

Troubleshooting RK-2

Problem: Wheel head speeds up automatically; Pedal walking/slipping;
Pedal must be depressed far before wheel head turns

Solution: Adjust power, if drive ring needs replacing adjust power after replacement.

Power Adjustment

Pressure between drive ring and cone is initially adjusted to insure satisfactory performance. After a few years of extensive use, however, readjustment may become necessary. In this case, follow the instructions below.

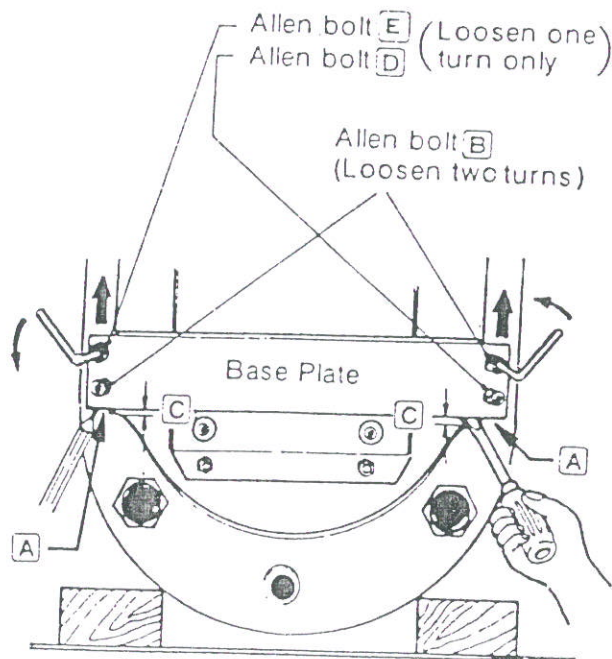


Fig. 13

1. Place the wheel as shown in Fig. 13.
2. Mark **A** with a pencil.
3. Loosen Allen bolt **B** two turns with Allen wrench.
4. Insert screwdriver at **C** to hold base-plate from slipping.
5. Loosen bolt **D** one turn.
6. Slide base-plate up $1/16''$ apart from mark **A** in step-1. Retighten bolt **D** after this is completed.
7. Follow same procedures in steps-3, 4, 5, but with bolt **E** instead of **D**.
8. Retighten all bolts.

Note: Do not slide base-plate unequal amount.

If unequally adjusted, speed control pedal may move itself and change speeds when you remove your foot from the pedal.

ADJUSTMENT FOR INCREASING TORQUE

In order to achieve the maximum amount of torque from a Shimpo RK-2 Basic Wheel it is necessary that the drive cone be exactly perpendicular to the drive ring.

In order to achieve this perpendicular state you must adjust the base plate on which the motor is sitting. If the base plate has been moved then it is not holding the motor with its attached cone exactly perpendicular to the drive ring.

To adjust the base plate simple loosen the bolts holding the plate stationary so that you can move the plate. Slide the plate either forwards or backwards, whichever direction that will align the motor and its cone into its proper position. It should only be necessary to move the plate about a quarter of an inch in either direction to achieve this. (Unless, of course, it has either been severely jarred or moved out of its original alignment and not out of alignment due to normal use and operation).

Once you have adjusted the base plate check to make sure the cone is perpendicular and that the "cone breaking point" is resting on the drive ring with a slight amount of pressure. If this has been achieved then tighten the bolts to hold in this position.

Please refer to the attached diagrams.

Shimpo-West, Inc.
2-15-82

HOW TO ALIGN BOTH PULLEYS

Fig. (1) If large pulley is above the small pulley, install washer at place (A).

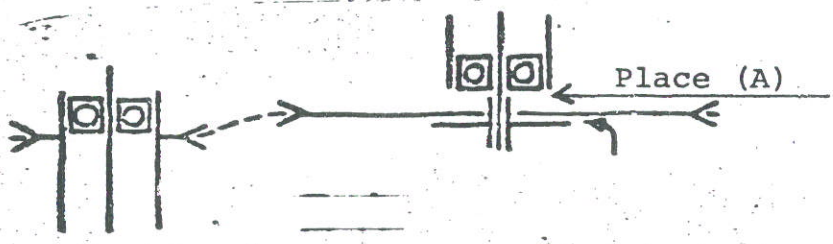
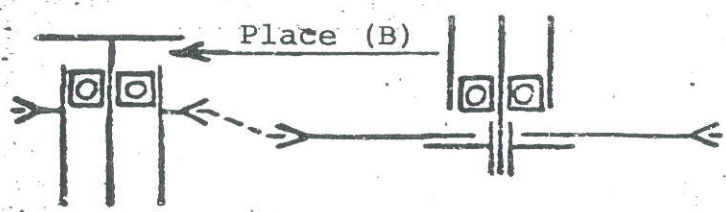
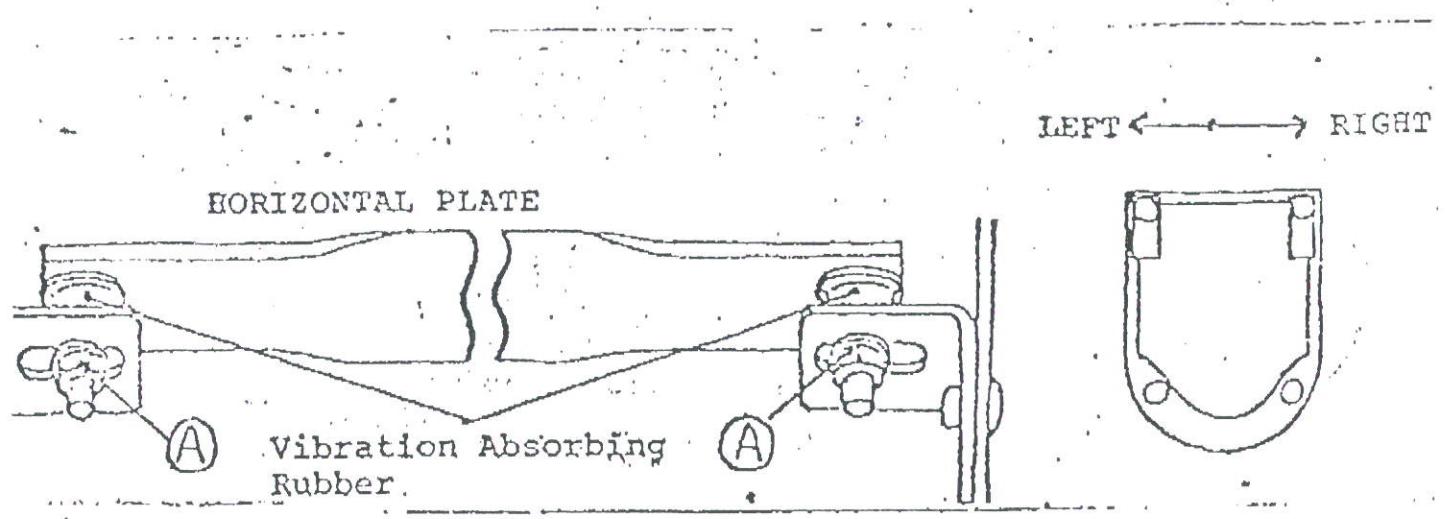


Fig. (2) If small pulley is above large pulley, install washer at place (B).



NOTE: You can check the alignment of the pulleys by observing it through the hole on the body, covered by the rubber handle.

ADJUSTMENT FOR FOOT PEDAL SLIPPAGE ON MODEL
RK-2 & RK-2 SUPER



ROTATION OF WHEEL HEAD	FOOT PEDAL SLIPS AT:	DIRECTION OF ADJUSTMENT
CLOCKWISE	HIGH SPEED	RIGHT
CLOCKWISE	LOW SPEED	LEFT
COUNTER-CLOCKWISE	HIGH SPEED	LEFT
COUNTER-CLOCKWISE	LOW SPEED	RIGHT

NOTE:

- 1) LOOSEN BOTH NUTS (A) HOLDING THE VIBRATION ABSORBING RUBBERS.
- 2) ADJUST BY MOVING HORIZONTAL PLATE TOWARD RIGHT OR LEFT.
- 3) TIGHTEN BOTH NUTS (A).
- 4) CHECK WHETHER LEVER OR PEDAL IS STILL SLIPPING WITHOUT WHEEL HEAD TURNING.
- 5) IF LEVER OR PEDAL IS STILL SLIPPING, YOUR ADJUSTMENT IS NOT ENOUGH. TRY ABOVE MENTIONED FROM ITEM (1) TO ITEM (4) AGAIN.

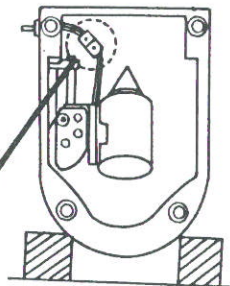
W...

HOW TO CHANGE DIRECTION OF ROTATION

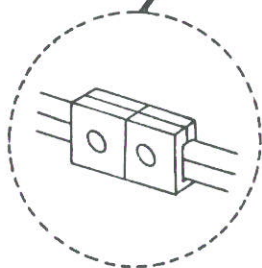
Clockwise rotation is possible if you require.

To do this:

1. Place pedal to "STOP" position and SWITCH OFF.
2. Set the wheel on end as shown in Draw. No. 3.
3. Change the connection of wires as follows:

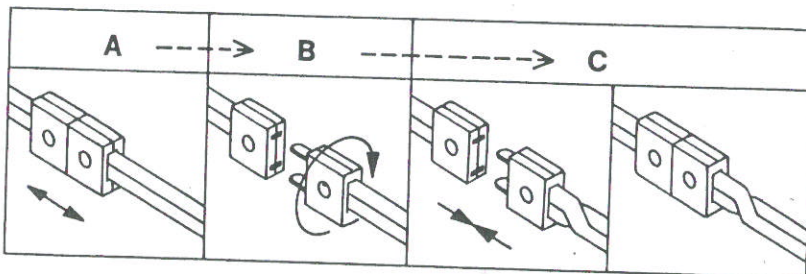


DRAW. No. 3



Wire connector; controls the direction of rotation

PROCEDURE: A → C



SW SALES TOOL

REF #

SW - RK - 018

PAGE

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TITLE

STRANGE NOISE OF RK-
Z
ZB
ZC

ISSUE DATE

Z / Z4 / 94

MADE BY

High pitched squeal on
low speed position

Tapping sounds on
all speed position

Replace Ring

HIGH PITCH SQUEAL WHEN MOTOR ONLY
IS ON; NEEDS NEW MOTOR

NOISE RK-2 Series

High Squeal
Humming Sound
Thumping Sound

Replace Drive Ring

The thumping sound occurs because the cone is resting on the drive ring when the wheel is not in use. This causes an indentation in the drive ring.

Please make sure to push the pedal with your heel as far back as it will go when you finish working.

If you still have a problem adjust cone to drive ring (see attached sheet).

If the wheel is run approx. 20 minutes, any indentation should disappear.

VIBRATE /BINDING

Problem: At medium or high speed, intermittent binding causes top surface to jump

Tips forward and back - not every revolution

Solution:

1. Tighten or replace V Belt
2. May need new bearings.

If it vibrates in neutral: check for loose nuts and bolts.

If it vibrates while in use: may need new drive ring

If model is RK-2C: Replace non-vibration rubbers

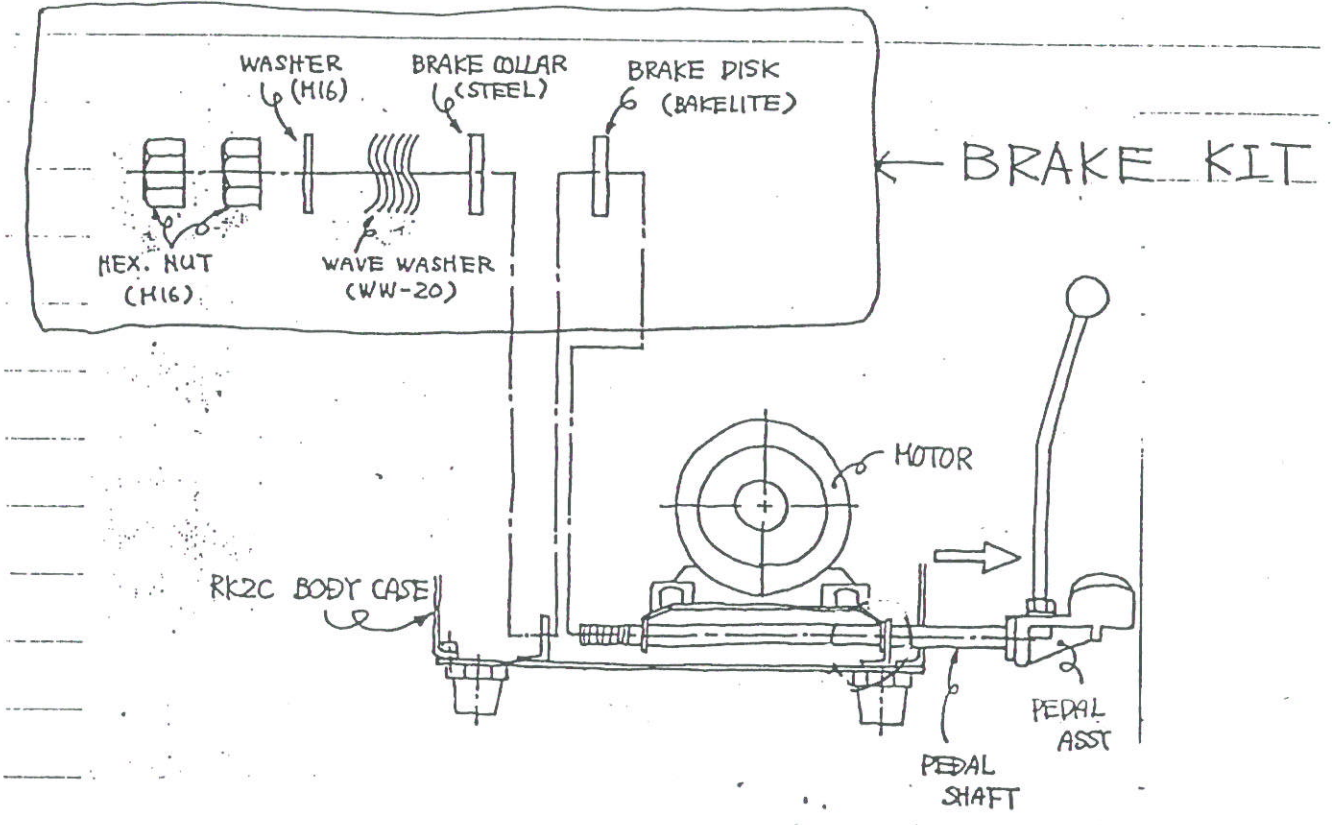
VOLTAGE

If voltage is 208V, use 220V

Voltage is $\pm 10 - 15\%$

Problem: Wheel speeds up automatically

Solution: Check BRAKE KIT for loose or broken parts



SW SALES TOOL

REF #

SW - RK-026

PAGE

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TITLE

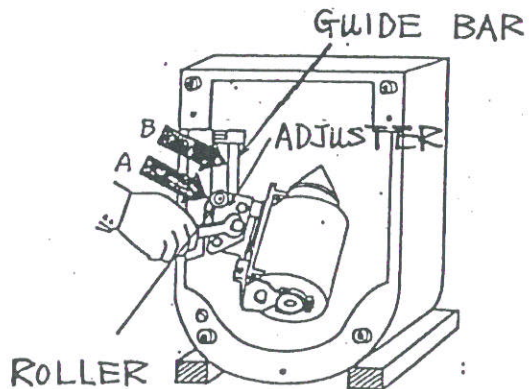
LUBRICATION FOR RK-2, 2B, 2C

ISSUE DATE

4 / 22 / 94

MADE BY

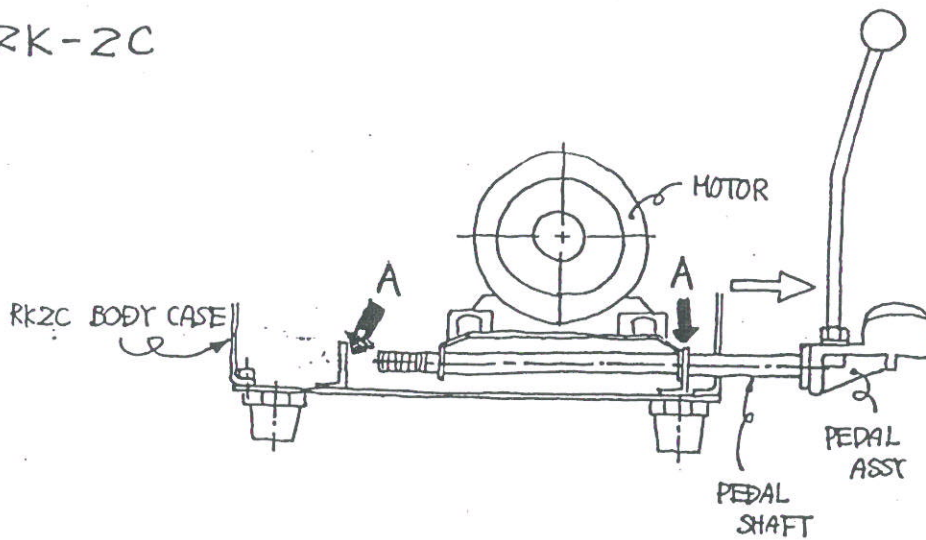
1. RK-2, RK-2B



A: Add grease on ROLLER each year.

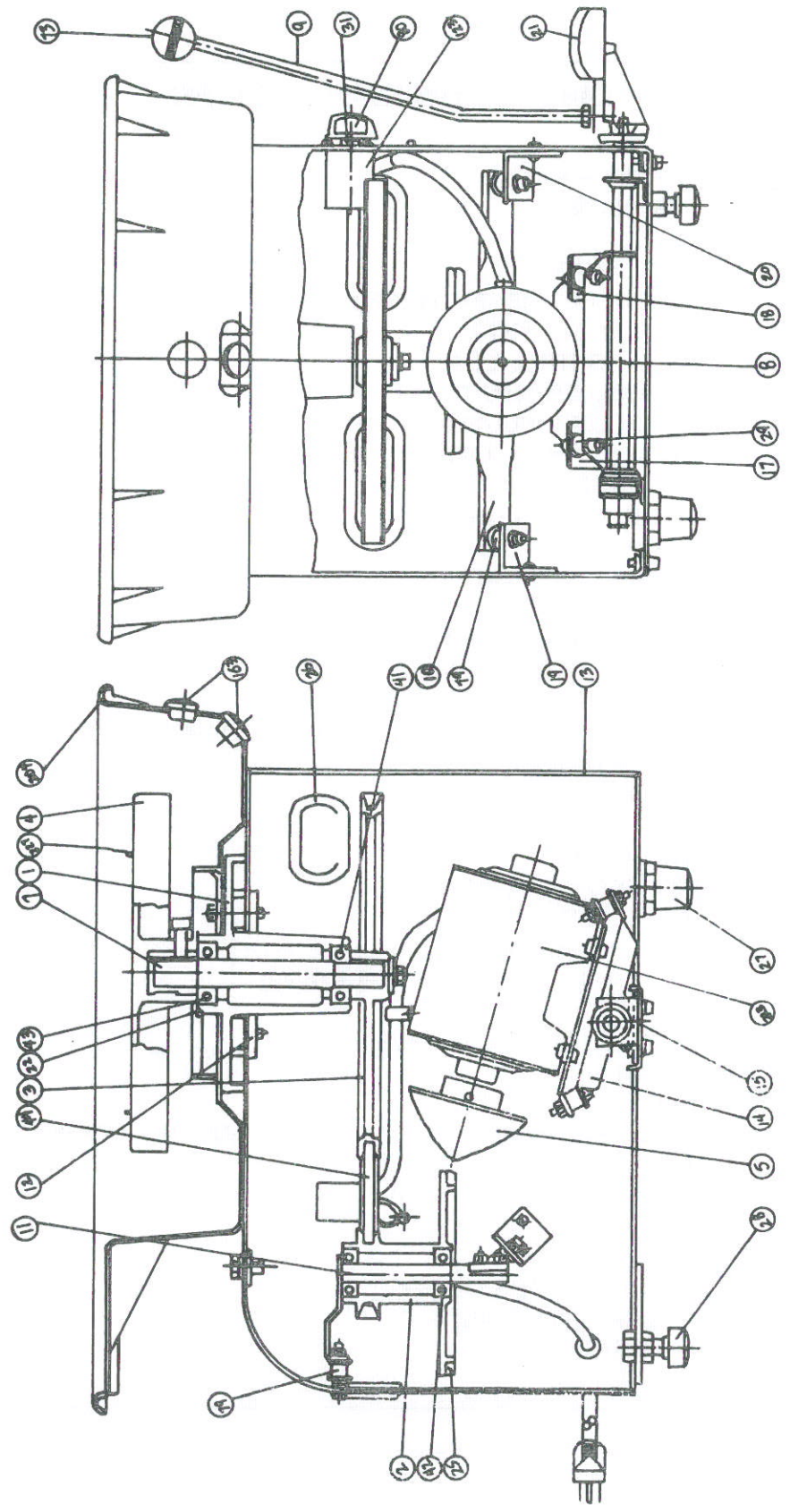
B: Add grease on GUIDE BAR when Pedal does not work well.

2. RK-2C



A: Add grease when Pedal does not work well.

SHIMPO-WEST POTTERS WHEEL
MODEL RK-2 BASIC & SUPER



PRE 1981 - 1 PC PAN
1981 UP - 2 PC PAN

V-BELT PRE 1975 - A-42 (42")
V-BELT 1975 UP - A-44 (44")

PRE 1975 SMALL DRIVE RING
4 3/4"

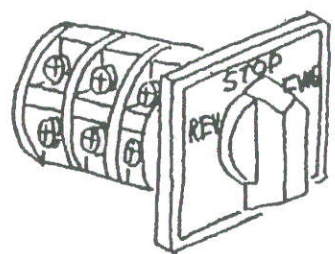
AFTER 1975 LARGE DRIVE RING
6 1/2"

PARTS LIST FOR MODEL RK-2 BASIC

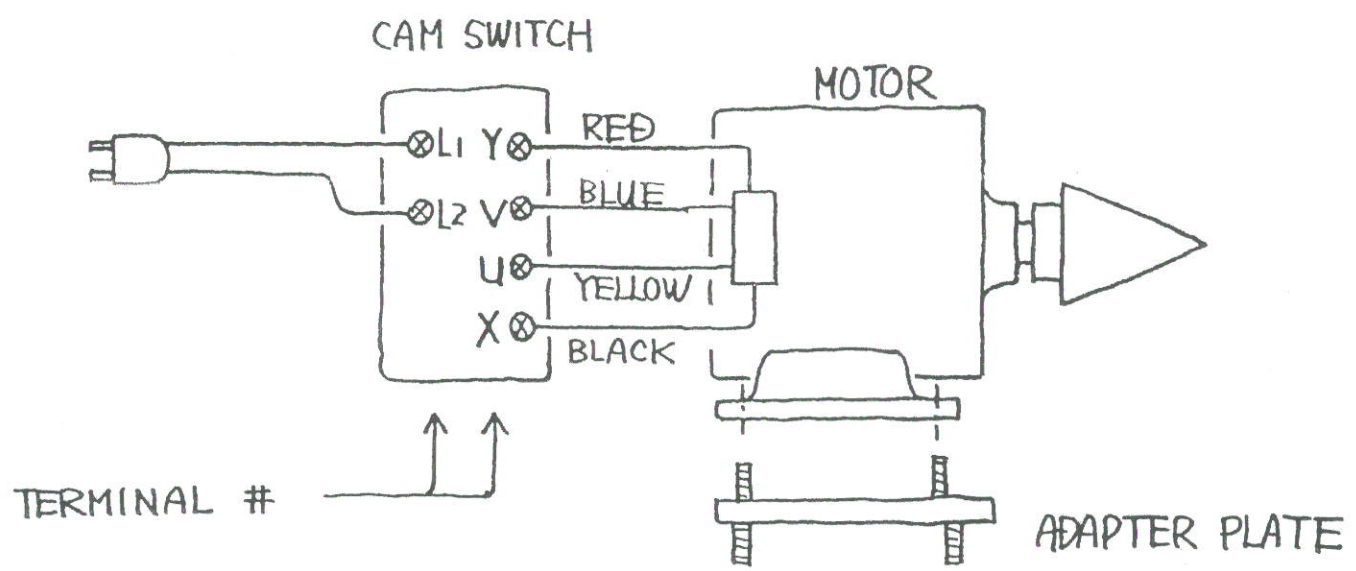
1. BEARING HOLDER
2. RING HOLDER
3. PULLEY
4. WHEEL HEAD
5. DRIVE CONE PRE 1975 MODEL
7. WHEEL HEAD SHAFT
9. SPEED CONTROL LEVER
10. RING HOLDER SHAFT
11. RING HOLDER HOUSING SUPPORT
12. BELT TENSION ADJUSTMENT PLATE
13. BODY CASE
15. BASE PLATE ASSEMBLY
17. MOTOR PLATE LEFT
18. MOTOR PLATE RIGHT
19. SUPPORT BRACKET LEFT
20. SUPPORT BRACKET RIGHT
21. SPEED CONTROL PANEL
22. DUST COVER
25. DRIVE RING 6 3/4" DIA. PRE 1975 MODELS (A-42)
26. RUBBER HANDLE
27. STATIONARY FOOT
28. ADJUSTABLE FOOT
31. SWITCH BUSH
41. BALL BEARING (6204ZZ) *BOTTOM OF WHEELHEAD SHAFT*
42. BALL BEARING (6203ZZ) *DRIVE RING HOUSING*
43. BALL BEARING (6205DD) *TOP OF WHEEL HEAD SHAFT*
44. V-BELT (A-44) PRE 1975 MODELS (A-42)
73. GRIP KNOB
79. VIBRATION ABSORBING RUBBER
80. SWITCH KNOB
91. HORIZONTAL PLATE
103. 2-PIECE SPLASH PAN 1-PIECE SPLASH PAN PRE 1975 MODELS
123. CAM SWITCH
163. RUBBER SPLASH PAN PLUG
223. MOTOR 1/4 HP FOR BASIC
227. BAT PIN WITH NUT
- MOTOR 1/8 HP FOR SUPER
- OTHERS BRAKE ASSEMBLY KIT
- SPLASH PAN CLIP

MOTOR ADAPTOR PLATE 2900
PRE 1975 MUST HAVE
2YA3000

RK-2 WIRING DIAGRAM

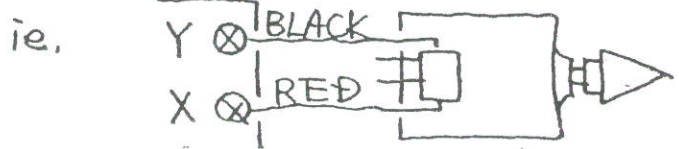


CAM SWITCH
AK-AB-33P4
MITSUBISHI



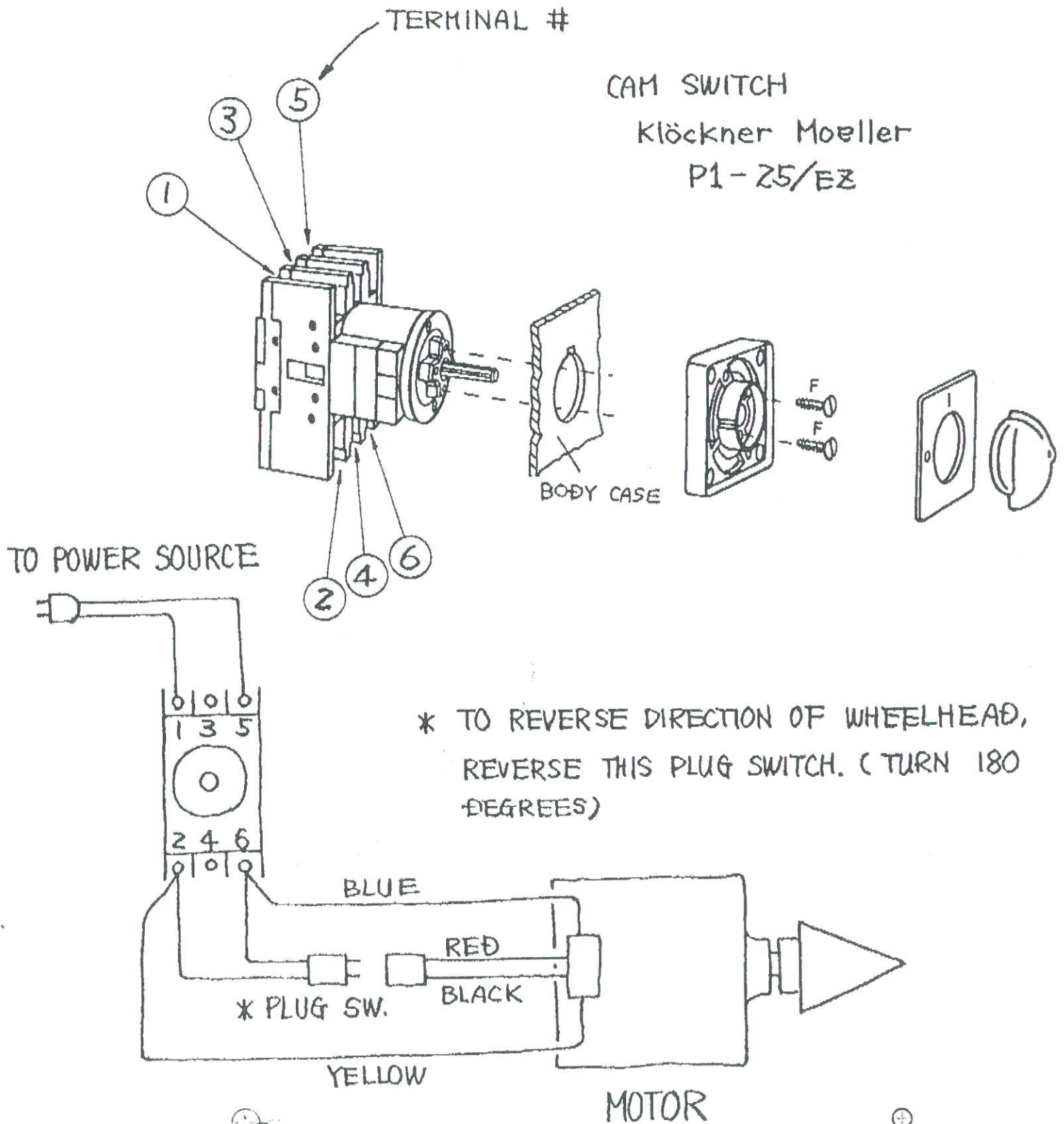
NOTE 1. THE MOTOR (WRDK0208100) NEEDS THE ADAPTER PLATE (ZYA3000).

2. TO CHANGE THE DIRECTION OF WHEELHEAD, REVERSE RED AND BLACK CORD.



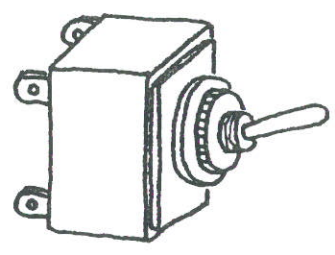
RK-2B

WIRING DIAGRAM



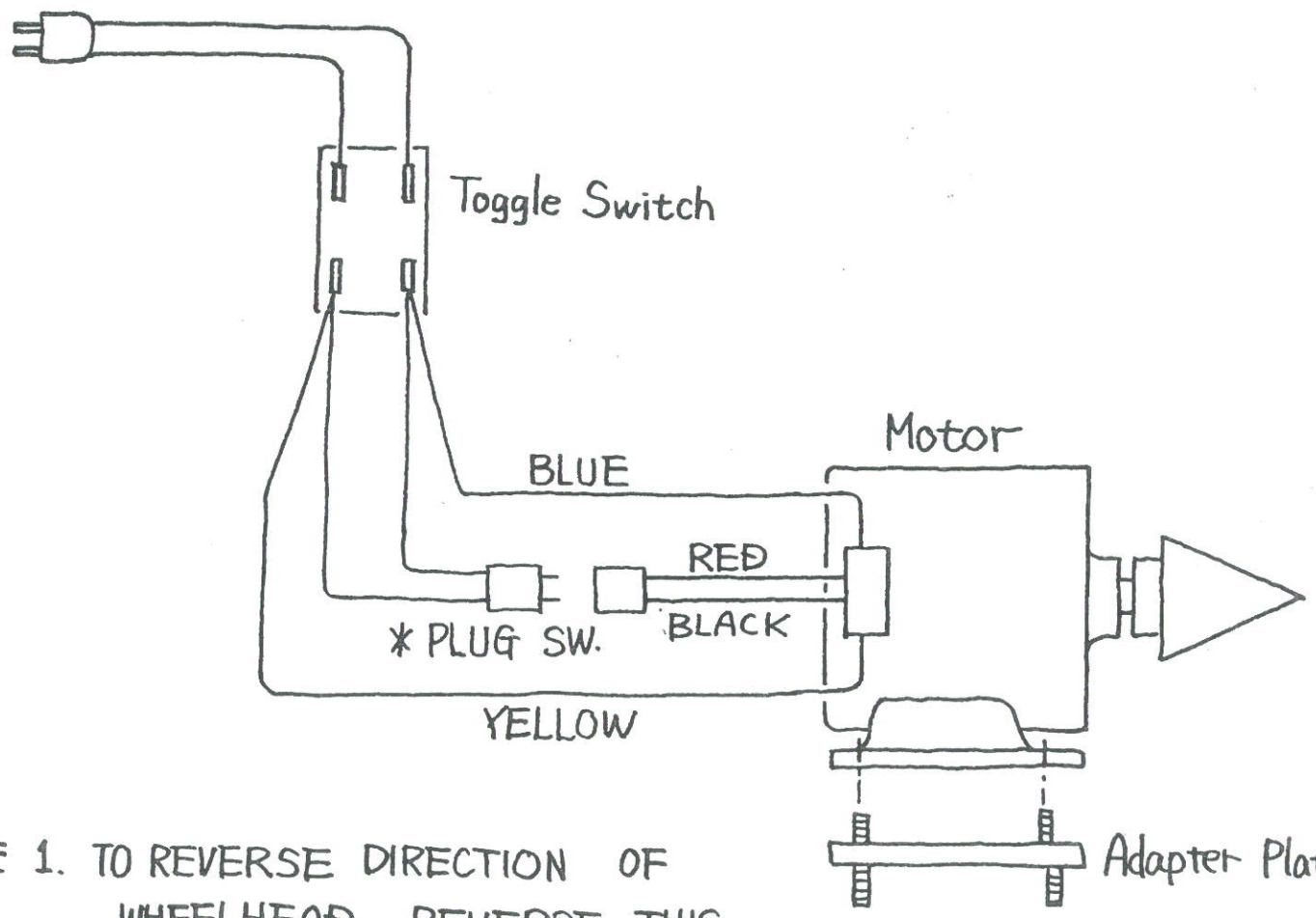
RK-2 WIRING DIAGRAM

SW-RK-006



TOGGLE SWITCH
S-21A
ZYA3085

TO POWER SOURCE



NOTE 1. TO REVERSE DIRECTION OF WHEELHEAD, REVERSE THIS PLUG SWITCH. (TURN 180 DEGREES)

2. THE MOTOR (WRDK0208100) NEEDS THE ADAPTER PLATE. (ZYA3000).