

**The Book of the**



**MINOR  
LAWN MOWER**









# J·P MINOR II" LAWNMOWER

INSTRUCTIONS TO USER



**THE J·P ENGINEERING CO. LTD.**

*Manufacturers of J·P Super Lawnmowers.*

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# **MINOR II " J • P LAWNMOWER**

## **SECTION A.**

### **STARTING PREPARATION**

#### **1.—CUTTER SETTING ADJUSTMENT**

Adjust the shear blade to the rotary cutter by moving the black headed adjusting lever in the direction towards the rear roller, as far as it will go as permitted by the cutter setting stop; this will bring the bottom blade into a light audible contact with the rotary cutter which is the correct adjustment for cutting.

#### **2.—ADJUSTMENT FOR CLOSE TO MEDIUM CUTTING**

This adjustment is made by the front axle handwheel, and after unscrewing this for a turn, adjustment can be made to any position in the traverse slot of the bracket. The adjustment should not be set too low when dealing with a heavy crop or when mowing the lawn at the early part of the season.

As the ground gets harder, the adjustment may be set further back and the machine will cut to a very close finish.

After making adjustment, rescrew the handwheel tight.

#### **3.—FIXING THE GRASSBOX**

To fix the Grassbox into position, insert the two metal wings on the grassbox between the side frames at the front of the machine, then lower the box until the front tips of the wings rest underneath the cutter bearing housings and the slotted or radius shape of the wing rests on the front tie bar.

#### **4.—MOWING**

When mowing push down in the direction of the rear roller and not on to the front rollers; this will facilitate ease of movement in the working of the machine.



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## SECTION B.

### LUBRICATION

The following oiling points on the machine should receive frequent attention when the machine is in use:—

#### **1.—DRIVING CHAINS** (Medium Grade Oil, every month)

The driving chains are lubricated by applying oil through the two oil covers seen provided on the top of the transmission cover.

#### **2.—FRONT ROLLERS** (Medium Grade Oil, every week)

Lubricate the front axle and rollers by applying oil at the space provided between each roller.

To assist the feed of oil, tip the machine on each side at the same time turn the rollers.

#### **3.—THE ROTARY CUTTER & REAR AXLE BALL RACES** (Medium Grade Oil, every month)

The Rotary Cutter and Rear Axle ball races are lubricated by first removing the transmission cover from one side which makes the bearings accessible, and on the opposite side there is a small oil hole on the top of each domed bearing cover where oil should be applied.

NOTE: Always use a good grade of machine oil. J.P. quality, specially refined is obtainable from all stockists, in pint tins, or direct from us.

## SECTION C.

### ADJUSTMENTS

Reference in the instructions to left or right hand side of the machine is always understood to be taken when standing in the working position.

#### **1.—CUTTER SETTING STOP**

The machine is fitted with a cutter setting stop, and the feature of the stop is a great assistance insofar that after the mowing is completed, the cutting contact of the shear blade and rotary cutter can be released by moving the black headed lever forward away from the rear roller; subsequently when the machine is to be used again, it is only necessary to move the black headed adjusting lever as far as it will go up to the setting stop, which will bring the cutter setting in the pre-adjusted position.



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**Special note:** On any future occasion of the cutters being re-ground, or the machine dismantled, it is important to see that the cutter setting stop is re-adjusted and the procedure should be as follows:—

1. First unscrew the locking nut of the setting stop screw a couple of turns to release the stop and make it free on the tube.
2. Now set the bottom shear blade parallel to the rotary cutter (Please refer to instructions, reference Parallelism of cutters).
3. Adjust the bottom shear blade to a **light audible contact** with the rotary cutter by moving the black headed lever in the direction of the rear roller.
4. With the cutters adjusted to a **light audible contact**, the cutter setting stop should be rotated and positioned so that the bottom end of the stop contacts up against the back of the knife frame. The lock nut and screw should then be tightened securely in position. A light audible contact between the rotary cutter and the shear blade will give the best cutting results. Too harsh a contact will only cause unnecessary wear and make the machine harder to push.

## 2.—PARALLELISM OF CUTTERS

The machine is set and inspected before despatch to cut equally along the whole length of the rotary cutter when the contact adjustment with the bottom shear blade is made, and no attention to correct any mis-alignment should be necessary unless the machine has been dismantled or subjected to excessive shock or through fouling an obstruction.

Out of alignment of the bottom shear blade with the rotary cutter can be corrected by the following adjustment.

On the side of the right hand small frame will be seen the lever adjuster through which passes the knife frame tie bar. The locking nut should be unscrewed for a couple of turns, this will release the tie bar which can then be moved up or down by raising or lowering the adjusting lever, and this will enable the shear blade to be set parallel to the rotary cutter.

To ensure that the adjustment has been made correctly, the setting should be tested with a strip of ordinary brown paper by cutting from end to end on each blade of the rotary cutter.

The cutting test should be made with the shear blade adjusted to a light audible contact with the rotary cutter, ref. paragraph 1—4. Cutter Setting Stop. After adjustment tighten up the adjusting lever lock nut securely.



### 3.—TENSION OF THE BLACK HEADED LEVER ADJUSTER

The tension of the black headed lever adjuster for bringing the bottom blade into contact with the rotary cutter, is controlled by the two front screws of the knife frame straps which hold the adjuster in position. The two screws at the back of the straps **should always be as tight as possible**, but the two front screws under which there is a rubber tension washer, should be sufficiently tight to ensure that the adjuster moves under reasonable tight tension. The correct tension adjustment is important as it ensures against any disturbance of the cutter setting through vibration.

### 4.—CHAIN ADJUSTMENT

First remove the transmission cover. The driving chains can then be adjusted by highering or lowering the centre intermediate sprocket. Unscrew for a turn, the intermediate sprocket spindle nut seen on the inside of the left hand side frame. The intermediate sprocket can then be highered or lowered in the slot in the side frame.

Do not adjust the chains too tight as this will cause stretch, unnecessary wear and restrict the free movement of the machine. A correctly adjusted chain should always have a little slackness. Screw spindle nut up tight after adjustment.

### 5.—HANDLEBARS

The Handlebars can be adjusted to a higher or lower position by unscrewing for a couple of turns the outside nut of the rear tie bar which screws up to the slot of the handlebar strut. Tighten nuts securely after adjustment.

### 6.—CLEANING

Upon completion of the mowing, clean the machine with a dry brush and rag, **never use water**.

To preserve the edges of the rotary cutter and shear blade, these should be wiped with an oily rag.

Care should be exercised when cleaning to keep the fingers clear of the bottom shear blade and the rotary cutter.



## AFTER SERVICE AND INSTRUCTIONS FOR ORDERING SPARE PARTS

1. We have available a first-class overhaul and repair Service Department, fully equipped with modern facilities. Consult your Dealer with regard to your requirements, or, in case of difficulty, contact us direct.

Always see that the machines and cutters returned for overhaul and regrinding are properly packed and labelled with the name and address of the sender securely attached.

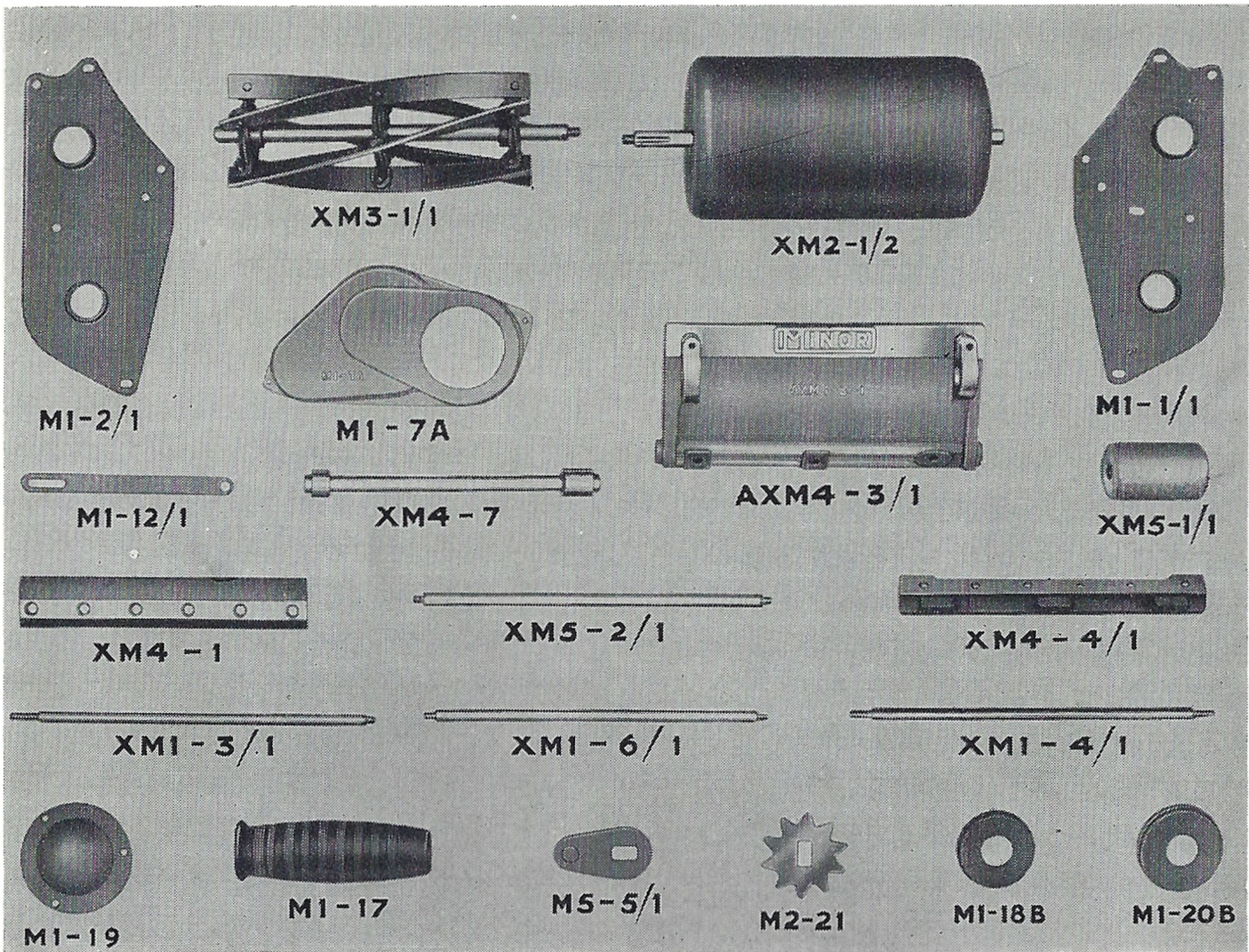
On request, we will despatch a crate to you in which the machine can be packed for return to our works for overhaul and service attention.

2. The main parts are illustrated and the comprehensive list of components is quoted with the respective part numbers. Always give part numbers and description in full.
3. When ordering spare parts, always quote the number of the machine, which will be seen stamped at the front on the outside of the left hand side frame; it is important that the prefix letters and the serial number reference are quoted in full to ensure that the correct parts are despatched. Always quote the machine number in correspondence.
4. All machines and component parts must be consigned to us, carriage paid, addressed to the "Service Department." Old and worn out parts sent as patterns which we consider are obsolete and of no further use are not returned unless we are specially requested to do so at the time they are sent to us.
5. If required, we are prepared to submit an estimate before proceeding with any repairs.
6. Estimates must be treated as approximate only. We reserve the right to include additional parts should they be found necessary on further examination to make the repair a satisfactory job.

J.P. Lawnmowers are fully guaranteed for replacement of any part against failure proved to be due to faulty material or workmanship.



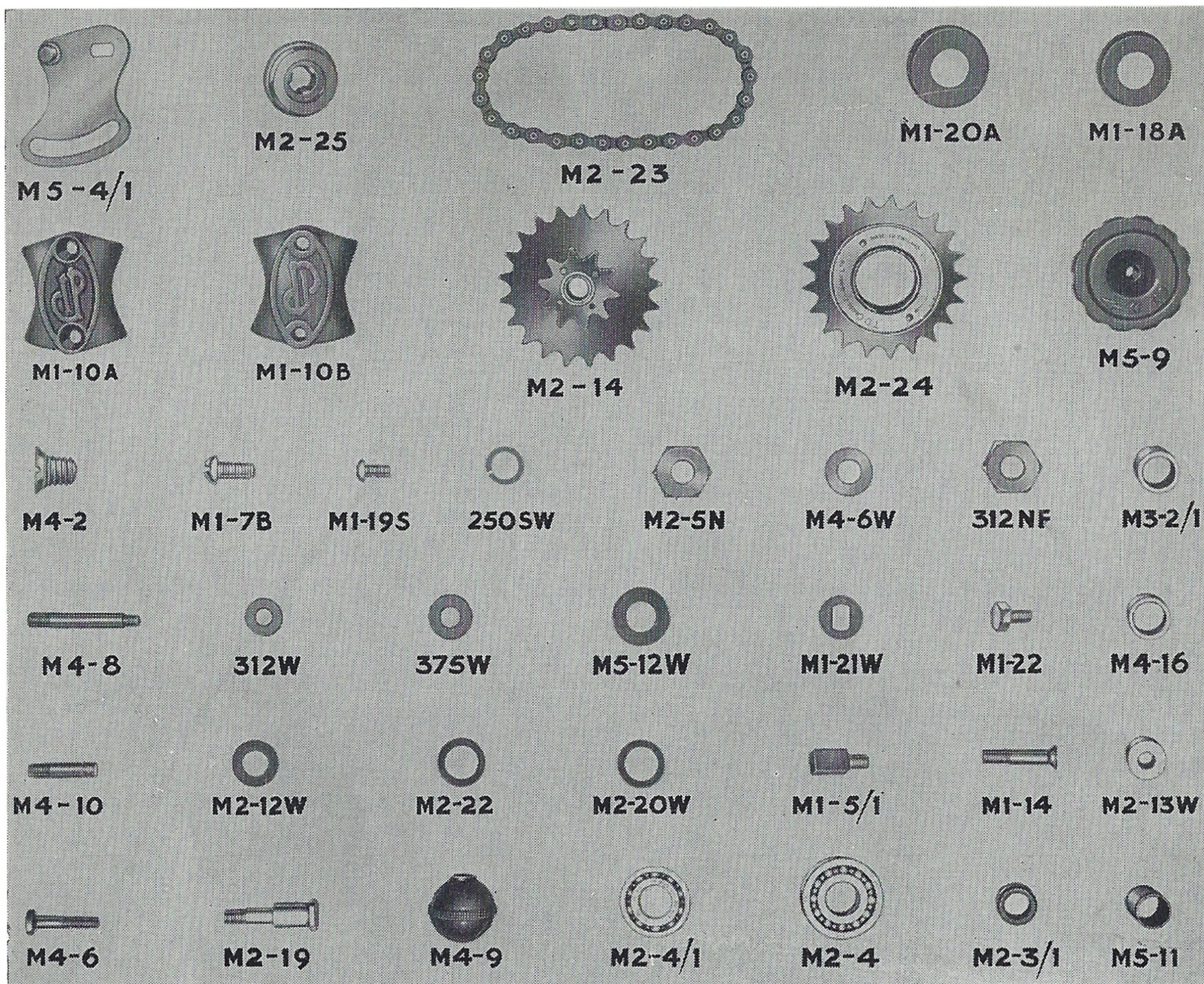
# PARTS LIST



M1-1/1	Side Frame Left Hand	M1-18A	Rear Axle Ball Race Cover Left Hand
M1-2/1	Side Frame Right Hand	M1-18B	Rear Axle Ball Race Cover Right Hand
XM1-3/1	Front Tie Bar	M1-19	Domed Cover Cap
XM1-4/1	Rear Tie Bar	M1-19S	Domed Cover Cap Screw
M1-5/1	Knife Frame Pivot	M1-20A	Cutter Ball Race Cover Left Hand
XM1-6/1	Top Tie Bar	M1-20B	Cutter Ball Race Cover Right Hand
M1-7A	Transmission Cover	M1-21W	Tie Bar Washer
M1-7B	Transmission Cover Screw	M1-22	Handlebar Pivot Bolt
M1-7C	Transmission Cover Oiler	XM2-1/2	Rear Drum (Complete)
M1-7D	Transmission Cover Oiler Rivet	M2-3/1	Spacing Collar
XM1-9A/1	Handlebar Left Hand	M2-4	Cutter Ball Race
XM1-9B/1	Handlebar Right Hand	M2-4/1	Rear Axle Ball Race
M1-10A	Handlebar Clip Countersunk	M2-5N	Cutter and Rear Axle Nut
M1-10B	Handlebar Clip Plain	M2-12W	Inter Sprocket Washer
M1-12/1	Handlebar Strut	M2-13W	Inter Sprocket Spacing Collar
M1-14	Handlebar Clip Bolt		
M1-15	Handlebar Strut Rivet		
M1-16W	Handlebar Strut Washer		
M1-17	Handlebar Grip		



# PARTS LIST Cont'd



M2-14	Combined Intermediate Sprocket	XM4-7	Adjuster Tube
M2-19	Inter Sprocket Stud	M4-8	Adjusting Handle
M2-20W	Cutter Sprocket Spacing Washer	M4-9	Adjusting Knob
M2-21	Cutter Sprocket	M4-10	Carrier Stud
M2-22	Cutter Washer	H4-12A	Cutter Setting Stop (Lower Half)
M2-23	Driving Chain	H4-12B	Cutter Setting Stop (Upper Half)
M2-24	Free Wheel	M4-16	Spacing Collar
M2-25	Free Wheel Sleeve	M4-19	Cutter Alignment Lever
XM3-1/1	Rotary Cutter	XM5-1/1	Front Roller
M3-2/1	Spacing Collar	XM5-2/1	Front Axle Shaft
XM4-1	Shear Blade	M5-4/1	Adjuster Arm
M4-2	Shear Blade Screw	M5-5/1	Crank Arm
AXM4-3/1	Knife Frame	M5-9	Hand Wheel
XM4-4/1	Shear Blade Carrier	M5-11	Front Roller Spacer
M4-6	Locking Bolt	M5-12W	Front Axle Washer
M4-6W	Packing Washer	XM6-0/1	Grassbox

Always use genuine J.P. spare parts and when ordering always be sure to quote the *size of machine* (i.e. width of cutter) and machine number stamped on side frame.







