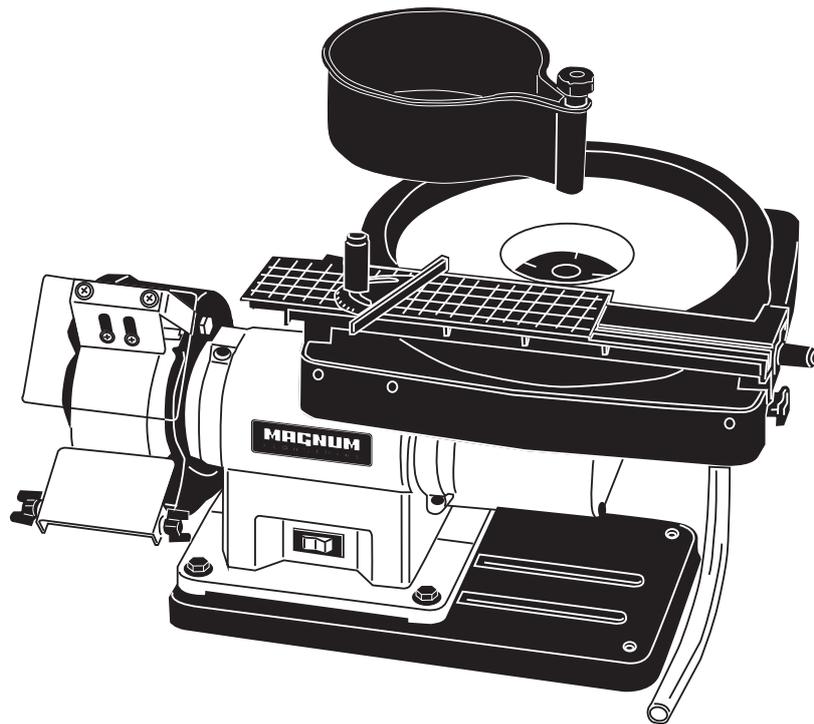


# **MAGNUM**

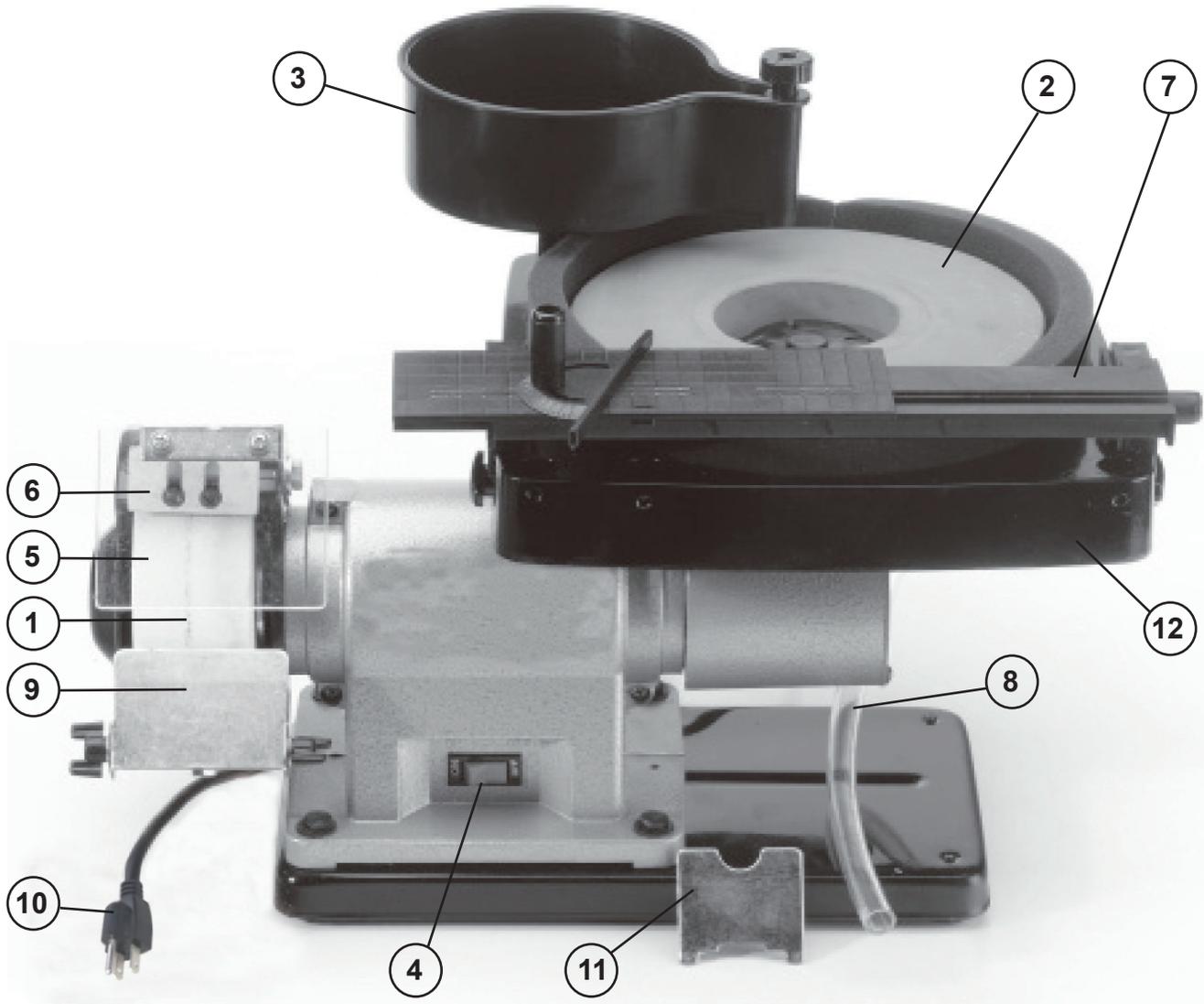
## **I N D U S T R I A L**

**MODEL NO.: MI-15100**



***OPERATING MANUAL***

## GETTING TO KNOW YOUR WET & DRY BENCH GRINDER



1\_Grinding wheel

2\_Whetstone wheel

3\_Reservoir with tap

4\_On/Off switch

5\_Eye shield

6\_Spark deflector

7\_Honing guide/tool rest

8\_Drainage hose

9\_Tool rest

10\_Plug & cable

11\_Holding tool

12\_Water tray

**UNPACKING:** After removing the packing material, make sure the product is in perfect condition and that there are no visible damage. If in doubt, do not use the wet & dry bench grinder and contact the dealer from whom it was purchased.

The packaging materials (plastic bags, polystyrene, etc.) must be disposed of in an appropriate refuse collection container. These materials must not be left within the reach of children as they are potential sources of danger.

## ASSEMBLY

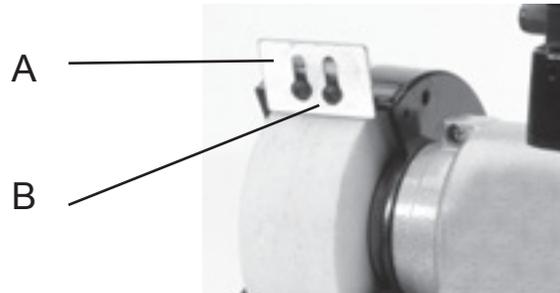
### NOTE:

Remove the plug from the power supply before carrying out adjustment, service or maintenance.

### SPARK DEFLECTOR: (Fig.1)

Locate the spark deflector (A) and the two securing screws (B). Attach it to the housing above the opening for the grinding wheel. It should be adjusted so that it is level and 1mm (approx) from the grinding wheel.

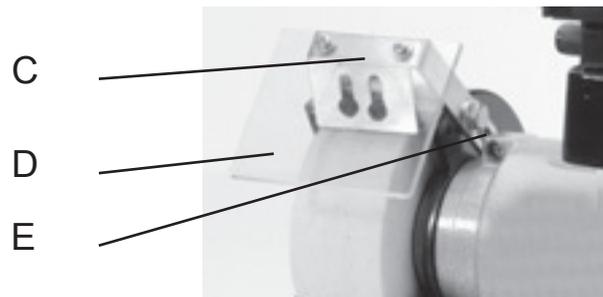
Fig.1



### EYE SHIELD: (Fig.2)

Fix the bracket (C) to the plastic screen (D) using the nuts, bolts and washers supplied. Secure the assembly to the wheel housing using the large bolt (E) and the washer as shown.

Fig.2



### ADJUSTABLE TOOL REST: (Fig.3 & 4.)

Join the two parts of the tool rest (F) & (G) together. Insert the bolts (H) and the spring washers (I) from the inside and secure with the remaining washers and wing nuts (J).

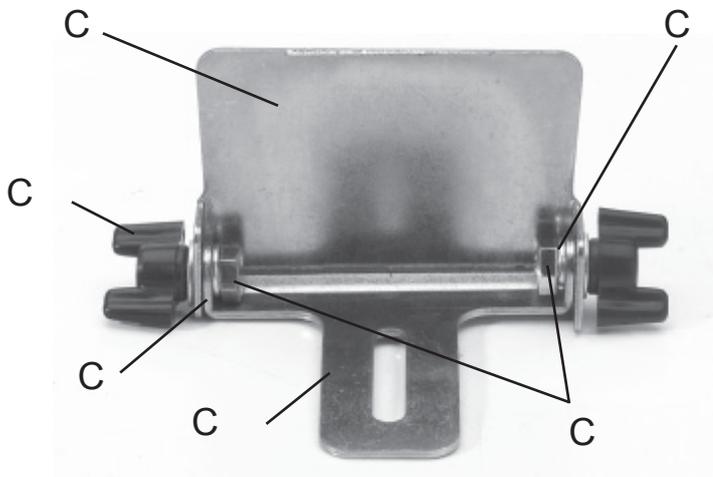


Fig.3

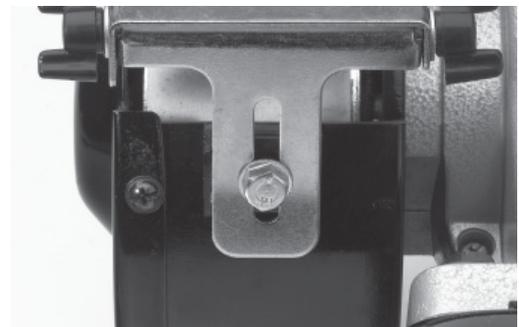


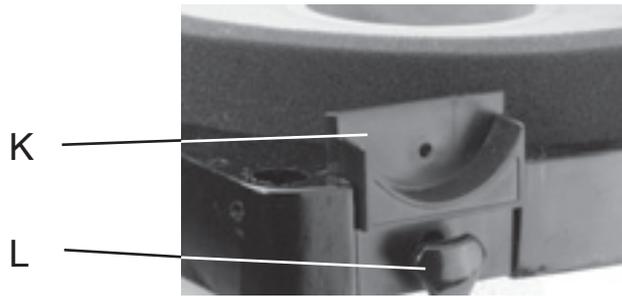
Fig.4

Bolt the tool rest below the grinding wheel guard opening. Ensure to butt it up against the lip which will stop it twisting. Use the bolt, washer and spring washer provided.

**WHETSTONE:** (Fig. 5 & 6.)

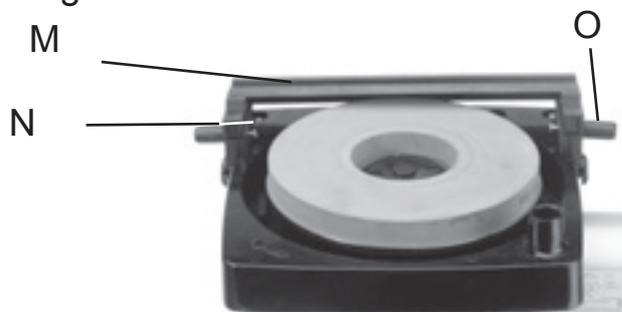
Slide the two tool rest brackets (K) into either side of the water tray and secure in place using the two locking knobs (L). This creates the cradle for the honing guide to sit in.

Fig.5



Place the honing guide (M) into the bracket and pass the bolts (N) from the back through the tool bracket and secure using the locking knobs (O). The two bolts locate into a recess to prevent turning.

Fig.6



**WHETSTONE WATER RESERVOIR:** (Fig.7.)

Remove the reservoir from the packaging. Insert tap (P) and slide into the water tray. Position the reservoir with the outlet centered over the whetstone.

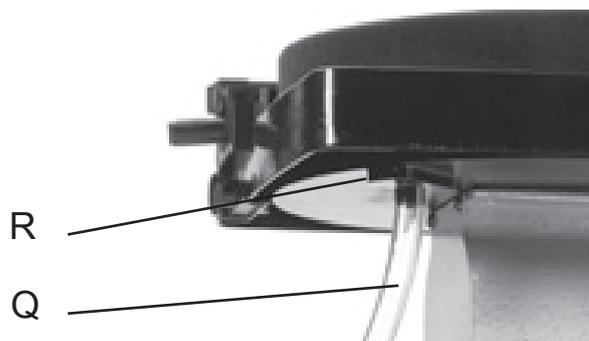
Fig.7



**DRAINAGE PIPE:** (Fig.8.)

On the underside of the water tray fit the drainage tube (Q) to the outlet (R).

Fig.8



**BENCH MOUNTING:**

Mount the wet & dry bench grinder securely to a work bench or other suitable surface. Mounting fasteners and hardware are not supplied.

## OPERATION AND USE

### NOTE:

Remove the plug from the power supply before carrying out adjustment, servicing or maintenance.

### GRINDING: (Fig.9)

The grinding wheel is for dry use only. Set the tool rest at the correct angle and 1~2mm (approx.) from the wheel. Switch on the grinder at the On/Off switch and let it run up to full speed to make sure nothing is obstructing the grinding wheel. If no problems are found then begin grinding.

**DO NOT OPERATE WITH THE EYE SHIELD UP OR MISSING.**

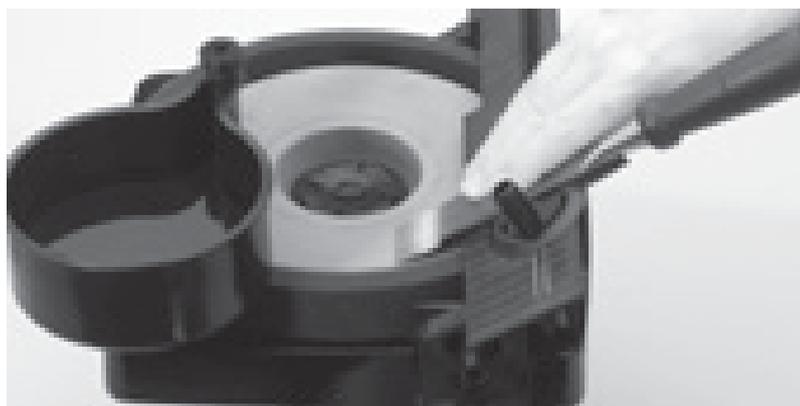
Fig.9



### WHETSTONE HONING: (Fig.10)

Tilt the tool rest to the required angle for the item being sharpened. It is crucial to ensure the bottom edge of the tool rest is level across the whetstone. Half fill the reservoir with clean water and using the tap regulate the flow of water over the whetstone. Start up the grinder and when running at full speed begin honing.

Fig.10



## REPLACING THE GRINDING

### WHEEL/WHETSTONE: (Fig.11 & 12.)

To replace the whetstone use the wheel flange holding tool (s) and unscrew dockwise (left handed thread). **NOTE:** It is important to check that the new whetstone is free from imperfections, cracks or flaws. If suitable fit to the grinder and refit the flange making sure it is adequately tight. Turn on the grinder and let the wheel run up to full speed to ensure no problems are apparent.

To replace the grinding wheel remove the end of the wheel housing by first removing the three screws. Holding the grinding wheel to stop it slipping, remove nut (T) in a clockwise direction. Then remove the flange (U). It is now possible to slide off the grinding wheel. Again it is good practice to visually check the grinding wheel before installing to ensure no defects are present. If usable slide the wheel on and securely refit the flange and nut, tightening in an anti-clockwise direction. Install the wheel housing and switch on the grinder. Let it run for a minute to check for problems.

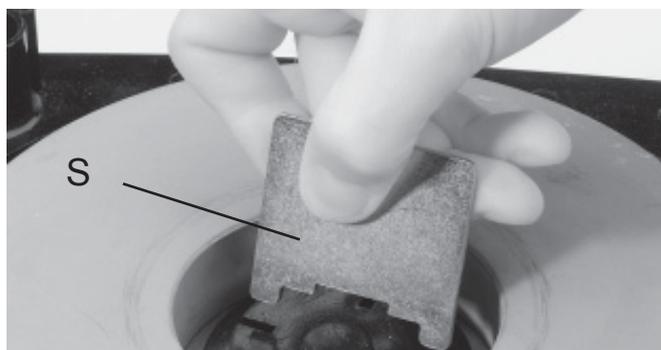


Fig.11

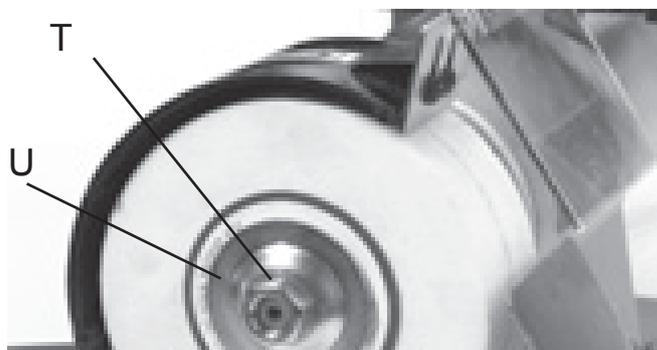


Fig.12

### WHEEL HOUSING ADJUSTMENT: (Fig.13)

The wheel housing can be set in two positions. To move it simply follow the instructions for replacing the dry grinding wheel up to the point where the grinding wheel is removed. Now remove the backing flange (take note which way it is fitted). Remove the screws (V) and turn the housing so the other set of holes can be used.

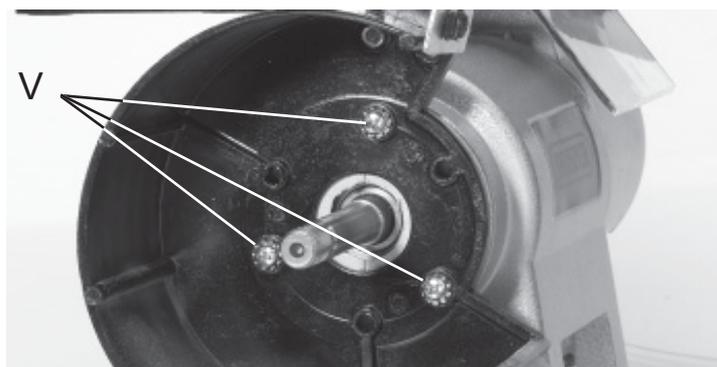
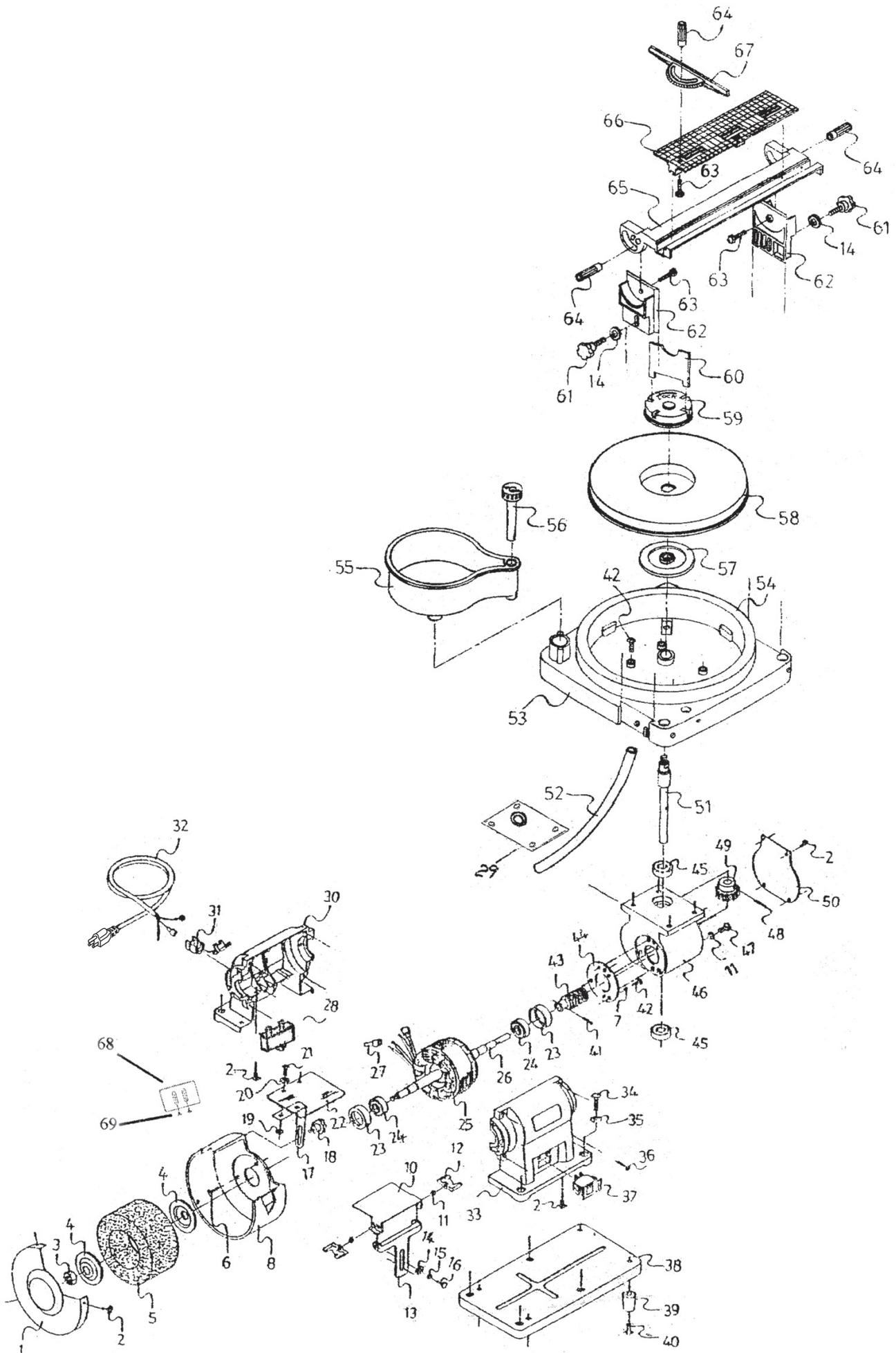


Fig.13

# PARTS LIST FOR MI-15100



## PARTS LIST FOR MI-15100

PART NO.	CODE NO.	DESCRIPTION	PART NO.	CODE NO.	DESCRIPTION
MI-15100-01	29949	Grinding wheel side guard	MI-15100-36	29987	Screw
MI-15100-02	29950	Screw	MI-15100-37	37052	On-Off switch
MI-15100-03	29951	Nut	MI-15100-38	29989	Base
MI-15100-04	29952	Grinding wheel Range	MI-15100-39	29990	Rubber foot
MI-15100-05	38186	Dry stone	MI-15100-40	29991	Screw
MI-15100-06	29954	Screw	MI-15100-41	29992	Pin
MI-15100-07	29955	Spring washer	MI-15100-42	29993	Screw
MI-15100-08	29956	Grinding wheel guard	MI-15100-43	29994	Gear
MI-15100-09	29960	Hex. head bolt	MI-15100-44	29995	Plate
MI-15100-10	29961	Adjustable rest	MI-15100-45	29996	Bearing
MI-15100-11	29962	Spring washer	MI-15100-46	29997	Gear box
MI-15100-12	29963	Wing nut	MI-15100-47	29998	Screw
MI-15100-13	29964	Guide rest	MI-15100-48	29999	Pin
MI-15100-14	29965	Washer	MI-15100-49	30000	Gear
MI-15100-15	29966	Spring washer	MI-15100-50	30001	Gear box cover
MI-15100-16	29967	Bolt	MI-15100-51	30002	Spindle
MI-15100-17	29968	Eyeshield holder	MI-15100-52	30004	Water pipe
MI-15100-18	29969	Knob	MI-15100-53	37053	Water tray
MI-15100-19	29970	Nut	MI-15100-54	30014	Sponge
MI-15100-20	29971	Washer	MI-15100-55	30007	Water reservoir
MI-15100-21	29972	Screw	MI-15100-56	30008	Lock
MI-15100-22	29973	Eyeshield	MI-15100-57	30013	Flange
MI-15100-23	29974	Bush	MI-15100-58	29804	Whet stone
MI-15100-24	29975	Bearing	MI-15100-59	30010	Whet stone locking flange
MI-15100-25	29976	Stator	MI-15100-60	30009	Holding tool
MI-15100-26	37050	Rotor	MI-15100-61	36783	Locking knob
MI-15100-27	29978	Terminal block	MI-15100-62	36785	Holder
MI-15100-28	36975	Condencer	MI-15100-63	36786	Screw
MI-15100-29	36976	Plate	MI-15100-64	36787	Knob
MI-15100-30	29981	Rear body	MI-15100-65	36788	Rest holder
MI-15100-31	29982	Strain relief	MI-15100-66	36789	Slide rest
MI-15100-32	64536	BS moulded plug and cable	MI-15100-67	36790	Mitre guide
MI-15100-33	37051	Front body	MI-15100-68	64540	Spark deflector
MI-15100-34	29985	Bolt	MI-15100-69	64541	Screw
MI-15100-35	29986	Washer			