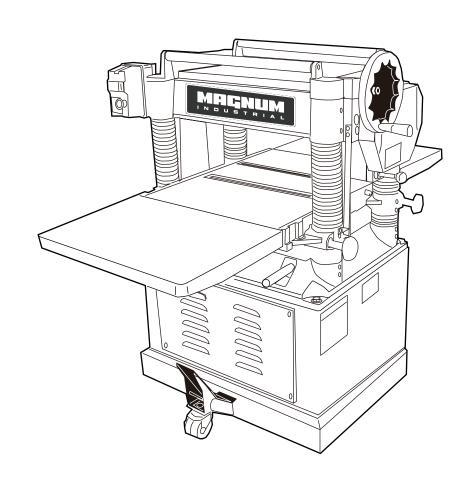


MODEL NO.: MI-31450 / MI-31452 /

MI-31453



OPERATING MANUAL

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MI-31450 / MI-31453

MOTOR 220V 60 CYCLE 5HP

Cutting Capacity:

Length of Unbutted Stock Minimum 6.74" (171m/rn Width of Stock Maximum 20" (508rn/m)

Thickness of Stock Maximum 8" (204m,/m)

Planing depth Width of workpiece below 8.3" (210m/m)

(Max) 0.23" (6mirn)

Width of workpiece 8.3"— 20" (210m/m — 508m/m)

(Max) 0.12" (3m/m1

Feed Rates 16/20 FPM (4.96/6.33 mirnin)

Cutterhead:

Number of Knives 58

Diameter 3 15"(80m/m) Speed 5,000 RPM

Cuts Per, Minute 20,000

Feed Rolls:

Spiral in-feed 2" Dia (50.08m/m)

Table Bed Rolls (Two) Adjustable

Table 25.7"x20.01" (653x510m/m)

Over all Dimensions:

 Length
 26" (660m/m)

 Width
 36.6" (930rnim)

 Height
 41.4" (1051m/m)

 Net Weight
 771 Lbs (350kg)

 Gross Weight
 926 Lbs (420kg)

Packing Size (LxWx H) 39.4"x28.8"x44.2" (1000m/mx731 m/mx1 123m/m)

GENERAL SAFETY INSTRUCTIONS

1. KEEP GUARDS IN PLACE.

Safety guards must be kept in palce and in working order.

2. REMOVE ADJUSTING KEYS AND WRENCHES.

Before turning on machine, check to see that the keys, chucks and adjusting wrenches are removed from the tool.

3. REDUCE THE RISK OF UNINTENTIONAL STARTING.

Make sure switch is in the OFF position before plugging in the tool.

4. DO NOT FORCE TOOLS.

They will do a job better and safer at the rate for which they were designed.

5. USE RIGHT TOOL.

Do not force a tool or an attachment to do a job for which it was not designed.

6. SECURE WORK.

Use clamps or a vise to hold work when practical. Its safer than using your hand and it frees both hands to operate tools.

7. MAINTAIN TOOLS WITH CARE.

Keep tools sharp and clean for the best and safest perfor¬mance. Follow instructions for lubricating and changing accessories.

8. DISCONNECT TOOLS FROM POWER.

Before servicing, or when changing accessories such as bits, blades, cutters, etc. disconnect from power.

9. USE RECOMMENDED ACCESSORIES.

Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injuries.

10. CHECK DAMAGED PARTS.

Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect the tools operation. A guard or other part that is damaged should be properly repaired or replaced.

11. TURN POWER OFF. NEVER LEAVE TOOL RUNNING UNATTENDED.

Do not leave tool until it comes to a complete stop.

12. KEEP WORK AREA CLEAN.

Cluttered areas and benches invite accidents.

13. DO NOT USE IN DANGEROUS ENVIRONMENT.

Do not use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.

14. KEEP CHILDREN AWAY.

All visitors should be kept at a safe distance from the work area.

15. MAKE WORKSHOP CHILD PROOF.

Use padlocks, master switches, and remove starter keys.

16. WEAR PROPER APPARREL.

Loose clothing, gloves, neckties, rings, bracelets or other jewelry may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

17. ALWAYS USE SAFETY GLASSES AND DUST MASKS.

Use face or dust mask if cutting operation is dusty. Every day eyeglasses only have impact resistant lenses, they ARE NOT safety glasses.

18. DO NOT OVERREACH.

Keep proper footing and balance at all times.

19. NEVER STAND ON TOOL.

Serious injuries could occur if a moving part is unintentional¬ly contacted.

ADDITIONAL SAFETY RULES FOR AUTO-FEED PRECISION PLANER

- 1. If you are not thoroughly familiar with the operation of planers, obtain advice from your supervisor, instructor or other qualified person.
- 2. Keep cutterhead sharp and free of all rust and pitch.
- 3. Check material for loose knots, nails and other defects.
- 4. Remove shavings only with the power off.
- 5. Keep hands away from the top surface of the board near the teed rolls.
- 6. Check that switch is in OFF position before plugging in power cord.
- 7. Before moving table upward or downword, loosen locking knobs.

 After choosing the proper position tighten locking knobs.
 - The locking knobs are on the right side of machine as shown in PG 6.
- 8. Be sure the knives of cutterhead are correct and all hex screws are secured tightly before use.
- 9. Keep hands away from the feed rolls and the cutterhead.
- 10. Do not operate machine while the gear cover is open.
- 11. Remove adjusting tools and loose articals from machine before operating.

UNPACKING AND CLEANUP

To ensure maximum performance from your planer, clean it properly; and install it accurately before use. As soon as you receive the planer, we recommend you follow these Procedures:

- Inspect packing crate for damage in transit. Record damage and report it immediately to shipper.
- 2. Open crate and check that machine arrived in good condition. If not, let your industrial distribution know immediately.
- 3. Before lifting machine, remove all bolts locking it to its shipping base.
- 4. Transport machine to location with a hand truck or dolly.
- 5. Remove the protective coating from the table, bed rolls, feed rolls. cutterhead and loose items packed with the machine, including lifting handles and motor pulley.
- 6. This coating may be removed with a soft cloth moistened with Kerosene. NOTE: Do not use acetone, gasolink'or lacquer thinner for this purpose.
- 7. Do not use solvents on plastic parts; solvents dissolve on damage plastic. 8 Care must be taken when cleaning the cutterhead as the knives are in the cutterhead and knives are very sharp.

Lifting Handles

There are four lifting handles, furnished. All lifting handles are of hidden type. Pull the handles out for use, push in when not in use. Two of the lifting handles (A) are as shown in Fig. 1

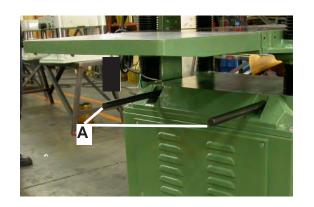


Fig. 1

Lifting Planer

It any type of sting is used to lift machine. be sure to attach to lifting handles only. Be sure that machine is kept in level position while lifting, as shown in Fig. 2

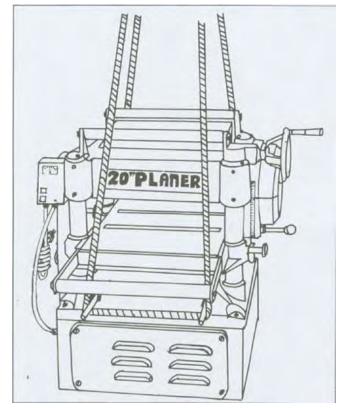


Fig. 2

Stand Assembling

For best planing performance, locate planer on solid, level foundation. With machine in position, test table surface lengthwise and crosswise with machinist level. Place metal shims under low corners. Check that all four corners are supported, then tighten lag screws, restest level of table surface in both directions; and adjust if necessary.

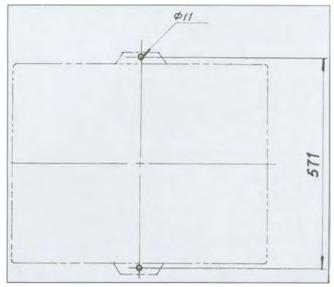


Fig. 3

5

Lubrication Guide Ot MI-31450 / MI-31453 Auto-Feed Precision Planer

No.	Position	Interval	Suitable Typees of Oil	Fig. No.
1	Chain	Frequently	Grease	4
2	Gear Box	When operated more than 2,500 hours	HD-100,Mobil Gear 627, Shell Omala 100,ESSO Spartan EP-100	4
3	Rollers	Frequently	SAE-30	5
4	Worm Gear	Frequently	Grease	6
5	Lead Screw	Frequently	Grease	6
6	Column	Frequently	Clean and SAE-30	6
7	Chain •	Frequently	Grease	7
8	Bushing	Frequently	SAE-30	8

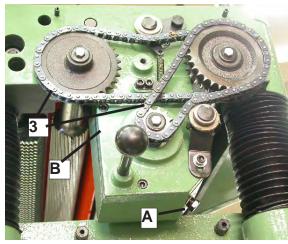


Fig 4

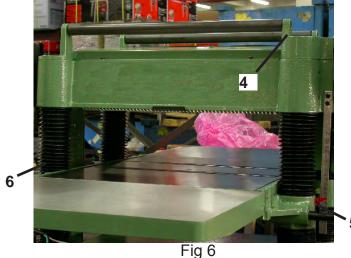




Fig 5

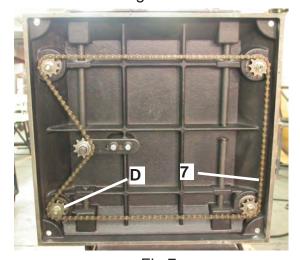


Fig 7

Lubrication Guide of Gear Box:

The gear box lubricant must be replaced every 2,500 hours. Suitable lubricant purpose gear box lubricant.

To Replace Lubricant:

- 1. Remove the drain plug (A). Fig 4 and tiller Cap (B), Drain dirty oil thoroughly.
- 2. Tighten the drain plug (A)
- 3. Fill with clean lubricant through hole (B)
- 4. Tghten the filler cap (B)

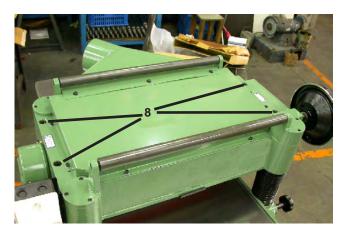


Fig 8

6

Assembling And Aligning Motor, Motor Pulley And Belt:

- 1. Assemble the motor pulley to the motor shaft with the key and tighten the screw in the motor shaft, as shown in Fig. 9.
- 2. Assemble the motor to the motor mounting plate, as shown in Fig. -10

NOTE: It is very important that the motor must be mounted to motor plate by using the mounting hardware (A) Fig. 10

- Using a straight edge, align the motor and cutter-head pulleys as shown in Fig. 11, the motor plate (B) Fig. 10 Can be moved for alignment by loosening the set screws (C) in the motor plate (B) as shown in Fig. 10
- 4. Assemble the belts to the two pulleys, as shown in Fig. 11. And adjust for the proper belt tension by raising or lowering the motor plate, as shown in Fig. 12, then tighten the nuts (A) Fig. 12. Correct tension is obtained when there is approx. 114" deflection of the center span of the pulleys by using light finger pressure.



Fig. 9

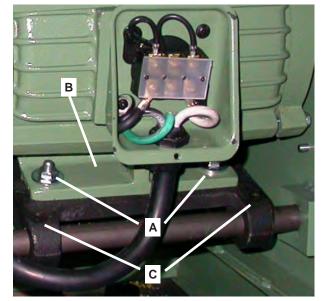


Fig. 10

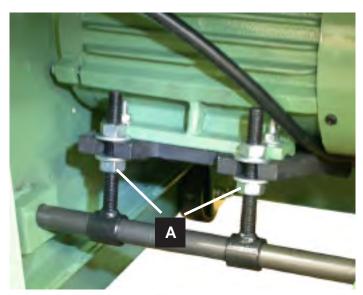


Fig. 12

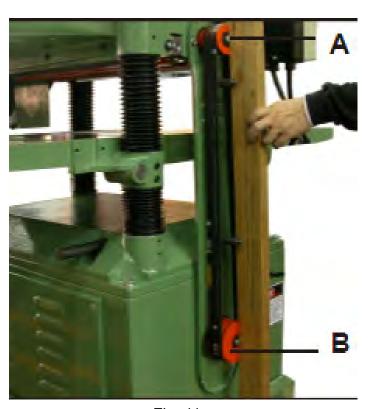


Fig. 11

Adjusting Table Rollers

Your planer is supplied with two table rollers (A) Fig. 13, which aid in feeding the stock by reducing friction and turn as the stock is fed through the planer. It is not possible to give exact dimensions on the proper height setting of the table rollers because each type of wood behaves differently.

As a general rule, however, when planing rough stock, the table rollers should be set at high position, and when planing smooth stock the table rollers should be set at low position.

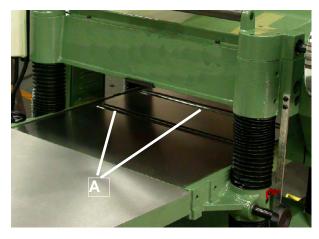


Fig 13

NOTE:

The raising range between 0.003"-0.006" when raising the roller higher above table as shown in Fig. 14.

The Table Rollers on your planer are set for average planing and are parallel to the table surface. If you desire to adjust the table rollers higher or lower, proceed as follows:

- 1. Disconnect machine from the power source.
- 2. Lay a straight edge (A) Fig, 15 across both rollers, loosen the screws (B) Fig. 15, and turn the eccentric shafts (C) to raise or lower the table rollers, when the proper height is obtained tighten screws (B) as shown in Fig. 15. Table rollers must be adjusted on the opposite end of table in the same manner.

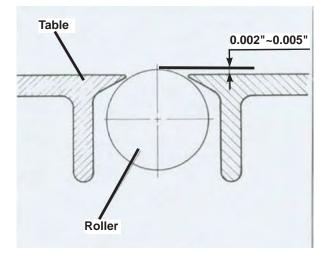


Fig 14

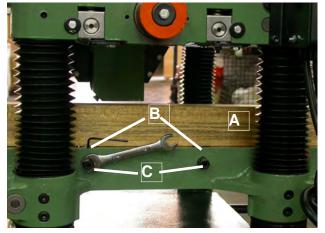


Fig 15

EXTENSION TABLES

- 1. Mount a cast iron table to the edge of the main table with three M8 x 25 hex cap screws (Fig. 17)
 - using a 12mm wrench. Do not fully tighten yet.
- 2. The extension table must be leveled with the main table. Place a straight edge (such as a jointed board) across both tables.
- 3. Insert three socket set screws with a 4mm hex wrench, and screw them in or out as needed until tables are level.
- 4. Securely tighten the hex cap screws.
- 5. Mount the second extension table to the opposite side of the planer table, using the same procedure.



The cutting depth scale is a combination inch/ metric scale (A), Fig. 18, cutting range from 0 to 8" (204mm). The distance of upward or downward movement is controled by Handwheel (B) Fig. 18 for one evolution is 0.059" (1.5mm). Before moving table upward or downward, loosen the lock nuts (C) as shown in Fig. 18. After choosing the proper position, tighten the lock nuts (C),

Adjustments

Although your planer was carefully adjusted at the factory, it should be checked before being put into operation. Any inaccuracies due to rough handling in transit can easily be corrected by following these directions.

In order to check the adjustments you will need a straight edge, feeler gage and a homemade gage block made of hard-wood. This gage block can be made by following the dimensions shown in Fig. 19.

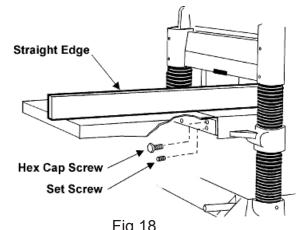


Fig 18

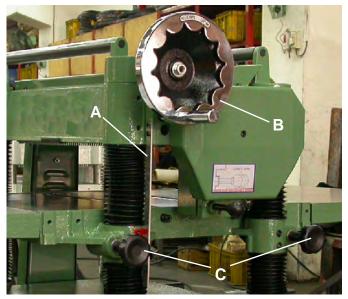
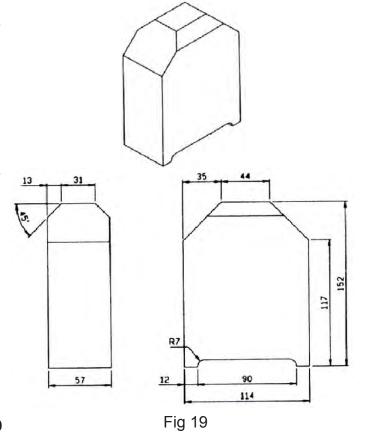


Fig 18



9

WARNING

WHEN CHECKING ADJUSTMENTS, ALWAYS MAKE SURE THE PLANER IS DISCONNECT ED FROM THE POWER SOURCE.

Checking And Adjusting Of Knives

When checking or adjusting the cutterhead knives, proceed as follows:

- 1. Disconnect the machine from the power source.
- 2. Remove the six screws (A), and remove the upper cover (B) as shown in Fig. 20.
- 3. To check and adjust knives use the knife gage (A) Fig. 22 and check all four knives.

Knives should just contact the bottom of the center protrusion (B) of the knife gage, as shown in Fig. 22.

- 4. If an adjustment to one or more of the knives is necessary, slightly loosen the knife locking bars (C) Fig. 22, of all four knives by turning the 24 locking screws (D) Fig. 22 into the knife locking bars just enough to relieve stress in the cutterhead and not disturb the setting of the knives.
- 5. Using the knife gage adjust the knife, that must be reset by loosening all six locking screws (D) Fig. 22, by turning them into the knife locking bar. As the knife locking bar becomes loose, lifter springs (E) located under the knife will raise the knife until it comes into contact with the center protrusion (B) of the gage (A) Fig. 22. Then snug up the knife locking bar by lightly backing out the six locking screws (D) against the slot.

NOTE: At this time, only tighten the knife into the slot just enough to hold knife into position.

- 6. If additional knives must be reset, repeat STEP 5.
- 7. Alter all four knives are set with screws just snug, back out and tighten the six screws (D) Fig. 21, 22 against the slot starting with the end screws first, then the center screws until the knife is securely held in the cutterhead. Tighten remaining three knives in the same manner.

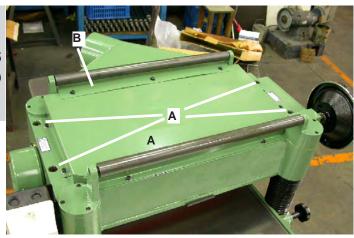


Fig 20



Fig 21

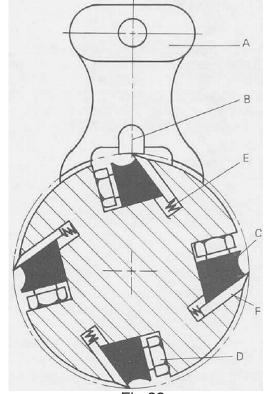


Fig 22

WARNING

AFTER REPLACING AND CHECKING, PLEASE CHECK ONE MORE TIME CAREFULLY. BE SURE THAT THE DIRECTION OF KNIVES IS CORRECT AND ALL 24 LOCKING SCREWS ARE TIGHTENED SECURELY. IT IS VERY IMPORTANT.

Checking Working Table Parallel To Cutterhead

The working sable is set parallel to the cutterhead at the factory and no further adjustment should be necessary. If your machine is planing a taper, first check to see if the knives are set properly in the cutterhead. Then check to see if the working table is set parallel to the cutterhead. proceed as follows:

- 1. Disconnect machine from the power source.
- 2. Place the gage block (A) Fig. 23 on the working table directly under front edge of head casting (B), Make slight contact by gently raising table as shown in Fig. 23.
- 3. Move the gage block (A) to opposite end of the working table, as shown in Fig. 24.

IMPORTANT:

DISTANCE FROM THE WORKING TABLE TO EDGE OF THE HEAD CASTING SHOULD BE THE SAME.

5. Adjust opposite end in the same manner.

Adjusting Working Table Parallel To Cutterhead If the working table is not parallel to the cutterhead, perform the adjustment procedures as follows:

- 1. Disconnected the machine from power source.
- 2. Tilt planer on its side to expose underside of base, as shown in Fig. 25
- Remove bolt (A) and loosen bolt (B) Fig, 25, which will allow you to move the idler sprocket assembly (C) far enough to release tension on chain, as shown in Fig. 26.
- 4. Remove chain from sprocket on corner of base that must be adjusted. In Fig. 26 chain has been removed from sprocket (D).
- 5. Turn sprocket (D) Fig. 26 by hand to bring that corner into adjustment with other three corners.

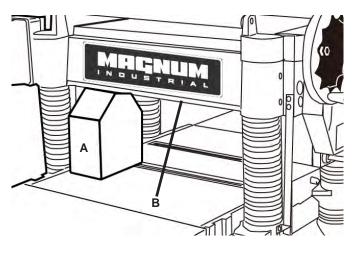


Fig 23

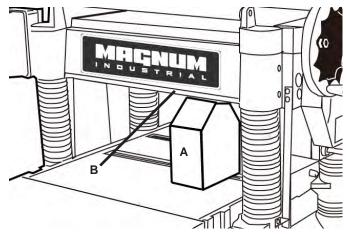


Fig 24

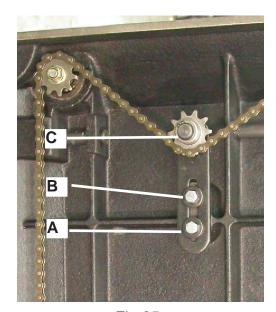


Fig 25

NOTE:

- A. Turning sprocket (0), clockwise will increase the distance between the working table and headcasting counter clockwise will decrease the distance.
- B. This adjustment la very sensitive and it should not be necessary to turn the sprocket more than one or two teeth.

Know The Transmitting Rollers Of Your Planer

- A. Infeed Roller
- B. Outfeed Roller
- C. Chip breaker I. Cutterhead
- E. Pressure Bar
- F. Anti-Kick back Fingers

The infeed roller (A) and outfeed roller (B) Fig. 27 are those parts of your planer that feed the stock while it is being planed, The infeed roller and the outfeed roller are under spring tension and this tension must be sufficient to feed the stock uniformly through the planer without slipping but should not be so tight that is causes damage to the board. The tension should be equal at both ends of each roller.

Adjusting infeed And Outfeed Rollers Spring Tension

* To adjust the spring tension of the Weed/Outfeed roller, turn the screw (G)/(H) Fig. 28. and also the screw on the opposite end of the Infeed/Outfeed roller.

Fig 26

Fig 27

Anti-Kick Back Fingers

The anti-kickback fingers (F) Fig. 29 are provided on your planer to prevent kickback. These fingers operate by gravity and it is necessary torinspect them occasionally to make sure they are free of gum and pitch so that they move independently and operate correctly.



Fig 28

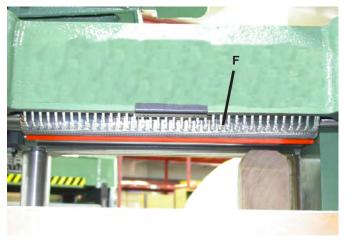


Fig 29

Checking Adjusting Height Of Infeed Roller, Chipbreaker, Pressure Bar And Outfeed Roller

The infeed roller, chipbreaker, pressure bar and outfeed roller are adjusted at the factory. The infeed roller and the Chipbreaker to be set 0.004" (0.1mm) below the cutting circle, the pressure bar to be set 0.008" (0.2mm) below the cutting circle and the outfeed roller to be set0.02" (0.5mm) below the cutting circle, as shown in Fig, 30 If an adjustment to the infeed roller, chipbreaker. pressure bar or outfeed roller is necessary, use the manner of the example_

EX. To check and adjust the outfeed roller below the cutting circle 0.02" (0.5mm), proceed as follows:

- 1. Disconnect machine from the power source.
- Make sure the knives are adjusted properly as previously explained under CHECKING AND ADJUSTING OF KNIVES.
- 3. Place the gage block (G) on the table directly underneath the cutterhead, as shown in Fig. 31. Using a 0.02" (0.5mm) feeler gage (H) Fig. 31, placed on top of the gage block, raise the working table until the knife just touches the teeter gage when the knife is at its lowest point. Do not move the working table any further until the outfeed roller is adjusted.
- 4. Move the gage block (0) under one end of the outfeed roller (B) as shown in Fig. 32. The bottom of the outfeed roller should just touch the top of the gage block. If an adjustment to the outfeed roller is necessary, loosen the lock nut (K) Fig. 32. and turn screw (L) Fig, 32 until the outfeed roller just touches the gage block. Then tighten lock nut (K) as shown in Fig. 32.
- 5. Check and adjust opposite end of the outfeed roller in the same manner.

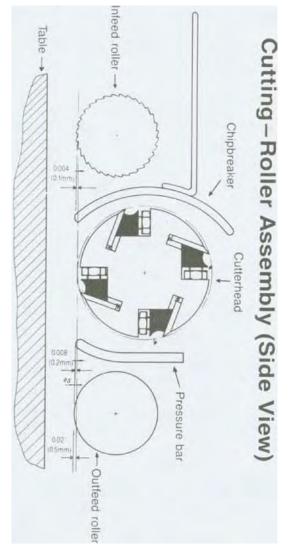
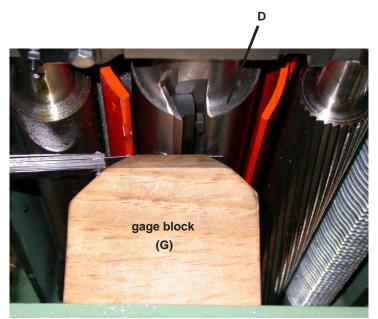


Fig 30





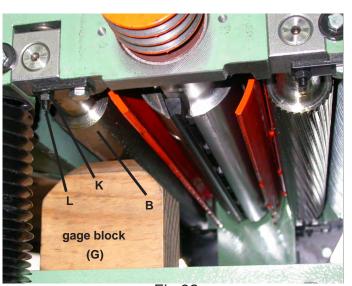


Fig 32

Feed Speed Control

Your machine is equipped with a spiral, serrated infeed roller and a solid steel outfeed roller. When the feed rollers are engaged, they turn to feed the stock The Feed rollers slow automatically when the machine is under heavy load for best planing under all conditions. The feed rollers are driven by chains (D) Fig. 33 and the sprockets (E), which takes power directly from the cutterhead through the oil bath gear box (F) Fig. 33

There are two feed speeds in the gear box by using the shift lever (G) Fig. 33 to pull out or push in, and the feed speed range as shown in Fig. 34.

FEED ROLL SPEED RATE

Speed rate of feed roll is transmitted by shaft gears in gear box.

Shift gears handle, shown as Fig. 34 There are three kinds of operations of gear box by using shaft handle to pull or push. In the position A feed roll is operating on rate 20 FPM. Shown as

Fig. 16 In the position 13 feed roll is operating on rate 0.

In the position C feed roll is operating on rate 16 FPM.

Return Rollers

The two return rollers (A) Fig, 35 on the tsp.of the machine serve as convenient stock rest. When planed lumber is returned to the infeed side, it saves time and motion, as shown in Fig. 35.

Accessory Dust Collector Hood

Dust collector hood is standard accessory. Assembled to the rear of the planer using Hex. Hd. Screws and washers. It provides an efficient means of maintaining a clean and safe work area as shown in Fig. 35 (B).

WARNING

IF, AFTER READING THIS MANUAL YOU ARE STILL UNSURE ON HOW TO SAFELY OPERATE THIS MACHINE DO NOT OPERATE UNTIL YOU HAVE RECEIVED FURTHER INSTRUCTIONS FROM A QUALITIED PERSON.

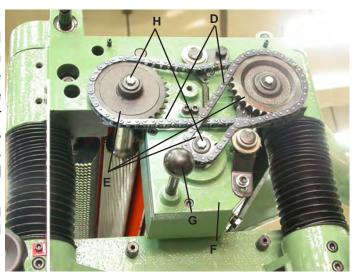


Fig. 33

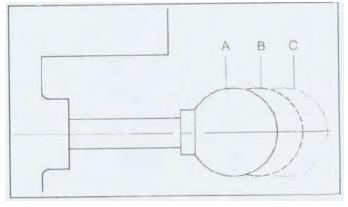
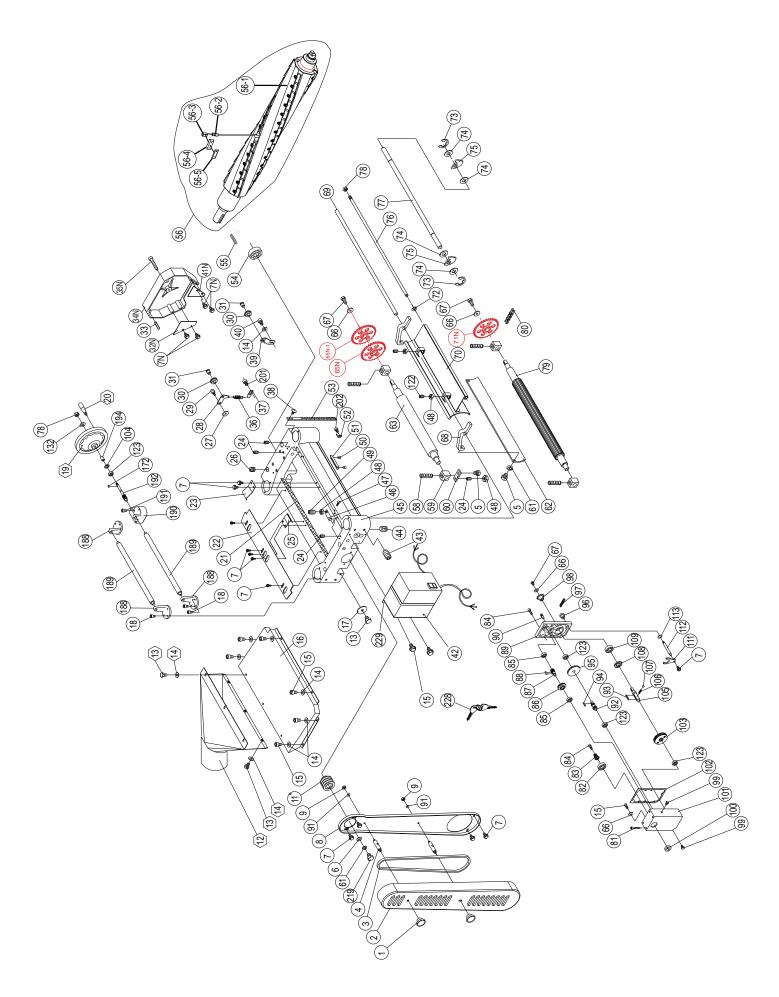


Fig. 34

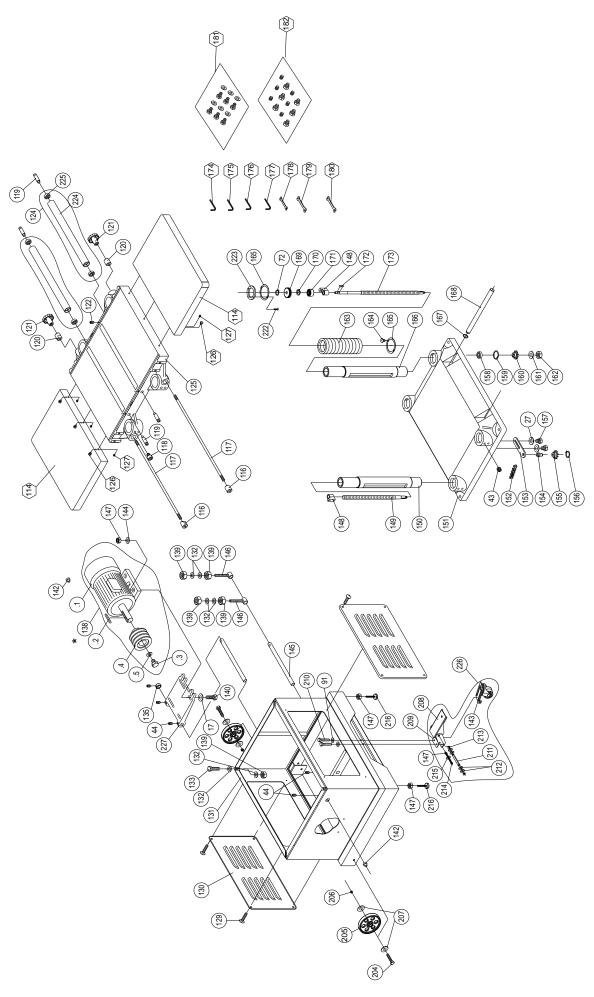


Fig. 35

PARTS LIST FOR MI-31450 / MI-31453



PARTS LIST FOR MI-31450 / MI-31453



MI-31450-1 230118-000 KNOB 2 MI-31450-2 170871-000 PULLEY COVER 1 MI-31450-3 014009-000 V-BELT M57 3 MI-31450-4 380147-901 BOLT 2 MI-31450-5 000003-204 HEX. HD. SCREW M8*1.25P*20 7 MI-31450-6 006001-043 FLAT WASHER 8.2-02 *30*4.0t 2 MI-31450-7 000902-202 HEX. HD. SCREW M6*1.0P*12 16 MI-31450-7N PHILLIPS HD. SCREW M4*0.7P*8 4 MI-31450-8 170432-000 PULLEY GUARD 1 MI-31450-9 009005-200 HEX. NUT 5/16"-18NC(12.7B*6.75H 2 MI-31450-11 050273-019 MACHINE PULLEY 1 MI-31450-12 170488-000 DUST CHUTE 1 MI-31450-13 000002-032 FLAT WASHER 6.6*13*1.0t 14 MI-31450-15 000103-103 CAP SCREW M6*1.0P*12 9 MI-31450-17 006001-056 FLAT WASHER 8.5*23*2	ITEM NO.	PART NO.	DESCRIPTION	SPEC.	QTY
MI-31450-2 170871-000 PULLEY COVER 1 MI-31450-3 014009-000 V-BELT M57 3 MI-31450-4 380147-901 BOLT 2 MI-31450-5 000003-204 HEX. HD. SCREW M8*1.25P*20 7 MI-31450-6 006001-043 FLAT WASHER 8.2**3*30*4.0t 2 MI-31450-7 000902-202 HEX. HD. SCREW M6*1.0P*12 16 MI-31450-7N PHILLIPS HD. SCREW M4*0.7P*8 4 MI-31450-8 170432-000 PULLEY GUARD 1 MI-31450-9 009005-200 HEX. NUT 5/16"-18NC(12.7B*6.75H 2 MI-31450-11 050273-019 MACHINE PULLEY 1 MI-31450-12 170488-000 DUST CHUTE 1 MI-31450-13 000002-201 HEX. HD. SCREW M6*1.0P*12 10 MI-31450-14 006002-032 FLAT WASHER 6.6*13*1.0t 14 MI-31450-15 000103-103 CAP SCREW M6*1.0P*12 9 MI-31450-18 000103-106 <t< th=""><th></th><th></th><th></th><th></th><th></th></t<>					
MI-31450-3 014009-000 V-BELT M57 3 MI-31450-4 380147-901 BOLT 2 MI-31450-5 000003-204 HEX. HD. SCREW M8*1.25P*20 7 MI-31450-6 006001-043 FLAT WASHER 8.2***2**30**4.0t 2 MI-31450-7 000902-202 HEX. HD. SCREW M6*1.0P*12 16 MI-31450-7N PHILLIPS HD. SCREW M4*0.7P*8 4 MI-31450-8 170432-000 PULLEY GUARD 1 MI-31450-9 009005-200 HEX. NUT 5/16"-18NC(12.7B*6.75H 2 MI-31450-11 050273-019 MACHINE PULLEY 1 MI-31450-12 170488-000 DUST CHUTE 1 MI-31450-13 000002-201 HEX. HD. SCREW M6*1.0P*12 10 MI-31450-14 006002-032 FLAT WASHER 6.6*13*1.0t 14 MI-31450-15 000103-103 CAP SCREW M6*1.0P*12 9 MI-31450-17 006001-056 FLAT WASHER 8.5*23*2.0t 8 MI-31450-18					
MI-31450-4 380147-901 BOLT 2 MI-31450-5 000003-204 HEX. HD. SCREW M8*1.25P*20 7 MI-31450-6 006001-043 FLAT WASHER 8.2***0***2**30*4.0t 2 MI-31450-7 000902-202 HEX. HD. SCREW M6*1.0P*12 16 MI-31450-7N PHILLIPS HD. SCREW M4*0.7P*8 4 MI-31450-8 170432-000 PULLEY GUARD 1 MI-31450-9 009005-200 HEX. NUT 5/16"-18NC(12.7B*6.75H 2 MI-31450-11 050273-019 MACHINE PULLEY 1 MI-31450-12 170488-000 DUST CHUTE 1 MI-31450-13 000002-201 HEX. HD. SCREW M6*1.0P*12 10 MI-31450-14 006002-032 FLAT WASHER 6.6*13*1.0t 14 MI-31450-15 000103-103 CAP SCREW M6*1.0P*12 9 MI-31450-17 006001-056 FLAT WASHER 8.5*23*2.0t 8 MI-31450-18 000103-106 CAP SCREW M6*1.0P*16 9				M57	
MI-31450-5 000003-204 HEX. HD. SCREW M8*1.25P*20 7 MI-31450-6 006001-043 FLAT WASHER 8.2***2**30*4.0t 2 MI-31450-7 000902-202 HEX. HD. SCREW M6*1.0P*12 16 MI-31450-7N PHILLIPS HD. SCREW M4*0.7P*8 4 MI-31450-8 170432-000 PULLEY GUARD 1 MI-31450-9 009005-200 HEX. NUT 5/16"-18NC(12.7B*6.75H 2 MI-31450-11 050273-019 MACHINE PULLEY 1 MI-31450-12 170488-000 DUST CHUTE 1 MI-31450-13 000002-201 HEX. HD. SCREW M6*1.0P*12 10 MI-31450-14 006002-032 FLAT WASHER 6.6*13*1.0t 14 MI-31450-15 000103-103 CAP SCREW M6*1.0P*12 9 MI-31450-17 006001-056 FLAT WASHER 8.5*23*2.0t 8 MI-31450-18 000103-106 CAP SCREW M6*1.0P*16 9					
MI-31450-6 006001-043 FLAT WASHER 8.2-02 *30*4.0t 2 MI-31450-7 000902-202 HEX. HD. SCREW M6*1.0P*12 16 MI-31450-7N PHILLIPS HD. SCREW M4*0.7P*8 4 MI-31450-8 170432-000 PULLEY GUARD 1 MI-31450-9 009005-200 HEX. NUT 5/16"-18NC(12.7B*6.75H 2 MI-31450-11 050273-019 MACHINE PULLEY 1 MI-31450-12 170488-000 DUST CHUTE 1 MI-31450-13 000002-201 HEX. HD. SCREW M6*1.0P*12 10 MI-31450-14 006002-032 FLAT WASHER 6.6*13*1.0t 14 MI-31450-15 000103-103 CAP SCREW M6*1.0P*12 9 MI-31450-16 170494-000 UPPER COVER 1 MI-31450-17 006001-056 FLAT WASHER 8.5*23*2.0t 8 MI-31450-18 000103-106 CAP SCREW M6*1.0P*16 9				M8*1.25P*20	
MI-31450-7 000902-202 HEX. HD. SCREW M6*1.0P*12 16 MI-31450-7N PHILLIPS HD. SCREW M4*0.7P*8 4 MI-31450-8 170432-000 PULLEY GUARD 1 MI-31450-9 009005-200 HEX. NUT 5/16"-18NC(12.7B*6.75H 2 MI-31450-11 050273-019 MACHINE PULLEY 1 MI-31450-12 170488-000 DUST CHUTE 1 MI-31450-13 000002-201 HEX. HD. SCREW M6*1.0P*12 10 MI-31450-14 006002-032 FLAT WASHER 6.6*13*1.0t 14 MI-31450-15 000103-103 CAP SCREW M6*1.0P*12 9 MI-31450-16 170494-000 UPPER COVER 1 MI-31450-17 006001-056 FLAT WASHER 8.5*23*2.0t 8 MI-31450-18 000103-106 CAP SCREW M6*1.0P*16 9					
MI-31450-7N PHILLIPS HD. SCREW M4*0.7P*8 4 MI-31450-8 170432-000 PULLEY GUARD 1 MI-31450-9 009005-200 HEX. NUT 5/16"-18NC(12.7B*6.75H 2 MI-31450-11 050273-019 MACHINE PULLEY 1 MI-31450-12 170488-000 DUST CHUTE 1 MI-31450-13 000002-201 HEX. HD. SCREW M6*1.0P*12 10 MI-31450-14 006002-032 FLAT WASHER 6.6*13*1.0t 14 MI-31450-15 000103-103 CAP SCREW M6*1.0P*12 9 MI-31450-16 170494-000 UPPER COVER 1 MI-31450-17 006001-056 FLAT WASHER 8.5*23*2.0t 8 MI-31450-18 000103-106 CAP SCREW M6*1.0P*16 9					
MI-31450-8 170432-000 PULLEY GUARD 1 MI-31450-9 009005-200 HEX. NUT 5/16"-18NC(12.7B*6.75H 2 MI-31450-11 050273-019 MACHINE PULLEY 1 MI-31450-12 170488-000 DUST CHUTE 1 MI-31450-13 000002-201 HEX. HD. SCREW M6*1.0P*12 10 MI-31450-14 006002-032 FLAT WASHER 6.6*13*1.0t 14 MI-31450-15 000103-103 CAP SCREW M6*1.0P*12 9 MI-31450-16 170494-000 UPPER COVER 1 MI-31450-17 006001-056 FLAT WASHER 8.5*23*2.0t 8 MI-31450-18 000103-106 CAP SCREW M6*1.0P*16 9		000002 202			
MI-31450-9 009005-200 HEX. NUT 5/16"-18NC(12.7B*6.75H 2 MI-31450-11 050273-019 MACHINE PULLEY 1 MI-31450-12 170488-000 DUST CHUTE 1 MI-31450-13 000002-201 HEX. HD. SCREW M6*1.0P*12 10 MI-31450-14 006002-032 FLAT WASHER 6.6*13*1.0t 14 MI-31450-15 000103-103 CAP SCREW M6*1.0P*12 9 MI-31450-16 170494-000 UPPER COVER 1 MI-31450-17 006001-056 FLAT WASHER 8.5*23*2.0t 8 MI-31450-18 000103-106 CAP SCREW M6*1.0P*16 9		170432-000			
MI-31450-11 050273-019 MACHINE PULLEY 1 MI-31450-12 170488-000 DUST CHUTE 1 MI-31450-13 000002-201 HEX. HD. SCREW M6*1.0P*12 10 MI-31450-14 006002-032 FLAT WASHER 6.6*13*1.0t 14 MI-31450-15 000103-103 CAP SCREW M6*1.0P*12 9 MI-31450-16 170494-000 UPPER COVER 1 MI-31450-17 006001-056 FLAT WASHER 8.5*23*2.0t 8 MI-31450-18 000103-106 CAP SCREW M6*1.0P*16 9				5/16"-18NC(12 7B*6 75H	2
MI-31450-12 170488-000 DUST CHUTE 1 MI-31450-13 000002-201 HEX. HD. SCREW M6*1.0P*12 10 MI-31450-14 006002-032 FLAT WASHER 6.6*13*1.0t 14 MI-31450-15 000103-103 CAP SCREW M6*1.0P*12 9 MI-31450-16 170494-000 UPPER COVER 1 MI-31450-17 006001-056 FLAT WASHER 8.5*23*2.0t 8 MI-31450-18 000103-106 CAP SCREW M6*1.0P*16 9				0/10 10110(12.12 0.1011	
MI-31450-13 000002-201 HEX. HD. SCREW M6*1.0P*12 10 MI-31450-14 006002-032 FLAT WASHER 6.6*13*1.0t 14 MI-31450-15 000103-103 CAP SCREW M6*1.0P*12 9 MI-31450-16 170494-000 UPPER COVER 1 MI-31450-17 006001-056 FLAT WASHER 8.5*23*2.0t 8 MI-31450-18 000103-106 CAP SCREW M6*1.0P*16 9					
MI-31450-14 006002-032 FLAT WASHER 6.6*13*1.0t 14 MI-31450-15 000103-103 CAP SCREW M6*1.0P*12 9 MI-31450-16 170494-000 UPPER COVER 1 MI-31450-17 006001-056 FLAT WASHER 8.5*23*2.0t 8 MI-31450-18 000103-106 CAP SCREW M6*1.0P*16 9				M6*1 0P*12	
MI-31450-15 000103-103 CAP SCREW M6*1.0P*12 9 MI-31450-16 170494-000 UPPER COVER 1 MI-31450-17 006001-056 FLAT WASHER 8.5*23*2.0t 8 MI-31450-18 000103-106 CAP SCREW M6*1.0P*16 9					
MI-31450-16 170494-000 UPPER COVER 1 MI-31450-17 006001-056 FLAT WASHER 8.5*23*2.0t 8 MI-31450-18 000103-106 CAP SCREW M6*1.0P*16 9					
MI-31450-17 006001-056 FLAT WASHER 8.5*23*2.0t 8 MI-31450-18 000103-106 CAP SCREW M6*1.0P*16 9				1110 1.01 12	
MI-31450-18 000103-106 CAP SCREW M6*1.0P*16 9				8 5*23*2 Ot	
WI-51450-15 240010-000 HAND WILLE				100 1:01 10	
MI-31450-20 230114-906 HANDLE 1					
MI-31450-21 200021-000 SPONGE 1					
MI-31450-22 250172-617 CHIP DEFLECTOR PLATE 1					
MI-31450-23 270015-901 SPRING PLATE 3					
MI-31450-24 000203-106 SET SCREW M6*1.0P*16 7				M6*1 0P*16	
MI-31450-25 270017-901 SPRING PLATE 1				100 1.01 10	
MI-31450-26 380200-901 SCREW 4					
MI-31450-27 006001-041 WASHER 8.2*22*3.0t 3				8 2*22*3 Ot	
MI-31450-28 170405-901 BRACKET 1				0.2 22 0.00	
MI-31450-29 290039-901 SHAFT 1					
MI-31450-30 130071-000 IDLE PULLEY 2					
MI-31450-31 360349-902 SHAFT 2					
MI-31450-32N 170473-904 SAFETY HATCH 1					
MI-31450-33 011004-102 SPRING PIN 6*20 2				6*20	
MI-31450-34N 050292-000 COVER 1					
MI-31450-35N 000104-112 CAP SCREW M8*1.25P*10 1				M8*1.25P*10	1
MI-31450-36 280050-000 SPRING 1					
MI-31450-37 170406-901 HANGER 1					
MI-31450-38 000304-203 PHILLIPS HD. SCREW M6*1.0P*12 2	MI-31450-38			M6*1.0P*12	2
MI-31450-39 170474-901 BRACKET 1					
MI-31450-40 000103-110 CAP SCREW M6*1.0P*35 1	MI-31450-40	000103-110	CAP SCREW	M6*1.0P*35	1
MI-31450-41N 170475-904 SAFETY HATCH 1	MI-31450-41N	170475-904	SAFETY HATCH		1
MI-31450-42A 937270-000 MAGNETIC SWITCH 5HP*220V-240V*1PH 1	MI-31450-42A	937270-000	MAGNETIC SWITCH	5HP*220V-240V*1PH	1
MI-31452-42C 938018-000 MAGNETIC SWITCH 5HP*208V*3PH 1	MI-31452-42C		MAGNETIC SWITCH	5HP*208V*3PH	1
MI-31453-42B 937331-000 MAGNETIC SWITCH 5HP*220V-240V*3PH 1	MI-31453-42B	937331-000	MAGNETIC SWITCH	5HP*220V-240V*3PH	1
MI-31450-43 000205-101 SET SCREW M10*1.5P*12 16	MI-31450-43	000205-101	SET SCREW	M10*1.5P*12	16
MI-31450-44 000204-103 SET SCREW M8*1.25P*12 6	MI-31450-44	000204-103	SET SCREW	M8*1.25P*12	6
MI-31450-45 050293-000 HEAD CASTING 1	MI-31450-45	050293-000	HEAD CASTING		1
MI-31450-46 360385-901 SHAFT 2	MI-31450-46	360385-901	SHAFT		2
MI-31450-47 002301-201 RIVET 2*5 4	MI-31450-47	002301-201	RIVET	2*5	4
MI-31450-48 008005-200 HEX. NUT M6*1.0P(10B*5H) 8	MI-31450-48	008005-200	HEX. NUT	M6*1.0P(10B*5H)	
MI-31450-49 000203-107 SET SCREW M6*1.0P*20 2	MI-31450-49	000203-107	SET SCREW	M6*1.0P*20	2
MI-31450-50 000402-202 COUNTERSUNK PHILLIPS HD. SCREW M5*0.8P*8 2	MI-31450-50	000402-202	COUNTERSUNK PHILLIPS HD. SCREW	M5*0.8P*8	2
MI-31450-51 170409-901 CUT LIMITER PLATE 1	MI-31450-51	170409-901	CUT LIMITER PLATE		1
MI-31450-52 170476-156 POINTER 1	MI-31450-52	170476-156			1
MI-31450-53 571057-000 SCALE 1		571057-000	SCALE		1
MI-31450-54 033705-000 BEARING 6206-2NKE 1					
MI-31450-55 012204-001 KEY 8*8*36 1					1
MI-31450-56 MAGNUM HELICAL COMPLETE WITH DOUBLE SIDED CARBIDE INSERTS (BEARINGS NOT INCLUDED) 1	MI-31450-56	MAGNUM HELICA	AL COMPLETE WITH DOUBLE SIDED CARBIDE INSERT	S (BEARINGS NOT INCLUDED)	1

ITEMANO		LIST FUR WII-31450 / WII-31452		O.T.\
ITEM NO.	PART NO.	DESCRIPTION	SPEC.	QTY
MI-31450-56-1	30300H-01	30300H-01 MAGNUM HELICAL HEAD	UNLY	
MI-31450-56-2	30300H-02	SCREW		58
MI-31450-56-3	30300H-03	NUT		58
MI-31450-56-4 MI-31450-56-5	30300H-04	KNIFE-HOLDER /CHIP-BRACKER CARBIDE INSERT	30*12*1.5MM	58
	30300H-05		30"12"1.5101101	58
MI-31450-58	280051-000	SPRING		4
MI-31450-59 MI-31450-60	130039-000 170408-902	BUSHING PLATE		4
MI-31450-61	006305-100	SPRING WASHER	8.2*15.4	3
MI-31450-62	170477-019	PRESSURE PLATE	0.2 10.4	1
MI-31450-63	360405-000	OUTFEED ROLLER		1
MI-31450-65N	070012-000	SPROCKET		1
MI-31450-65N-1	070012-000	SPROCKET		1
MI-31450-66	006001-020	FLAT WASHER	6.2*20*3.0t	4
MI-31450-67	000001-020	HEX. HD. SCREW	M6*1.0P*16	3
MI-31450-68	070016-025	BRACKET	100 1.01 10	2
MI-31450-69	360386-000	SHAFT		
MI-31450-70	170478-019	CHIP BREAKER		1
MI-31450-71N	110110010	SPROCKET		1
MI-31450-72	010003-000	RETAINING RING	STW-12	2
MI-31450-73	010209-000	RETAINING RING	ETW-15	2
MI-31450-74	250160-615	COLLAR	-	56
MI-31450-75	172281-905	ANTI-KICK FINGER		55
MI-31450-76	360387-000	SHAFT		1
MI-31450-77	360388-000	SHAFT		1
MI-31450-78	008009-200	HEX. NUT	M12*1.75P(19B*10H)	2
MI-31450-79	360389-000	INFEED ROLLER	,	1
MI-31450-80	016308-002	CHAIN	#06B*67P	1
MI-31450-81	000104-114	CAP SCREW	M8*1.25P*50	4
MI-31450-82	030109-000	BEARING	6204-ZZ	1
MI-31450-83	320196-000	GEAR		1
MI-31450-84	000103-108	CAP SCREW	M6*1.0P*25	5
MI-31450-85	030701-000	BEARING	6201	2
MI-31450-86	320197-000	GEAR		11
MI-31450-87	320160-000	SHAFT		1
MI-31450-88	012003-003	KEY	5*5*12	1
MI-31450-89	050280-000	COVER		1
MI-31450-90	360355-901	PIN		2
MI-31450-91	006002-046	FLAT WASHER	8.5*16*1.5t	4
MI-31450-92	320205-000	SHAFT	04.04.40	1
MI-31450-93	012004-003	KEY	6*6*40	1
MI-31450-94	012003-002	KEY	5*5*10	1
MI-31450-95	320198-000	GEAR		1
MI-31450-96	250372-615	KNOB	#00D*F0D	1
MI-31450-97	016304-000	CHAIN	#06B*50P	1
MI-31450-98	150008-000	SPROCKET OIL BLUC	DT4/4" 40	2
MI-31450-99	043401-000	OIL PLUG	PT1/4"-19 TC28*40*8	
MI-31450-100 MI-31450-101	043608-000	OIL SEAL GEAR BOX	1028"40"8	1
	050281-000			
MI-31450-102 MI-31450-103	340012-615 922351-000	PACKING PIECE GEAR		1
MI-31450-103	010102-000	RETAINING RING	RTW-32	1
MI-31450-104	360357-901	SHAFT	1X1 VV-3Z	1
MI-31450-106	280052-000	SPRING		1
MI-31450-106	017002-000	STEEL BALL	6	1
MI-31450-107	043505-000	OIL SEAL	SC25*47*6	1
MI-31450-108	030306-000	BEARING	6204Z(A)	1
MI-31450-111	070014-000	CLUTCH	02072(A)	1
1411-014-00-111	070014-000	OLU I OI I		

ITEM NO.	PART NO.	DESCRIPTION	SPEC.	QTY
MI-31450-112	360358-901	HANDLE	SPEC.	Q 1 1 1
MI-31450-112	043303-000	OIL RING	P12	 -
MI-31450-114	050301-000	EXTENSION WING	1 12	2
MI-31450-116	130038-000	LOCK STUD		2
MI-31450-117	360390-000	LOCK BOLT		2
MI-31450-118	000104-104	CAP SCREW	M8*1.25P*16	8
MI-31450-119	360391-000	ECCENTRIC SHAFT		4
MI-31450-120	130037-000	LOCKSMITH		2
MI-31450-121	230115-000	KNOB		2
MI-31450-122	000203-104	SET SCREW	M6*1.0P*12	6
MI-31450-123	030304-000	BEARING	6201Z(A)	4
MI-31450-124	921208-000	TABLE ROLLER COMPLETE		2
MI-31450-125	050302-000	MIDDLE TABLE		1
MI-31450-126	000003-105	HEX. HD. SCREW	M8*1.25P*20	6
MI-31450-127	000204-105	SET SCREW		6
MI-31450-129	000403-204	COUNTERSUNK PHILLIPS HD. SCREW	M6*1.0P*20	8
MI-31450-130	170479-000	COVER		2
MI-31450-131	170485-000	STAND		1
MI-31450-132	006002-091	FLAT WASHER	13*28*3.0t	13
MI-31450-133	000005-202	HEX. HD. SCREW	M12*1.75P*50	4
MI-31450-135	190074-901	COLLAR		1
MI-31450-138	901000-000	MOTOR COMPLETE	5HP*220V*60HZ*1PH*2F	1
MI-31450-138.1A		MOTOR	5HP*220V-240V*60HZ*1PH*2P-25A	1
MI-31452-138.1C		MOTOR	5HP*208V*60HZ*3PH*2P*15A	1
MI-31453-138.1B		MOTOR	5HP*220V-*240V*60HZ*3PH	1
MI-31450-138.2	012202-002	KEY	5*5*30	1
MI-31450-138.3	000003-204	HEX. SCREW	M8*1.25P*20	1
MI-31450-138.4	050351-019	MOTOR PULLEY	0.002 *0.0*4.04	1
MI-31450-138.5	006001-043	FLAT WASHER HEX. NUT	8.2°2 *30*4.0t	<u>1</u> 8
MI-31450-139 MI-31450-140	008009-100 000003-208	HEX. HD. SCREW	M12*1.75P(19B*10H) M8*1.25P*40	4
MI-31450-140	021602-000	CORD PROTECTOR	5/8"	2
MI-31450-142	920306-000	CASTER	3/8	1
MI-31450-144	006001-046	FLAT WASHER	8.5*16*1.5t	4
MI-31450-145	360394-000	BAR	0.0 10 1.00	2
MI-31450-146	380249-901	ADJUSTING BOLT		2
MI-31450-147	008006-200	HEX. NUT	M8*1.25P(13B*6.5H)	7
MI-31450-148	130045-000	HEX. NUT	11.0 1.201 (10.0 0.01.1)	4
MI-31450-149	360395-000	SHORT LEAD SCREW		3
MI-31450-150	050296-000	COLUMN		3
MI-31450-151	050297-000	BASE		1
MI-31450-152	016004-000	CHAIN	#40*166P	1
MI-31450-153	170413-901	BRACKET		1
MI-31450-154	360362-902	SHAFT		1
MI-31450-155	150011-000	SPROCKET		1
MI-31450-156	010006-000	RETAINING RING	STW-15	1
MI-31450-157	000003-205	HEX. HD. SCREW	M8*1.25P*25	2
MI-31450-158	030305-000	BEARING	6202Z(A)	4
MI-31450-159	010103-000	RETAINING RING	RTW-35	4
MI-31450-160	150012-000	SPROCKET		4
MI-31450-161	006001-078	FLAT WASHER	10.5*19*1.5t	4
MI-31450-162	008008-100	HEX. NUT	M10*1.25P(17B*8H)	4
MI-31450-163	250173-615	EXPANSION BEND		8
MI-31450-164	001104-502	PHILLIPS HD. SCREW	M5*2.12P*10	30
MI-31450-165	170481-901	PIPE BAND		16
MI-31450-166	050298-000	COLUMN	ET\A/ 47	1
MI-31450-167	010202-000	RETAINING RING	ETW-17	4
MI-31450-168	360396-902	CRANE POST		4

MI-31450-169 320203-000 GEAR	ITEM NO.	PART NO.	DESCRIPTION	SPEC.	QTY
MI-31450-171 130046-000 BUSHING		320203-000	GEAR		1
MI-31450-172	MI-31450-170	010104-000	RETAINING RING	RTW-38	1
MI-31450-173 360397-000 LONG LEAD SCREW 1 MI-31450-175 040003-000 ALLEN WRENCH 3mm 1 MI-31450-175 040004-000 ALLEN WRENCH 4mm 1 MI-31450-175 040005-000 ALLEN WRENCH 5mm 1 MI-31450-177 040006-000 ALLEN WRENCH 5mm 1 MI-31450-177 040006-000 ALLEN WRENCH 5mm 1 MI-31450-178 040201-000 OPEN WRENCH 12°14 1 MI-31450-178 040201-000 OPEN WRENCH 12°14 1 MI-31450-178 040204-000 OPEN WRENCH 17°19 1 MI-31450-181 MI-31450-180 040206-000 OPEN WRENCH 17°19 1 MI-31450-181 MI-31450-182 MI-31450-182 MI-31450-183 MI-31450-188 MI-31450-188 MI-31450-188 MI-31450-188 MI-31450-188 MI-31450-188 MI-31450-189 MI-31450-199 MI-31450-199	MI-31450-171	130046-000	BUSHING		1
MI-31450-174 040003-000 ALLEN WRENCH 3mm	MI-31450-172	012002-004	KEY	4*4*10	2
MI-31450-175	MI-31450-173	360397-000	LONG LEAD SCREW		1
MI-31450-176 040005-000 ALLEN WRENCH 5mm 1	MI-31450-174	040003-000	ALLEN WRENCH	3mm	1
MI-31450-177	MI-31450-175	040004-000	ALLEN WRENCH	4mm	1
MI-31450-178	MI-31450-176	040005-000	ALLEN WRENCH	5mm	1
MI-31450-179	MI-31450-177	040006-000	ALLEN WRENCH	6mm	1
MI-31450-180	MI-31450-178	040201-000	OPEN WRENCH	12*14	1
MI-31450-181 850114-000 DUST CUTE HARDWARE 6.6*13*1.0t 1 MI-31450-182 850115-000 EXTENSION WING HARDWARE M8*1.25P*25 1 MI-31450-188 050299-000 ROLLER SEAT 3 MI-31450-189 360398-902 ROLLER 2 MI-31450-190 050300-000 WORM GEAR BOX 1 MI-31450-191 000103-113 CAP SCREW M6*1.0P*50 3 MI-31450-192 320204-000 WORM GEAR 1 1 MI-31450-194 190008-901 COLLAR 1 1 MI-31450-202 000102-103 CAP SCREW M6*1.0P*10 2 MI-31450-201 000103-102 CAP SCREW M5*0.8P*10 1 MI-31450-202 00102-103 CAP SCREW M5*0.8P*10 1 MI-31450-205 051068-000 WHEEL 2 2 MI-31450-206 009102-200 SCREW 3/8"-16NC(14.2B*11.5H) 2 MI-31450-207 006002-077 FLAT WASHER 10.5*19*1.0t 4	MI-31450-179	040204-000	OPEN WRENCH	17*19	1
MI-31450-182 850115-000 EXTENSION WING HARDWARE M8*1.25P*25 1	MI-31450-180	040206-000	OPEN WRENCH		1
MI-31450-188 050299-000 ROLLER SEAT 3 MI-31450-189 360398-902 ROLLER 2 MI-31450-190 050300-000 WORM GEAR BOX 1 MI-31450-191 000103-113 CAP SCREW M6*1.0P*50 3 MI-31450-192 320204-000 WORM GEAR 1 MI-31450-194 190008-901 COLLAR 1 MI-31450-201 000103-102 CAP SCREW M6*1.0P*10 2 MI-31450-202 000102-103 CAP SCREW M5*0.8P*10 1 MI-31450-204 003005-206 HEX. NUT 3/8"-16NC*2-1/2" 2 MI-31450-205 051068-000 WHEEL 2 2 MI-31450-206 099102-200 SCREW 3/8"-16NC*(14.2B*11.5H) 2 MI-31450-207 006002-077 FLAT WASHER 10.5*19*1.0t 4 MI-31450-208 170487-008 BRACKET 1 1 MI-31450-210 03003-209 HEX. SCREW 5/16"-18NC*2" 2 MI-31450-213 010207-000	MI-31450-181	850114-000	DUST CUTE HARDWARE	6.6*13*1.0t	1
MI-31450-189 360398-902 ROLLER 2 MI-31450-190 050300-000 WORM GEAR BOX 1 MI-31450-191 000103-113 CAP SCREW M6*1.0P*50 3 MI-31450-192 320204-000 WORM GEAR 1 MI-31450-194 190008-901 COLLAR 1 MI-31450-201 000103-102 CAP SCREW M6*1.0P*10 2 MI-31450-202 000102-103 CAP SCREW M5*0.8P*10 1 MI-31450-204 003005-206 HEX. NUT 3/8"-16NC*2-1/2" 2 MI-31450-205 051068-000 WHEEL 2 MI-31450-206 009102-200 SCREW 3/8"-16NC(14.2B*11.5H) 2 MI-31450-207 006002-077 FLAT WASHER 10.5*19*1.0t 4 MI-31450-208 17048-008 BRACKET 1 1 MI-31450-210 003003-209 HEX. SCREW 5/16"-18NC*2" 2 MI-31450-211 360009-901 ROD 1 1 MI-31450-212 006002-093 FLA	MI-31450-182	850115-000	EXTENSION WING HARDWARE	M8*1.25P*25	
MI-31450-190 050300-000 WORM GEAR BOX 1 MI-31450-191 000103-113 CAP SCREW M6*1.0P*50 3 MI-31450-192 320204-000 WORM GEAR 1 1 MI-31450-194 190008-901 COLLAR 1 MI-31450-201 000103-102 CAP SCREW M6*1.0P*10 2 MI-31450-202 000102-103 CAP SCREW M5*0.8P*10 1 MI-31450-204 003005-206 HEX. NUT 3/8"-16NC*2-1/2" 2 MI-31450-205 051068-000 WHEEL 2 MI-31450-206 O09102-200 SCREW 3/8"-16NC(14.2B*11.5H) 2 MI-31450-207 006002-077 FLAT WASHER 10.5*19*1.0t 4 MI-31450-208 170486-008 FAD 1 MI-31450-209 170487-008 BRACKET 1 MI-31450-211 360009-901 ROD 1 MI-31450-212 006002-093 FLAT WASHER 13.5*28*2.0t 4 MI-31450-213 010207-000 RETAINING RING ETW-10 2 MI-31450-214 000003-412 HEX. HD. SCREW M8*1.25P*100 1 MI-31450-216 230041-000 FOOT PAD 2 MI-31450-221 006002-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-216 230041-000 FOOT PAD 2 MI-31450-221 006002-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-221 006002-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-222 003033-106 PHILLIPS HD. SCREW M8*1.25P*30 1 MI-31450-224 190007-000 ROLLER MI-31450-225 030304-000 BEARING 6201Z(A) 2 MI-31450-225 030304-000 BEARING 6201Z(A) 2 MI-31450-226 PEDAL ASSY 1 MI-31450-227 050321-008 MOTOR BASE 1 MI-31450-228 KEY 2	MI-31450-188	050299-000	ROLLER SEAT		3
MI-31450-191 000103-113 CAP SCREW M6*1.0P*50 3	MI-31450-189	360398-902	ROLLER		2
MI-31450-192 320204-000 WORM GEAR 1 MI-31450-194 190008-901 COLLAR 1 MI-31450-201 000103-102 CAP SCREW M6*1.0P*10 2 MI-31450-202 000102-103 CAP SCREW M5*0.8P*10 1 MI-31450-204 003005-206 HEX. NUT 3/8"-16NC*2-1/2" 2 MI-31450-205 051068-000 WHEEL 2 MI-31450-206 009102-200 SCREW 3/8"-16NC(14.2B*11.5H) 2 MI-31450-206 009102-200 SCREW 3/8"-16NC(14.2B*11.5H) 2 MI-31450-207 006002-077 FLAT WASHER 10.5*19*1.0t 4 MI-31450-208 170486-008 FAD 1 MI-31450-209 170487-008 BRACKET 1 MI-31450-210 003003-209 HEX. SCREW 5/16"-18NC*2" 2 MI-31450-211 360009-901 ROD 1 MI-31450-212 006002-093 FLAT WASHER 13.5*28*2.0t 4 MI-31450-213 010207-000 RETAINING RING ETW-10 2 MI-31450-215 006001-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-216 230041-000 FOOT PAD 2 MI-31450-2210 00303-106 PHILLIPS HD. SCREW M8*1.25P*30 1 MI-31450-2213 380168-901 SPACER M8*1.25P*30 1 MI-31450-2224 190007-000 ROLLER MI-31450-224 190007-000 ROLLER MI-31450-225 030304-000 BEARING 6201Z(A) 2 MI-31450-226 PEDAL ASSY 1 MI-31450-227 050321-008 MOTOR BASE 1 MI-31450-227 050321-008 MOTOR BASE 1 MI-31450-227 050321-008 MOTOR BASE 1 MI-31450-228 KEY 2	MI-31450-190	050300-000	WORM GEAR BOX		1
MI-31450-194 190008-901 COLLAR 1 MI-31450-201 000103-102 CAP SCREW M6*1.0P*10 2 MI-31450-202 000102-103 CAP SCREW M5*0.8P*10 1 MI-31450-204 003005-206 HEX. NUT 3/8"-16NC*2-1/2" 2 MI-31450-205 051068-000 WHEEL 2 MI-31450-206 O09102-200 SCREW 3/8"-16NC(14.2B*11.5H) 2 MI-31450-207 006002-077 FLAT WASHER 10.5*19*1.0t 4 MI-31450-208 170486-008 FAD 1 MI-31450-209 170487-008 BRACKET 1 MI-31450-201 003003-209 HEX. SCREW 5/16"-18NC*2" 2 MI-31450-210 003003-209 HEX. SCREW 5/16"-18NC*2" 2 MI-31450-211 360009-901 ROD 1 MI-31450-212 006002-093 FLAT WASHER 13.5*28*2.0t 4 MI-31450-213 010207-000 RETAINING RING ETW-10 2 MI-31450-214 000003-412 HEX. HD. SCREW M8*1.25P*100 1 MI-31450-215 006001-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-216 230041-000 FOOT PAD 2 MI-31450-229 048201-204 HEX. HD. SCREW M8*1.25P*30 1 MI-31450-229 048201-204 HEX. HD. SCREW M8*1.25P*30 1 MI-31450-224 190007-000 ROLLER 1 MI-31450-225 030304-000 BEARING 6201Z(A) 2 MI-31450-226 PEDAL ASSY 1 MI-31450-227 050321-008 MOTOR BASE 1 MI-31450-228 KEY 2	MI-31450-191	000103-113	CAP SCREW	M6*1.0P*50	3
MI-31450-201 000103-102 CAP SCREW M6*1.0P*10 2 MI-31450-202 000102-103 CAP SCREW M5*0.8P*10 1 MI-31450-204 003005-206 HEX. NUT 3/8"-16NC*2-1/2" 2 MI-31450-205 051068-000 WHEEL 2 MI-31450-206 009102-200 SCREW 3/8"-16NC(14.2B*11.5H) 2 MI-31450-207 006002-077 FLAT WASHER 10.5*19*1.0t 4 MI-31450-208 170486-008 FAD 1 MI-31450-209 170487-008 BRACKET 1 MI-31450-210 003003-209 HEX. SCREW 5/16"-18NC*2" 2 MI-31450-211 360009-901 ROD 1 MI-31450-212 006002-093 FLAT WASHER 13.5*28*2.0t 4 MI-31450-213 010207-000 RETAINING RING ETW-10 2 MI-31450-214 000003-412 HEX. HD. SCREW M8*1.25P*100 1 MI-31450-215 006001-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-219 048201-204 HEX. HD. SCREW M8*1.25P*30 1 MI-31450-220 00303-106 PHILLIPS HD. SCREW M8*1.25P*30 1 MI-31450-222 000303-106 PHILLIPS HD. SCREW M5*0.8P*16 2 MI-31450-224 19007-000 ROLLER 1 MI-31450-225 03004-000 BEARING G201Z(A) 2 MI-31450-226 PEDAL ASSY 1 MI-31450-227 050321-008 MOTOR BASE 1 MI-31450-228 KEY 2	MI-31450-192	320204-000	WORM GEAR		1
MI-31450-202 000102-103 CAP SCREW M5*0.8P*10 1 MI-31450-204 003005-206 HEX. NUT 3/8"-16NC*2-1/2" 2 MI-31450-205 051068-000 WHEEL 2 MI-31450-206 009102-200 SCREW 3/8"-16NC(14.2B*11.5H) 2 MI-31450-207 006002-077 FLAT WASHER 10.5*19*1.0t 4 MI-31450-208 170486-008 FAD 1 MI-31450-209 170487-008 BRACKET 1 MI-31450-210 003003-209 HEX. SCREW 5/16"-18NC*2" 2 MI-31450-211 360009-901 ROD 1 MI-31450-212 006002-093 FLAT WASHER 13.5*28*2.0t 4 MI-31450-213 010207-000 RETAINING RING ETW-10 2 MI-31450-215 006001-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-216 230041-000 FOOT PAD 2 MI-31450-219 048201-204 HEX. HD. SCREW M8*1.25P*30 1 MI-31450-220 00303-106 PHILLIPS HD. SCREW M8*1.25P*30 1 MI-31450-222 00303-106 PHILLIPS HD. SCREW M5*0.8P*16 2 MI-31450-224 190007-000 ROLLER 1 MI-31450-225 030304-000 BEARING 6201Z(A) 2 MI-31450-226 PEDAL ASSY 1 MI-31450-227 050321-008 MOTOR BASE 1 MI-31450-228 KEY 2	MI-31450-194	190008-901			1
MI-31450-204 003005-206 HEX. NUT 3/8"-16NC*2-1/2" 2 MI-31450-205 051068-000 WHEEL 2 MI-31450-206 009102-200 SCREW 3/8"-16NC(14.2B*11.5H) 2 MI-31450-207 006002-077 FLAT WASHER 10.5*19*1.0t 4 MI-31450-208 170486-008 FAD 1 MI-31450-209 170487-008 BRACKET 1 MI-31450-210 003003-209 HEX. SCREW 5/16"-18NC*2" 2 MI-31450-211 360009-901 ROD 1 MI-31450-212 006002-093 FLAT WASHER 13.5*28*2.0t 4 MI-31450-213 010207-000 RETAINING RING ETW-10 2 MI-31450-214 000003-412 HEX. HD. SCREW M8*1.25P*100 1 MI-31450-215 006001-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-219 048201-204 HEX. HD. SCREW M8*1.25P*30 1 MI-31450-222 000303-106 PHILLIPS HD. SCREW M5*0.8P*16 2	MI-31450-201	000103-102	CAP SCREW	M6*1.0P*10	2
MI-31450-205 051068-000 WHEEL 2 MI-31450-206 009102-200 SCREW 3/8"-16NC(14.2B*11.5H) 2 MI-31450-207 006002-077 FLAT WASHER 10.5*19*1.0t 4 MI-31450-208 170486-008 FAD 1 MI-31450-210 170487-008 BRACKET 1 MI-31450-210 003003-209 HEX. SCREW 5/16"-18NC*2" 2 MI-31450-211 360009-901 ROD 1 MI-31450-212 006002-093 FLAT WASHER 13.5*28*2.0t 4 MI-31450-213 010207-000 RETAINING RING ETW-10 2 MI-31450-214 000003-412 HEX. HD. SCREW M8*1.25P*100 1 MI-31450-215 006001-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-216 230041-000 FOOT PAD 2 MI-31450-229 048201-204 HEX. HD. SCREW M8*1.25P*30 1 MI-31450-223 380168-901 SPACER 1 MI-31450-223 380168-901 SPAC	MI-31450-202	000102-103	CAP SCREW	M5*0.8P*10	
MI-31450-206 009102-200 SCREW 3/8"-16NC(14.2B*11.5H) 2 MI-31450-207 006002-077 FLAT WASHER 10.5*19*1.0t 4 MI-31450-208 170486-008 FAD 1 MI-31450-209 170487-008 BRACKET 1 MI-31450-210 003003-209 HEX. SCREW 5/16"-18NC*2" 2 MI-31450-211 360009-901 ROD 1 MI-31450-212 006002-093 FLAT WASHER 13.5*28*2.0t 4 MI-31450-213 010207-000 RETAINING RING ETW-10 2 MI-31450-214 000003-412 HEX. HD. SCREW M8*1.25P*100 1 MI-31450-215 006001-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-216 230041-000 FOOT PAD 2 MI-31450-219 048201-204 HEX. HD. SCREW M8*1.25P*30 1 MI-31450-223 380168-901 SPACER 1 MI-31450-223 380168-901 SPACER 1 MI-31450-225 030304-000 BEA	MI-31450-204	003005-206	HEX. NUT	3/8"-16NC*2-1/2"	
MI-31450-207 006002-077 FLAT WASHER 10.5*19*1.0t 4 MI-31450-208 170486-008 FAD 1 MI-31450-209 170487-008 BRACKET 1 MI-31450-210 003003-209 HEX. SCREW 5/16"-18NC*2" 2 MI-31450-211 360009-901 ROD 1 MI-31450-212 006002-093 FLAT WASHER 13.5*28*2.0t 4 MI-31450-213 010207-000 RETAINING RING ETW-10 2 MI-31450-214 000003-412 HEX. HD. SCREW M8*1.25P*100 1 MI-31450-215 006001-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-216 230041-000 FOOT PAD 2 MI-31450-219 048201-204 HEX. HD. SCREW M8*1.25P*30 1 MI-31450-222 000303-106 PHILLIPS HD. SCREW M5*0.8P*16 2 MI-31450-223 380168-901 SPACER 1 MI-31450-224 190007-000 ROLLER 1 MI-31450-225 030304-000 BE	MI-31450-205	051068-000	WHEEL		2
MI-31450-208 170486-008 FAD 1 MI-31450-209 170487-008 BRACKET 1 MI-31450-210 003003-209 HEX. SCREW 5/16"-18NC*2" 2 MI-31450-211 360009-901 ROD 1 MI-31450-212 006002-093 FLAT WASHER 13.5*28*2.0t 4 MI-31450-213 010207-000 RETAINING RING ETW-10 2 MI-31450-214 000003-412 HEX. HD. SCREW M8*1.25P*100 1 MI-31450-215 006001-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-216 230041-000 FOOT PAD 2 MI-31450-219 048201-204 HEX. HD. SCREW M8*1.25P*30 1 MI-31450-222 000303-106 PHILLIPS HD. SCREW M5*0.8P*16 2 MI-31450-223 380168-901 SPACER 1 MI-31450-224 190007-000 ROLLER 1 MI-31450-225 030304-000 BEARING 6201Z(A) 2 MI-31450-226 PEDAL ASSY 1	MI-31450-206	009102-200	SCREW	3/8"-16NC(14.2B*11.5H)	
MI-31450-209 170487-008 BRACKET 1 MI-31450-210 003003-209 HEX. SCREW 5/16"-18NC*2" 2 MI-31450-211 360009-901 ROD 1 MI-31450-212 006002-093 FLAT WASHER 13.5*28*2.0t 4 MI-31450-213 010207-000 RETAINING RING ETW-10 2 MI-31450-214 000003-412 HEX. HD. SCREW M8*1.25P*100 1 MI-31450-215 006001-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-216 230041-000 FOOT PAD 2 MI-31450-219 048201-204 HEX. HD. SCREW M8*1.25P*30 1 MI-31450-222 000303-106 PHILLIPS HD. SCREW M5*0.8P*16 2 MI-31450-223 380168-901 SPACER 1 MI-31450-224 190007-000 ROLLER 1 MI-31450-225 030304-000 BEARING 6201Z(A) 2 MI-31450-226 PEDAL ASSY 1 MI-31450-228 KEY 2	MI-31450-207	006002-077	FLAT WASHER	10.5*19*1.0t	4
MI-31450-210 003003-209 HEX. SCREW 5/16"-18NC*2" 2 MI-31450-211 360009-901 ROD 1 MI-31450-212 006002-093 FLAT WASHER 13.5*28*2.0t 4 MI-31450-213 010207-000 RETAINING RING ETW-10 2 MI-31450-214 000003-412 HEX. HD. SCREW M8*1.25P*100 1 MI-31450-215 006001-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-216 230041-000 FOOT PAD 2 MI-31450-219 048201-204 HEX. HD. SCREW M8*1.25P*30 1 MI-31450-222 000303-106 PHILLIPS HD. SCREW M5*0.8P*16 2 MI-31450-223 380168-901 SPACER 1 MI-31450-224 190007-000 ROLLER 1 MI-31450-225 030304-000 BEARING 6201Z(A) 2 MI-31450-226 PEDAL ASSY 1 MI-31450-228 KEY 2	MI-31450-208	170486-008	FAD		1
MI-31450-211 360009-901 ROD 1 MI-31450-212 006002-093 FLAT WASHER 13.5*28*2.0t 4 MI-31450-213 010207-000 RETAINING RING ETW-10 2 MI-31450-214 000003-412 HEX. HD. SCREW M8*1.25P*100 1 MI-31450-215 006001-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-216 230041-000 FOOT PAD 2 MI-31450-219 048201-204 HEX. HD. SCREW M8*1.25P*30 1 MI-31450-222 000303-106 PHILLIPS HD. SCREW M5*0.8P*16 2 MI-31450-223 380168-901 SPACER 1 MI-31450-224 190007-000 ROLLER 1 MI-31450-225 030304-000 BEARING 6201Z(A) 2 MI-31450-226 PEDAL ASSY 1 MI-31450-228 KEY 2	MI-31450-209	170487-008	BRACKET		1
MI-31450-212 006002-093 FLAT WASHER 13.5*28*2.0t 4 MI-31450-213 010207-000 RETAINING RING ETW-10 2 MI-31450-214 000003-412 HEX. HD. SCREW M8*1.25P*100 1 MI-31450-215 006001-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-216 230041-000 FOOT PAD 2 MI-31450-219 048201-204 HEX. HD. SCREW M8*1.25P*30 1 MI-31450-222 000303-106 PHILLIPS HD. SCREW M5*0.8P*16 2 MI-31450-223 380168-901 SPACER 1 MI-31450-224 190007-000 ROLLER 1 MI-31450-225 030304-000 BEARING 6201Z(A) 2 MI-31450-226 PEDAL ASSY 1 MI-31450-227 050321-008 MOTOR BASE 1 MI-31450-228 KEY 2	MI-31450-210	003003-209	HEX. SCREW	5/16"-18NC*2"	2
MI-31450-213 010207-000 RETAINING RING ETW-10 2 MI-31450-214 000003-412 HEX. HD. SCREW M8*1.25P*100 1 MI-31450-215 006001-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-216 230041-000 FOOT PAD 2 MI-31450-219 048201-204 HEX. HD. SCREW M8*1.25P*30 1 MI-31450-222 000303-106 PHILLIPS HD. SCREW M5*0.8P*16 2 MI-31450-223 380168-901 SPACER 1 MI-31450-224 190007-000 ROLLER 1 MI-31450-225 030304-000 BEARING 6201Z(A) 2 MI-31450-226 PEDAL ASSY 1 MI-31450-227 050321-008 MOTOR BASE 1 MI-31450-228 KEY 2	MI-31450-211	360009-901			1
MI-31450-214 000003-412 HEX. HD. SCREW M8*1.25P*100 1 MI-31450-215 006001-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-216 230041-000 FOOT PAD 2 MI-31450-219 048201-204 HEX. HD. SCREW M8*1.25P*30 1 MI-31450-222 000303-106 PHILLIPS HD. SCREW M5*0.8P*16 2 MI-31450-223 380168-901 SPACER 1 MI-31450-224 190007-000 ROLLER 1 MI-31450-225 030304-000 BEARING 6201Z(A) 2 MI-31450-226 PEDAL ASSY 1 MI-31450-227 050321-008 MOTOR BASE 1 MI-31450-228 KEY 2	MI-31450-212	006002-093	FLAT WASHER	13.5*28*2.0t	4
MI-31450-215 006001-045 FLAT WASHER 8.5*16*1.0t 2 MI-31450-216 230041-000 FOOT PAD 2 MI-31450-219 048201-204 HEX. HD. SCREW M8*1.25P*30 1 MI-31450-222 000303-106 PHILLIPS HD. SCREW M5*0.8P*16 2 MI-31450-223 380168-901 SPACER 1 MI-31450-224 190007-000 ROLLER 1 MI-31450-225 030304-000 BEARING 6201Z(A) 2 MI-31450-226 PEDAL ASSY 1 MI-31450-227 050321-008 MOTOR BASE 1 MI-31450-228 KEY 2	MI-31450-213	010207-000	RETAINING RING	ETW-10	2
MI-31450-216 230041-000 FOOT PAD 2 MI-31450-219 048201-204 HEX. HD. SCREW M8*1.25P*30 1 MI-31450-222 000303-106 PHILLIPS HD. SCREW M5*0.8P*16 2 MI-31450-223 380168-901 SPACER 1 MI-31450-224 190007-000 ROLLER 1 MI-31450-225 030304-000 BEARING 6201Z(A) 2 MI-31450-226 PEDAL ASSY 1 MI-31450-227 050321-008 MOTOR BASE 1 MI-31450-228 KEY 2	MI-31450-214	000003-412	HEX. HD. SCREW		
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MI-31450-222 000303-106 PHILLIPS HD. SCREW M5*0.8P*16 2 MI-31450-223 380168-901 SPACER 1 MI-31450-224 190007-000 ROLLER 1 MI-31450-225 030304-000 BEARING 6201Z(A) 2 MI-31450-226 PEDAL ASSY 1 MI-31450-227 050321-008 MOTOR BASE 1 MI-31450-228 KEY 2	MI-31450-216	230041-000			2
MI-31450-223 380168-901 SPACER 1 MI-31450-224 190007-000 ROLLER 1 MI-31450-225 030304-000 BEARING 6201Z(A) 2 MI-31450-226 PEDAL ASSY 1 MI-31450-227 050321-008 MOTOR BASE 1 MI-31450-228 KEY 2					
MI-31450-224 190007-000 ROLLER 1 MI-31450-225 030304-000 BEARING 6201Z(A) 2 MI-31450-226 PEDAL ASSY 1 MI-31450-227 050321-008 MOTOR BASE 1 MI-31450-228 KEY 2		000303-106		M5*0.8P*16	
MI-31450-225 030304-000 BEARING 6201Z(A) 2 MI-31450-226 PEDAL ASSY 1 MI-31450-227 050321-008 MOTOR BASE 1 MI-31450-228 KEY 2					1
MI-31450-226 PEDAL ASSY 1 MI-31450-227 050321-008 MOTOR BASE 1 MI-31450-228 KEY 2	MI-31450-224	190007-000	ROLLER		
MI-31450-227 050321-008 MOTOR BASE 1 MI-31450-228 KEY 2		030304-000		6201Z(A)	2
MI-31450-228 KEY 2					
		050321-008	MOTOR BASE		
MI-31450-229 171404-904 SWITCH BOARD 5HP*220V-240V*1PH 1			::		2
	MI-31450-229	171404-904	SWITCH BOARD	5HP*220V-240V*1PH	1