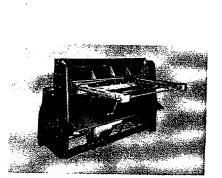
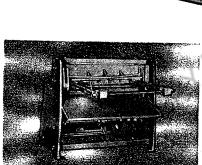
### No. 72 Series POWER SQUARING SHEARS

ALL SHAFTS ON SELF-ALIGNING BEARINGS
MOVING PARTS GUARDED
LIGHT BEAM DIRECTED ON SHEARING LINE
NON REPEAT CLUTCH—QUICK CHANGE TO REPEAT

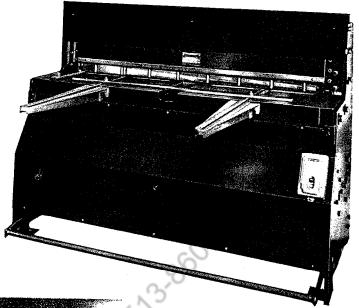


REAR VIEW OF 12 GA. SHEAR 3612 - 5212 - 7212

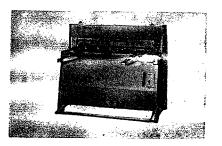


REAR VIEW OF 3616 SHEAR

HEAVY, RIGID, ACCURATE GAUGES
RAM-CLUTCH COUNTERBALANCED ON 12 GA. MODELS
4-EDGE BLADES (12 GA. MODELS ONLY)
IMPROVED DOUBLE-SPRING HOLD DOWNS



FRONT VIEW OF 12 GA. SHEAR 3612 - 5212 - 7212



FRONT VIEW OF 3616 SHEAR

#### SPECIFICATIONS and NET PRICES - F. O. B. FACTORY

|   | No. 3616                     | No. 3612    | No. 5212      | No. 7212  |
|---|------------------------------|-------------|---------------|-----------|
| Capacity — Mild Steel                                       | 16 Ga.                       | 12 Ga.      | 12 Ga.        | 12 Ga,    |
| Shearing Length Maximum                                     | 36"                          | 36"         | 52"           | 72"       |
| Strokes per Minute  | 180                          | 76          | 76            | 76        |
| Back Gauge Maximum Range                                    | 24"                          | 24"         | 24"           | 24"       |
| Front Gauge Maximum Range                                   | 38"                          | 38"         | 38"           | 38"       |
| Height Overall  | 48"                          | 48"         | 48"           | 48"       |
| Floor Space Required with Front and Back Gauges in Position | 83" x 51"                    | 83" x 51"   | 83" x 67"     | 88" x 79" |
| Motor   | 2 H.P. 3 Ph.<br>1200-220-440 | 2 H.P.      | 3 Phase 1800- |           |
| Rake Upper Shear Blade per Foot                             | 11/39"                       | 1135"       | 1130"         | 114,9"    |
| Clutch  | NON REPEA                    | r with our  | CK CHANGE     |           |
| Domestic Shipping Weight of Shear                           | 2200 lbs.                    | 2800 lbs.   | 3160 lbs.     | 4020 lbs. |
| Domestic Shipping Weight of Shear Blades per Set            | 22 lbs.                      | 50 lbs.     | 75 lbs.       |           |
| Net Price less Motor with Carbon Blades                     | \$13~0.00                    | - \$1735.00 |               | 100 lbs.  |
| Net Price with 3 Phase 220-440 2 HP Motor and Carbon Blades | 1450,00                      |             | \$2460.00     | \$3670.00 |
| Net Price with 3 Phase 550V 2 HP Motor and Carbon Blades    |                              | 1815.00     | 25-10.00      | 3~50.00   |
| Net Price Carbon Blades—4 Edge per Set                      | 1450.00                      | 1815.00     | 2540.00       | 3750.00   |
| Net Price Durachrome Blades—i Edge per Set                  | Not Furnished                | 151.25      | 211.75        | 285.00    |
| Net Price Carbon Blades—Single Edge per Set                 | Not Furnished                | 272.25      | 393.25        | 485.00    |
| Net Price Uich Small State Die L. C. 1 P. 1                 | 110.00                       |             |               |           |
| Net Price High Speed Steel Blades-Single Edge per Set       | 220.00                       |             |               |           |

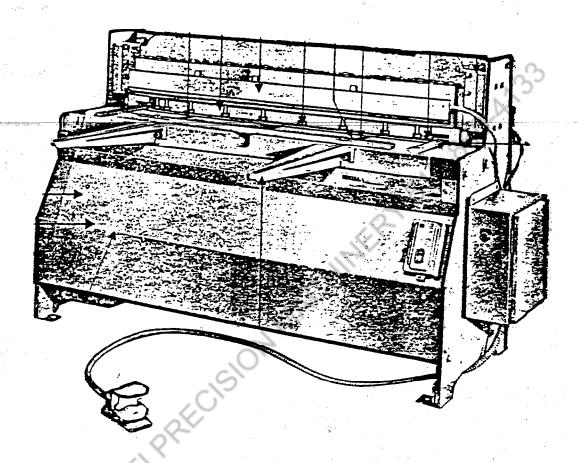
<sup>4</sup> Edge Blades Not Furnished on No. 3616 Model Shear.

Machines purchased less motor will be equipped with the following—Switch (state phase desired), belts, motor mounting, guard (where applicable), motor shive.

COMPANY



# POWER SQUARING SHEARS



CARE · OPERATION · PARTS LIST



no.72 series



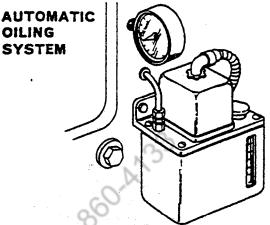
### **POWER SQUARING SHEARS**

We only ask you compare quality and cost with other shears on the market. Notice such standard items on the Roper-Whitney shears as remote control provided by guarded safety foot switch, 4 edge blades, neoprene inserts in the hold-downs, light on the work area, front sheet supports, accurate crank-operated back gauge and others.

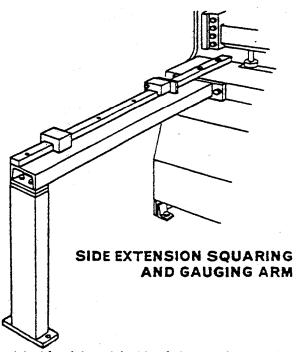
These are not options; they are standard features on all Roper-Whitney 72 series shears. Remember these standard features when comparing price. Feature for Feature, dollar for dollar, your choice should be Roper-Whitney.

| <b>s</b> pecifications                     | 5212                                      | 7212      |  |  |
|--|---|-----------|--|--|
| Capacity, mild steel                       | 12 ga.                                    | 12 ga.    |  |  |
| Shearing length, maximum                   | 52"                                       | 72*       |  |  |
| Strokes per minute                         | 76  | 76        |  |  |
| Back Gauge, maximum range                  | 24"                                       | 24"       |  |  |
| Front Gauge, maximum range                 | 38′                                       | 38″       |  |  |
| Height overall                             | 45"                                       | 45"       |  |  |
| Floor space required, gauges in position   | 76" x 83"                                 | 88" x 88" |  |  |
| Length                                     | 68-3/4"                                   | 89-1/4"   |  |  |
| Width.                                     | 30" _                                     | 34"       |  |  |
| Work Table Height                          | 32*                                       | 35.       |  |  |
| Standard Motor                             | 2 hp, 3 ph,<br>1800 rpm,<br>220-440V      |           |  |  |
| Rake of upper shear blade per foot         | 11/32                                     | 11/32*    |  |  |
| Clutch, pin-type                           | Non-Repeat with<br>Quick Change to repeat |           |  |  |
| Shipping weight, power squaring shear      | 3160 lbs.                                 | 4020 lbs. |  |  |
| Shipping weight of shear blades, per set   | 75 lbs.                                   | 100 lbs.  |  |  |
| Capacity of shear is reduced 2 gauges on s | tainless steel.                           | N         |  |  |

### optional equipment



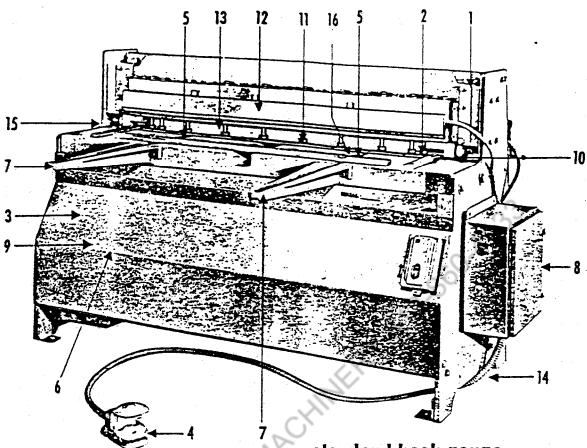
Fully automatic, timer controlled oiling system available. Can be set to automatically lubricate from five minutes cycle time for heavy duty applications to lesser times for light duty applications.



Furnished for right or left side of shear with one solid stop and one lift out arm for gauging. Additional stops available. Invaluable for large, thin sheet working where sheet curl will not allow back gauging.

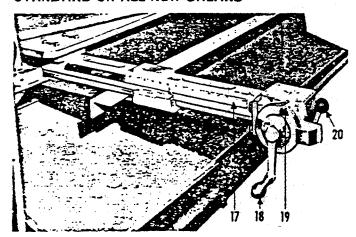
## POWER SQUARING SHEARS

### no. 72 series



- Nylon Gibs are non-scoring, accurate, long lasting
- 2 Four edge blades-each edge a cutting edge
- All Gearing, drives, shafts under shear with heavy gauge guards
- Remote control safety guarded foot trip switch on armored 12 foot cable
- T Slots in table
- All shafts on self-aligning sealed bearings 6
- 2 Front gauge extension arms furnished 7
- Trip switch control for single or full repeat stroke 8
- Electrically operated pin type clutch
- 10 Independently gibbed cam operated hold down rampositive and accurate
- Neoprene faced holddown pads 11
- Light beam on shearing line 12
- Clear plastic see through finger guard 13
- 14 Minimum floor space required
- 15 More strakes per minute
- Imbedded table scales 16

### slandard back gauge



- 17 Side rule measure
- Crank operated 18
- 19 Handwheel graduated in .001 for accuracy
- Lock to prevent unwanted movement 20



ROPER WHITNEY, INC., ROCKFORD, ILL. 61101 U.S.A.

#### **CARE · OPERATION · PARTS LIST**

BLADE ADJUSTMENT: (See Fig. 1 and Fig. 2) To set blades for clearance, loosen frame and table bolts (37) (both sides) slightly. Loosen table locking screws (39) and also loosen pillow block bolts (57 and 58), and tighten table adjusting screws (38) to bring blades closer together. Run ram down and check clearance by using a thickness gauge at various points along blades. If blades are too close together reverse this procedure by loosening adjusting screws (38) and tightening locking screws (39). After the desired clearance has been obtained, tighten frame and table bolts (37), pillow block bolts (57 and 58). (Standard Clearance .002.)

GIB ADJUSTMENT OF RAM: (See Fig. 1) There are 8 adjusting screws (10) for taking up the wear of the gibs. Caution should be taken so as not to have the gibs too tight. These shears are equipped with nylon gibs.

When shear is in operation, drip oilers (7) should be filled and in operation.

ADJUSTMENT OF HOLD DOWN RAM: (See Fig. 1 and Fig. 4) The hold down ram furnished on the shear is set to a predetermined tension to insure complete rigidity of metal at time of cutting.

To remove the hold down ram, remove the flourescent light mounting strip (14). Remove hold down ram pull bolts (108), loosen hold down gib adjusting screws (11) slightly. Hold down ram can then be removed by lifting toward the top. This allows complete access to the upper blade.

To replace the hold down ram reverse this procedure.

Should the need arise to decrease the hold down tension, lighter hold down plunger springs (105) can be furnished. To replace these hold down plunger springs the hold down ram should be removed as instructed in the above paragraph.

Before removing hold down plungers, measure the distance between the bottom of the hold down plungers and the bottom of the hold down ram, so when replacing the hold down plungers this distance is maintained.

If at anytime the hold down ram has to be raised or lowered, this is done by tightening or loosening turnbuckle (114). At no time should the hold down ram be lowered to any great degree so that it would allow the plexiglass shield to strike the table.

If the hold down ram should fail to raise properly, first, check to see if the gib adjusting screws (11) are too tight. Second, more tension can be added to the hold down lift spring (122) by tightening hold down lift spring adjusting bolts (126).

CARE OF NON REPEAT CLUTCH: (See Fig. 4) The clutch is actuated by a solenoid. If at any time the clutch latch does not engage quick enough on the return cycle, more tension should be added to the clutch eyebolt spring by tightening the clutch eyebolt spring nut (147). The clutch latch (144) should never ride the bottom of the clutch hub (81, Figure 3). A clearance of 1/16" should be maintained between the clutch latch and the bottom of the clutch hub. To adjust clutch latch, loosen fulcrum arm adjusting block bolt (133) and tighten or loosen fulcrum arm adjusting screw (129). After correct adjustment is made, tighten fulcrum arm adjusting block bolt (133). Grease clutch latch side of clutch hub periodically.

CLUTCH SELECTOR CONTROL: (See Fig. 1) This shear is equipped with a Micro Switch Trip Control, with a conveniently located selector switch for continuous or single stroke operation. If at anytime this control does not function properly it could be that the limit switch (35) has become loose and should be moved forward and the screws should be tightened.

When selector switch is set for single stroke it is impossible for the shear to repeat stroke until the foot switch has been released and depressed again. When the selector switch is set for continous operation the shear will run continously as long as the foot switch is held in the depressed position.

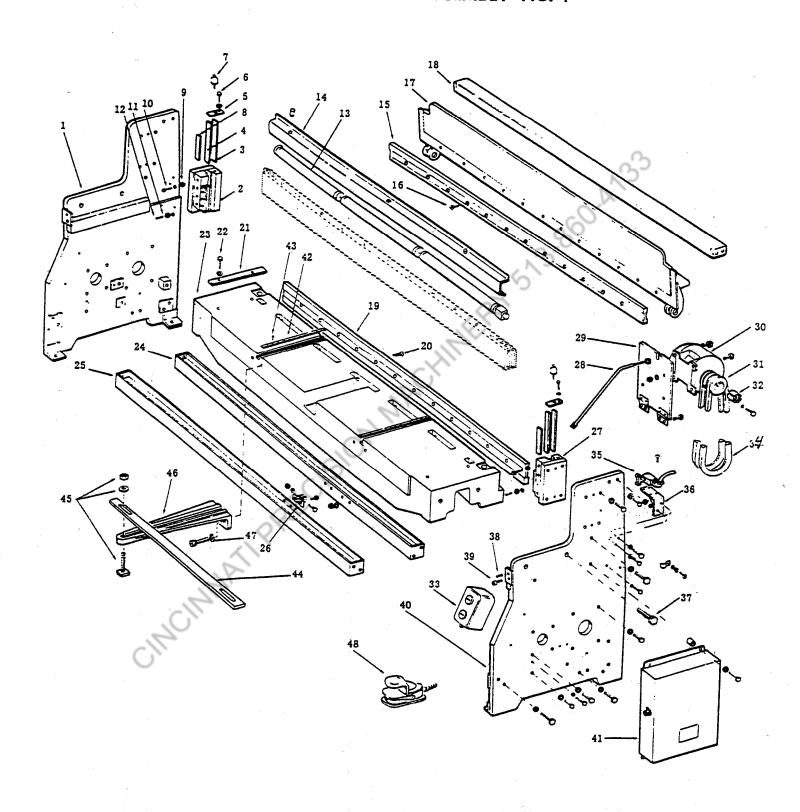
BRAKE ADJUSTMENT: (See Fig. 3) Brake tension can be adjusted as follows: For more brake tension turn nut located on brake tension stud (98) clockwise. To lessen brake tension turn nut counterclockwise.

BACK GAUGE ADJUSTMENT: (See Fig. 5) If the back gauge becomes out of square, loosen square head set screws (176) so that each side of gauge can be adjusted separately. Then adjust both ends of gauge bar (151) parallel with lower blade, and the opening between lower blade and gauge bar corresponds with the gauge pointer (162). Then tighten set screws (176).

If repeated cuts of the same depth are desired, set the gauge bar to the correct depth and tighten thumb screws (179). This will lock the back gauge slide (157) and insure accurate cutting for long production runs.

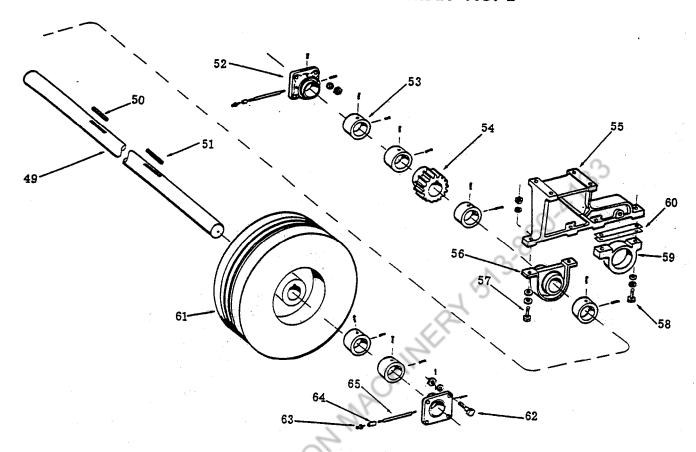
LUBRICATION: Any machine will last longer and run better if properly lubricated. Inspect drip oilers (7) periodically and fill as required. Texaco Regal C (R&O) or equal oil is recommended to be used in the drip oilers. All shears have self contained ball bearing units, bearings should be greased twice annually. Texaco Multifac #2 or equal is recommended in the ball bearing units. Keystone #122 X Heavy grease or equal is recommended to be used periodically on the primary and bull gear teeth. The connecting rod and bull gear should be greased daily with Texaco Multifac #2 or equal when shear is used continually.

#### GENERAL SHEAR ASSEMBLY FIG. 1



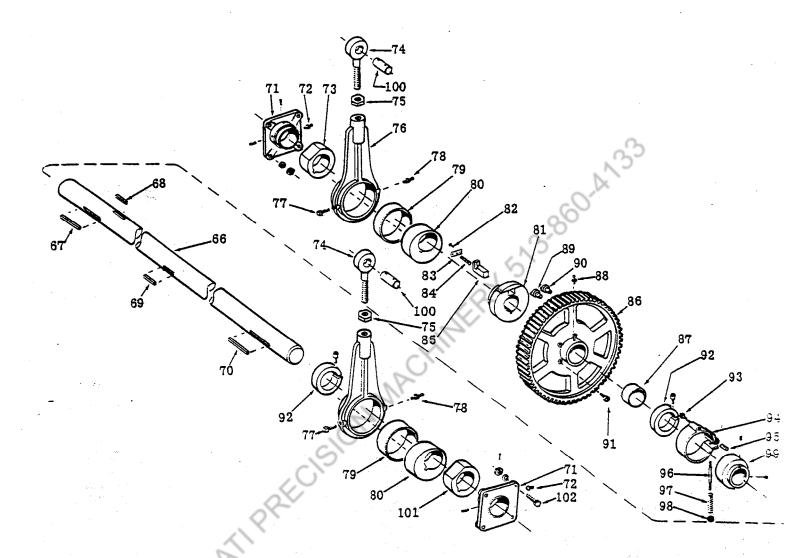
| ine a |   |   | МО   | DEL 3612 | MOI   | DEL 521? | MOE  | EL 7212 |
|-------|---|---|--|----------|---|----------|--|---------|
|       | PART<br>NO.   | PART NAME   | NO.<br>REQ   | •        | NO.<br>REQ.   | [        | NO.<br>REQ.  |         |
|       | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26 | Left hand side frame Left hand gib holder Ram gib rear Ram gib front Gib oiler mount plate Gib oiler mount plate bolt w/washer Drip sight feed oiler Hold down ram gib Ram gib adjusting screw lock nut Ram gib adjusting screw Hold down ram gib adjusting screw nut Hold down ram gib adjusting screw Flourescent lamp Flourescent lamp Flourescent lamp strip w/reflector Upper shear blade (carbon) Upper shear blade (durachrome) Upper spreader bar Lower shear blade (carbon) Lower shear blade (durachrome) Lower shear blade (durachrome) Lower shear blade (durachrome) Lower shear blade bolt, nut, washer Table side gauge Table side gauge Table side gauge Rear spreader bar Front spreader bar Front spreader bar Motor plate adjusting rod anchor brkt. | 112222288662111711117241112  | EPT.     | 1 1 2 2 2 2 2 2 8 8 6 6 3 1 1 1 9 1 1 1 1 9 2 4 1 1 1 2       |          | 1 1 2 2 2 2 2 2 8 8 6 6 4 1 1 1 1 1 1 1 2 2 4 1 1 1 2    |         |
|       | 30<br>31A<br>33   | Right hand gib holder Motor plate adjusting rod Motor plate Motor Motor sheave w/bushing complete 31A. Consists of: 31 - Motor sheave 32 - Motor sheave bushing Motor starter V belt  | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>3                                    |          | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>3                     |          | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>3                     |         |
|       | 35<br>36<br>37<br>38<br>39<br>40<br>41<br>42<br>43<br>44<br>45<br>46<br>47  | Limit switch Limit switch brkt. Side frame & table bolt, washer Table adjusting screw Table locking screw Right hand side frame Micro switch trip control box Graduated table scale Graduated table scale screw Table gauge bar Table gauge bar bolt, nut, washer Table extension arm Table extension arm bolt, washer Foot trip switch   | 1<br>1<br>4<br>2<br>2<br>1<br>1<br>2<br>4<br>1<br>2<br>4<br>1<br>2<br>4<br>1 |          | 1<br>1<br>4<br>2<br>2<br>1<br>1<br>2<br>4<br>1<br>2<br>4<br>1 |          | 1<br>1<br>2<br>2<br>1<br>1<br>2<br>4<br>1<br>2<br>4<br>1 |         |

### FLYWHEEL SHAFT ASSEMBLY FIG. 2



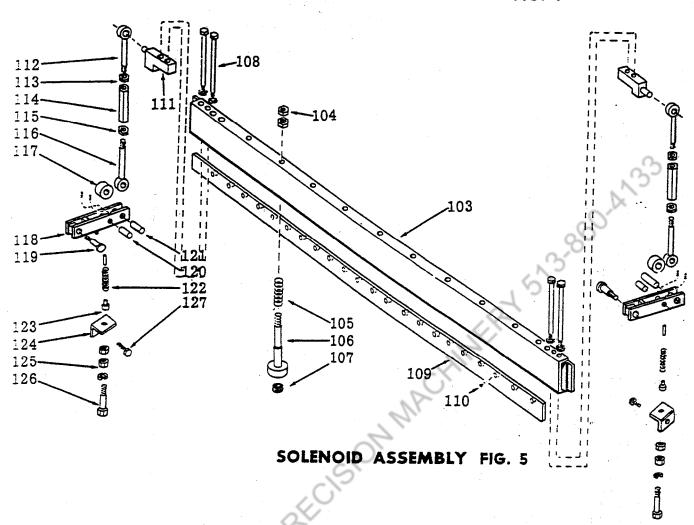
| DADM        |   | MOI         | EL 3612       | MOL         | EL 5212                               | MOI         | EL 7212       |
|-------------|---|-------------|---------------|-------------|---------------------------------------|-------------|---------------|
| PART<br>NO. | PART NAME                                   | NO.<br>REQ. | PRICE<br>EACH | NO.<br>REQ. | PRICE<br>EACH                         | NO.<br>REQ. | PRICE<br>EACH |
| 49          | Flywheel shaft                              | 1           | ····          | 1           | · · · · · · · · · · · · · · · · · · · | 1           | , <del></del> |
| 50          | Primary gear key                            | 1           |               | ī           |                                       | l i         |               |
| 51          | Flywheel key                                | 1           |               | 1           |                                       | ī           |               |
| 52          | Flywheel shaft end bearing                  | 2           |               | 2           |                                       | 2           |               |
| 53          | Flywheel shaft collar                       | 6           |               | 6           |                                       | 6           |               |
| 54          | Primary gear                                | 1 1         |               | 1           |                                       | i           |               |
| 55          | Shaft support                               | 1           |               | 1           | •                                     | ī           |               |
| 56          | Flywheel shaft center bearing               | 1           |               | 1           |                                       | 1           |               |
| 57          | Flywheel shaft center bearing bolt          |             |               |             |                                       | _           |               |
|             | nut, washer                                 | 2           |               | 2           |                                       | 2           |               |
| 58          | Crankshaft center bearing bolt, nut         |             |               |             | -                                     |             |               |
| 59          |   | 2           |               | 2           |                                       | 2           |               |
| 60          | Crankshaft center bearing                   | 1           | j             | 1           |                                       | 1           |               |
| 61          | Crankshaft center bearing shims             | 2           | [             | 2           |                                       | 2           |               |
| 62          | Flywheel                                    | 1           | 1             | 1           | e See a                               | 1 [         |               |
| 02          | Flywheel shaft end bearing bolt, nut washer | 8           |               |             |                                       |             |               |
| 63          | Grease fitting                              | 9           | ĺ             | 8 2         | •                                     | 8           |               |
| 64          | Grease fitting coupling                     | 2           |               | 2           |                                       | 2           |               |
| 65          | Grease fitting pipe                         | 2           | . 1           | 2           |                                       | 2           | et e se       |

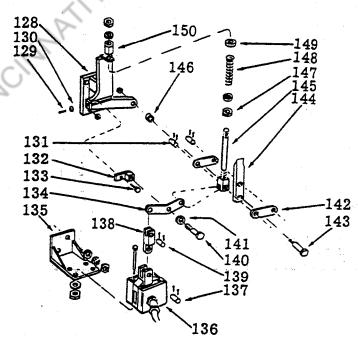
### CRANK SHAFT ASSEMBLY FIG. 3



| PART |                                      | MODEL 3612   MODEL 5212   MODEL 7212 |             |             |             | EL 3612                                  | MODEL 5212 | MODE                                     | EL :21        |             |   |
|------|--------------------------------------|--------------------------------------|-------------|-------------|-------------|--|------------|--|---------------|-------------|---|
| NO.  | PART NAME                            | NO.<br>REQ.                          | NO.<br>REQ. | NO.<br>REQ. | PART<br>NO. | PART NAME                                | YO.        |  | .YO.<br>RIFQ. | NO.<br>REQ. |   |
| 56   | Crankshaft                           |                                      |             |             | 1           |  | 1          | -  |               |             | • |
| 67   | Hold down cam key                    | 1 2 1                                | 1 2 1       | 1 2 1       | 864         | Bull Gear Assembly Complete              | 1 .        |  |               | 1 . 1       |   |
| 68   | Cam Key                              | 2                                    | 1 2         | ! 2         | ,           | 88A-Constate of:                         |            |  | •             | • i         |   |
| 69   | Clutch hub key                       | lil                                  | 1 i l       | 1 7 1       | H           | 36-Buil gear                             | 1 .        |  |               | 1,1         |   |
| 70   | Brake drum key                       | i                                    | 1 i i       | i           | į.          | 87-Buil gear bearing                     | 1 .        |  | : 1           |             |   |
| 72   | Crankshaft end bearing               | 2                                    | 2           | 2           | ł           | 88-Grease (itting                        | 1:         |  | 1 : 1         |             |   |
| 72 I | Grease (litting                      | 1 2                                  | 1 7         | ;           | 4           | 89-Contact ota                           |            |  | 1             | 1 4         |   |
| 73   | Left hand hold down cam              | 1 7 1                                | 1 1         | 1:1         | 1           | 90-Recoil gin                            | 1 3        | 17.4                                     | •             | 1 3 1       | : |
| 14   | Connecting rod eyebolt               | 1 2 1                                | 2           | ;           |             | 91-Contact 4 recoil pin boit             | 1 : 1      | '  |               | 1:1         |   |
| 5    | Connecting rod eyebolt nut           | 1 2                                  | 2           | 7           | 92          | Crantabalt collar                        |            |  | •             | 2           |   |
| i A  | Connecting Rod Assembly Complete     | 1 2                                  | 7           | ;           | 93          |  | 1 : 1      |  | 2             | 1 : 1       |   |
| 77 [ | 76A-Consists of:                     | 1 7 1                                | ! •         | •           | 944         | Brake band anchor buit                   | 1 : 1      |  | 1.            | 1 : 1       |   |
| - 1  | 76-Connecting rod                    | ,                                    | , ,         | •           | ~~~         | Brake Band Assembly Complete             | 1 1        |  | 1             | Į I  .      |   |
| - 1  | 77-Connecting rod bearing lock screw | 5                                    | ;           | ;           |             | 94A-Consists of:                         |            |  | - 1 to 1      | 1 . 1       |   |
| ſ    | 78-Grease fitting                    |                                      | : 1         |             |             | 94-Brake band w/lining                   | 1 1        |  | 1             | 1 1         |   |
| - 1  | 79-Connecting rod bearing            |                                      | 1           | 1 : 1       | 1           | 95-Brake hinge stud                      | 1 1        |  | 1             | 1 1         |   |
| 0    | Cam                                  |                                      |             | :           | 1 1         | 96-Brake band adjusting stud             | 1 1        |  | 1 [           | 1           |   |
|      | Clutch Hub Assembly Complete         | •                                    | 1 1         | • 1         |             | 97-Brake band tension spring             | 1          |  | 1             | 1 1         |   |
|      | 81A-Consists of:                     | 1 1 1                                | 1           | 1           | 1 1         | 98-Brake band adjusting stud nut         | 1          |  | 1             | 1           |   |
| - 1  |                                      | 1 1                                  | .           |             | 99          | Brake drum                               | 1          |  | 1             | 1 1         |   |
| - 1  | 81-Clutch hub                        |                                      | 1           | 1           | 100         | Connecting rod pin                       | 2          | `. · · · · · · · · · · · · · · · · · · · | 2             | 2           |   |
| ſ    | 82-Clutch pin retainerplate screw    | 2                                    | 2           | 2           | tot         | Right hand hold down cam                 | 1 1        |  | 1             | l i l       |   |
| - 1  | 83-Clutch pin retainer plate         |                                      | 1           | 1           | 102         | Crankshaft end bearing boit, nut, washer | 8          | 1  | . 8           | 8           |   |
| - 1  | 84-Clutch pin spring                 |                                      | 1           | 1 1         | 1           |  | 1 1        | i  |               | 1           |   |
| 1    | 85-Cluten pin                        | 1 1                                  | 1           | 1           |             |  |            |  | ł             |             |   |

#### HOLD DOWN RAM ASSEMBLY FIG. 4



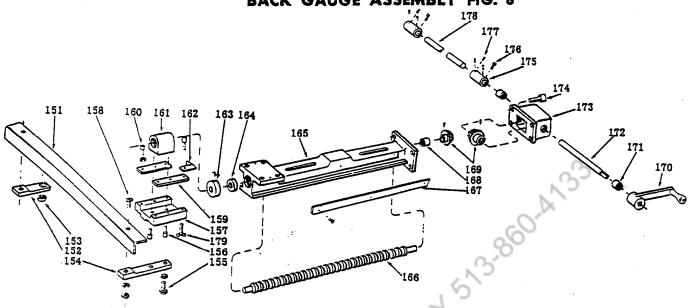


WHITNEY METAL TOOL COMPANY, ROCKFORD, ILLINOIS, U. S. A.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

|   |            |  | MOI         | DEL 3612 | MOL         | EL 5212                               | MOD      | EL 7212 |
|---|------------|--|-------------|----------|-------------|---------------------------------------|----------|---------|
|   | PART       | · 整件 表。                                    | NO.         | PRICE    | NO.         | PRICE                                 | NO.      | PRICE   |
|   | NO.        | PART NAME                                  | REQ.        | EACH     | REQ.        |                                       | REQ.     | EACH    |
|   | 103        | Hold down ram                              | 1           |          | 1           | :                                     | 1        |         |
|   | 103        | Hold down plunger nut                      | 16          | ļ        | 20          |                                       | 26       |         |
|   | 105        | Hold down plunger spring                   | 8           |          | 10          | ·                                     | 13       |         |
|   | 106A       |  | 8           |          | 10          |                                       | 13       |         |
|   |            | 106A-Consists of:                          |             |          |             | -                                     |          |         |
|   |            | 106-Hold down plunger                      | 8           |          | 10          |                                       | 13       |         |
|   |            | 107-Hold down plunger neoprene insert      | 8           |          | 10          |                                       | 13       | *       |
|   | 108        | Hold down ram pull bolt                    | 4           |          | 4           |                                       | 4        |         |
|   | 109        | Plastic finger guard                       | 1           |          | 1           |                                       | <u>0</u> |         |
|   | 110        | Plastic finger guard screw w/washer:       | 10          |          | 12          | , s                                   | 15       | *       |
|   | 111        | Upper eyebolt pivot brkt.                  | 2           |          | 2           | De                                    | 2        |         |
|   | 112        | Upper eyebolt                              | 2           |          | 2           | Carre                                 | 2 2      | 165     |
|   | 113        | Upper eyebolt lock nut                     | 2           |          | 2 2         | 6                                     | 2        |         |
|   | 114        | Turnbuckle                                 | 2           |          | 2           | 5                                     | 2        | * .     |
|   | 115        | Lower eyebolt lock nut                     | 2           |          | 2 2         |                                       | 2        |         |
|   | 116        | Lower eyebolt                              | 2           |          | 2           | er e                                  | 2        |         |
|   | 117        | Hold down cam roller                       | 2 2         | 1        | 2           |                                       | 2        |         |
|   | 118        | Hold down clamp arm                        | 2           | 0        | 2           |                                       | 2        |         |
|   | 119        | Hold down clamp arm pivot bolt             | 2           |          |             |                                       | 2        |         |
|   | 120<br>121 | Hold down cam roller pin Lower eyebolt pin | 2<br>2<br>2 |          | 2<br>2<br>2 |                                       | 2        |         |
|   | 122        | Hold down lift spring                      | 2           |          | 2           |                                       | 2        |         |
|   | 123        | Hold down lift spring seat                 | 2           |          | 2           |                                       | 2        | Awe 11  |
|   | 124        | Hold down lift spring bracket              | 2           |          | 2           |                                       | 2        |         |
|   | 125        | Hold down lift spring adj. bolt lock nut   | 4           | !        | 4           |                                       | 4        | 191     |
|   | 126        | Hold down lift spring adj. bolt            | 2           |          | 2           |                                       | 2        |         |
|   | 127        | Hold down lift spring bracket bolt         | 4           |          | 4           |                                       | 4        |         |
|   | 128        | Clutch bracket                             | 1           |          | 1           |                                       | 1        |         |
|   | 129        | Fulcrum arm adjusting screw                | 1           |          | 1           |                                       | 1        |         |
|   | 130        | Fulcrum arm adjusting screw lock nut       | 1           |          | 1           |                                       | 1        |         |
|   | 131        | Clutch latch link pin                      | 2           |          | 2           |                                       | 2        |         |
| j | 132        | Fulcrum arm adjusting block                | 1           |          | 1           |                                       | 1        |         |
|   | 133        | Fulcrum arm adjusting block bolt           | 1           |          | 1           |                                       | 1        |         |
| [ | 134        | Fulcrum arm                                | 1           |          | 1           |                                       | 1        |         |
|   | 135        | Solenoid bracket                           | 1           | ļ        | 1           |                                       | 1        |         |
| ľ | 136        | Solenoid                                   | 1           |          | 1           |                                       | 1        |         |
|   | 137        | Solenoid plunger pin                       | 1           |          | 1           |                                       | 1 1      |         |
|   | 138        | Solenoid link                              | 1           |          | 1           |                                       | 1        |         |
| l | 139        | Solenoid link pin                          | 1           |          | 1           |                                       | 1        |         |
| ļ | 140        | Fulcrum arm hinge bolt                     | 1           |          | 1           |                                       | 1        |         |
|   | 141        | Fulcrum arm hinge bolt bushing             | 1           |          | 1           |                                       | 1 2      |         |
| 1 | 142        | Clutch latch link                          | 2           |          | 2           |                                       | 1        |         |
| į | 143        | Clutch latch bolt w/nut                    | 1           | . 100    | 1           |                                       | 1 1      |         |
| ļ | 4          | Clutch latch                               | 1           |          | 1           | e i sel                               | 1 1      |         |
| į |            | Clutch eyebolt                             | 1           |          | 1           | \$p                                   | 1        |         |
|   |            | Clutch latch spacer                        | 1 2         | er janer | 1 1         | 43                                    | 2.       |         |
|   |            | Clutch eyebolt lock nut                    |             | , j. 20  | 2           | 1 4                                   | 1        |         |
|   |            | Clutch eyebolt spring                      | 1 2         |          | 1           | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2        |         |
| 1 |            | Clutch eyebolt spring seat                 |             |          | 2           |                                       |          |         |
| Ì | 150        | Clutch eyebolt adjusting nut               | 1           |          | 1           |                                       | 1        |         |





|             |                                  | MODEL 3612  | MODEL 5212  | MODEL 7212  |
|-------------|----------------------------------|-------------|-------------|-------------|
| PART<br>NO. | PART NAME                        | NO.<br>REQ. | NO.<br>REQ. | NO.<br>REQ. |
| 151         | Back gauge bar                   | 1           | 1           | 1           |
| 152         | Right hand extension arm         | $\cup_1$    | 1           | 1           |
| 153         | Right hand extension arm bushing | 1           | 1           | 1           |
| 154         | Left hand extension arm          | 1           | 1           | 1           |
| 155         | Extension arm bolt               | 3           | 3           | 3           |
| 156         | Gauge nut bolt                   | 4           | 4           | 4           |
| 157         | Back gauge slide                 | 2           | 2           | 2           |
| 158         | Gauge bar screw nut and washer   | 2           | 2           | 2           |
| 159         | Slide clamp                      | 4           | 4           | 4           |
| 160         | Slide clamp screw                | 12          | 12          | 12          |
| 161         | Gauge nut                        | 2           | 2           | 2           |
| 162         | Scale pointer                    | 1           | 1           | 1           |
| 163         | Gauge screw locking collar       | 2           | 2           | 2           |
| 164         | Gauge screw bearing              | 2 2 2       | 2 2 2 2 2   | 2           |
| 165         | Back gauge arm                   | 2           | 2           | 2           |
| 166         | Gauge screw                      | 2           | 2           | 2           |
| 167         | Graduated scale                  | 1           | 1           | 1           |
| 168         | Gauge arm bearing                | 2           | 2           | 2           |
| 169         | Gauge mitre gear                 | 4           | 4           | 4           |
| 170         | Gauge crank                      | 1           | 1           | 1 1         |
| 171         | End cap bearing                  | 4 .         | 4           | 4           |
| 172         | End cap shaft                    | 2           | 2           | 2           |
| 173         | End cap                          | 2           | 2           | 2           |
| 174         | End cap mounting screw           | - 8         | 8           | 8           |
| 175         | Coupling sleeve                  | 2           | 2           | 2           |
|             | Coupling sleeve bolt             | 2           | 2           | 2           |
|             | Coupling sleeve lock screw       | 6           | 6           | 6           |
|             | Center shaft                     | 1           | 1           | 1           |
| 179         | Back gauge slide locking screw   | - 2         | 2           | 2           |
|             | Front skirt (not shown)          | 1           | 1           | 1           |
|             | Back scrap chute (not shown)     | 1           | 1           | 1           |
|             |                                  |             |             | <u> </u>    |