# BL150 150mm Lathe . Operating Instructions

PLEASE INSERT SERIAL NUMBER OF YOUR MACHINE HERE

FOR SERVICE, SPARES AND TOOLING CONTACT:-

BURSGREEN (COLNE) LTD., LODGE HOLME, TRAWDEN, Nr. COLNE, LANCASHIRE, GREAT BRITAIN.

TEL. 0282 865310 TLX. 635032 (BURCOL-G)

WHEN ORDERING SPARES OR REQUESTING SERVICE PLEASE QUOTE FULL SERIAL NUMBER AND INDICATE MODEL TYPE.

MODIFICATIONS ARE MADE TO THESE BOOKS FROM TIME TO TIME AS IT IS OUR CONSTANT POLICY TO IMPROVE THE DESIGN OF BURSGREEN MACHINES. IT IS THEREFORE IMPORTANT THAT THE BOOK SUPPLIED WITH THE MACHINE BE USED AS AN INSTRUCTION MANUAL.



## HEALTH & SAFETY

## SAFETY OF WOODWORKING MACHINES

Woodworking machines can be dangerous if improperly used. The wide range of work of which they are capable, requires adequate safeguarding arrangements against possible hazards.

Many injuries to machinists are caused by carelessness or failure to use the guards provided or to adjust them correctly.

WADKIN LTD., supply machinery designed for maximum safety which they believe, as a result of thorough testing, minimizes the risks inevitable in their use. It is the user's responsibility to see that the following rules are complied with to ensure safety at work:

- 1. The operation of the machine should conform to the requirements of the Woodworking Machines Regulations 1974. All guards should be used and adjusted correctly.
- 2. Safe methods of working only should be adopted as given in the Health and Safety Work Booklet No.41, "Safety in the Use of Woodworking Machines", (obtainable from Her Majesty's Stationery Office) and as advised by Wadkin Ltd.

Only personnel trained in the safe use of a machine should operate it.

- 4. Before making adjustments or clearing chips, etc., the machine should be stopped and all movement should have ceased.
- 5. All tools and cutters must be securely fixed and the speed selected must be appropriate for the tooling.

SAFETY IS OUR WATCHWORD BUT THE USER MUST COMPLY WITH THE ABOVE RULES IN HIS OWN INTEREST. WE WOULD BE PLEASED TO ADVISE ON THE SAFE USE OF OUR PRODUCTS.

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# <u>SAFETY</u>

- 1. Read Instruction Book.
- 2. Securely Lock Cutters.
- 3. Set Guards Correctly.
- 4. Select Correct Speed.
- 5. Use Feeding Devices Where Possible.
- 6. Refer To HSW Booklet No.41. (in UK) For Safety in The Use Of Woodworking Machinery.

#### SECTIONS

| SECTION A | SPECIFICATION             |
|-----------|---------------------------|
| SECTION B | INSTALLATION              |
| SECTION C | DESCRIPTION AND OPERATION |
| SECTION D | MAINTENANCE               |
| SECTION E | SPARE PARTS LIST          |

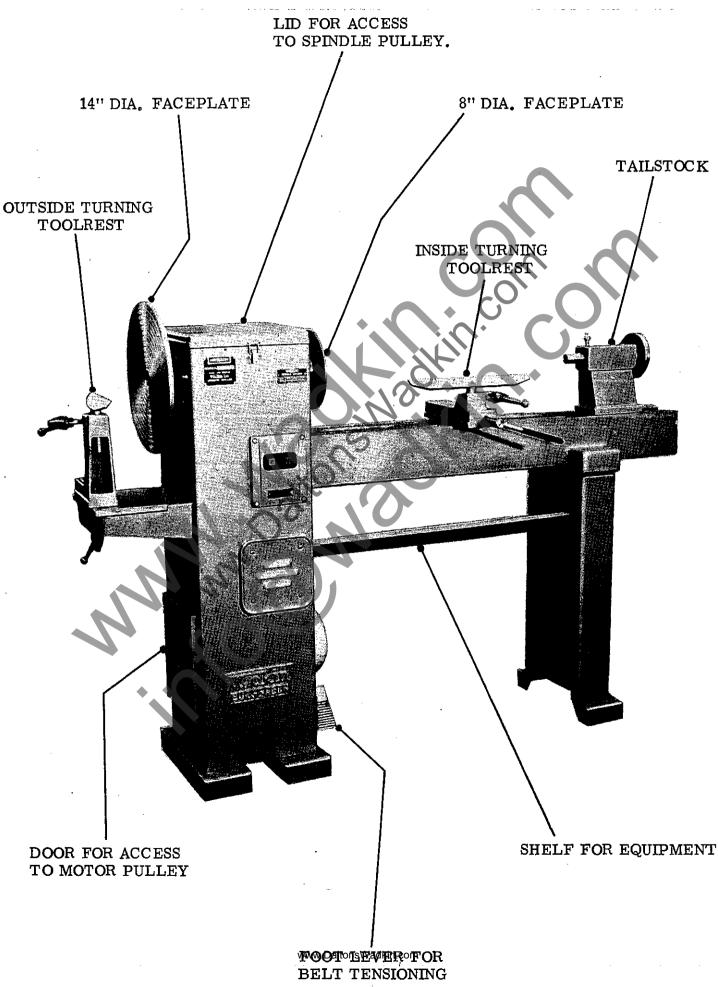
## ILLUSTRATIONS

| SECTION A | Fig. A1          | 6" Lathe Type BL150                                |
|-----------|------------------|--|
| SECTION B | Fig.B1<br>Fig.B2 | Wiring Diagram (3phase)<br>Wiring Diagram (1phase) |
|           | Fig.B3           | Foundation Plan                                    |
| SECTION C | Fig.C1           | Foot Pedal for Belt Tension                        |
|           | Fig.C2           | Selecting required spindle speed                   |
|           | Fig.C3           | Operation of inside toolrest                       |
|           | Fig.C4           | Operation of tailstock                             |
|           | Fig.C5           | Operation of outside toolrest                      |
|           |                  |  |
| SECTION D | Fig.D1           | Operation for replacing vee belt                   |
|           | Fig.D2           | Gap Bed Lathe (Extra)                              |
|           | Fig.D3           | Lubrication Diagram                                |

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# 6 WOOD TURNING LATHE. TYPE BL.150.

FIG A.1.



## SECTION A SPECIFICATION.

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|    | Height to centre *                        | 6 <u>1</u> "                     | 159 mm            |
|----|---|----------------------------------|-------------------|
| •  | Will take between centres                 | 39"                              | 1m                |
|    | Height from floor to centres              | 40''                             | 1020 mm           |
| 2  | Diameter turned over handrest             | 911                              | 230 mm            |
|    | Diameter turned with gap bed              | 18"                              | 457 mm            |
|    | Width turned with gap bed                 | 7 <sup>1</sup> / <sub>2</sub> "  | 191 mm            |
|    | Speed of spindle                          | 425, 800, 1400 and               | 1 2300 r p m      |
|    | Horsepower of motor                       | 1 HP                             |                   |
| _  | Speed of motor - 50 cycles<br>- 60 cycles | 1500 r p<br>1800 r p             |                   |
| 2  | Morse taper of spindle                    | No.3                             |                   |
| æ, | Spindle bored                             | 25/32"                           | 20 mm             |
|    | Morse taper in tailstock                  | No.2                             |                   |
|    | Tailstock bored                           | <u>1</u> *T                      | 12.7 mm           |
|    | Diameter of inside faceplate              | 811                              | 200 mm            |
|    | Diameter of outside faceplate             | 14"                              | 350 mm            |
|    | Capacity of outside turning               | 5'' wide x 22'' dia.             | 125 x 560 mm.     |
|    |   | 9" wide x $17\frac{1}{2}$ " dia. | . 230 x 445 mm.   |
|    | Approx, floor space                       | 72'' x 24''                      | 1830 x 610 m.n.   |
|    | Approx, net weight                        | 400 lbs                          | 180kg             |
| ¢  | Approx, shipping dimensions               | 40 cu.ft                         | 1.1m <sup>3</sup> |
|    |   |                                  |                   |

\* Note : Machine will swing a maximum of  $12\frac{1}{2}$ " (317 mm) over bed between centres.

### SECTION B INSTALLATION.

Remove protective coating from all bright parts by applying a cloth soaked in paraffin, turpentine or other solvent.

When the machine is cased for export the outside turning assembly is removed and packed individually. Remove and re-assemble as shown in Fig A.1.

#### FOUNDATION

See Fig. B.3. for bolt positions and clearances required. When installing the machine, level the bed by packing under the feet. Foundation bolts are not supplied with the machine except by special order.

#### WIRING DETAILS

The motor and control gear have been wired in before despatch. All that is required, is to connect the power supply to the starter.

#### Points to note when connecting to power supply :

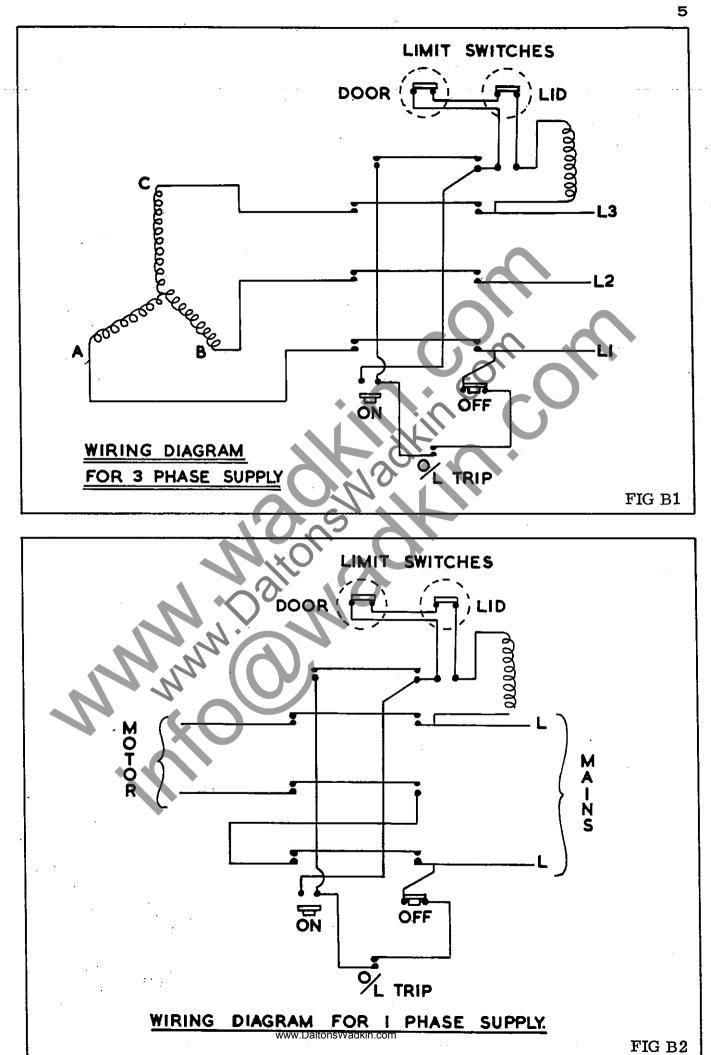
1. Check that the voltage, phase and frequency correspond to those on the motor plate, also the correct coils and heaters are fitted to the starter.

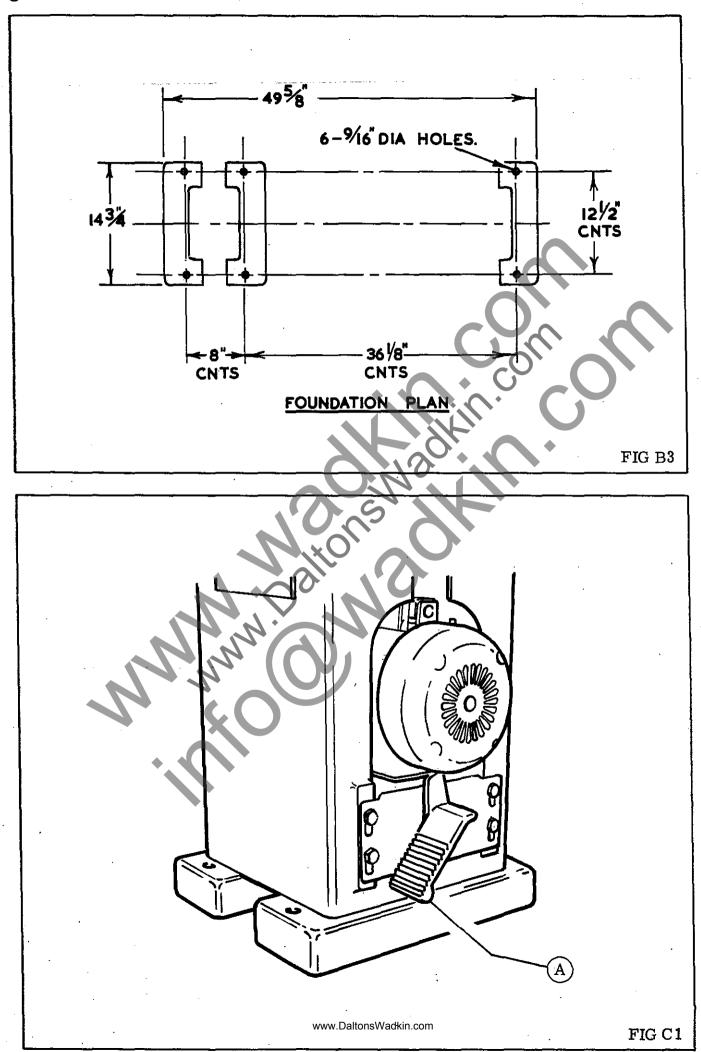
2. It is important that the correct cable is used to give the correct voltage to the starter as running on low voltage will damage the motor.

- 3. Check the main line fuses are of the correct capacity. See list below.
- 4. Connect the line leads to the appropriate terminals. See Fig. B1 for single phase supply. See Fig. B2 for three phase supply.
- 5. Check all connections are sound.

6. Check the rotation of the motor for the correct direction. If this is incorrect for three phase supply, reverse any two of the line lead connections.

| VOLTAGE        | PHASE  | CYCLES   | HP            | SWG TINNED<br>COPPER WIRE | AMPS      |
|----------------|--------|----------|---------------|---------------------------|-----------|
| 220<br>340/420 | 3      | 50<br>50 | <b>1</b><br>1 | 25<br>30                  | 15<br>8.5 |
| 200/250        | ı<br>1 | 50       | 1             | 23                        | 20        |
| 220            | 3      | 60       | 1             | 25                        | 15        |
| 400/550        | 3      | 60       | 1             | 30                        | 8.5       |





#### SECTION C

#### HEADSTOCK SPINDLE UNIT

- The spindle is threaded at both ends to receive chucks and faceplates. All centres with a No.3 morse taper shank will fit into the taper bore in the spindle end, which is over the bed.
- The centre can be ejected from the spindle by means of the knock out rod provided, being placed down the centre of the spindle and given a sharp tap.

#### BELT TENSION

The drive is by means of an inter-changeable vee belt from a 1HP motor mounted on a bracket fitted with anti-vibration rubber inserts. A foot lever releases tension on the belt for speed changing.

#### IMPORTANT

FOR THE SAFETY AND WELL BEING OF THE OPERATOR IT IS IMPERATIVE THAT THE SELECTED HEAD STOCK SPINDLE SPEED IS COMPATABLE TO THE SIZE, DIA. AND WEIGHT OF THE WORK PIECE.

## TO CHANGE SPEED FOLLOW UNDERMENTIONED PROCEDURE :

- 1. Release lid fastener and swing lid clear of pulley at top of machine. This automatically breaks contact in micro-switch, cutting off supply to motor.
- 2. Release tension from belt by lifting foot lever "A" in Fig. C1.
- 3. Select required speed on stepped spindle pulley "A" in Fig. C2.
- 4. Open door at base of machine to give access to motor pulley. This breaks contact of a further micro-switch which renders the machine inoperative whenever the door is opened. Select required speed on stepped motor pulley.
- 5. Retension belt by depressing foot lever.
- 6. Secure lid at top of machine and door on base,

### OPERATION OF TOOLREST

The toolrest has a quick action lock for ease and quickness of positioning in any position on the bed. Lock or unlock entire toolrest assembly by hand lever "A" in Fig. C3. while adjustable handle "B" locks or unlocks toolrest only.

The toolrest is locked to the bed by means of an eccentric spindle holding a clamping plate to the underside of the bed. If this does not lock correctly or sufficiently for the toolrest to move freely along the bed, the  $\frac{1}{2}$ " whit. aerotight nut securing the clamping plate should be adjusted by the required amount until the toolrest locks correctly.

#### OPERATION OF THE TAILSTOCK

The movement of the tailstock spindle is controlled by the handwheel "A" in Fig.C4 Turning of the handwheel in the direction of the arrow in Fig. C4 moves the tailstock spindle towards the workpiece. The tailstock spindle is locked in position by means of the ball lever screw "B". Unlock spindle at all times before attempting to move it in or out by the handwheel.

An adjustable handle "C" locks the tailstock in position by a clamping plate on the underside of the bed.

#### TAILSTOCK SPINDLE

All centres with a No. 2 Morse taper shank will fit into the taper bore in the tailstock spindle. Before inserting the centres make sure they are free from burrs, rust and dirt. Place a few drops of oil on the shanks of all centres before inserting in position. The centres can be ejected from the tailstock spindle, by means of the knock out rod provided, being placed down the centre of the spindle and given a sharp tap.

#### SECTION D

TO REPLACE A WORN OR BROKEN BELT FOLLOW UNDERMENTIONED PROCEDURE

- 1. Release lid fastener and swing lid clear at top of machine. Release belt tension by footlever "A" in Fig. C1.
- 2. Secure spindle by locating toggle bar into spindle pulley. Remove outside turning faceplate.
- 3. Loosen two socket head grubscrews "A" in Fig. D.1. which secure inside turning bearing to spindle.
- 4. Remove four hexagon head bolts, nuts and washers "B" in Fig. D.1. which secure outside turning bearing block to trunk. Remove end cover plate "C".
- 5. Slide outside turning bearing block from dowels and slide spindle assembly "D" towards tailstock.
- 6. Worn or broken belt can now be changed
- NOTE :- To re-assemble, reverse above procedure ensuring that grubscrews line up with dimples "E" on spindle, and bearing block lines up with dowels.

#### CARE OF THE BED

The bed of this lathe has been precision ground to provide a smooth and true surface for the tailstock and toolrest assemblies to slide on. Care should be taken not to damage the surface of the bed through careless handling of the tools as this will affect the accuracy of the machine, also the action of the toolrest and tailstock.

Keep the bed clear of chippings and wipe it frequently with an oily rag for ease of operation and to prevent rusting.

#### GAP BED LATHE (EXTRA)

When machine is fitted with a gap bed the capacity is increased to 18" (457mm) inside turning circle x  $7\frac{1}{2}$ " (191 mm) wide.

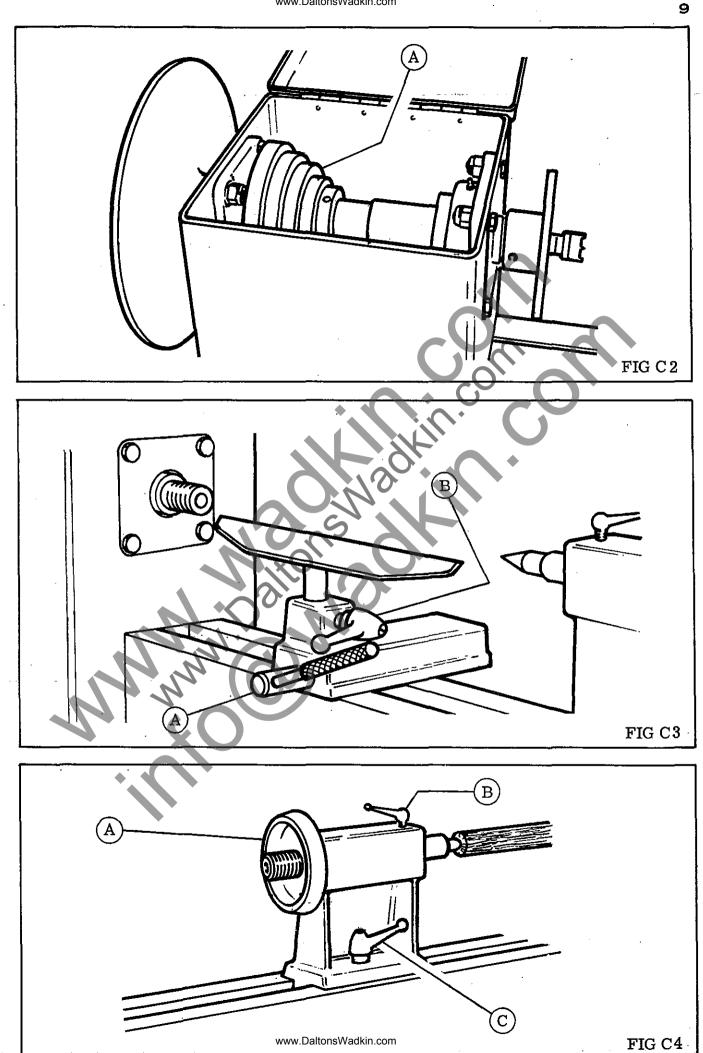
To remove the gap bed section, loosen 2 - 3/8" whit hexagon bolts and washers "A" in Fig. D2 then lift gap bed section "B" clear of machine. Replace by reversing above mentioned procedure NOTE : Ensure gap is free from dirt and chippings before replacing gap bed section "B".

#### LUBRICATION

See Fig. D.2 for lubrications. It is advisable to keep all bright parts covered with a thin film of oil to prevent rusting.

| TYPE | $\mathbf{OF}$ | GREAS  | E | RECOMMENI | DED          | A88        | SHELL | ALV                    | ANIA | 3 |
|------|---------------|--------|---|-----------|--------------|------------|-------|------------------------|------|---|
| TYPE | $\mathbf{OF}$ | OIL RE | С | OMMENDED  |              | 1998       | POWER | $\mathbf{E}\mathbf{M}$ | 125  |   |
|      |               |        |   | ,         | www.DaltonsV | Vadkin.com |       |                        |      |   |

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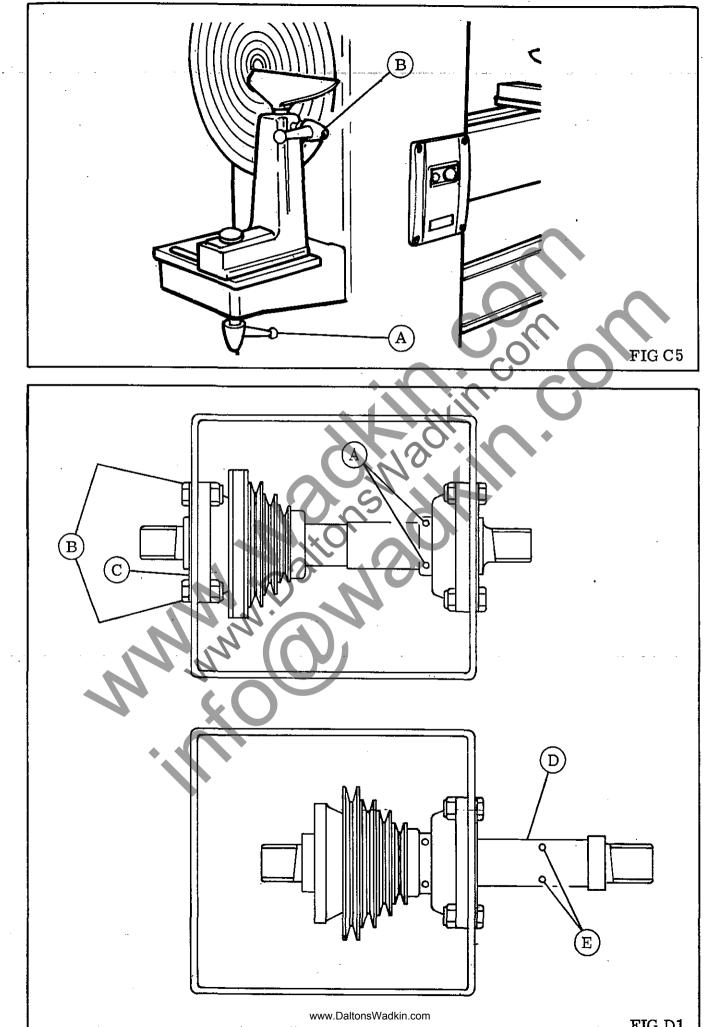
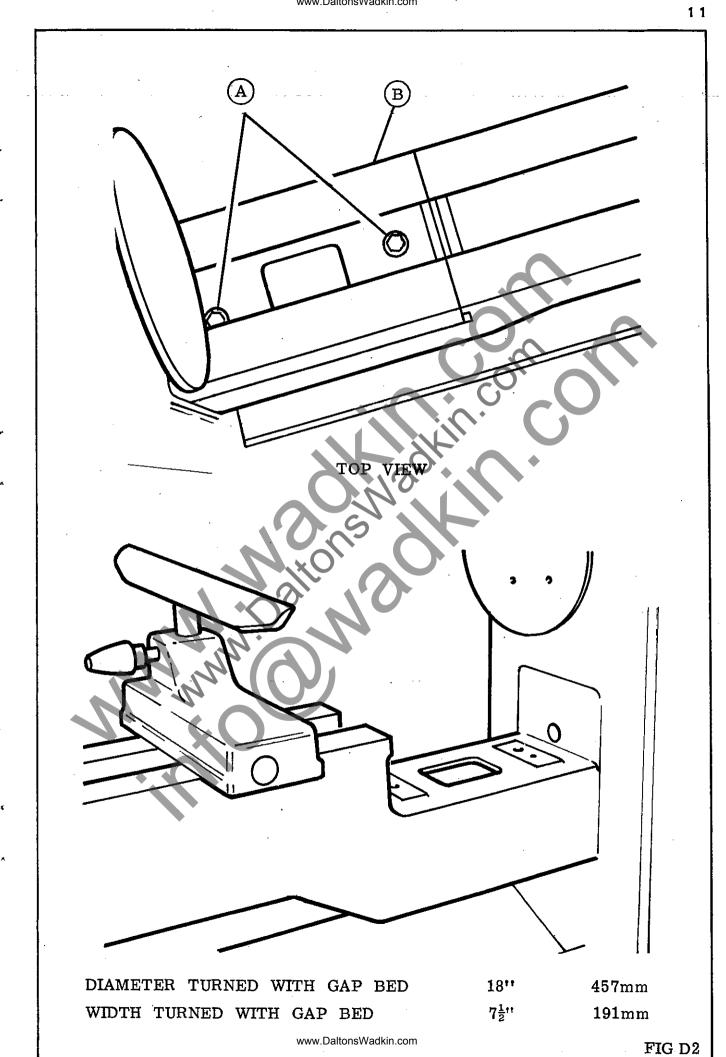
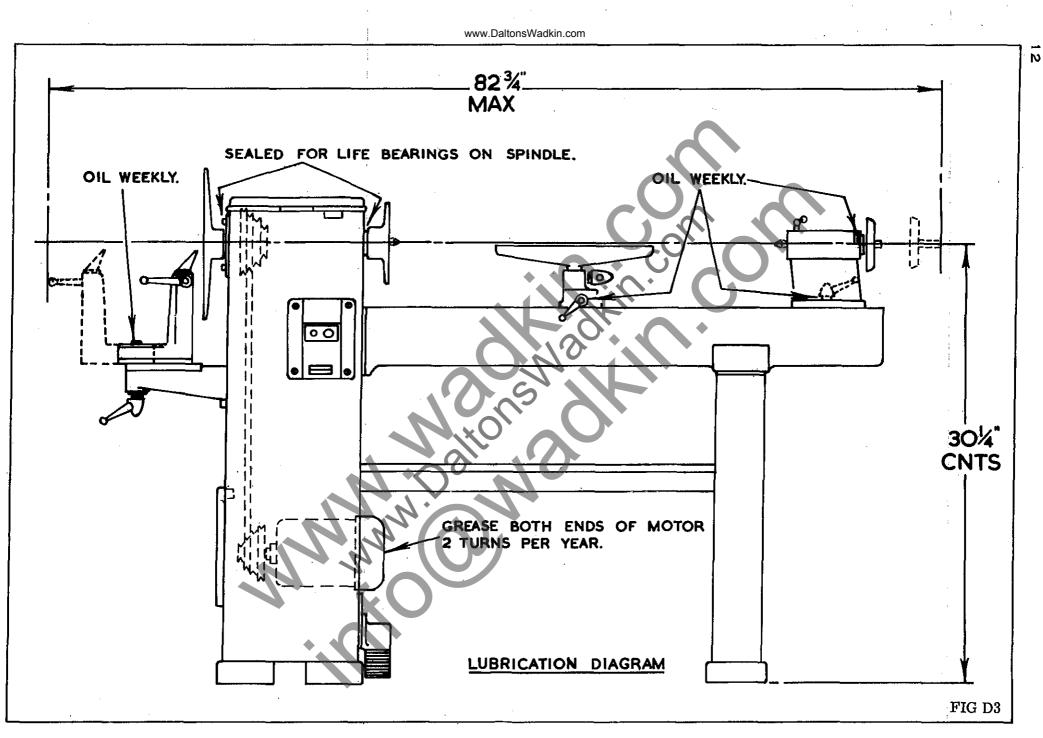


FIG D1

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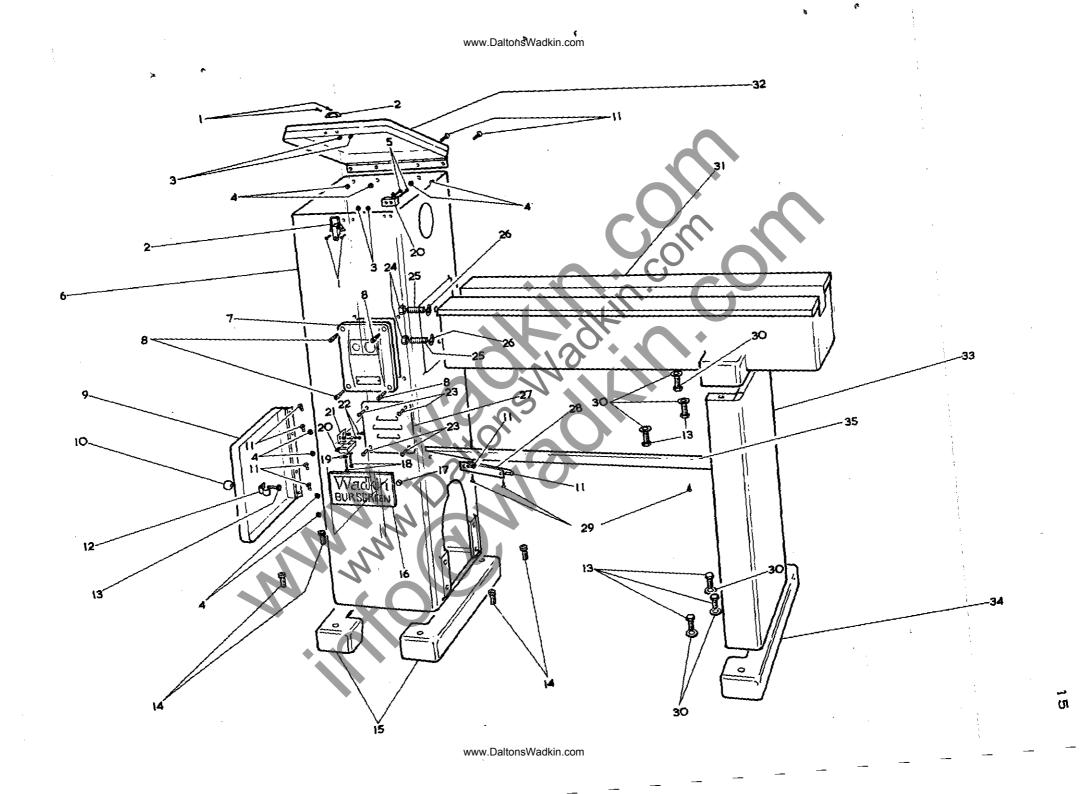
# SECTION "E" SPARE PARTS LISTS

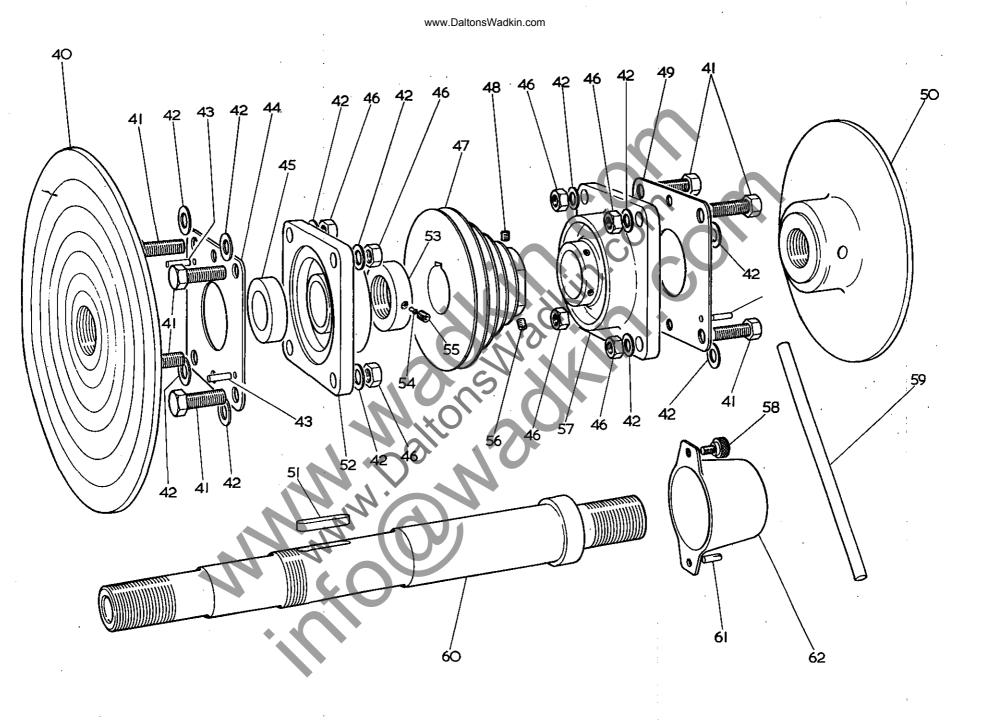
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## BED ASSEMBLY

| Ref.<br>No.     | Part No.      | No.<br>Off.    | Description  |
|-----------------|---------------|----------------|--|
| 1               |               | 4              | 1/8" whit. x 5/8" long round head screw                |
| 2               | No. 25        | 1              | Zest standard toggle fastener                          |
| 3               | 110, 20       | 4              | 1/8" whit. nut   |
| 4               |               | 8              | 3/16" whit. nut  |
| 5               |               | 2              | 3/16" whit. x 1" long round head screw                 |
| 6               | 1060/2        | 1              | Trunk  |
| 7               | 24  ADS/FO    | Î              | MEM Starter  |
| 8               |               | 4              | $\frac{1}{4}$ " whit. x 1" long cheese head screw      |
| 9               | C-1060/36     | 1              | Door for trunk   |
| 10              | 0 1000/00     | î              | $1\frac{1}{4}$ " dia. x 3/8" whit, bore plastic ball   |
| 11              |               | 8              | $3/16"$ whit. $x \frac{1}{2}"$ long round head screw   |
| $12^{-1}$       | B-1060/77     | 1              | Spring catch for door                                  |
| $13^{-2}$       | 1000711       | 7              | $3/8''$ whit, $x \frac{3}{4}''$ long hexagon head bolt |
| 14              |               | 4              | 3/8" whit. x 1" long socket head capscrew              |
| 15              | C-1060/15     | 2              | Feet for trunk   |
| 16              | B-S-117       | ĩ              | Wadkin - Bursgreen nameplate                           |
| $\overline{17}$ | A-S-105       | 2              | Locknuts for nameplate                                 |
| 18              |               | $\frac{1}{2}$  | 1/8" whit x 1" long round head screw                   |
| 19              |               | $\frac{1}{2}$  | 1/8" washer  |
| 20              | 3 BR1 B2 Base | $\frac{1}{2}$  | Burgess micro switch                                   |
| 21              | A-1060/69     | .1             | Bracket for micro switch                               |
| $22^{}$         |               | 2              | 3/16" whit. x 3/8" long round head screw               |
| 23              |               | 4              | t' whit. x 3/8" long raised head screw                 |
| 24              |               | 2 ×            | $O_5/8''$ whit, nut                                    |
| 25              |               | $\overline{2}$ | 5/8" whit. x 2" long stud                              |
| 26              |               | 20             | 5/8" spring washer                                     |
| 27              | A-1031/53     | 1              | Cover plate  |
| 28              | B-1060/67     | +1             | Shelf bracket  |
| 29              |               | 4              | $\frac{3}{4}$ " long No. 8 wood screw                  |
| 30              |               | 6              | 3/8" washer  |
| 31              | 1060/1        | 1              | Bed  |
| 32              | C-1060/19     | 1              | Lid for trunk  |
| 33              | C-1060/3      | 1              | Leg for bed  |
| 34              | C-1060/62     | 1              | Foot for leg   |
| 35              | C-1060/66     | 1              | Shelf for tools  |
|                 |               |                |  |

NOTE :- When ordering replacement parts quote Part No. and Serial No. of the machine





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## SPINDLE ASSEMBLY

|   | Ref.<br>No. | Part No.  | No. Off       | Description  |
|---|-------------|-----------|---------------|--|
|   | 40          | B-1060/33 | 1             | 14" dia. faceplate   |
|   | 41          | A-1060/70 | 8             | Spindle bearing clamping bolts                             |
|   | 42          | 1         | 16            | $\frac{1}{2}$ " washer                                     |
|   | 43          |           | 4             | $3/16$ ''dia. x $\frac{1}{2}$ '' long fluted dowel         |
|   | 44          | B-1060/13 | 1             | Small cover for spindle end                                |
|   | 45          | A-1060/5  | 1             | Plain collar for spindle                                   |
|   | 46          | •         | 8             | $\frac{1}{2}$ " Whit aerotight nuts                        |
|   | 47          | C-1060/7  | 1             | Spindle pulley   |
|   | 48          |           | 1             | 3/8" dia. x 3/8" long socket head screw                    |
| ٠ | 49          | B-1060/76 | 1             | Large cover for spindle end                                |
|   | 50          | C-1060/38 | 1             | 8" dia, faceplate (inside turning)                         |
|   | 51          |           | 1             | $\frac{1}{2}$ " wide x 2" long key                         |
|   | 5 <b>2</b>  | SLF40     | 1             | Pollard bearing  |
|   | 53          | A-1060/6  | 1             | Screwed collar for spindle                                 |
|   | 54          |           | 1             | . 22 air gun pellet  |
|   | 55          |           | 1             | $5/16''$ dia. $x \frac{1}{2}''$ long socket head grubscrew |
|   | 56          |           |               | $3/8$ " dia. x $\frac{1}{2}$ " long socket head grubscrew  |
|   | 57          | SLF50     |               | Pollard bearing  |
|   | 58          | A-1060/40 | $\frac{1}{2}$ | Screw for nose cover                                       |
|   | 59          | A-1060/71 | 2             | Toggle bar   |
|   | 60          | C-1060/4  |               | Spindle  |
|   | 61          | D 1000/14 |               | $\frac{1}{4}$ " dia. x 3/8" long fluted dowel              |
|   | 62          | B-1060/14 |               | Cover for spindle nose;                                    |
| · | N           |           |               |  |

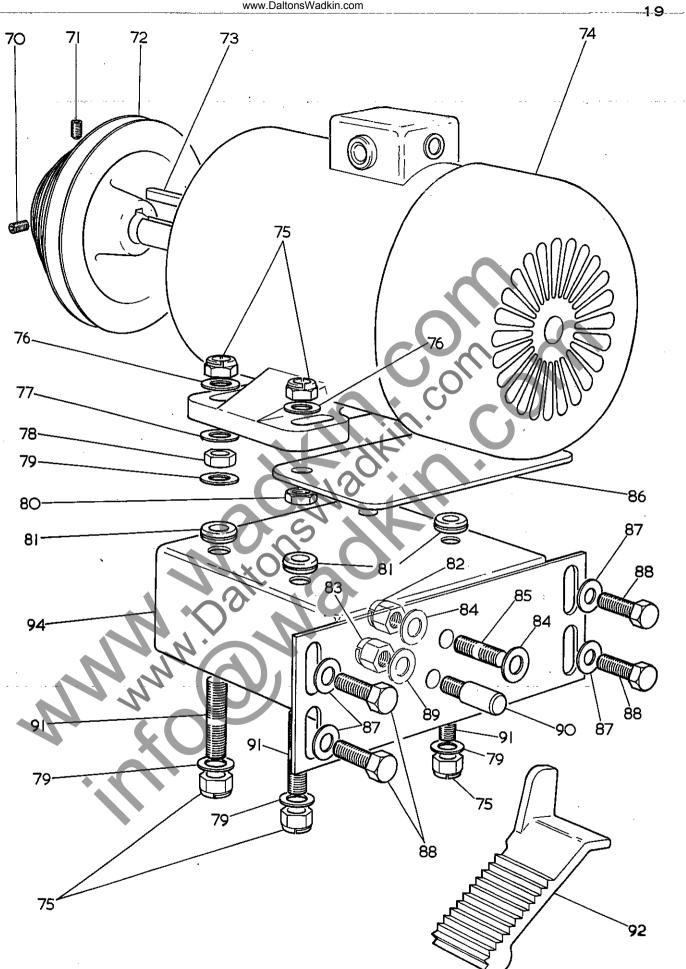
## MOTOR MOUNTING ASSEMBLY

| Ref.<br>No. | Part No.   | No.Off | Description   |
|-------------|------------|--------|---|
| 70          |            | 1.     | $5/16''$ whit. x $\frac{3}{4}''$ long socket head grubscrew                                 |
| 71          |            | 1      | 5/16 " whit. x $5/8$ " long socket head glubscrew $5/16$ " whit. x $5/8$ " long socket head |
| 17          |            | *      | grubscrew   |
| 72          | B-1023/11  | 1      | Motor pulley  |
| 73          | D-1020/11  | 1      | 3/16" wide x 2" long key  |
| 74          |            | 1      | Brook motor, 3 phase, 50 cycles, 1HP  |
| • •         |            | -      | 1,500 rpm, T.E.F.C. continuously rated,   |
|             |            |        | foot mounted, terminal box at 12 o'clock,   |
|             |            |        | special shaft extension.  |
|             |            | 1      | Brook motor, 3 phase, 60 cycles, 1HP  |
|             |            |        | 1,800 rpm, T.E.F.C. continuously rated,   |
|             |            |        | foot mounted, terminal box at 12 o'clock,   |
|             |            |        | special shaft extension   |
|             |            | 1      | Brook motor, 1 phase, 50 cycles, $\frac{3}{4}$ HP   |
|             |            |        | 1,500 rpm, T.E.F.C. foot mounted,   |
|             |            |        | machine tool rated, terminal box at 1 o'clock   |
|             |            |        | condenser at 11 o'clock, special shaft  |
|             |            |        | extension.  |
| 75          |            | 8      | 5/16" whit aerotight nut  |
| 76          |            | • 4    | 5/16" washer  |
| 77          | A-1060/42  | 2      | 5/16" washer (11/32" wide)  |
| 78          | 1 1000 110 | 2      | $5/16^{\prime\prime}$ whit. nut   |
| 79          | A-1060/42  | 6      | $5 \times 16''$ washer (3/32'' wide)  |
| 80<br>01    | C 95       | 2      | 5/16" whit locknut  |
| 81<br>82    | G25        | 4      | Grommett for motor  |
| 83          |            |        | <sup>1</sup> / <sub>2</sub> '' whit. aerotight nut<br>3∕8'' whit. aerotight nut.            |
| 84          |            | 2      | $\frac{1}{2}$ " brass washer  |
| 85          |            |        | $\frac{1}{2}$ whit, x $1\frac{1}{4}$ long stud  |
| 86          | A-1060/12  |        | Motor pivot plate   |
| 87          |            | 4      | 3/8" washer   |
| 88          |            | 4      | $3/8''$ whit. $x \frac{3}{4}''$ long hexagon head bolt                                      |
| 89          |            | 1      | 3/8" BSF washer   |
| 90          | A-1060/39  | 1      | Stop for belt tension   |
| 91          | A-1060/16  | 4      | Motor tension stud  |
| 92          | C-1060/9   | 1      | Belt tension pedal  |
|             |            |        | •   |

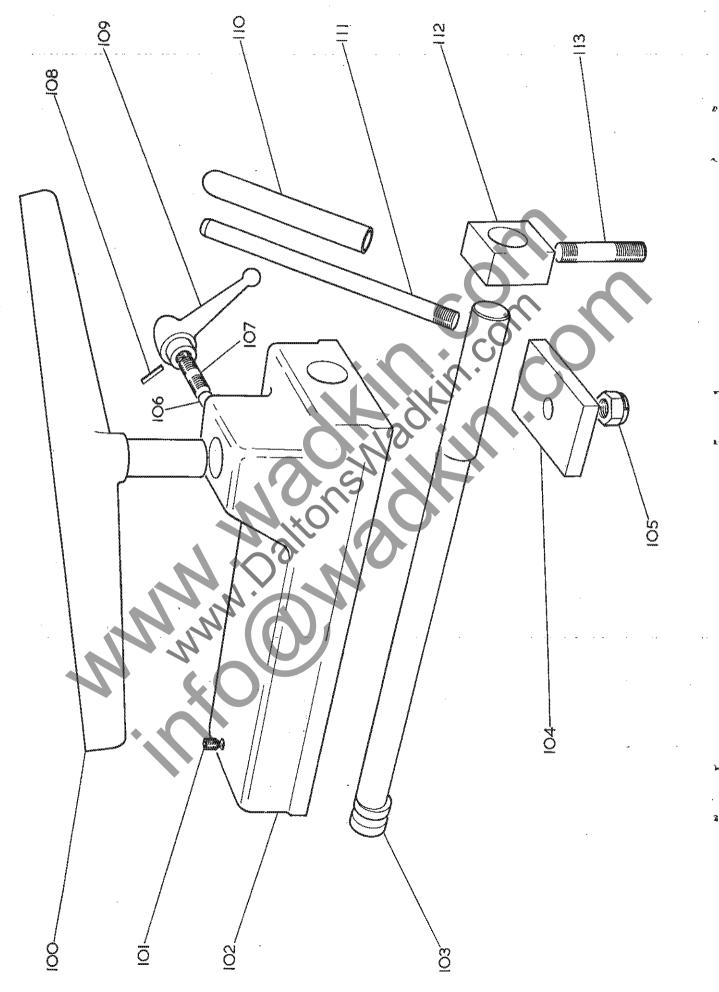
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# INSIDE TURNING ASSEMBLY

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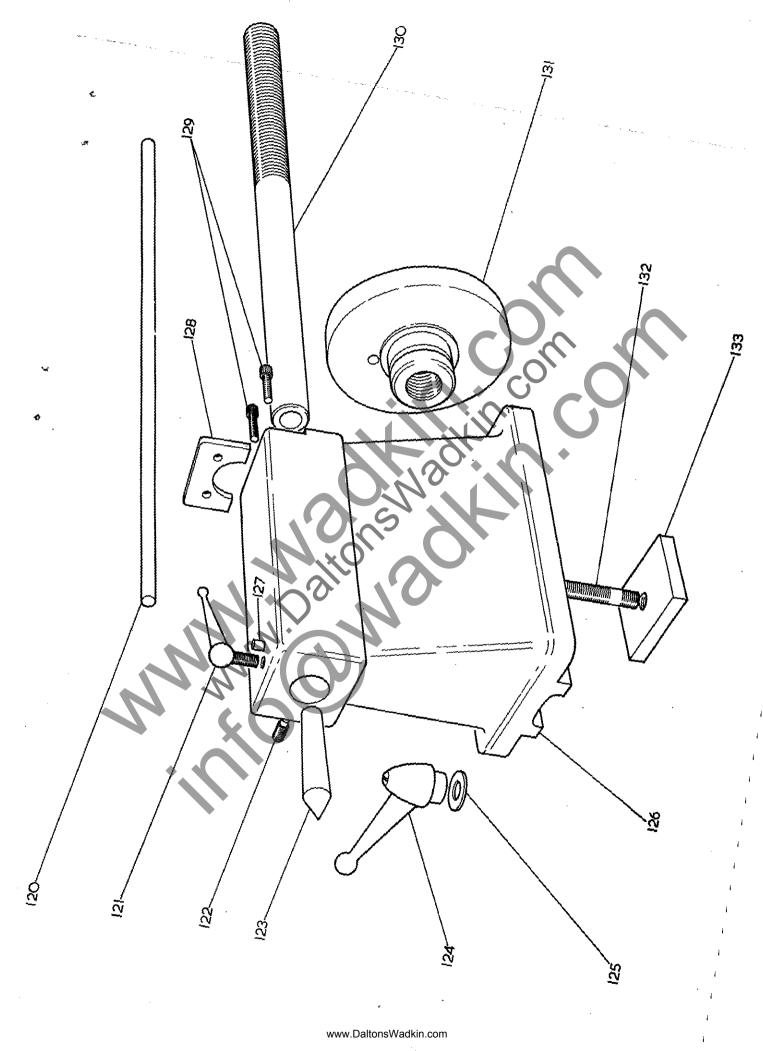
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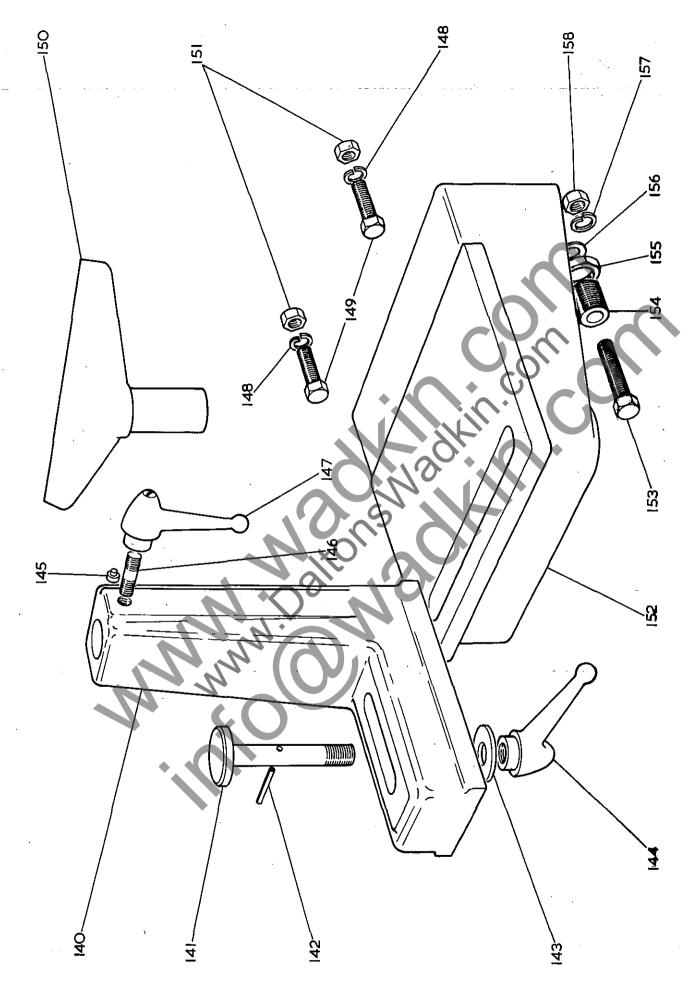
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| Ref.<br>No. | Part No.    | No. Off | Description  |
|-------------|-------------|---------|--|
| 100         | C-1060/18   | 1       | 14" toolrest   |
| 101         | ,           | 1       | 3/8" whit. x 5/8" long dogpoint nylok grubscrew            |
| 102         | C-1060/28   | 1       | Bracket for standard turning                               |
| 103         | A-1060/25   | 1       | Eccentric shaft for turning bracket                        |
| 104         | A-1060 / 23 | 1       | Turning bracket trapping plate                             |
| 105         | ,           | 1       | $\frac{1}{2}$ " whit. (thin) as relight nut                |
| 106 -       | A-1060/73   | 1       | Locking boss   |
| 107 -7      | A-1060/34   | 1       | 2" long toolrest locking stud                              |
| 108-        |             | 1       | $1/8^{11}$ dia. x $\frac{3}{4}^{11}$ long groverlok spring |
|             |             |         | dowel  |
| 109-        | D-S-210     | 1       | Bursgreen adjustable handle $(\frac{1}{2}")$ whit          |
| 110         |             | 1       | "Demco" No. 4 grip handle                                  |
| 111         | A-1060/35   | 1       | Turning bracket locking handle                             |
| 112         | A-1060/27   | 1 .     | Eye block  |
| 113         | ,           | 1       | $\frac{1}{2}$ " dia, x $1\frac{3}{4}$ " long stud          |

# TAILSTOCK ASSEMBLY

| Ref.<br>No. | Part No.  | No.Off | Description  |
|-------------|-----------|--------|--|
| 120         | A-1060/65 | 1      | Knockout bar                                       |
| 121         | /         | 1      | 3/8" whit. x 1" long ball lever screw              |
| 122         |           | 1      | 3/8" whit. x 5/8" long dogpoint nylok<br>grubscrew |
| 123         |           | 1      | Cone centre. No. 2 morse taper                     |
| <b>1</b> 24 | D-S-210   | 1      | Bursgreen adjustable handle $(\frac{1}{2}"$ whit.) |
| 125         |           | 1      | $\frac{1}{2}$ " brass washer                       |
| 126         | D-1060/21 | 1      | Tailstock  |
| 127         | / _       | 1      | $5/16''$ dia. x $\frac{1}{4}''$ long brass bot     |
| 128         | A-1060/24 | 1      | Keep plate for tailstock screw                     |
| 129         | ,         | 2      | 3/16" whit. x 5/8" long socket head capscrew       |
| 130         | B-1060/26 | 1      | Tailstock spindle                                  |
| 131         | B-1060/22 | 1      | Tailstock handwheel                                |
| 132         |           | 1      | $\frac{1}{2}$ " dia. x $2\frac{1}{2}$ " long stud  |
| 133         | A-1060/23 | 1      | Tailstock trapping plate                           |





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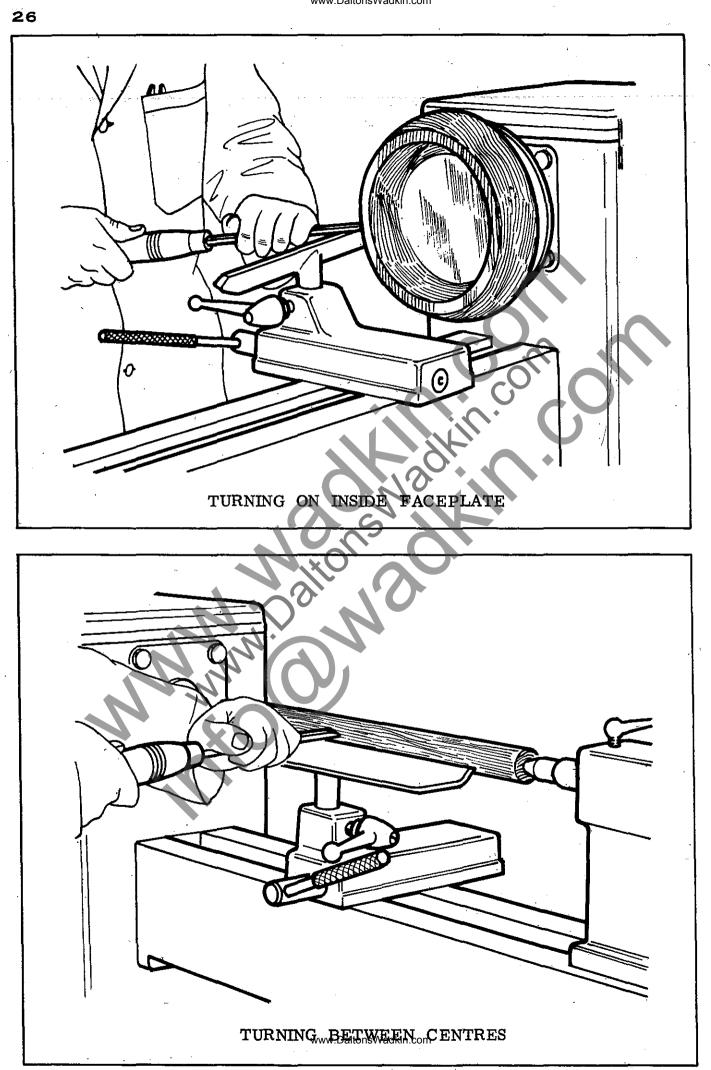
# OUTSIDE TURNING ASSEMBLY

| Ref.<br>No.       | Part No.    | No. Off | Description  |
|-------------------|-------------|---------|--|
| 140               | C-1060/31   | 1       | Bracket for outside turning  |
| 141 -             | A-1060 / 29 | 1       | Outside turning bracket locking bolt                               |
| 142 -             | ,           | 1       | $\frac{1}{4}$ " dia. x $\frac{3}{4}$ " long groverlok spring dowel |
| 143 -             | A-1060/74   | 1       | Washer for outside turning bracket                                 |
| 144               | D-S-210     | 1       | Bursgreen adjustable handle (5/8" whit.)                           |
| 145 <del>~~</del> | A-1060/73   | 1       | Locking boss   |
| 146—              | A-1060/34   | 1       | $1\frac{3}{4}$ " long toolrest locking stud                        |
| 147_              | D-S-210     | 1       | Bursgreen adjustable handle $(\frac{1}{2})$ whit.)                 |
| 148               |             | 2       | $\frac{1}{2}$ " spring washer                                      |
| 149               | u'          | 2       | $\frac{1}{2}$ " whit, x 2" long hexagon head bolt                  |
| 150               | C-1060/20   | 1.      | $7\frac{1}{2}$ " toolrest  |
| 151               |             | 2       | $\frac{1}{2}$ " whit, nut  |
| 152               | D-1060/32   | 1 🔹     | Outside turning support  |
| 153               |             | 1       | $3/8''$ whit, x $2\frac{1}{4}''$ long hexagon head bolt            |
| 154               | A-1060/41   | 1       | Adjusting screw for outside turning support                        |
| 155               | A-1031/51   | 1       | $\frac{3}{4}$ simplex locknut for outside turning support          |
| 156               |             | 1       | 3/8" washer  |
| 157               |             |         | 3/8" spring washer   |
| 158               |             | IO      | 3/8" whit nut  |
|                   |             |         |  |

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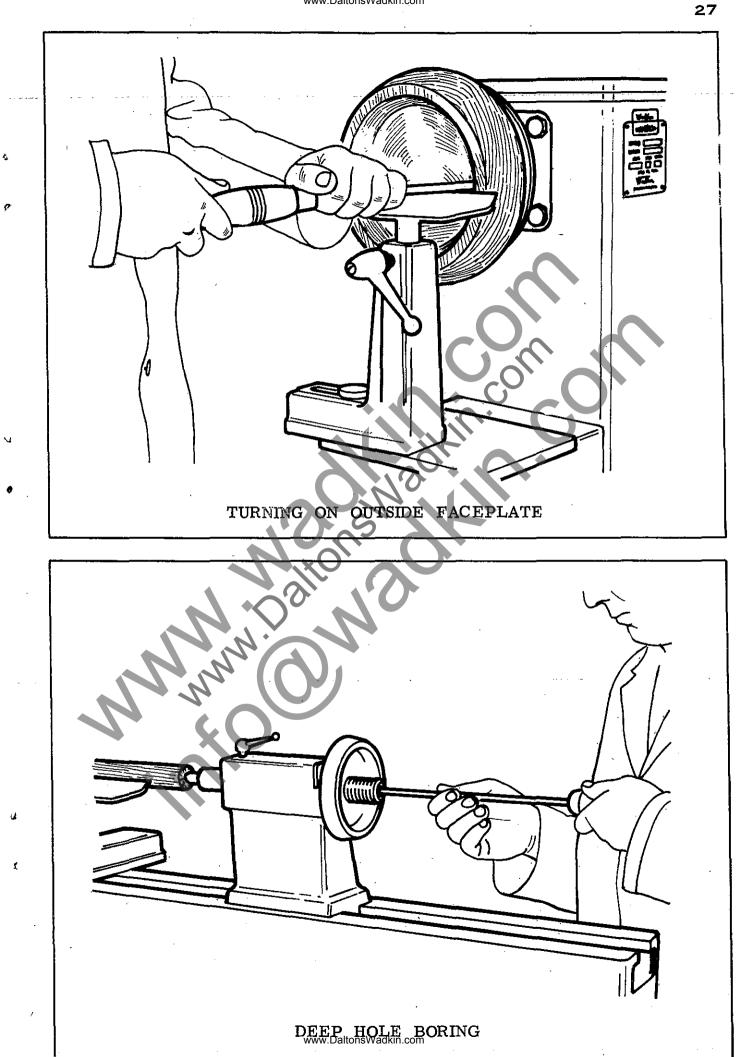
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#### ACCESSORIES FOR USE ON WOOD TURNING LATHES.

CENTRES FOR TAILSTOCK ARE NO. 2 MORSE TAPER CENTRES FOR HEADSTOCK ARE NO., 3 MORSE TAPER



1/2" CAPACITY CHUCK FOR TAILSTOCK (NO. 2 MORSE TAPER),

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HOLLOW OR BELL CHUCK 1" DIA,  $1\frac{1}{2}$ " DIA, 2" DIA, and  $2\frac{1}{2}$ " DIA



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