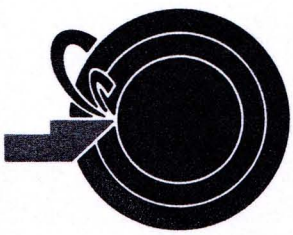
BULLETIN NO. 25B



# Engine Lathe

## Parts Catalog

**Sizes: 14″B, 16″C, 20″D, 20″E, 25″F**

American Tool
INCORPORATED

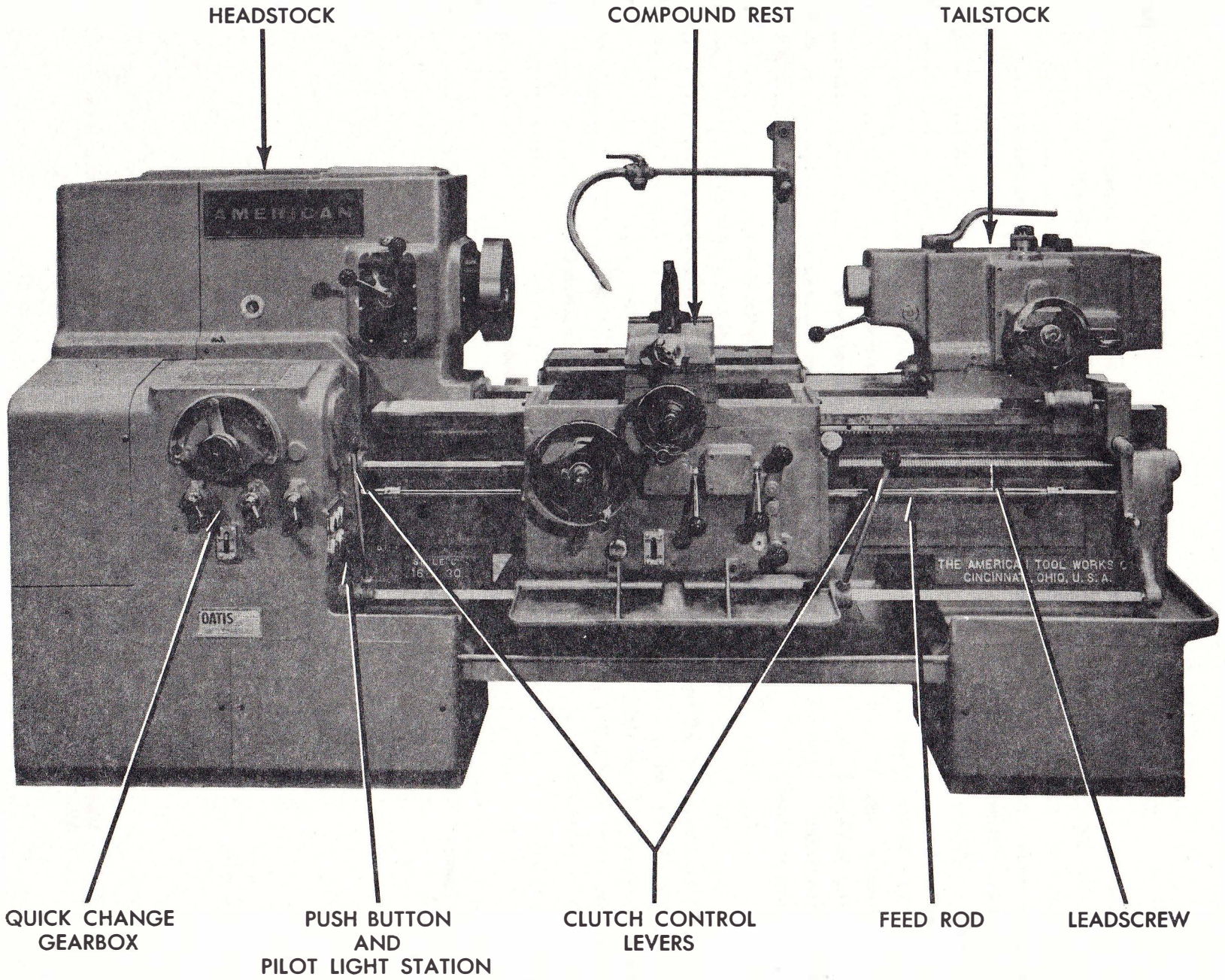
**SERIAL NUMBER AND REPAIR PARTS.** Should it be necessary to order repair parts always give the serial number of the machine and the key number of the part. This serial number is stamped on the front of the tailstock end of the bed. It is very important as it enables us to give prompt service, something we positively cannot do unless we know the exact machine on which the new parts are to be used. The key number of the part will be found in this catalog. "M" in back of key numbers denote metric parts. It is seldom advisable to make your own repair parts; this is particularly true with regards to numerous parts where the correctness of shape is extremely important. The manufacturer has an accurate record of all the parts of your "American" Pacemaker Lathe and can supply them on short notice.

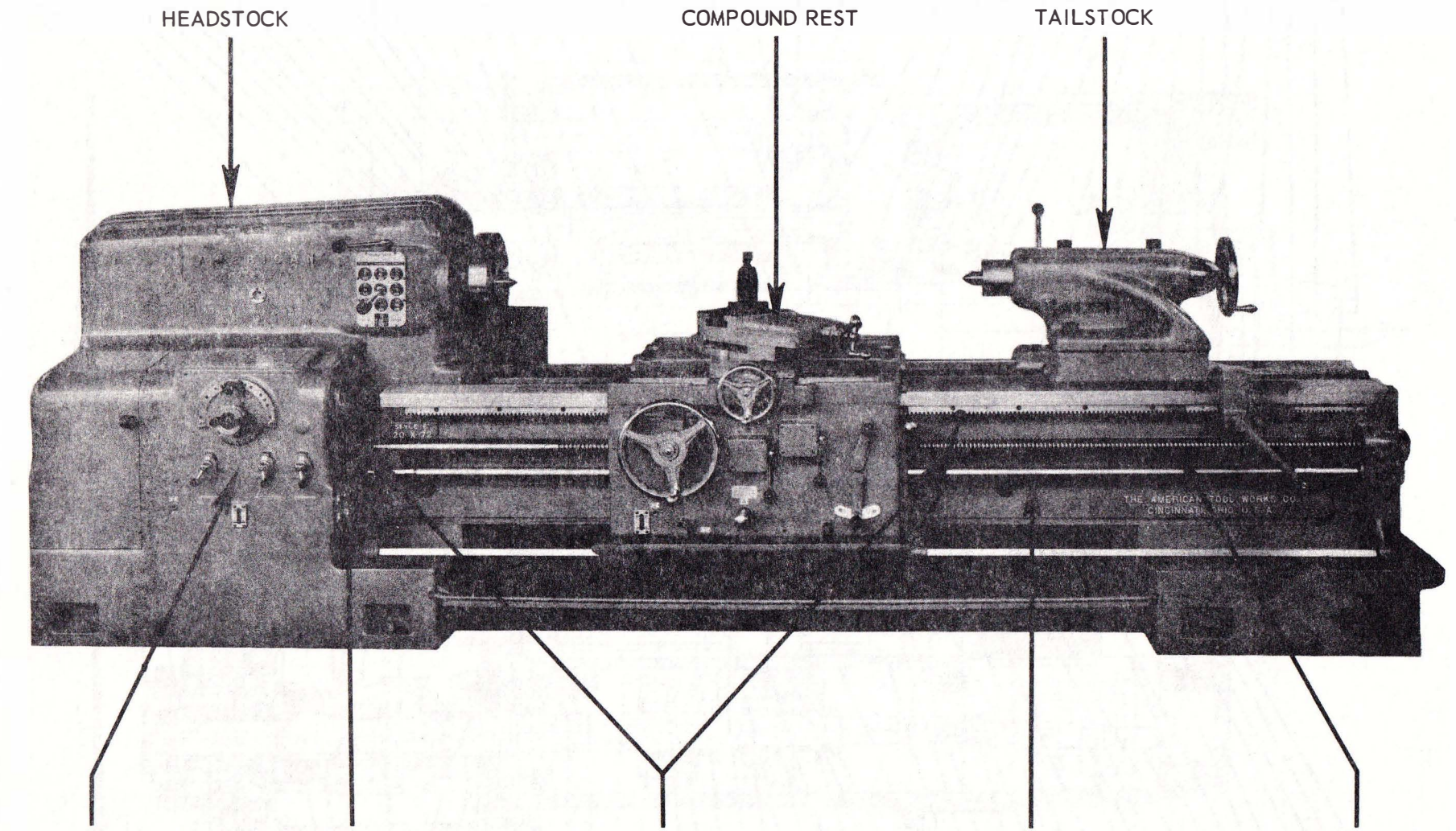
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**IMPORTANT**

**When ordering parts from this catalog the serial number of YOUR machine MUST be indicated as well as the "G" number of the part desired.**


HEADSTOCK
COMPOUND REST
TAILSTOCK
AMERICAN
OATIS
QUICK CHANGE GEARBOX
PUSH BUTTON AND PILOT LIGHT STATION
CLUTCH CONTROL LEVERS
FEED ROD
LEADSCREW


HEADSTOCK
COMPOUND REST
TAILSTOCK
QUICK CHANGE GEARBOX
PUSH BUTTON AND PILOT LIGHT STATION
CLUTCH CONTROL LEVERS
FEED ROD
LEADSCREW

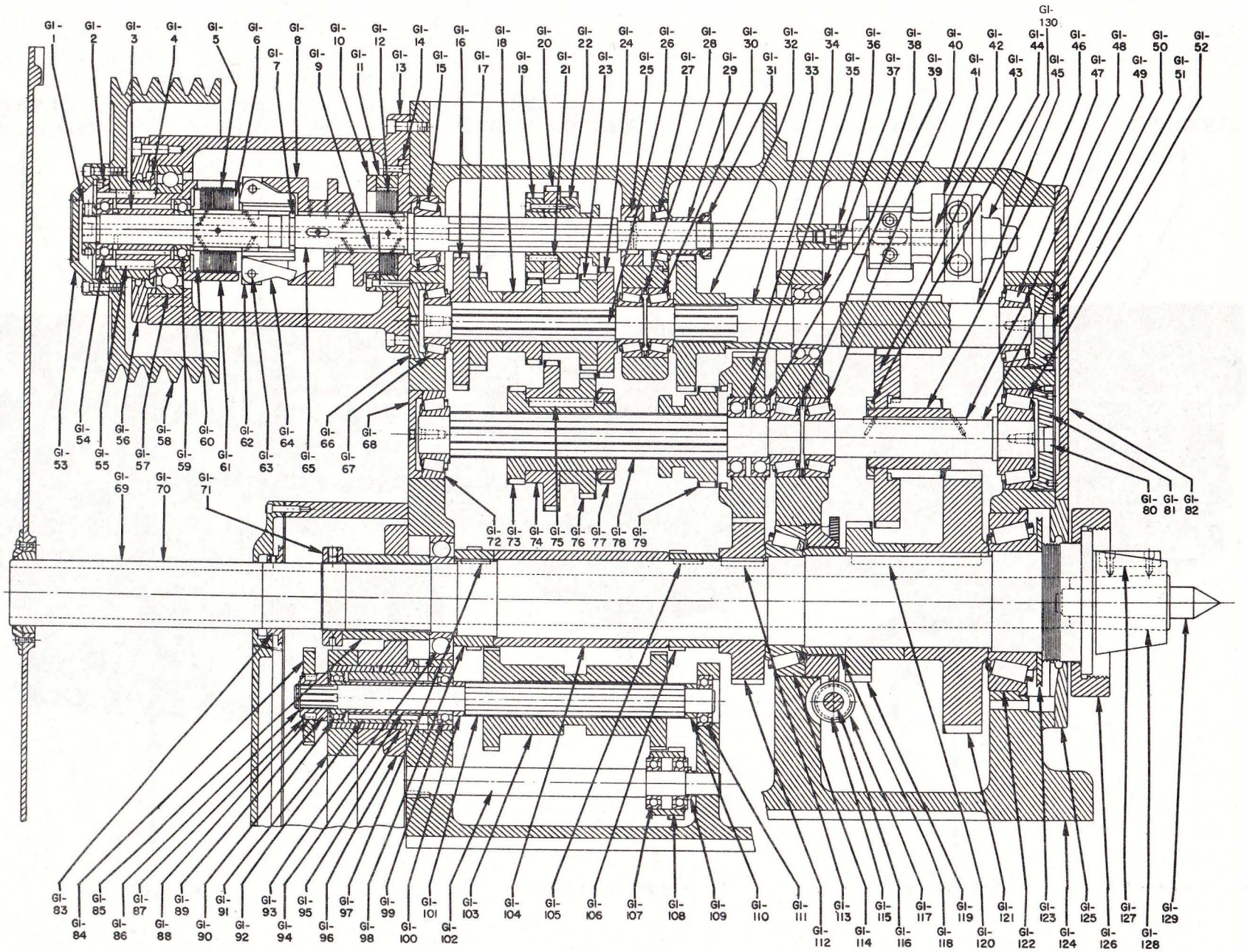



**Fig. G1 Headstock Gearing — 27 Speeds**

# HEADSTOCK GEARING - 27 SPEEDS

| Part No. | Part Name |
|---|---|
| G1-1 | Nut |
| G1-2 | Nut |
| G1-3 | Sleeve |
| G1-4 | Sling |
| G1-5 | Plates |
| G1-6 | Plate |
| G1-7 | Retainer |
| G1-8 | Spool |
| G1-9 | Key |
| G1-10 | Retainer |
| G1-11 | Collar |
| G1-12 | Plates |
| G1-13 | Housing |
| G1-14 | Ring |
| G1-15 | Bearing |
| G1-16 | Gear |
| G1-17 | Gear |
| G1-18 | Gear |
| G1-19 | Gear |
| G1-20 | Gear |
| G1-21 | Key |
| G1-22 | Gear |
| G1-23 | Gear |
| G1-24 | Gear |
| G1-25 | Ring |
| G1-26 | Shaft |
| G1-27 | Bearing |
| G1-28 | Spacer |
| G1-29 | Spacer |
| G1-30 | Bearing |
| G1-31 | Nut & Lockwasher |
| G1-32 | Gear |
| G1-33 | Spacer |
| G1-34 | Gear |
| G1-35 | Spacer |
| G1-36 | Pin |
| G1-37 | Bearing |
| G1-38 | Bearing |
| G1-39 | Spacer |
| G1-40 | Bearing |
| G1-41 | Bracket |
| G1-42 | Bearing |
| G1-43 | Gear |

| Part No. | Part Name |
|---|---|
| G1-44 | Nut |
| G1-45 | Shaft |
| G1-46 | Gear |
| G1-47 | Bearing |
| G1-48 | Key |
| G1-49 | Shaft |
| G1-50 | Nut |
| G1-51 | Plug |
| G1-52 | Bearing |
| G1-53 | Cover |
| G1-54 | Bearing |
| G1-55 | Key |
| G1-56 | Retainer |
| G1-57 | Bearing |
| G1-58 | Sheave |
| G1-59 | Bearing |
| G1-60 | Plate |
| G1-61 | Hub |
| G1-62 | Hub |
| G1-63 | Pin |
| G1-64 | Finger |
| G1-65 | Shaft |
| G1-66 | Plug |
| G1-67 | Bearing |
| G1-68 | Plug |
| G1-69 | Spindle |
| G1-70 | Spindle |
| G1-71 | Nut |
| G1-72 | Bearing |
| G1-73 | Gear |
| G1-74 | Gear |
| G1-75 | Key |
| G1-76 | Gear-48T |
| G1-77 | Nut & Lockwasher |
| G1-78 | Shaft |
| G1-79 | Gear |
| G1-80 | Plug |
| G1-81 | Nut |
| G1-82 | Cover |
| G1-83 | Sling |
| G1-84 | Gear |
| G1-85 | Spacer |
| G1-86 | Ring |

| Part No. | Part Name |
|---|---|
| G1-87 | Ring |
| G1-88 | Key |
| G1-89 | Hub |
| G1-90 | Bearing |
| G1-91 | Quadrant |
| G1-92 | Spacer |
| G1-93 | Bearing |
| G1-94 | Spacer |
| G1-95 | Sleeve |
| G1-96 | Plate |
| G1-97 | Key |
| G1-98 | Gear |
| G1-99 | Bearing |
| G1-100 | Spacer |
| G1-101 | Shaft |
| G1-102 | Shaft |
| G1-103 | Gear |
| G1-104 | Spacer |
| G1-105 | Key |
| G1-106 | Gear |
| G1-107 | Bearing |
| G1-108 | Gear |
| G1-109 | Spacer |
| G1-110 | Spacer |
| G1-111 | Bearing |
| G1-112 | Gear |
| G1-113 | Key |
| G1-114 | Bearing |
| G1-115 | Worm |
| G1-116 | Shaft |
| G1-117 | Wheel |
| G1-118 | Spacer |
| G1-119 | Gear |
| G1-120 | Key |
| G1-121 | Gear |
| G1-122 | Bearing |
| G1-123 | Sling |
| G1-124 | Headstock |
| G1-125 | Cover |
| G1-126 | Lock Nut |
| G1-127 | Key |
| G1-128 | Bushing |
| G1-129 | Center |
| G1-130 | Pump |

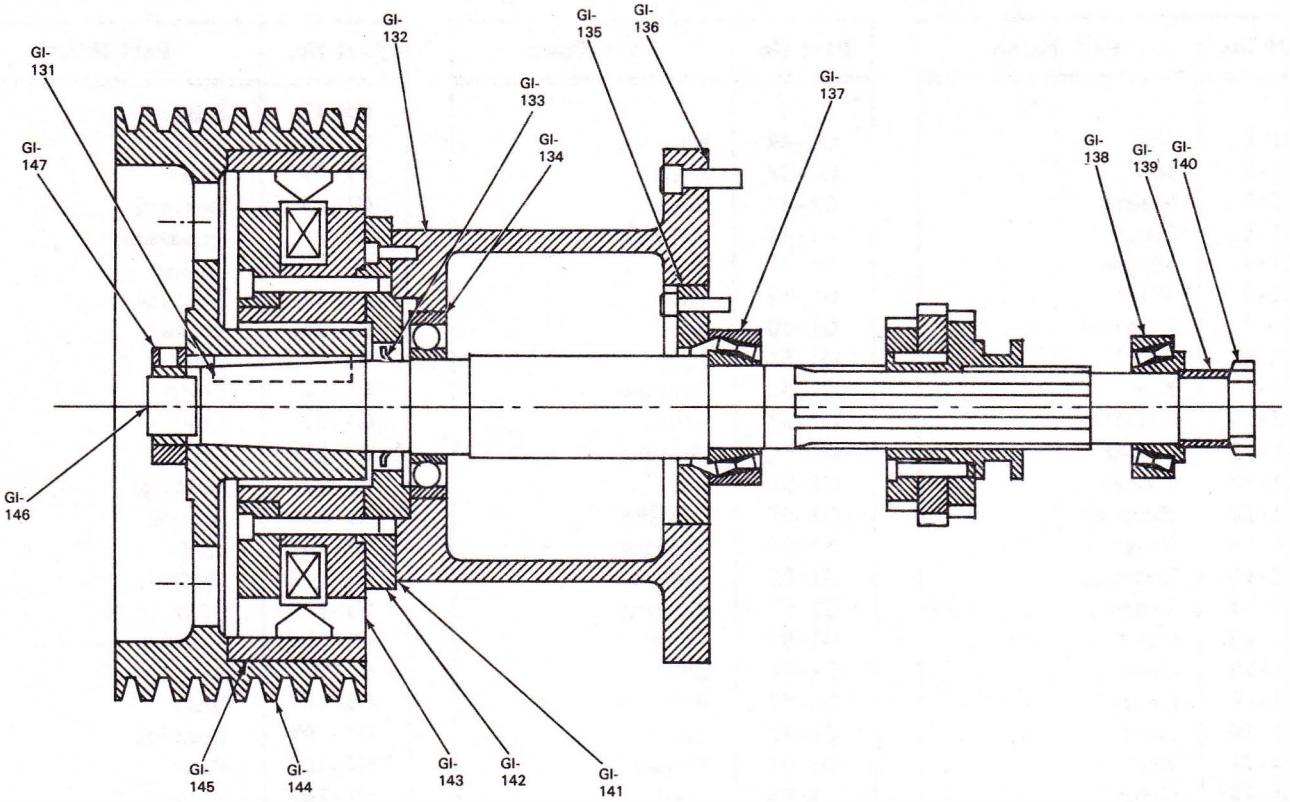



**Fig. G1-A Headstock Gearing — 27 Speeds**
**For 20"E and 25"F Machines**
**Starting with Serial Number 78697**

# HEADSTOCK GEARING — 27 SPEEDS

| Part No. | Part Name |
|---|---|
| G1-131 | Key |
| G1-132 | Housing |
| G1-133 | Seal |
| G1-134 | Bearing |
| G1-135 | Centering Ring |
| G1-136 | Gasket |
| G1-137 | Bearing |
| G1-138 | Bearing |
| G1-139 | Spacer |

| Part No. | Part Name |
|---|---|
| G1-140 | Nut & Lockwasher |
| G1-141 | Gasket |
| G1-142 | Pulley Housing Cap |
| G1-143 | Eddy Current Brake |
| G1-144 | Drive Shaft Sheave |
| G1-145 | Drive Shaft Sheave Ring |
| G1-146 | Drive Shaft |
| G1-147 | Nut |

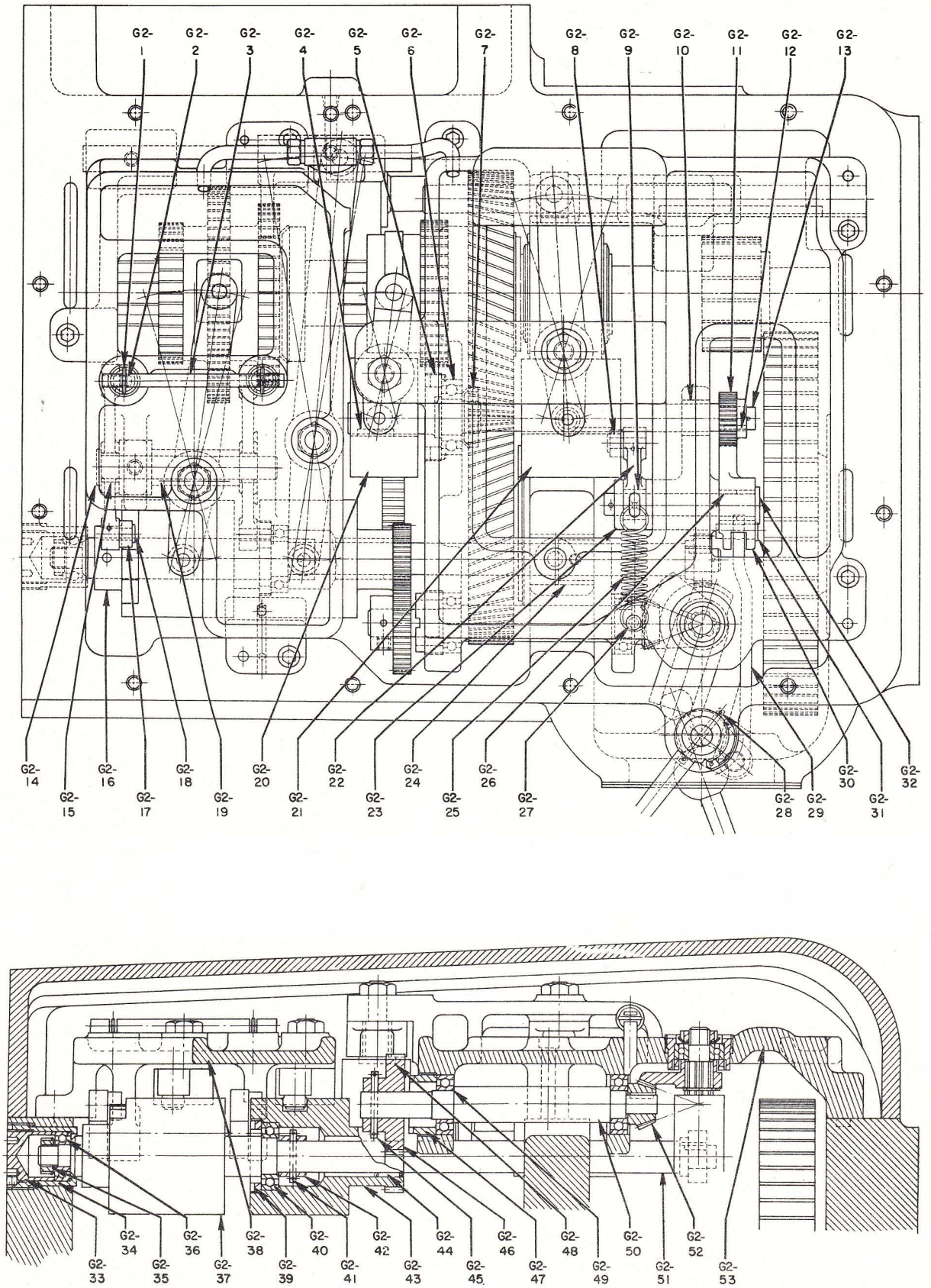



**Fig. G2 Headstock Gear Shifting — 27 Speeds**

# HEADSTOCK GEAR SHIFTING - 18 & 27 SPEEDS

| Part No. | Part Name |
|---|---|
| G2-1 | Spring |
| G2-2 | Post |
| G2-3 | Bar |
| G2-4 | Key |
| G2-5 | Nut |
| G2-6 | Bearing |
| G2-7 | Nut & Lockwasher |
| G2-8 | Pin |
| G2-9 | Bearing |
| G2-10 | Bearing |
| G2-11 | Gear |
| G2-12 | Key |
| G2-13 | Shaft |
| G2-14 | Shaft |
| G2-15 | Bearing |
| G2-16 | Detent |
| G2-17 | Roller |
| G2-18 | Pin |
| G2-19 | Spacer |
| G2-20 | Cam |
| G2-21 | Cam |
| G2-22 | Lever |
| G2-23 | Washer |
| G2-24 | Bearing |
| G2-25 | Spring |
| G2-26 | Bearing |
| G2-27 | Post |

| Part No. | Part Name |
|---|---|
| G2-28 | Pin |
| G2-29 | Link |
| G2-30 | Sector |
| G2-31 | Stud |
| G2-32 | Shaft |
| G2-33 | Nut |
| G2-34 | Retainer |
| G2-35 | Nut & Washer |
| G2-36 | Bearing |
| G2-37 | Cam |
| G2-38 | Bracket |
| G2-39 | Nut |
| G2-40 | Bearing |
| G2-41 | Pin |
| G2-42 | Spacer |
| G2-43 | Cam |
| G2-44 | Bearing |
| G2-45 | Pin |
| G2-46 | Gear |
| G2-47 | Nut |
| G2-48 | Stud |
| G2-49 | Bearing |
| G2-50 | Shaft |
| G2-51 | Shaft |
| G2-52 | Pinion |
| G2-53 | Bracket |

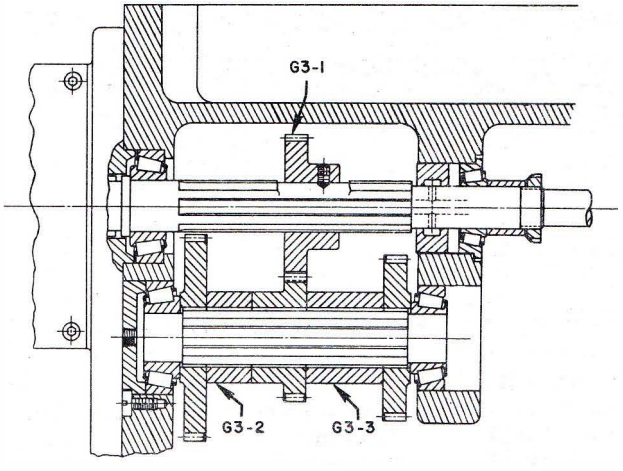



Fig. G3 Headstock Gearing — 9 Speeds

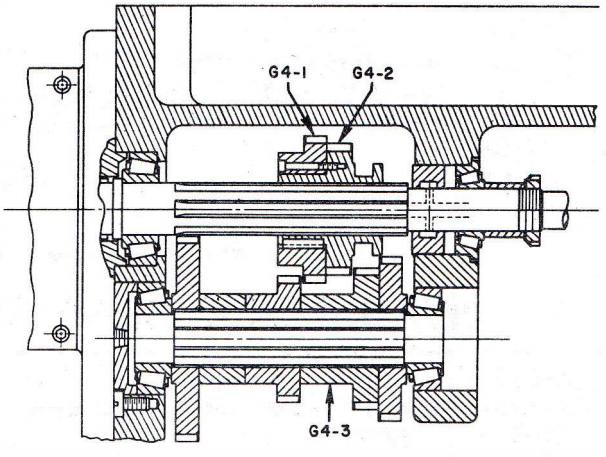



Fig. G4 Headstock Gearing — 18 Speeds

## HEADSTOCK GEARING - 9 SPEEDS

| Part No. | Part Name |
|---|---|
| G3-1 | Gear |
| G3-2 | Spacer |
| G3-3 | Spacer |

## HEADSTOCK GEARING - 18 SPEEDS

| Part No. | Part Name |
|---|---|
| G4-1 | Gear |
| G4-2 | Gear |
| G4-3 | Gear |

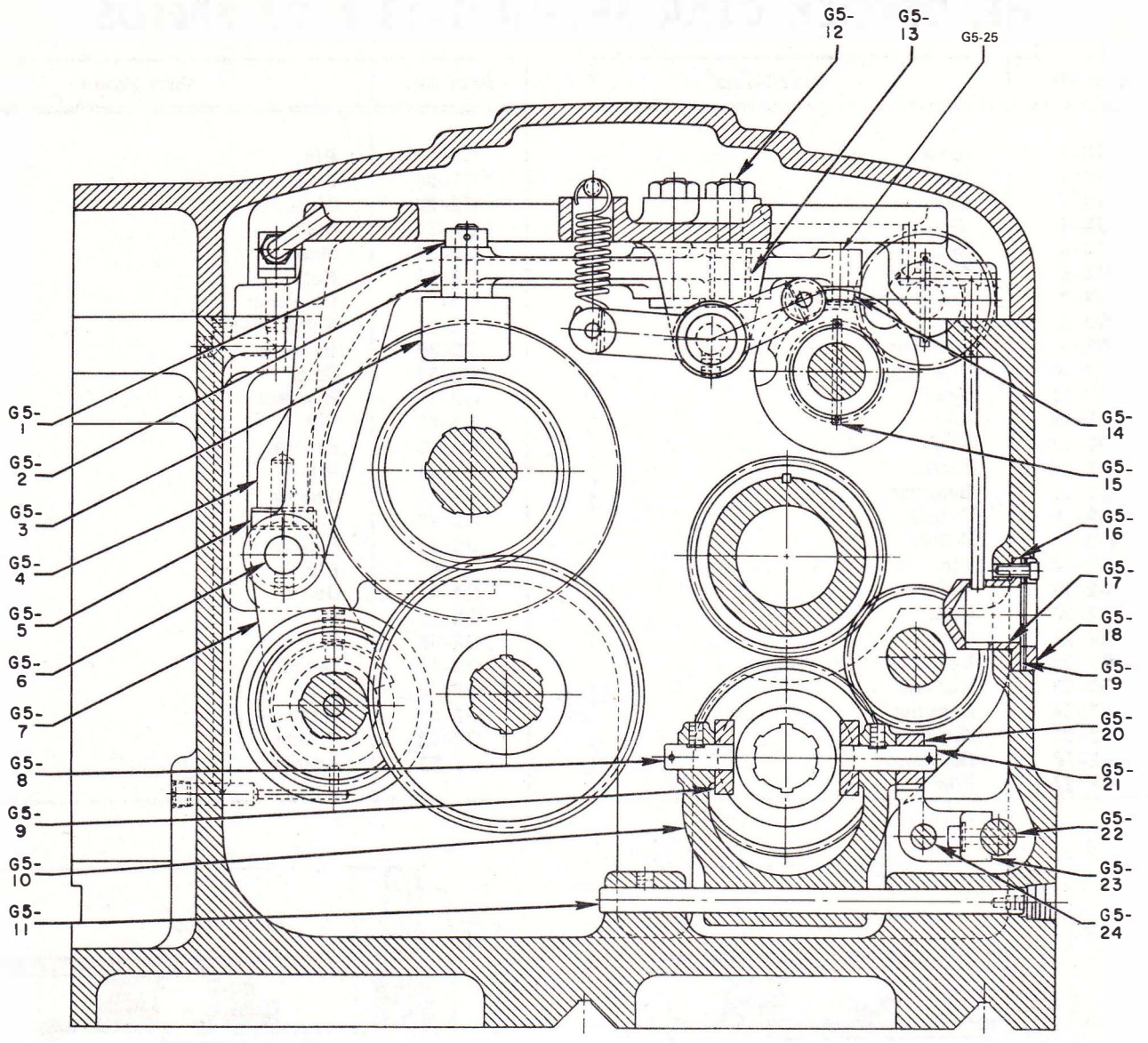



Fig. G5 Headstock Gear Shifting — 18-27 Speeds

# HEADSTOCK GEAR SHIFTING - 18 & 27 SPEEDS

| Part No. | Part Name |
|---|---|
| G5-1 | Collar |
| G5-2 | Lever |
| G5-3 | Shoe |
| G5-4 | Lever |
| G5-5 | Shoe |
| G5-6 | Shaft |
| G5-7 | Fork |
| G5-8 | Pin |
| G5-9 | Shoe |
| G5-10 | Yoke |
| G5-11 | Pin |
| G5-12 | Stud |

| Part No. | Part Name |
|---|---|
| G5-13 | Bearing |
| G5-14 | Roller |
| G5-15 | Pin |
| G5-16 | Washer |
| G5-17 | Plug |
| G5-18 | Plate |
| G5-19 | Gasket |
| G5-20 | Block |
| G5-21 | Pin |
| G5-22 | Shaft |
| G5-23 | Bracket |
| G5-24 | Shaft |
| G5-25 | Pin |

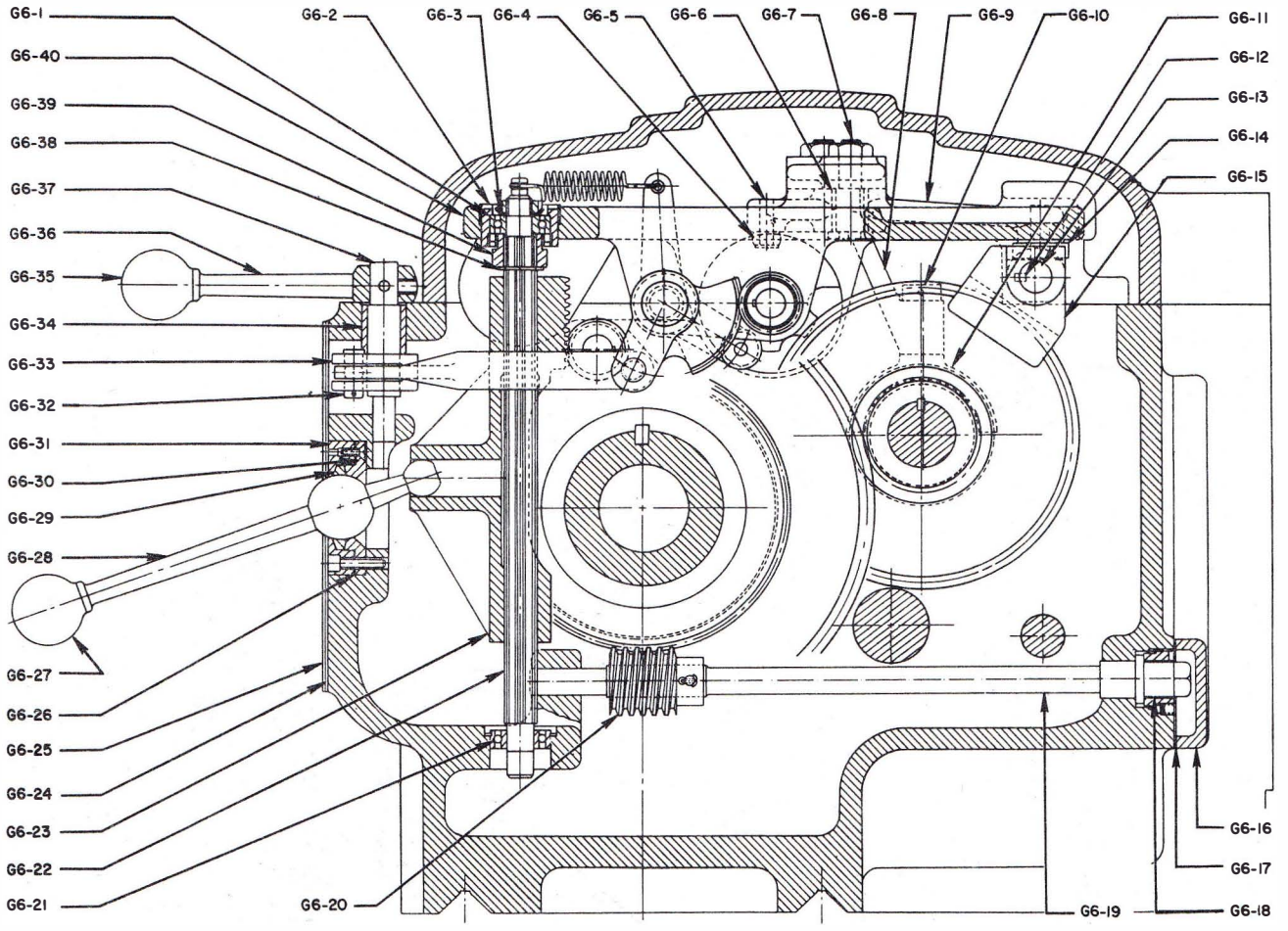



**Fig. G6 Headstock Gear Shifting — 18-27 Speeds**

# HEADSTOCK GEAR SHIFTING - 18 & 27 SPEEDS

| Part No. | Part Name |
|---|---|
| G6-1 | Bearing |
| G6-2 | Sleeve |
| G6-3 | Washer |
| G6-4 | Roller |
| G6-5 | Pin |
| G6-6 | Bearing |
| G6-7 | Stud |
| G6-8 | Lever |
| G6-9 | Lever |
| G6-10 | Collar |
| G6-11 | Fork |
| G6-12 | Key |
| G6-13 | Shaft |
| G6-14 | Shoe |
| G6-15 | Fork |
| G6-16 | Cover |
| G6-17 | Gasket |
| G6-18 | Nut |
| G6-19 | Shaft |
| G6-20 | Worm |

| Part No. | Part Name |
|---|---|
| G6-21 | Bearing |
| G6-22 | Shaft |
| G6-23 | Rack |
| G6-24 | Gasket |
| G6-25 | Plate |
| G6-26 | Spacer |
| G6-27 | Knob |
| G6-28 | Lever |
| G6-29 | Ring |
| G6-30 | Seat |
| G6-31 | Seat |
| G6-32 | Stud |
| G6-33 | Crank |
| G6-34 | Bearing |
| G6-35 | Knob |
| G6-36 | Lever |
| G6-37 | Shaft |
| G6-38 | Ring |
| G6-39 | Gear |
| G6-40 | Nut |

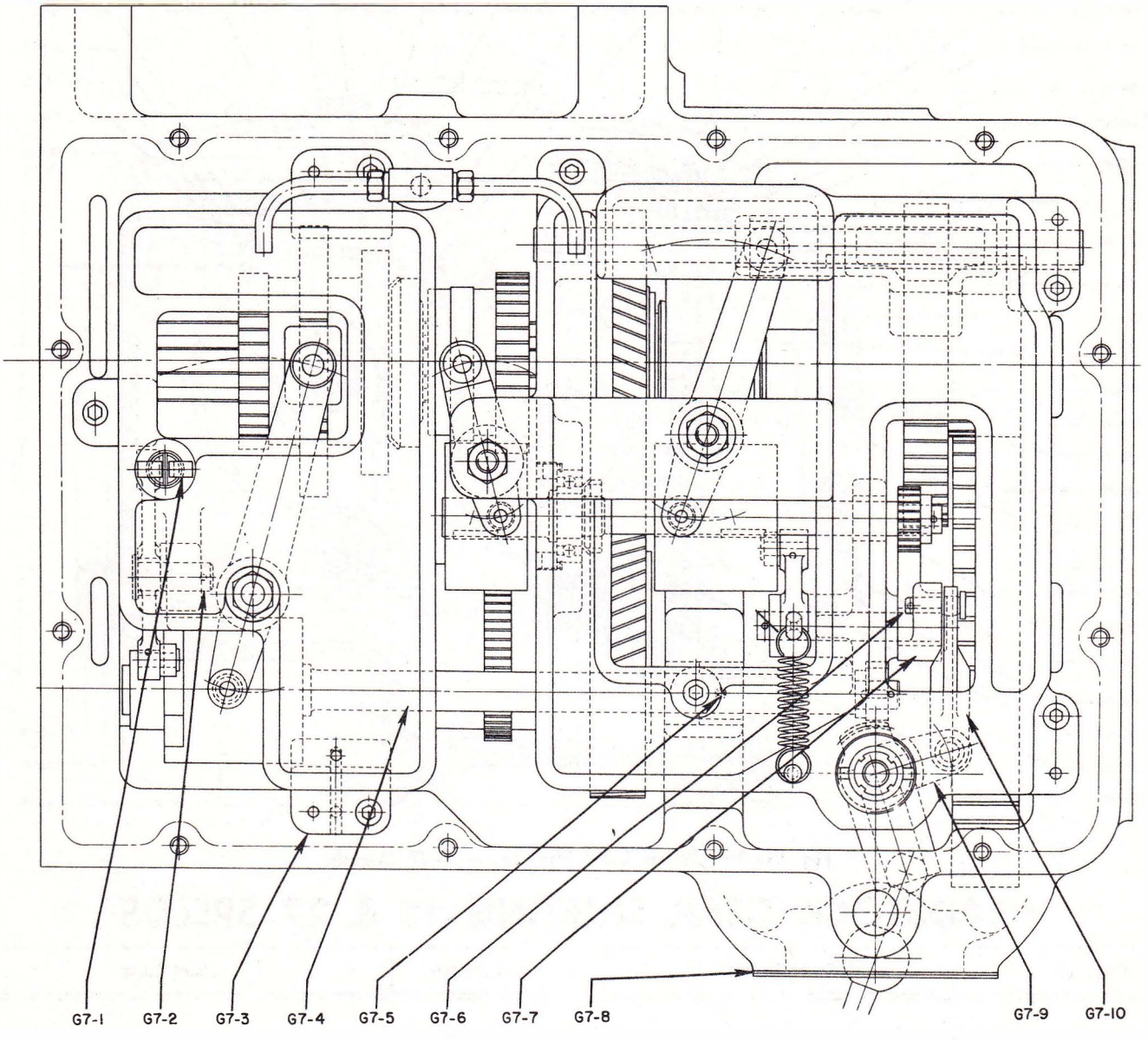



**Fig. G7 Headstock Gear Shifting — 9 Speeds**

# HEADSTOCK GEAR SHIFTING - 9 SPEEDS

| Part No. | Part Name |
|---|---|
| G7-1 | Bar |
| G7-2 | Pin |
| G7-3 | Bracket |
| G7-4 | Shaft |
| G7-5 | Screw |

| Part No. | Part Name |
|---|---|
| G7-6 | Stud |
| G7-7 | Sector |
| G7-8 | Plate |
| G7-9 | Lever |
| G7-10 | Link |

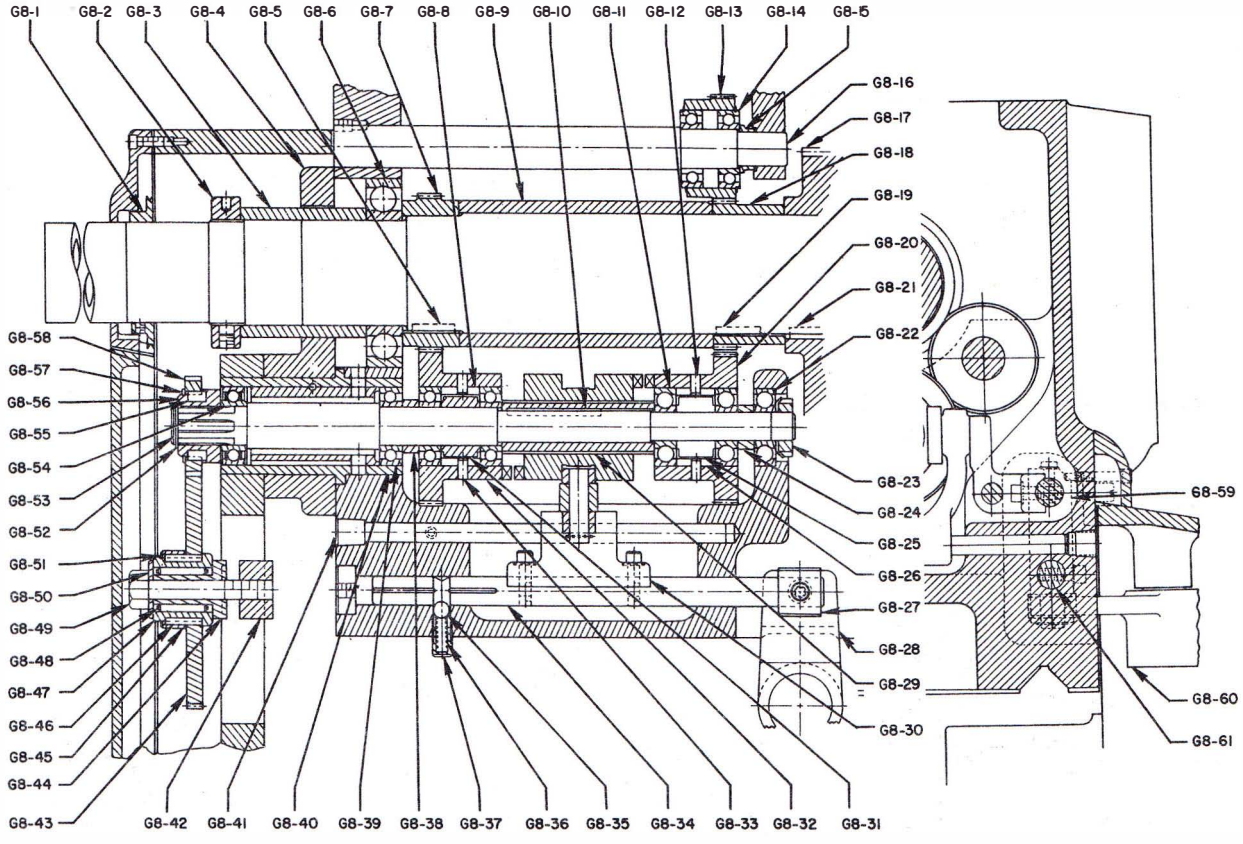



**Fig. G8 Headstock with Leadscrew Reverse**

# HEADSTOCK W/L.S.R.

| Part No. | Part Name |
|---|---|
| G8-1 | Sling |
| G8-2 | Nut |
| G8-3 | Spacer |
| G8-4 | Plate |
| G8-5 | Key |
| G8-6 | Bearing |
| G8-7 | Gear |
| G8-8 | Spacer |
| G8-9 | Spacer |
| G8-10 | Key |
| G8-11 | Bearing |
| G8-12 | Pin |
| G8-13 | Gear |
| G8-14 | Bearing |
| G8-15 | Spacer |
| G8-16 | Shaft |
| G8-17 | Gear |
| G8-18 | Gear |
| G8-19 | Key |
| G8-20 | Gear |
| G8-21 | Key |

| Part No. | Part Name |
|---|---|
| G8-22 | Bearing |
| G8-23 | Nut |
| G8-24 | Spacer |
| G8-25 | Spacer |
| G8-26 | Spacer |
| G8-27 | Shoe |
| G8-28 | Lever |
| G8-29 | Sleeve |
| G8-30 | Bracket |
| G8-31 | Spacer |
| G8-32 | Gear |
| G8-33 | Pin |
| G8-34 | Rod |
| G8-35 | Ball |
| G8-36 | Spring |
| G8-37 | Cap |
| G8-38 | Spacer |
| G8-39 | Bearing |
| G8-40 | Sleeve |
| G8-41 | Plug |
| G8-42 | Nut |

| Part No. | Part Name |
|---|---|
| G8-43 | Gear |
| G8-44 | Post |
| G8-45 | Spacer |
| G8-46 | Key |
| G8-47 | Hub |
| G8-48 | Bearing |
| G8-49 | Screw |
| G8-50 | Washer |
| G8-51 | Ring |
| G8-52 | Ring |
| G8-53 | Shaft |
| G8-54 | Bearing |
| G8-55 | Key |
| G8-56 | Hub |
| G8-57 | Ring |
| G8-58 | Gear |
| G8-59 | Block |
| G8-60 | Lever |
| G8-61 | Rod |

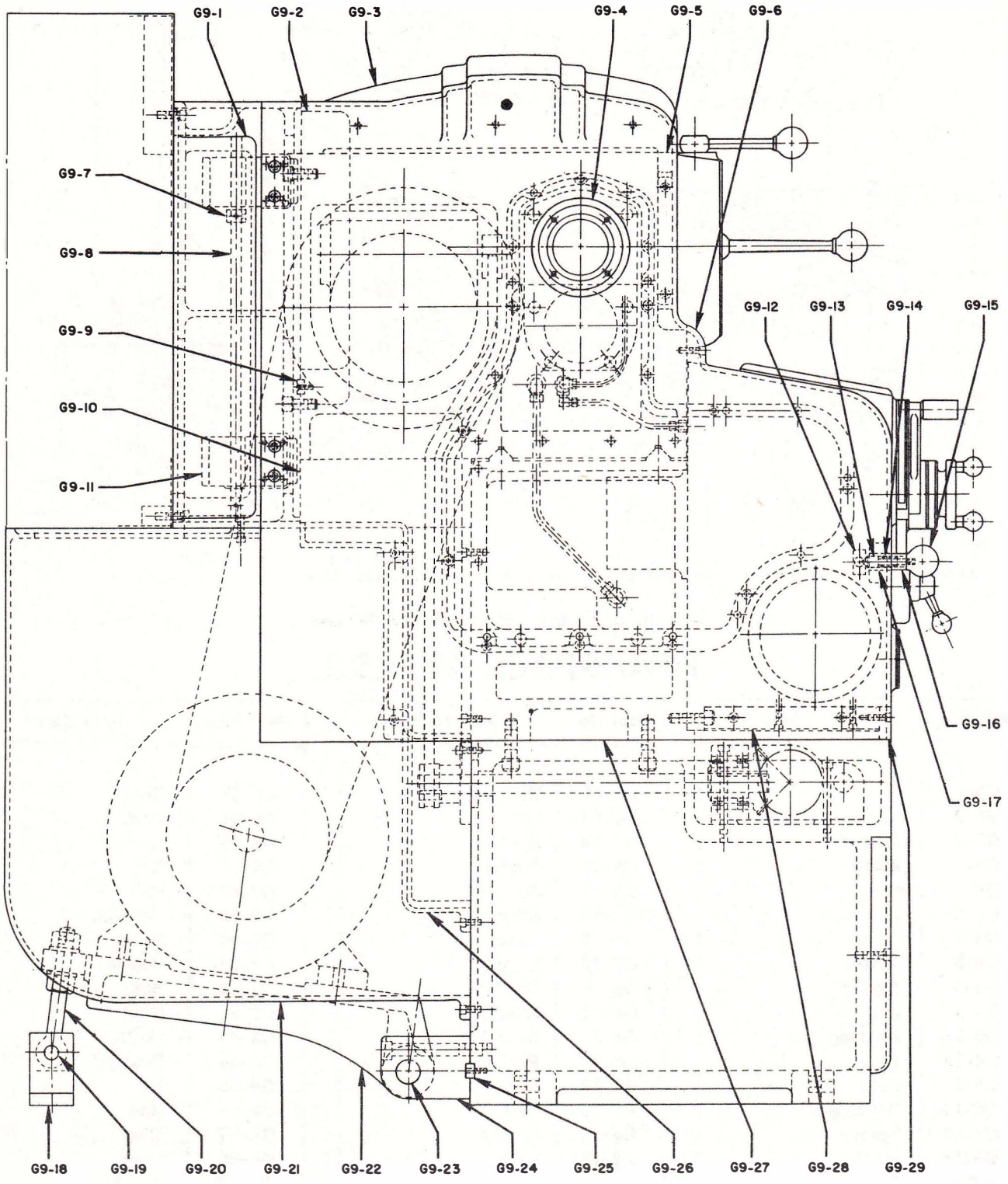



**Fig. 'G9 Head End Covers**

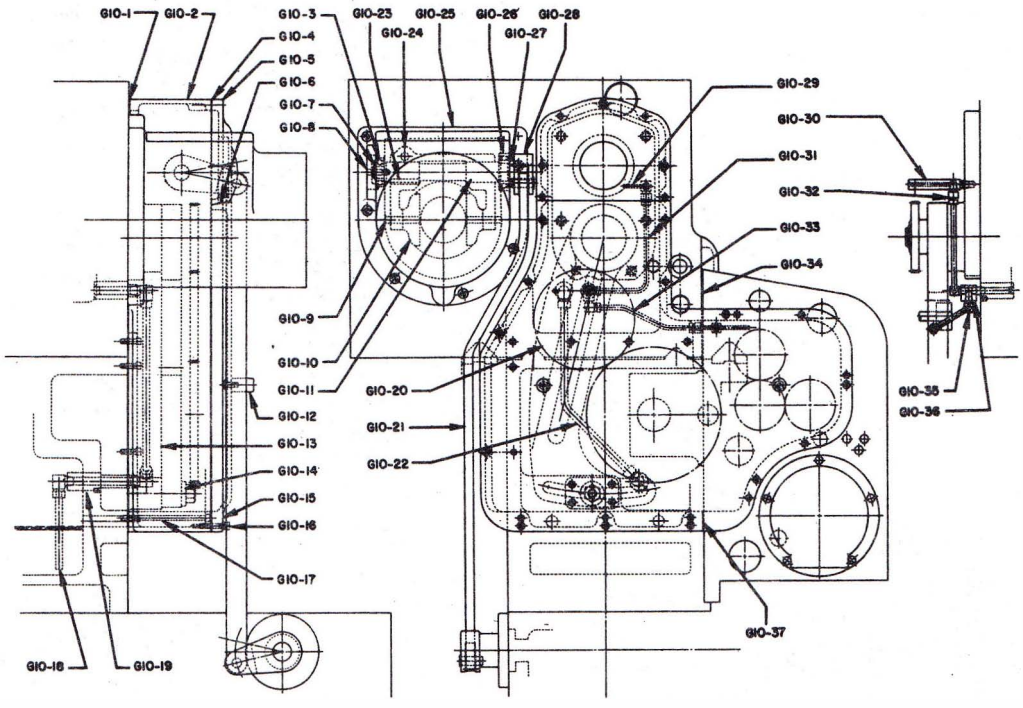



**Fig. G10 Change Gear Covers**

# HEAD END AND CHANGE GEAR COVERS

| Part No. | Part Name |
|---|---|
| G9-1 | Adapter |
| G9-2 | Cover |
| G9-3 | Frame |
| G9-4 | Plate |
| G9-5 | Frame |
| G9-6 | Cover |
| G9-7 | Collar |
| G9-8 | Pin |
| G9-9 | Key |
| G9-10 | Cover |
| G9-11 | Hinge |
| G9-12 | Latch |
| G9-13 | Plunger |
| G9-14 | Spring |
| G9-15 | Knob |
| G9-16 | Bushing |
| G9-17 | Bushing |
| G9-18 | Support |
| G9-19 | Pin |
| G9-20 | Eyebolt |
| G9-21 | Guard |
| G9-22 | Plate |
| G9-23 | Pin |
| G9-24 | Hinge |
| G9-25 | Key |
| G9-26 | Frame |
| G9-27 | Cover |
| G9-28 | Plate |
| G9-29 | Plate |

| Part No. | Part Name |
|---|---|
| G10-1 | Gasket |
| G10-2 | Frame |
| G10-3 | Bearing |
| G10-4 | Gasket |
| G10-5 | Cover |
| G10-6 | Gasket |
| G10-7 | Ring |
| G10-8 | Plug |
| G10-9 | Pin |
| G10-10 | Shoe |
| G10-11 | Shaft |
| G10-12 | Handle |
| G10-13 | Quadrant |
| G10-14 | Washer |
| G10-15 | Cover |
| G10-16 | Stud |
| G10-17 | Screw |
| G10-18 | Tube |
| G10-19 | Tube |

| Part No. | Part Name |
|---|---|
| G10-20 | Gear |
| G10-21 | Rod |
| G10-22 | Tube |
| G10-23 | Key |
| G10-24 | Fork |
| G10-25 | Cover |
| G10-26 | Bearing |
| G10-27 | Spacer |
| G10-28 | Crank |
| G10-29 | Tube |
| G10-30 | Block |
| G10-31 | Tube |
| G10-32 | Fitting |
| G10-33 | Tube |
| G10-34 | Gasket |
| G10-35 | Fitting |
| G10-36 | Block |
| G10-37 | Gasket |

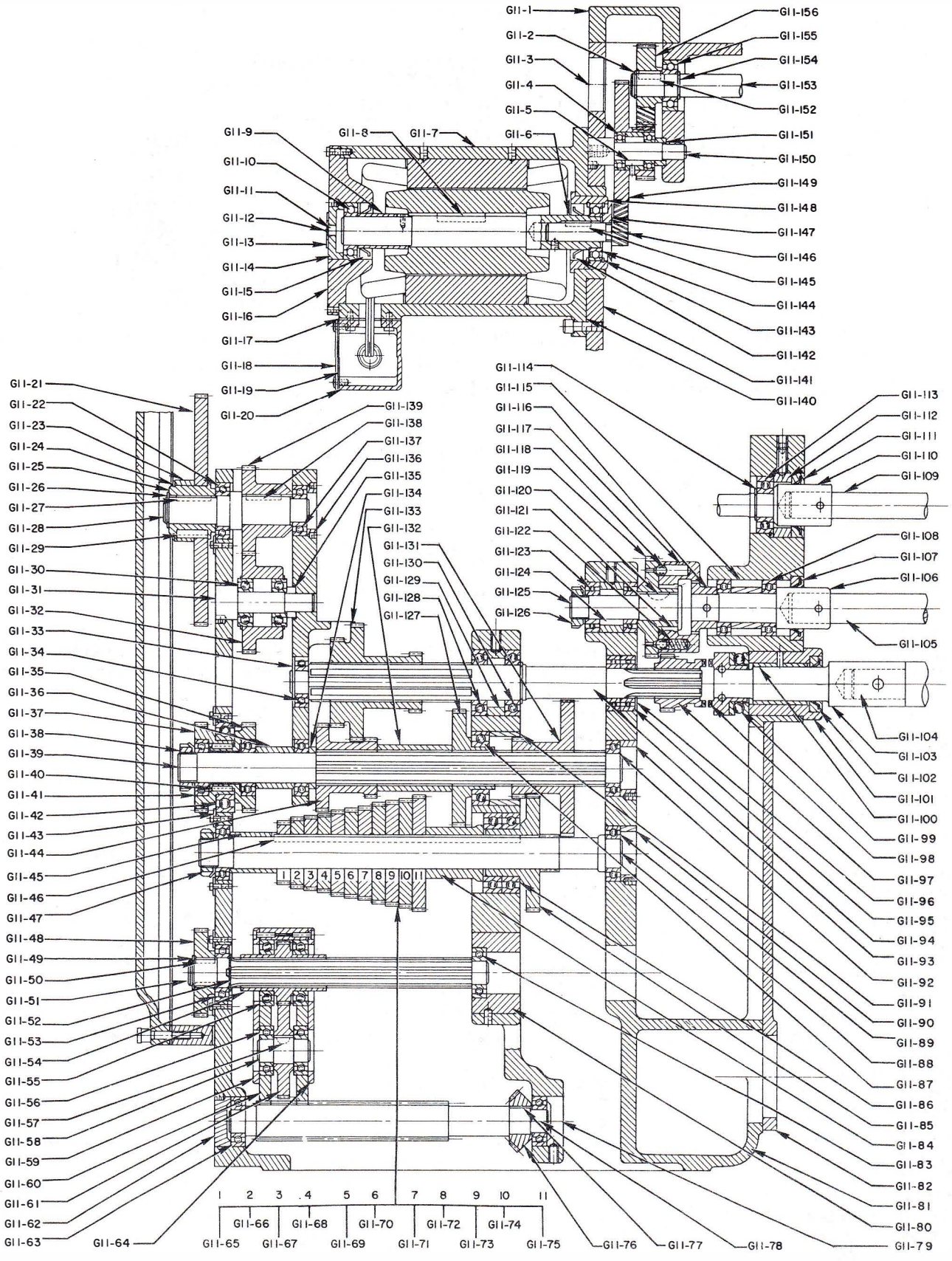



**Fig. G11 Feed Box Gearing — English**

# FEED BOX GEARING - ENGLISH

| Part No. | Part Name |
|---|---|
| G11-1 | Cover |
| G11-2 | Ring |
| G11-3 | Plug |
| G11-4 | Bearing |
| G11-5 | Spacer |
| G11-6 | Shaft |
| G11-7 | Frame |
| G11-8 | Key |
| G11-9 | Spacer |
| G11-10 | Bearing |
| G11-11 | Plug |
| G11-12 | Pin |
| G11-13 | Plate |
| G11-14 | Plug |
| G11-15 | Seal |
| G11-16 | Plate |
| G11-17 | Gasket |
| G11-18 | Cover |
| G11-19 | Gasket |
| G11-20 | Box |
| G11-21 | Gear |
| G11-22 | Bearing |
| G11-23 | Spacer |
| G11-24 | Ring |
| G11-25 | Hub |
| G11-26 | Ring |
| G11-27 | Key |
| G11-28 | Shaft |
| G11-29 | Key |
| G11-30 | Bearing |
| G11-31 | Shaft |
| G11-32 | Gear |
| G11-33 | Ring |
| G11-34 | Bearing |
| G11-35 | Gear |
| G11-36 | Spacer |
| G11-37 | Gear |
| G11-38 | Nut & Lockwasher |
| G11-39 | Shaft |
| G11-40 | Key |
| G11-41 | Bearing |
| G11-42 | Bearing |
| G11-43 | Washer |
| G11-44 | Gear |
| G11-45 | Spacer |
| G11-46 | Key |
| G11-47 | Nut & Lockwasher |
| G11-48 | Gear |
| G11-49 | Ring |
| G11-50 | Key |
| G11-51 | Shaft |
| G11-52 | Ring |

| Part No. | Part Name |
|---|---|
| G11-53 | Bearing |
| G11-54 | Pinion |
| G11-55 | Bearing |
| G11-56 | Bearing |
| G11-57 | Key |
| G11-58 | Stud |
| G11-59 | Plate |
| G11-60 | Tumbler |
| G11-61 | Gear |
| G11-62 | Plug |
| G11-63 | Bearing |
| G11-64 | Plate |
| G11-65 | Gear |
| G11-66 | Gear |
| G11-67 | Gear |
| G11-68 | Gear |
| G11-69 | Gear |
| G11-70 | Gear |
| G11-71 | Gear |
| G11-72 | Gear |
| G11-73 | Gear |
| G11-74 | Gear |
| G11-75 | Gear |
| G11-76 | Gear |
| G11-77 | Key |
| G11-78 | Shaft |
| G11-79 | Plug |
| G11-80 | Adapter |
| G11-81 | Feed Box |
| G11-82 | Cover |
| G11-83 | Bearing |
| G11-84 | Spacer |
| G11-85 | Gear |
| G11-86 | Bearing |
| G11-87 | Bearing |
| G11-88 | Shaft |
| G11-89 | Bearing |
| G11-90 | Spacer |
| G11-91 | Retainer |
| G11-92 | Bearing |
| G11-93 | Spacer |
| G11-94 | Shaft |
| G11-95 | Bearing |
| G11-96 | Ring |
| G11-97 | Gear |
| G11-98 | Clutch |
| G11-99 | Bearing |
| G11-100 | Bearing |
| G11-101 | Bushing |
| G11-102 | Seal |
| G11-103 | Shaft |
| G11-104 | Lead Screw |

| Part No. | Part Name |
|---|---|
| G11-105 | Feed Rod |
| G11-106 | Shaft |
| G11-107 | Seal |
| G11-108 | Bearing |
| G11-109 | Traverse Shaft |
| G11-110 | Shaft |
| G11-111 | Seal |
| G11-112 | Spacer |
| G11-113 | Bearing |
| G11-114 | Ring |
| G11-115 | Spacer |
| G11-116 | Clutch |
| G11-117 | Clutch |
| G11-118 | Ball |
| G11-119 | Gear |
| G11-120 | Key |
| G11-121 | Bushing |
| G11-122 | Spring |
| G11-123 | Bearing |
| G11-124 | Spacer |
| G11-125 | Shaft |
| G11-126 | Nut & Lockwasher |
| G11-127 | Gear |
| G11-128 | Bearing |
| G11-129 | Spacer |
| G11-130 | Bearing |
| G11-131 | Gear |
| G11-132 | Spacer |
| G11-133 | Gear |
| G11-134 | Spacer |
| G11-135 | Collar |
| G11-136 | Spacer |
| G11-137 | Bearing |
| G11-138 | Key |
| G11-139 | Gear |
| G11-140 | Gasket |
| G11-141 | Feed Box |
| G11-142 | Seal |
| G11-143 | Ring |
| G11-144 | Bearing |
| G11-145 | Key |
| G11-146 | Pinion |
| G11-147 | Sling |
| G11-148 | Retainer |
| G11-149 | Gear |
| G11-150 | Shaft |
| G11-151 | Spacer |
| G11-152 | Key |
| G11-153 | Shaft |
| G11-154 | Ring |
| G11-155 | Bearing |
| G11-156 | Gear |

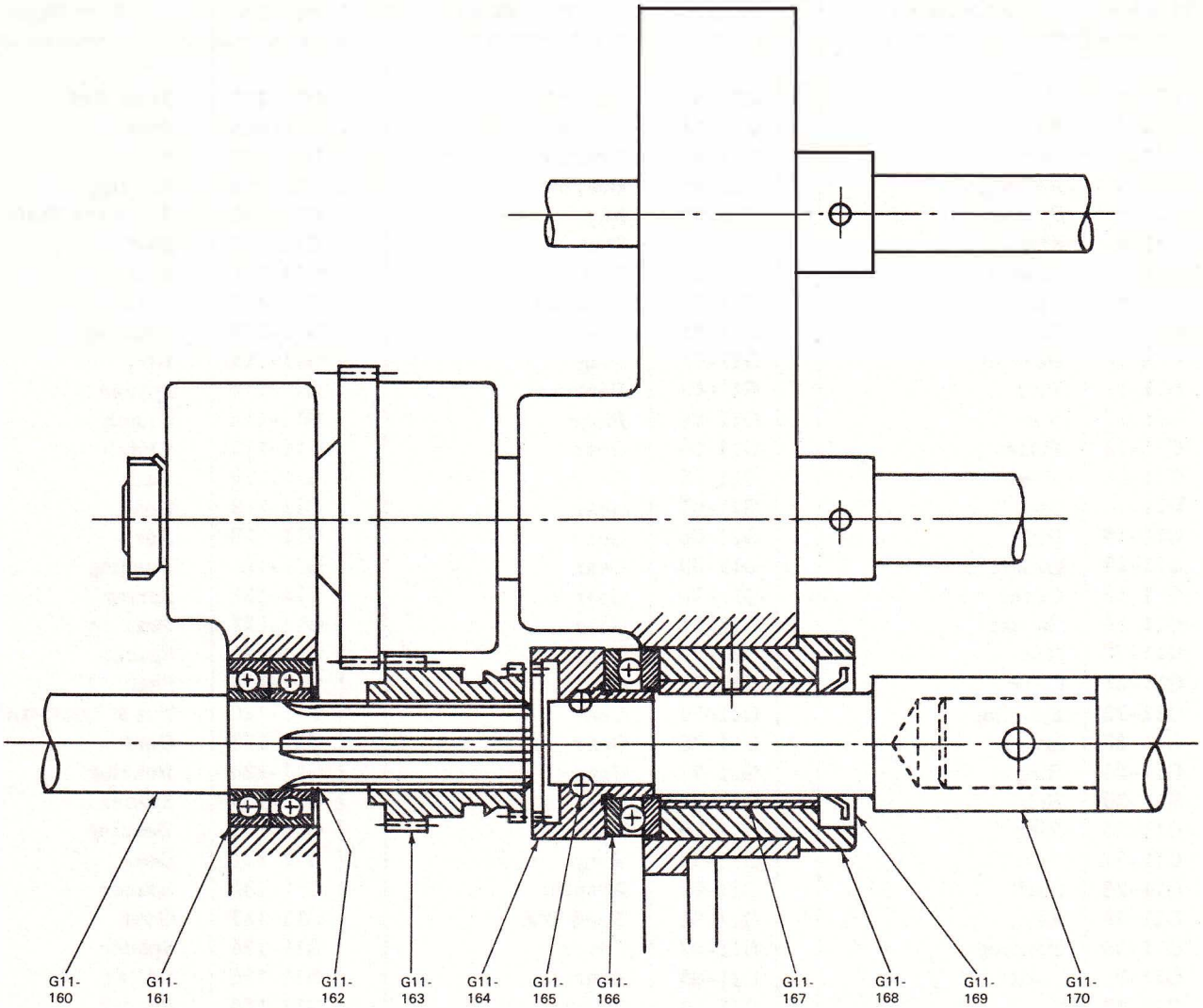



**Fig. G11-A Feed Box Gearing — English**
**For 14"B Thru 20"D Machines Starting with Serial Number 78495**

# FEED BOX GEARING — ENGLISH

| Part No. | Part Name |
|---|---|
| G11-160 | Shaft |
| G11-161 | Bearing |
| G11-162 | Retainer Ring |
| G11-163 | Gear |
| G11-164 | Clutch |
| G11-165 | Pin |

| Part No. | Part Name |
|---|---|
| G11-166 | Bearing |
| G11-167 | Bush |
| G11-168 | Bush |
| G11-169 | Seal |
| G11-170 | Stub Shaft |

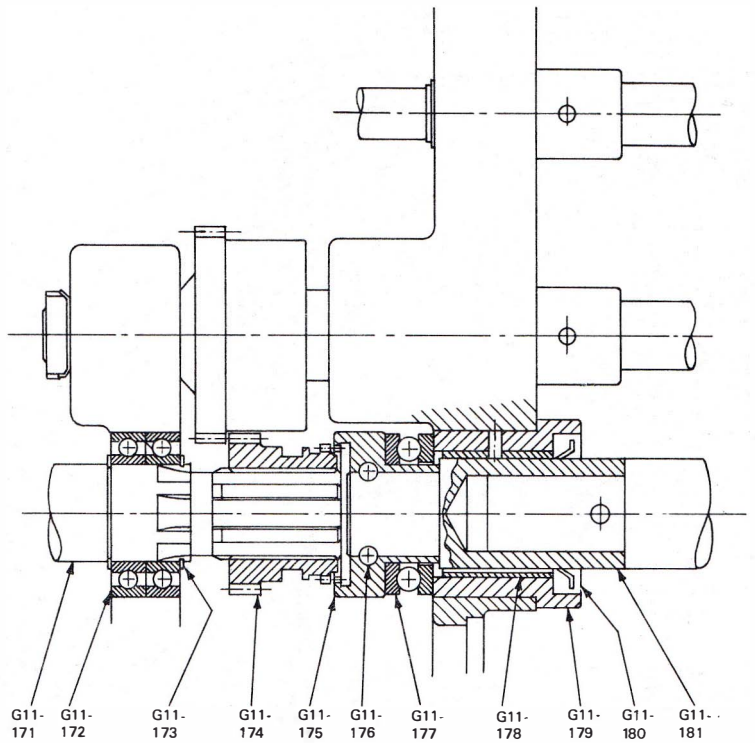



**Fig. G11-B Feed Box Gearing — English**
**For 20"E and 25"F Machines Starting with Serial Number 78645**

# FEED BOX GEARING — ENGLISH

| Part No. | Part Name |
|---|---|
| G11-171 | Shaft |
| G11-172 | Bearing |
| G11-173 | Retainer Ring |
| G11-174 | Gear |
| G11-175 | Clutch |
| G11-176 | Pin |
| G11-177 | Bearing |
| G11-178 | Bush |
| G11-179 | Bush |
| G11-180 | Seal |
| G11-181 | Stub Shaft |

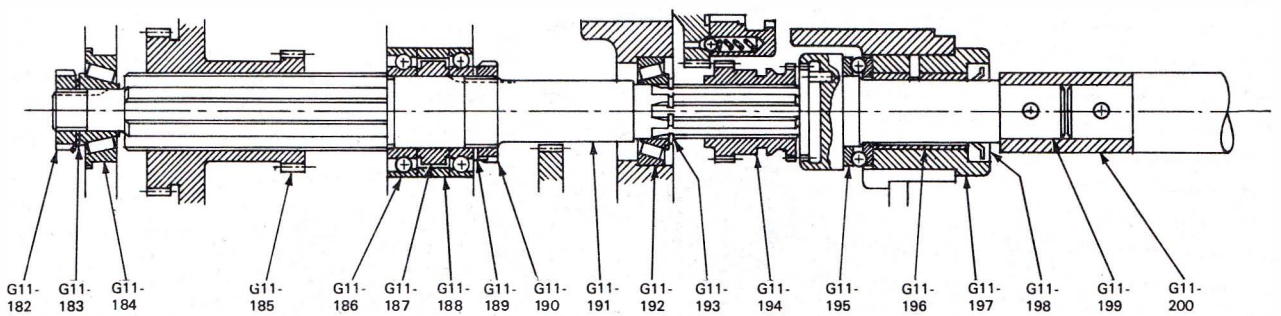



**Fig. G11-C Feed Box Gearing — English**
**For 14"B Thru 20"D Machines Starting with Serial Number 78653**
**For 20"E and 25"F Machines Starting with Serial Number 78950**

# FEED BOX GEARING — ENGLISH

| Part No. | Part Name |
|---|---|
| G11-182 | Nut |
| G11-183 | Washer |
| G11-184 | Bearing |
| G11-185 | Gear |
| G11-186 | Bearing |
| G11-187 | Spacer |
| G11-188 | Spacer |

| Part No. | Part Name |
|---|---|
| G11-189 | Washer |
| G11-190 | Nut |
| G11-191 | Shaft |
| G11-192 | Bearing |
| G11-193 | Retainer Ring |
| G11-194 | Gear |
| G11-195 | Bearing |

| Part No. | Part Name |
|---|---|
| G11-196 | Bush |
| G11-197 | Bush |
| G11-198 | Seal |
| G11-199 | Stub Shaft |
| G11-200 | Coupling |

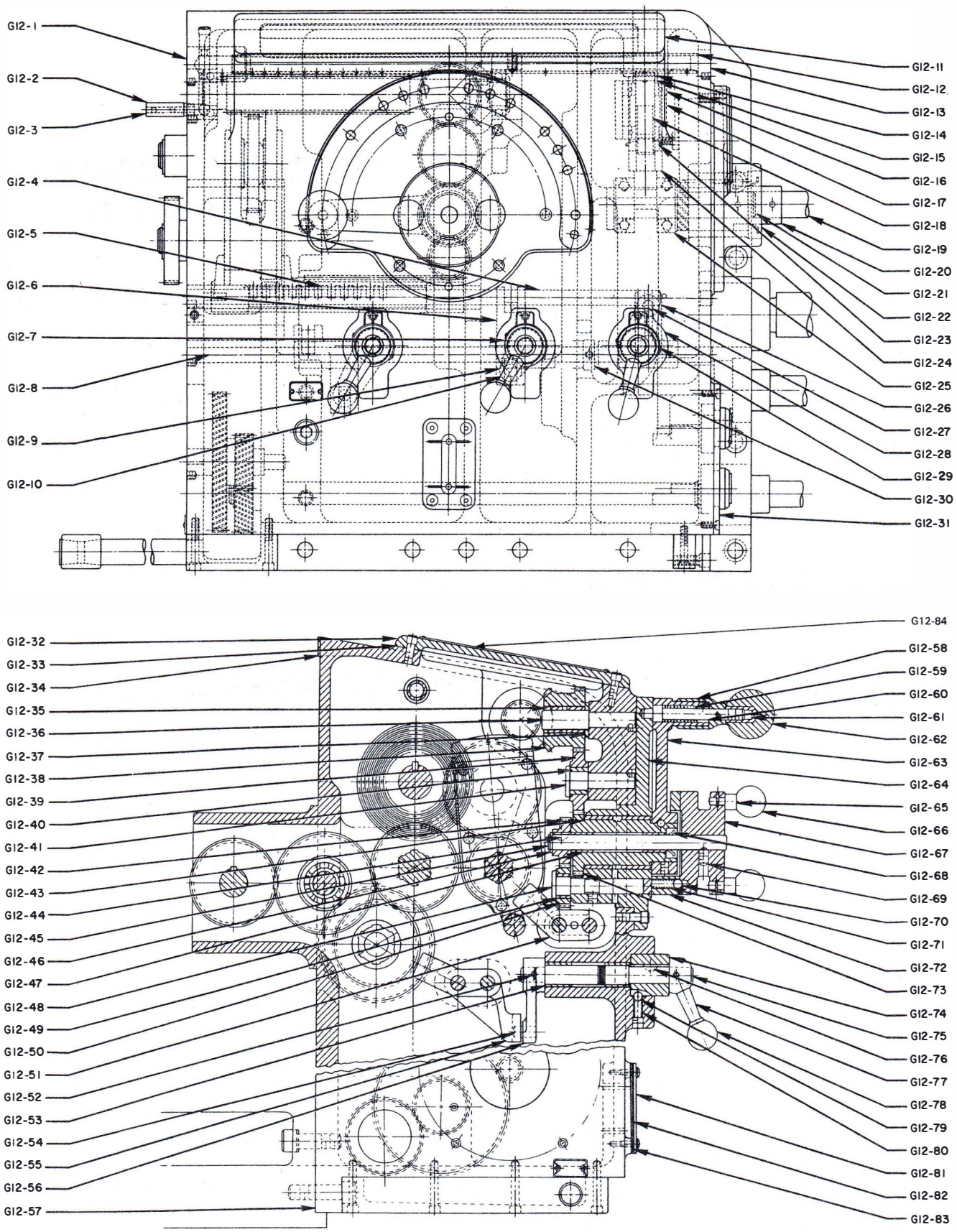



**Fig. G12 Feed Box Gear Shifting — English**

# FEED BOX GEAR SHIFTING-ENGLISH

| Part No. | Part Name |
|---|---|
| G12-1 | Plug |
| G12-2 | Block |
| G12-3 | Tube |
| G12-4 | Rod |
| G12-5 | Rod |
| G12-6 | Fork |
| G12-7 | Detent |
| G12-8 | Rod |
| G12-9 | Crank |
| G12-10 | Pin |
| G12-11 | Stud |
| G12-12 | Pipe |
| G12-13 | Plug |
| G12-14 | Ring |
| G12-15 | Washer |
| G12-16 | Bearing |
| G12-17 | Spacer |
| G12-18 | Fork |
| G12-19 | Shaft |
| G12-20 | Screw |
| G12-21 | Stud |
| G12-22 | Seal |
| G12-23 | Lockwasher |
| G12-24 | Lever |
| G12-25 | Bearing |
| G12-26 | Fork |
| G12-27 | Pin |
| G12-28 | Crank |

| Part No. | Part Name |
|---|---|
| G12-29 | Detent |
| G12-30 | Collar |
| G12-31 | Control Panel |
| G12-32 | Cover |
| G12-33 | Gasket |
| G12-34 | Gasket |
| G12-35 | Bearing |
| G12-36 | Stud |
| G12-37 | Washer |
| G12-38 | Gear |
| G12-39 | Gear |
| G12-40 | Bearing |
| G12-41 | Stud |
| G12-42 | Gear |
| G12-43 | Bearing |
| G12-44 | Key |
| G12-45 | Shaft |
| G12-46 | Ring |
| G12-47 | Bearing |
| G12-48 | Stud |
| G12-49 | Bearing |
| G12-50 | Pinion |
| G12-51 | Fork |
| G12-52 | Pin |
| G12-53 | Bearing |
| G12-54 | Pin |
| G12-55 | Fork |
| G12-56 | Crank |

| Part No. | Part Name |
|---|---|
| G12-57 | Cover |
| G12-58 | Handle |
| G12-59 | Spring |
| G12-60 | Bushing |
| G12-61 | Pin |
| G12-62 | Knob |
| G12-63 | Lever |
| G12-64 | Bracket |
| G12-65 | Stud |
| G12-66 | Knob |
| G12-67 | Dial |
| G12-68 | Seal |
| G12-69 | Screw & Lockscrew |
| G12-70 | Ball |
| G12-71 | Spring |
| G12-72 | Collar |
| G12-73 | Gear |
| G12-74 | Detent |
| G12-75 | Shaft |
| G12-76 | Key |
| G12-77 | Lever |
| G12-78 | Knob |
| G12-79 | Ball |
| G12-80 | Spring |
| G12-81 | Plate |
| G12-82 | Glass |
| G12-83 | Gasket |
| G12-84 | Index Plate |

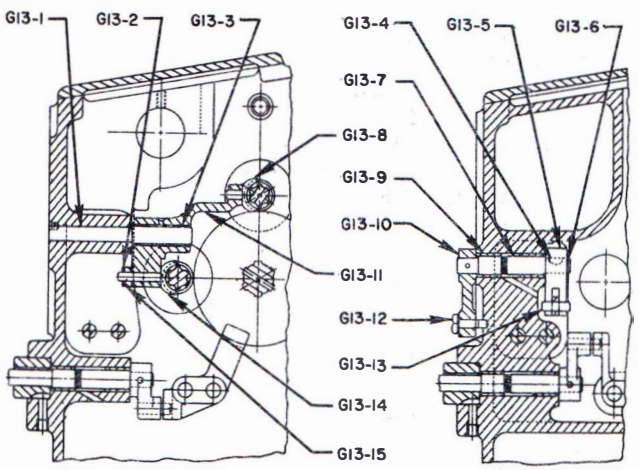



Fig. G13 Feed Box Gear Shifting — Metric

# FEED BOX GEAR SHIFTING-METRIC

| Part No. | Part Name |
|---|---|
| G13-1 | Stud |
| G13-2 | Washer |
| G13-3 | Bushing |
| G13-4 | Key |
| G13-5 | Lever |
| G13-6 | Ring |
| G13-7 | Shaft |
| G13-8 | Fork |
| G13-9 | Bushing |
| G13-10 | Lever |
| G13-11 | Lever |
| G13-12 | Screw |
| G13-13 | Pin |
| G13-14 | Fork |
| G13-15 | Link |

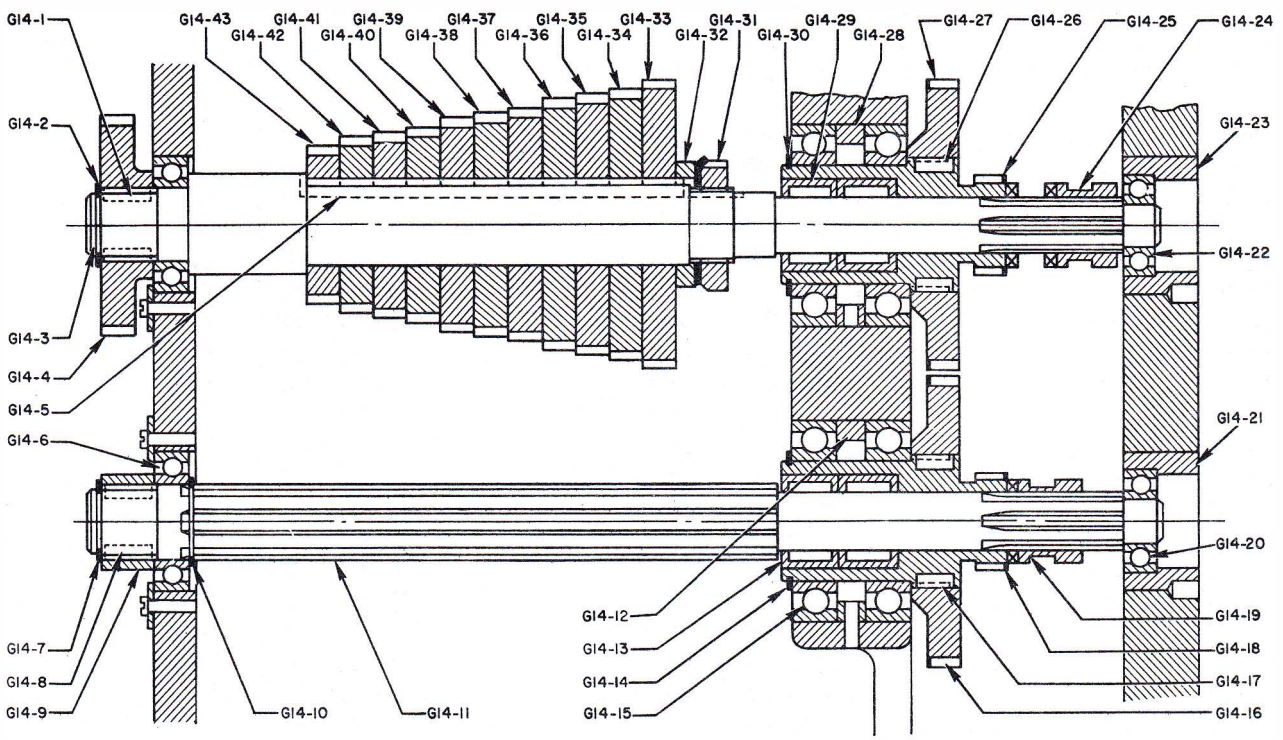



**Fig. G14 Feed Box Gearing — Metric**

# FEED BOX GEARING - METRIC

| Part No. | Part Name |
|---|---|
| G14-1 | Key |
| G14-2 | Ring |
| G14-3 | Shaft |
| G14-4 | Gear |
| G14-5 | Key |
| G14-6 | Bearing |
| G14-7 | Ring |
| G14-8 | Key |
| G14-9 | Spacer |
| G14-10 | Ring |
| G14-11 | Shaft |
| G14-12 | Spacer |
| G14-13 | Bearing |
| G14-14 | Ring |
| G14-15 | Bearing |
| G14-16 | Gear |
| G14-17 | Key |
| G14-18 | Hub |
| G14-19 | Clutch |
| G14-20 | Bearing |
| G14-21 | Retainer |
| G14-22 | Bearing |

| Part No. | Part Name |
|---|---|
| G14-23 | Retainer |
| G14-24 | Clutch |
| G14-25 | Hub |
| G14-26 | Key |
| G14-27 | Gear |
| G14-28 | Spacer |
| G14-29 | Bearing |
| G14-30 | Ring |
| G14-31 | Nut & Lockwasher |
| G14-32 | Spacer |
| G14-33 | Gear |
| G14-34 | Gear |
| G14-35 | Gear |
| G14-36 | Gear |
| G14-37 | Gear |
| G14-38 | Gear |
| G14-39 | Gear |
| G14-40 | Gear |
| G14-41 | Gear |
| G14-42 | Gear |
| G14-43 | Gear |

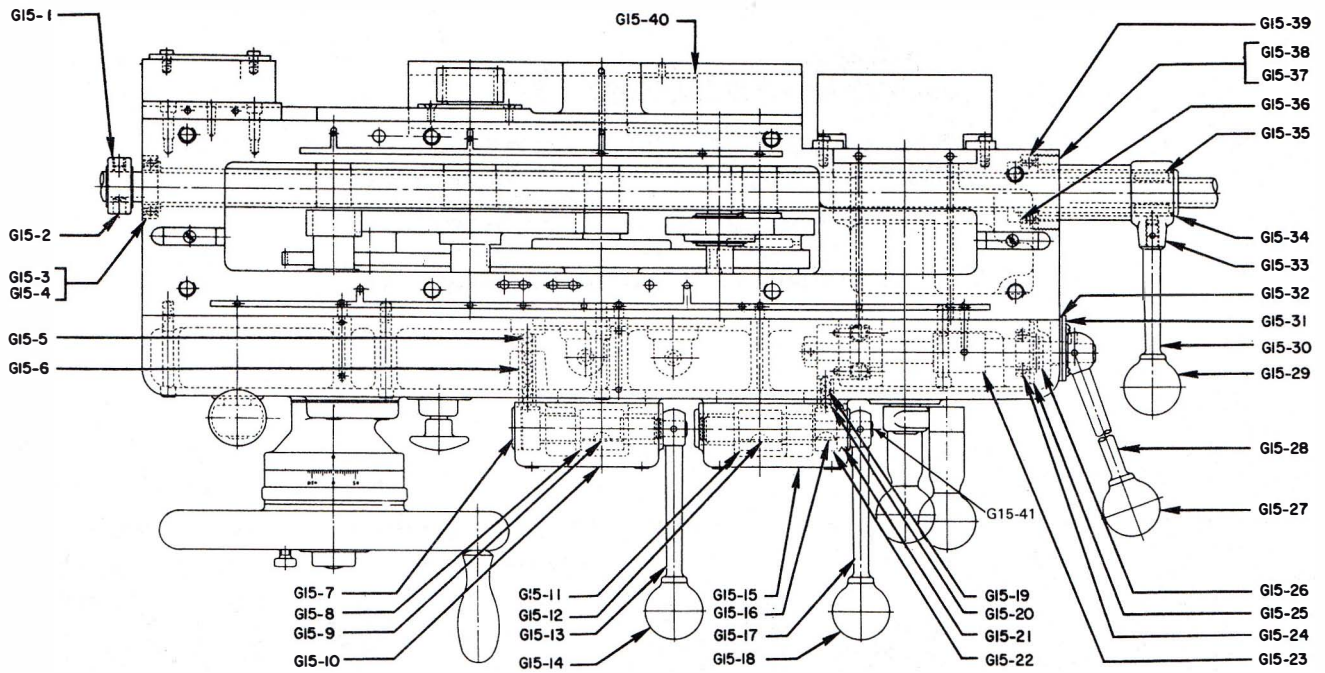


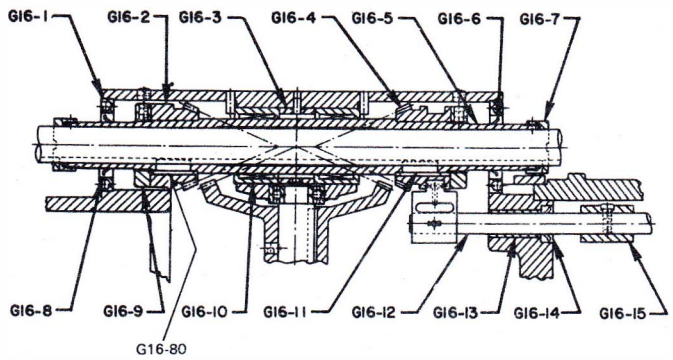

**Fig. G15 Apron — Top View**

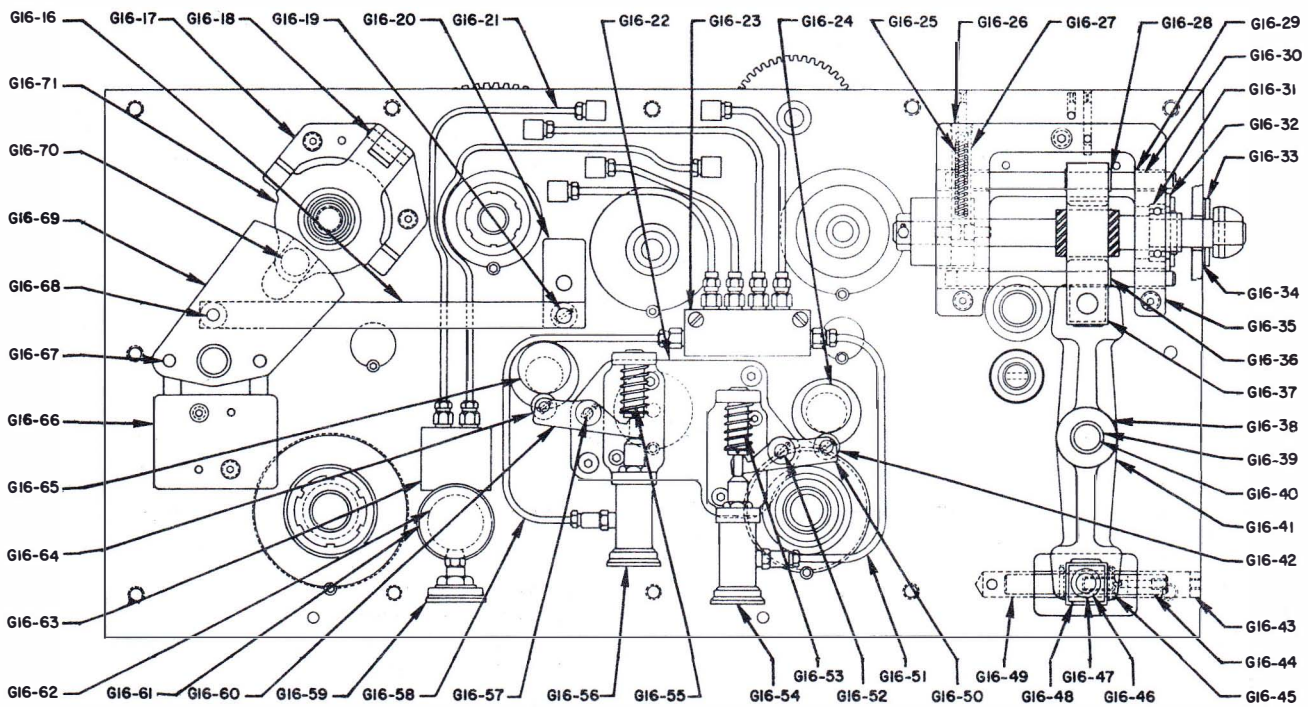
# APRON

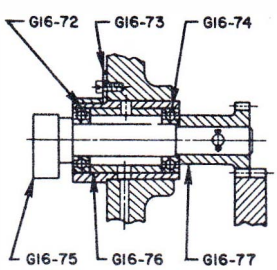
| Part No. | Part Name |
|---|---|
| G15-1 | Collar* |
| G15-2 | Key* |
| G15-3 | Bearing* |
| G15-4 | Plug# |
| G15-5 | Ball |
| G15-6 | Guide |
| G15-7 | Shaft |
| G15-8 | Cam |
| G15-9 | Key |
| G15-10 | Housing |
| G15-11 | Cam |
| G15-12 | Key |
| G15-13 | Lever |
| G15-14 | Knob |
| G15-15 | Housing |
| G15-16 | Key |
| G15-17 | Lever |
| G15-18 | Knob |
| G15-19 | Ball |
| G15-20 | Guide |

| Part No. | Part Name |
|---|---|
| G15-21 | Collar |
| G15-22 | Detent |
| G15-23 | Shaft |
| G15-24 | Bearing |
| G15-25 | Plate |
| G15-26 | Collar |
| G15-27 | Knob |
| G15-28 | Lever |
| G15-29 | Knob* |
| G15-30 | Lever* |
| G15-31 | Plate |
| G15-32 | Seal |
| G15-33 | Hub* |
| G15-34 | Sleeve* |
| G15-35 | Key* |
| G15-36 | Ring |
| G15-37 | Plug# |
| G15-38 | Nut* |
| G15-39 | Bearing |
| G15-40 | Bushing |
| G15-41 | Shaft |

*With Leadscrew Reverse Only
#Without Leadscrew Reverse Only



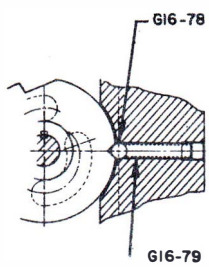
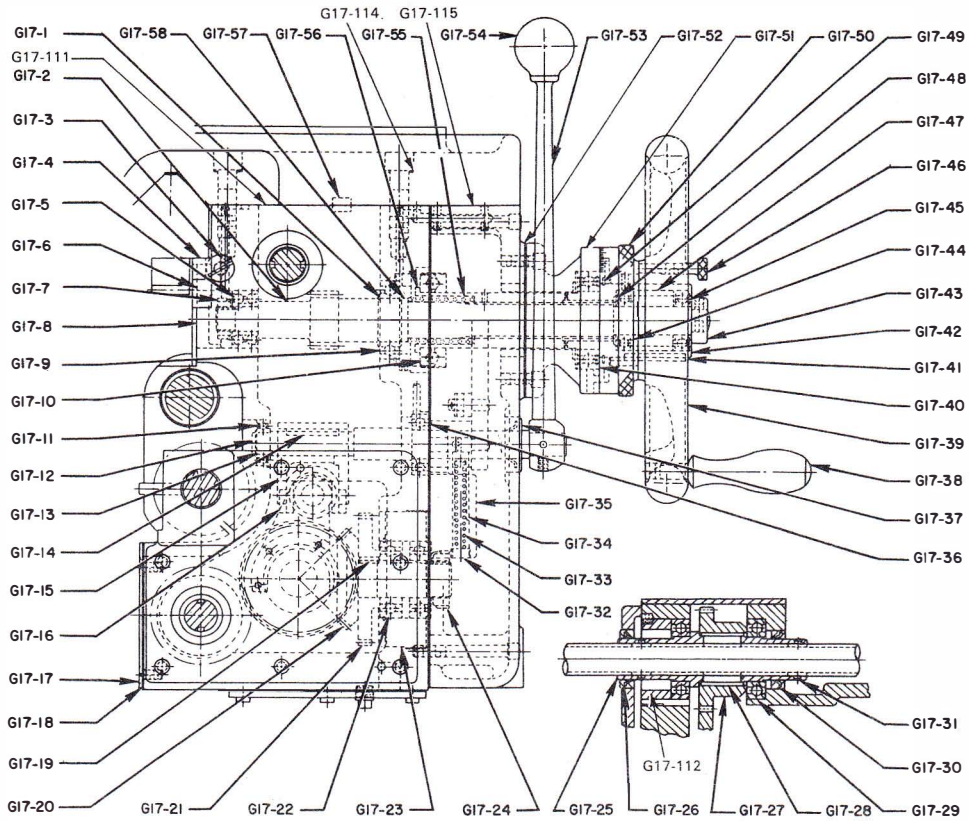



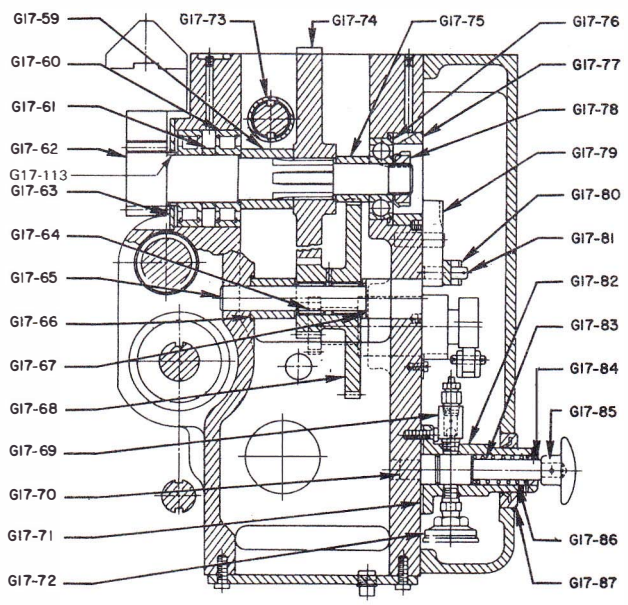

**Fig. G16 Apron — Front, Sectional and Plan Views**

# APRON

| Part No. | Part Name |
|---|---|
| G16-1 | Adapter |
| G16-2 | Pinion |
| G16-3 | Spacer |
| G16-4 | Pinion |
| G16-5 | Sleeve |
| G16-6 | Seal |
| G16-7 | Nut |
| G16-8 | Seal |
| G16-9 | Nut |
| G16-10 | Bearing |
| G16-11 | Key |
| G16-12 | Rod |
| G16-13 | Bearing |
| G16-14 | Seal |
| G16-15 | Block |
| G16-16 | Link |
| G16-17 | Bracket |
| G16-18 | Pin |
| G16-19 | Post |
| G16-20 | Lever |
| G16-21 | Tubes |
| G16-22 | Plate |
| G16-23 | Manifold |
| G16-24 | Cam |
| G16-25 | Spring |
| G16-26 | Screw |
| G16-27 | Plunger |
| G16-28 | Ring |
| G16-29 | Bushing |
| G16-30 | Rod |
| G16-31 | Bearing |
| G16-32 | Plate |
| G16-33 | Plate |
| G16-34 | Gasket |
| G16-35 | Bracket |
| G16-36 | Ring |
| G16-37 | Nut |
| G16-38 | Washer |
| G16-39 | Ring |
| G16-40 | Pin |

| Part No. | Part Name |
|---|---|
| G16-41 | Lever |
| G16-42 | Bushing |
| G16-43 | Plug |
| G16-44 | Rod |
| G16-45 | Washer |
| G16-46 | Ring |
| G16-47 | Screw |
| G16-48 | Shoe |
| G16-49 | Bushing |
| G16-50 | Arm |
| G16-51 | Tube |
| G16-52 | Stud |
| G16-53 | Spring |
| G16-54 | Pump |
| G16-55 | Spring |
| G16-56 | Pump |
| G16-57 | Stud |
| G16-58 | Tube |
| G16-59 | Valve |
| G16-60 | Arm |
| G16-61 | Knob |
| G16-62 | Body |
| G16-63 | Manifold |
| G16-64 | Bushing |
| G16-65 | Cam |
| G16-66 | Block |
| G16-67 | Pin |
| G16-68 | Post |
| G16-69 | Cam |
| G16-70 | Ball |
| G16-71 | Lever |
| G16-72 | Bearing |
| G16-73 | Washer |
| G16-74 | Bearing |
| G16-75 | Shaft |
| G16-76 | Spacer |
| G16-77 | Gear |
| G16-78 | Ball |
| G16-79 | Spring |
| G16-80 | Key |



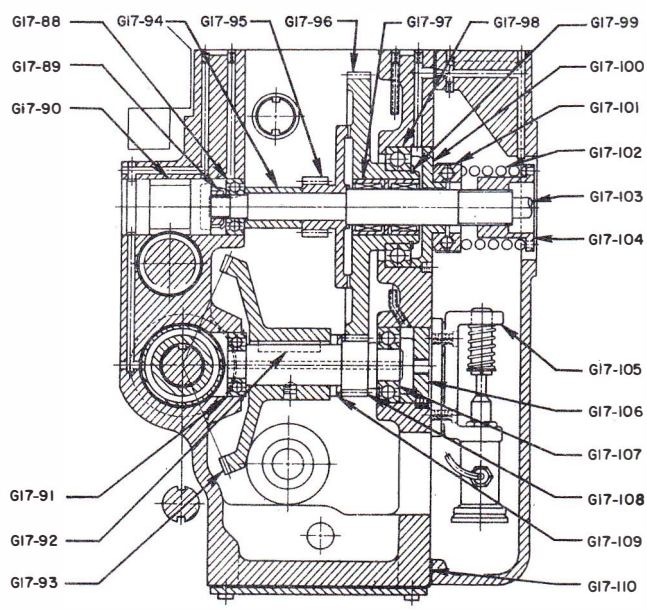
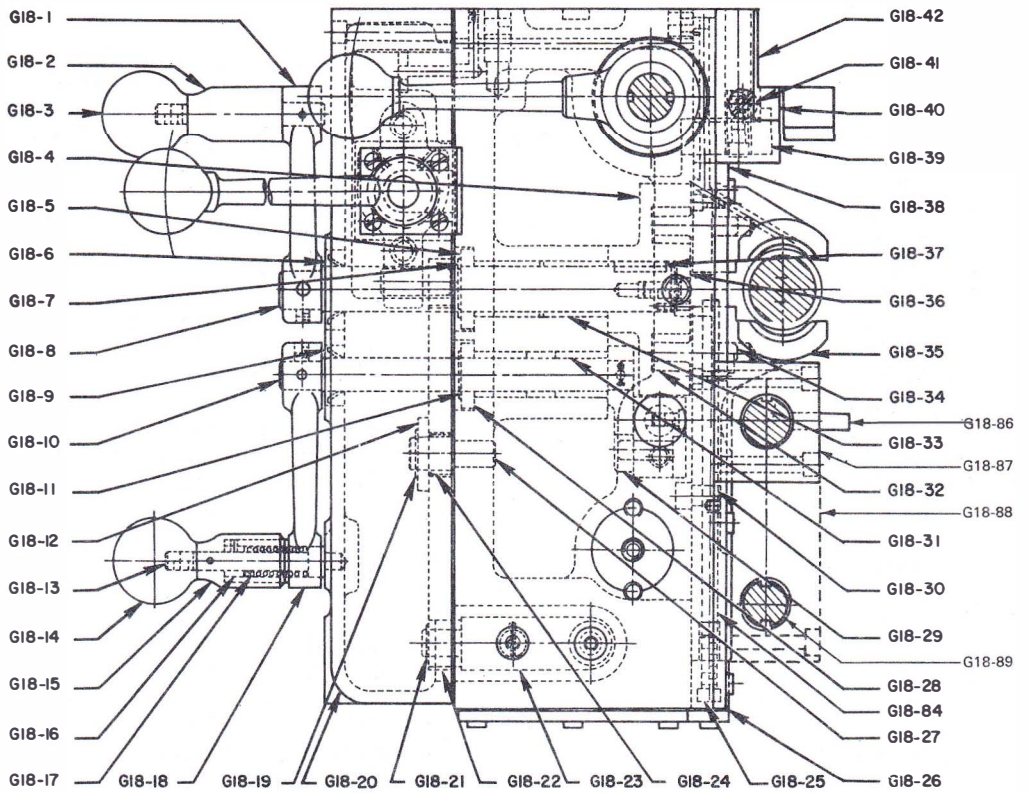




**Fig. G17 Apron-End and Sectional Views**

# APRON

| Part No. | Part Name |
|---|---|
| G17-1 | Ring |
| G17-2 | Shaft |
| G17-3 | Screw |
| G17-4 | Gib |
| G17-5 | Bearing |
| G17-6 | Block |
| G17-7 | Locknut |
| G17-8 | Plug |
| G17-9 | Bearing |
| G17-10 | Bearing |
| G17-11 | Bearing |
| G17-12 | Shaft |
| G17-13 | Ring |
| G17-14 | Key |
| G17-15 | Fork |
| G17-16 | Shoe |
| G17-17 | Cover |
| G17-18 | Gasket |
| G17-19 | Key |
| G17-20 | Gear |
| G17-21 | Gear |
| G17-22 | Bearing |
| G17-23 | Retainer |
| G17-24 | Locknut |
| G17-25 | Sleeve |
| G17-26 | Seal |
| G17-27 | Gear |
| G17-28 | Key |
| G17-29 | Bearing |
| G17-30 | Seal |
| G17-31 | Wiper |
| G17-32 | Screw |
| G17-33 | Spring |
| G17-34 | Plunger |
| G17-35 | Block |
| G17-36 | Bearing |
| G17-37 | Seal |
| G17-38 | Handle |
| G17-39 | Handwheel |
| G17-40 | Bearing |
| G17-41 | Key |
| G17-42 | Clutch |
| G17-43 | Nut |
| G17-44 | Bearing |
| G17-45 | Bearing |
| G17-46 | Screw |
| G17-47 | Spacer |
| G17-48 | Washer |
| G17-49 | Ring |
| G17-50 | Dial |
| G17-51 | Bracket |
| G17-52 | Shim |
| G17-53 | Lever |
| G17-54 | Knob |
| G17-55 | Spring |
| G17-56 | Clutch |
| G17-57 | Key |

| Part No. | Part Name |
|---|---|
| G17-58 | Shim |
| G17-59 | Spacer |
| G17-60 | Bearing |
| G17-61 | Spacer |
| G17-62 | Pinion |
| G17-63 | Cover |
| G17-64 | Bearing |
| G17-65 | Shaft |
| G17-66 | Spacer |
| G17-67 | Washer |
| G17-68 | Gear |
| G17-69 | Valve |
| G17-70 | Plug |
| G17-71 | Gasket |
| G17-72 | Strainer & Intake Valve |
| G17-73 | Cover |
| G17-74 | Gear |
| G17-75 | Spacer |
| G17-76 | Bearing |
| G17-77 | Retainer |
| G17-78 | Nut & Washer |
| G17-79 | Lever |
| G17-80 | Washer |
| G17-81 | Post |
| G17-82 | Pump Body |
| G17-83 | Plunger |
| G17-84 | Bushing |
| G17-85 | Knob |
| G17-86 | Spring |
| G17-87 | Seal |
| G17-88 | Bearing |
| G17-89 | Nut & Washer |
| G17-90 | Plug |
| G17-91 | Bearing |
| G17-92 | Key |
| G17-93 | Gear |
| G17-94 | Spacer |
| G17-95 | Pinion |
| G17-96 | Gear |
| G17-97 | Bearing |
| G17-98 | Bearing |
| G17-99 | Ring |
| G17-100 | Adapter |
| G17-101 | Bearing |
| G17-102 | Spring |
| G17-103 | Shaft |
| G17-104 | Nut |
| G17-105 | Pump |
| G17-106 | Plug |
| G17-107 | Bearing |
| G17-108 | Shaft |
| G17-109 | Collar |
| G17-110 | Gasket |
| G17-111 | Gasket |
| G17-112 | Retainer |
| G17-113 | Spacer |
| G17-114 | Washer |
| G17-115 | Gasket |



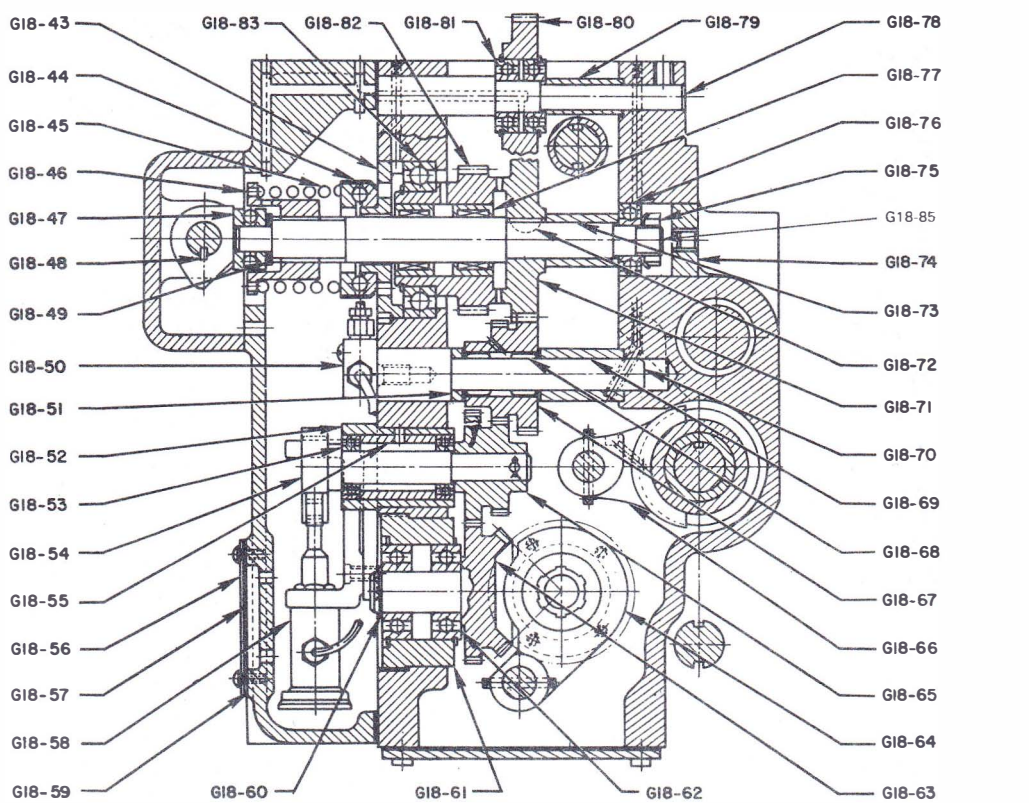




**Fig. G18 Apron-End and Sectional Views**

# APRON

| Part No. | Part Name |
|---|---|
| G18-1 | Lever |
| G18-2 | Handle |
| G18-3 | Knob |
| G18-4 | Cam |
| G18-5 | Washer |
| G18-6 | Seal |
| G18-7 | Ring |
| G18-8 | Shaft |
| G18-9 | Seal |
| G18-10 | Shaft |
| G18-11 | Ring |
| G18-12 | Washer |
| G18-13 | Pin |
| G18-14 | Knob |
| G18-15 | Handle |
| G18-16 | Bushing |
| G18-17 | Spring |
| G18-18 | Lever |
| G18-19 | Ring |
| G18-20 | Cover |
| G18-21 | Ring |
| G18-22 | Shoe |
| G18-23 | Block |
| G18-24 | Bearing |
| G18-25 | Screw |
| G18-26 | Gasket |
| G18-27 | Pin |
| G18-28 | Washer |
| G18-29 | Lever |
| G18-30 | Pin |
| G18-31 | Bearing |
| G18-32 | Roller |
| G18-33 | Bearing |
| G18-34 | Stud |
| G18-35 | Nut |
| G18-36 | Washer |
| G18-37 | Key |
| G18-38 | Clamp |
| G18-39 | Clamp |
| G18-40 | Gib |
| G18-41 | Screw |
| G18-42 | Block |
| G18-43 | Adapter |
| G18-44 | Bearing |

| Part No. | Part Name |
|---|---|
| G18-45 | Spring |
| G18-46 | Nut |
| G18-47 | Bearing |
| G18-48 | Key |
| G18-49 | Collar |
| G18-50 | Manifold |
| G18-51 | Washer |
| G18-52 | Sleeve |
| G18-53 | Bearing |
| G18-54 | Shaft |
| G18-55 | Spacer |
| G18-56 | Plate |
| G18-57 | Glass |
| G18-58 | Pump |
| G18-59 | Gasket |
| G18-60 | Ring |
| G18-61 | Retainer |
| G18-62 | Bearing |
| G18-63 | Gear |
| G18-64 | Fork |
| G18-65 | Gear |
| G18-66 | Fork |
| G18-67 | Gear |
| G18-68 | Bearing |
| G18-69 | Spacer |
| G18-70 | Shaft |
| G18-71 | Gear |
| G18-72 | Key |
| G18-73 | Spacer |
| G18-74 | Plug |
| G18-75 | Nut & Washer |
| G18-76 | Bearing |
| G18-77 | Bearing |
| G18-78 | Stud |
| G18-79 | Spacer |
| G18-80 | Gear |
| G18-81 | Bearing |
| G18-82 | Gear |
| G18-83 | Bearing |
| G18-84 | Pin |
| G18-85 | Shaft |
| G18-86 | Pin |
| G18-87* | Bracket |
| G18-88 | Bracket |
| G18-89 | Bush |

*Used Without P.R.T.

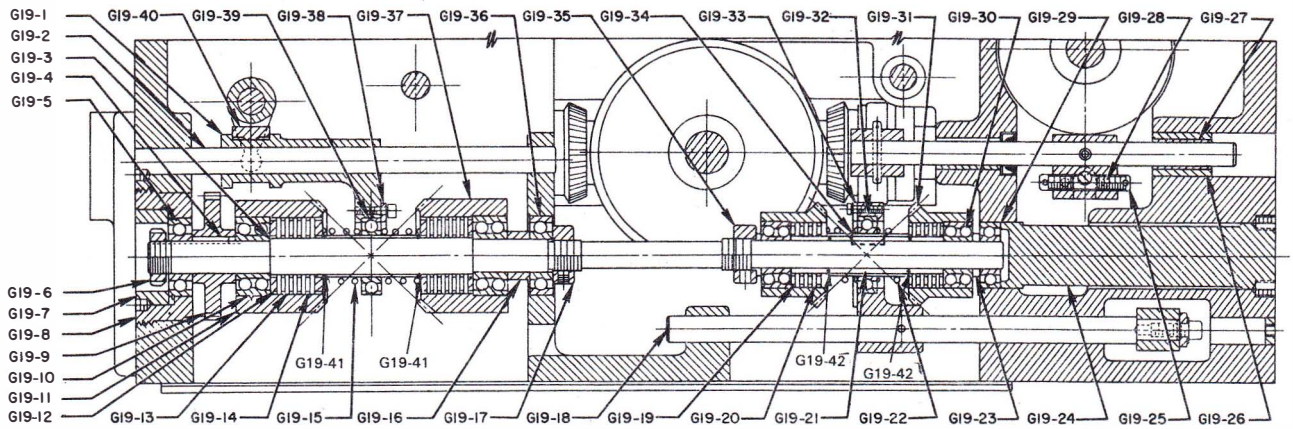



**Fig. G19 Apron with Longitudinal and Cross Traverse**

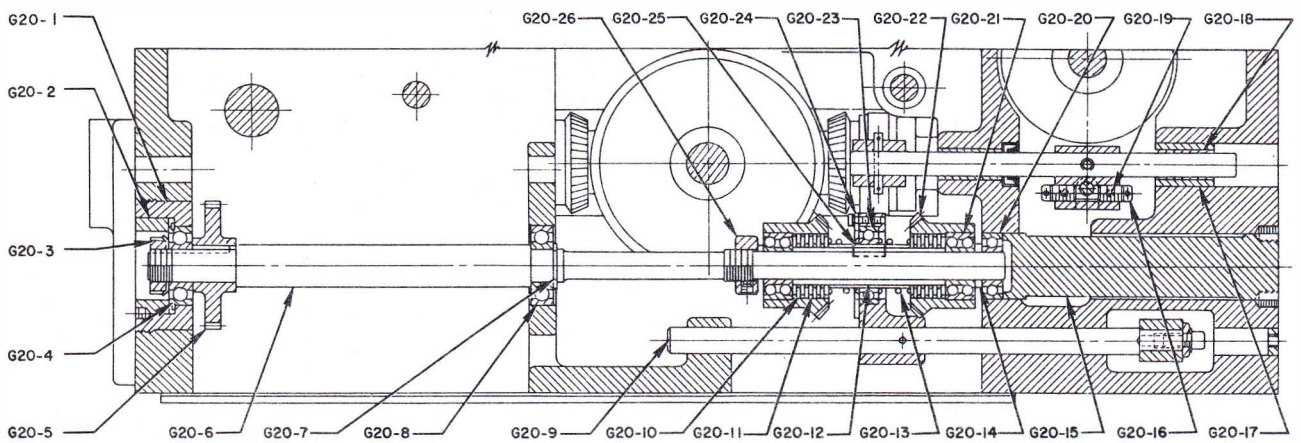



**Fig. G20 Apron with Cross Traverse Only**

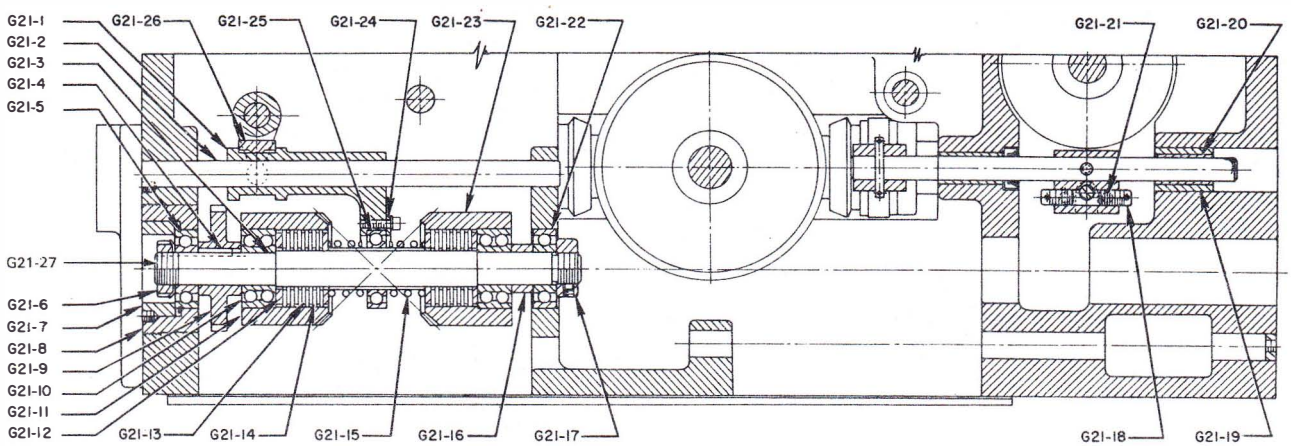



**Fig. G21 Apron with Longitudinal Traverse Only**

# APRON W/LONG. AND CROSS TRAVERSE

| Part No. | Part Name |
|---|---|
| G19-1 | Fork |
| G19-2 | Rod |
| G19-3 | Shaft |
| G19-4 | Key |
| G19-5 | Bearing |
| G19-6 | Nut |
| G19-7 | Retainer |
| G19-8 | Retainer |
| G19-9 | Gear |
| G19-10 | Bearing |
| G19-11 | Gear |
| G19-12 | Plate |
| G19-13 | Plates |
| G19-14 | Plates |
| G19-15 | Spring |
| G19-16 | Spacer |
| G19-17 | Nut |
| G19-18 | Rod |
| G19-19 | Plates |
| G19-20 | Plates |
| G19-21 | Sleeve |

| Part No. | Part Name |
|---|---|
| G19-22 | Spring |
| G19-23 | Spacer |
| G19-24 | Plug |
| G19-25 | Stop Screw |
| G19-26 | Bushing |
| G19-27 | Bearing |
| G19-28 | Plug |
| G19-29 | Bearing |
| G19-30 | Bearing |
| G19-31 | Gear |
| G19-32 | Bearing |
| G19-33 | Plate |
| G19-34 | Key |
| G19-35 | Nut |
| G19-36 | Bearing |
| G19-37 | Gear |
| G19-38 | Plate |
| G19-39 | Bearing |
| G19-40 | Shoe |
| G19-41 | Snap Ring |
| G19-42 | Snap Ring |

## APRON W/CROSS TRAVERSE ONLY

| Part No. | Part Name |
|---|---|
| G20-1 | Retainer |
| G20-2 | Retainer |
| G20-3 | Nut |
| G20-4 | Bearing |
| G20-5 | Gear |
| G20-6 | Shaft |
| G20-7 | Ring |
| G20-8 | Bearing |
| G20-9 | Rod |
| G20-10 | Plates |
| G20-11 | Plates |
| G20-12 | Sleeve |
| G20-13 | Spring |

| Part No. | Part Name |
|---|---|
| G20-14 | Spacer |
| G20-15 | Rod |
| G20-16 | Stop Screw |
| G20-17 | Bushing |
| G20-18 | Bearing |
| G20-19 | Plug |
| G20-20 | Bearing |
| G20-21 | Bearing |
| G20-22 | Gear |
| G20-23 | Bearing |
| G20-24 | Plate |
| G20-25 | Key |
| G20-26 | Nut |

## APRON W/LONG TRAVERSE ONLY

| Part No. | Part Name |
|---|---|
| G21-1 | Fork |
| G21-2 | Rod |
| G21-3 | Shaft |
| G21-4 | Key |
| G21-5 | Bearing |
| G21-6 | Nut |
| G21-7 | Retainer |
| G21-8 | Retainer |
| G21-9 | Gear |
| G21-10 | Bearing |
| G21-11 | Gear |
| G21-12 | Plate |
| G21-13 | Plates |

| Part No. | Part Name |
|---|---|
| G21-14 | Plates |
| G21-15 | Spring |
| G21-16 | Spacer |
| G21-17 | Nut |
| G21-18 | Stop Screw |
| G21-19 | Bushing |
| G21-20 | Bearing |
| G21-21 | Plug |
| G21-22 | Bearing |
| G21-23 | Gear |
| G21-24 | Plate |
| G21-25 | Bearing |
| G21-26 | Shoe |
| G21-27 | Shaft |

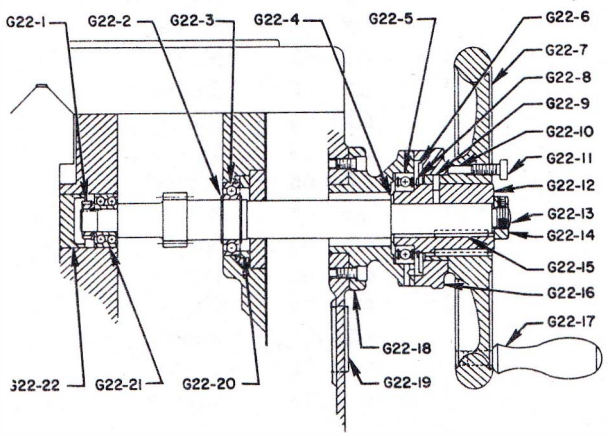



**Fig. G22 Apron — First Pinion Assembly without Power Rapid Traverse**

## APRON - 1st PINION ASSEMBLY - WITHOUT P.R.T.

| Part No. | Part Name |
|---|---|
| G22-1 | Nut & Washer |
| G22-2 | Ring & Shim |
| G22-3 | Bearing |
| G22-4 | Washer |
| G22-5 | Bearing |
| G22-6 | Washer |
| G22-7 | Handwheel |
| G22-8 | Ring |
| G22-9 | Pin |
| G22-10 | Plug |
| G22-11 | Screw |

| Part No. | Part Name |
|---|---|
| G22-12 | Bushing |
| G22-13 | Shaft |
| G22-14 | Nut |
| G22-15 | Key |
| G22-16 | Dial |
| G22-17 | Handle |
| G22-18 | Bracket |
| G22-19 | Plug |
| G22-20 | Ring |
| G22-21 | Bearing |
| G22-22 | Plug |

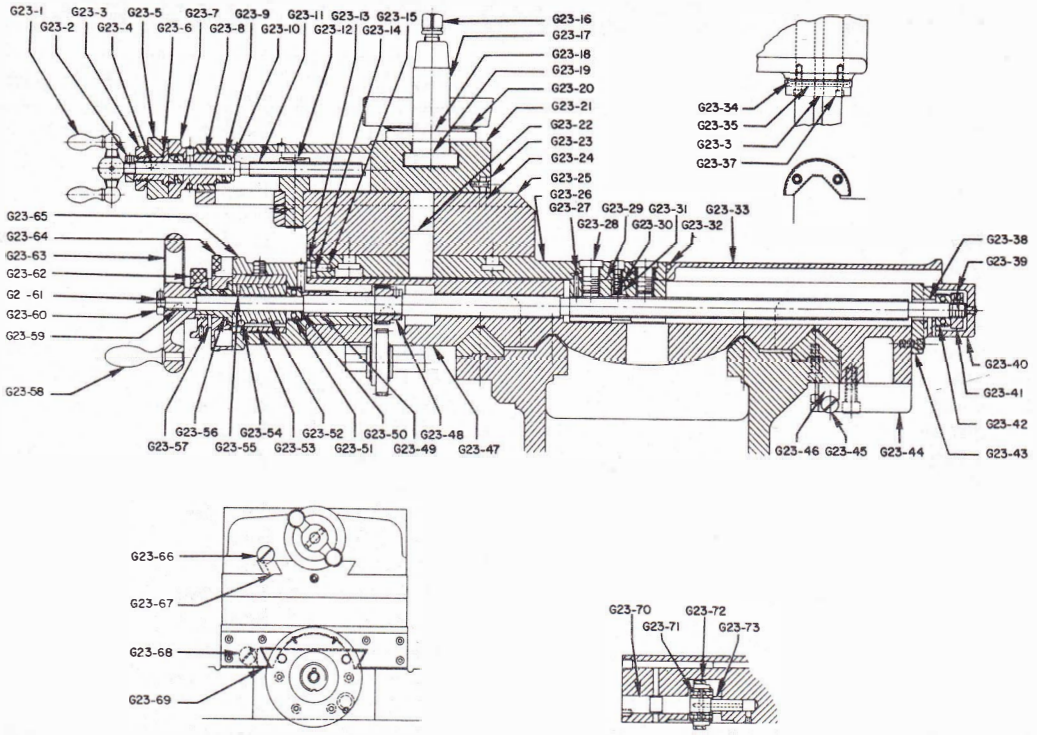



**Fig. G23 Compound Rest and Carriage**

# COMPOUND REST AND CARRIAGE

| Part No. | Part Name |
|---|---|
| G23-1 | Crank |
| G23-2 | Nut |
| G23-3 | Nut |
| G23-4 | Key |
| G23-5 | Dial |
| G23-6 | Bushing |
| G23-7 | Bushing |
| G23-8 | Bushing |
| G23-9 | Bearing |
| G23-10 | Washer |
| G23-11 | Screw |
| G23-12 | Nut |
| G23-13 | Plate |
| G23-14 | Wiper |
| G23-15 | Pin |
| G23-16 | Screw |
| G23-17 | Post |
| G23-18 | Collar |
| G23-19 | Collar |
| G23-20 | Wedge |
| G23-21 | Slide |
| G23-22 | Plug |
| G23-23 | Plate |
| G23-24 | Wiper |
| G23-25 | Swivel |

| Part No. | Part Name |
|---|---|
| G23-26 | Slide |
| G23-27 | Plug |
| G23-28 | Screw |
| G23-29 | Nut |
| G23-30 | Nut |
| G23-31 | Wedge |
| G23-32 | Strip |
| G23-33 | Guard |
| G23-34 | Wiper |
| G23-35 | Retainer |
| G23-36 | Wiper |
| G23-37 | Screw |
| G23-38 | Bushing |
| G23-39 | Shoe |
| G23-40 | Cover |
| G23-41 | Nut |
| G23-42 | Bearing |
| G23-43 | Bracket |
| G23-44 | Bracket |
| G23-45 | Screw |
| G23-46 | Gib |
| G23-47 | Carriage |
| G23-48 | Pinion |
| G23-49 | Bearing |
| G23-50 | Shim |

| Part No. | Part Name |
|---|---|
| G23-51 | Bearing |
| G23-52 | Bushing |
| G23-53 | Bushing |
| G23-54 | Ball |
| G23-55 | Key |
| G23-56 | Bushing |
| G23-57 | Washer |
| G23-58 | Handle |
| G23-59 | Key |
| G23-60 | Nut |
| G23-61 | Screw |
| G23-62 | Nut |
| G23-63 | Wheel |
| G23-64 | Dial |
| G23-65 | Bushing |
| G23-66 | Screw |
| G23-67 | Gib |
| G23-68 | Screw |
| G23-69 | Gib |
| G23-70 | Stud |
| G23-71 | Bearing |
| G23-72 | Gear |
| G23-73 | Spacer |

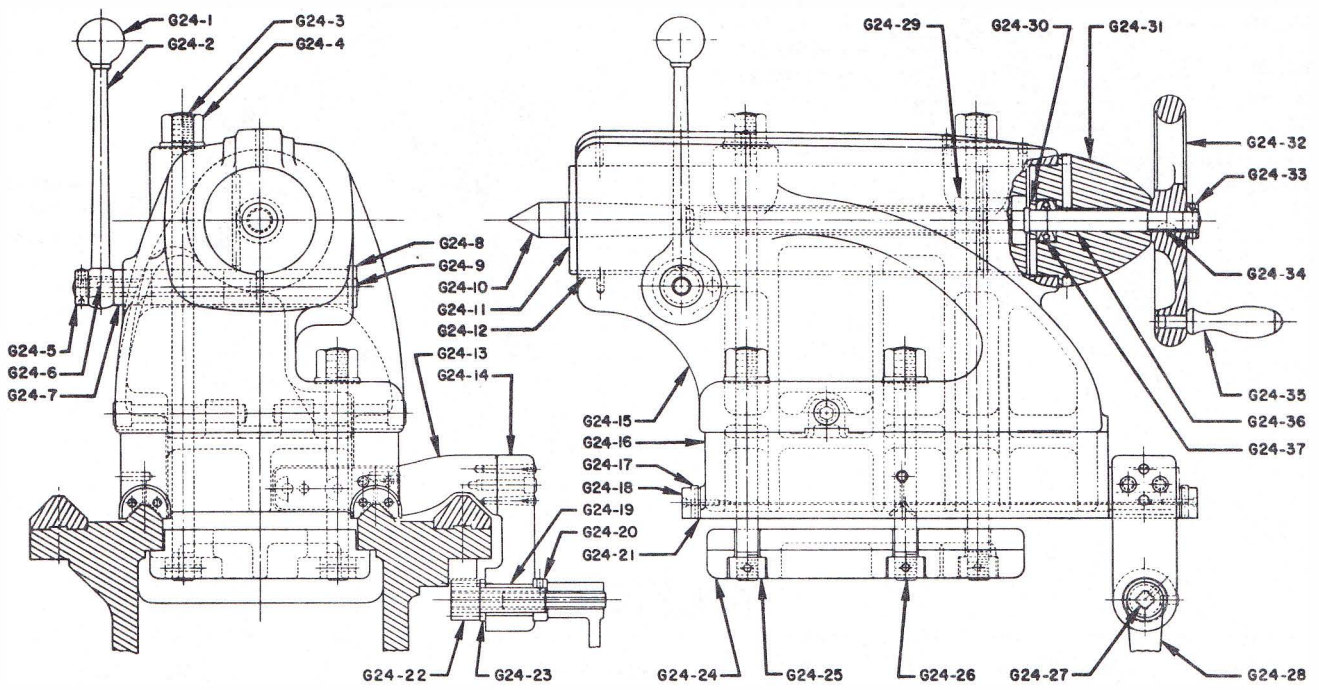



**Fig. G24 Tailstock**

# TAILSTOCK

| Part No. | Part Name |
|---|---|
| G24-1 | Knob |
| G24-2 | Lever |
| G24-3 | Stud |
| G24-4 | Nut |
| G24-5 | Nut |
| G24-6 | Key |
| G24-7 | Bushing |
| G24-8 | Bushing |
| G24-9 | Screw |
| G24-10 | Center |
| G24-11 | Spindle |
| G24-12 | Key |
| G24-13 | Support |
| G24-14 | Bracket |
| G24-15 | Top |
| G24-16 | Base |
| G24-17 | Retainer |
| G24-18 | Wiper |
| G24-19 | Bearing |

| Part No. | Part Name |
|---|---|
| G24-20 | Collar |
| G24-21 | Wiper |
| G24-22 | Pinion |
| G24-23 | Washer |
| G24-24 | Clamp |
| G24-25 | Nut |
| G24-26 | Stud |
| G24-27 | Stem |
| G24-28 | Handle |
| G24-29 | Nut |
| G24-30 | Collar |
| G24-31 | Plug |
| G24-32 | Handwheel |
| G24-33 | Nut |
| G24-34 | Key |
| G24-35 | Handle |
| G24-36 | Screw |
| G24-37 | Bearing |

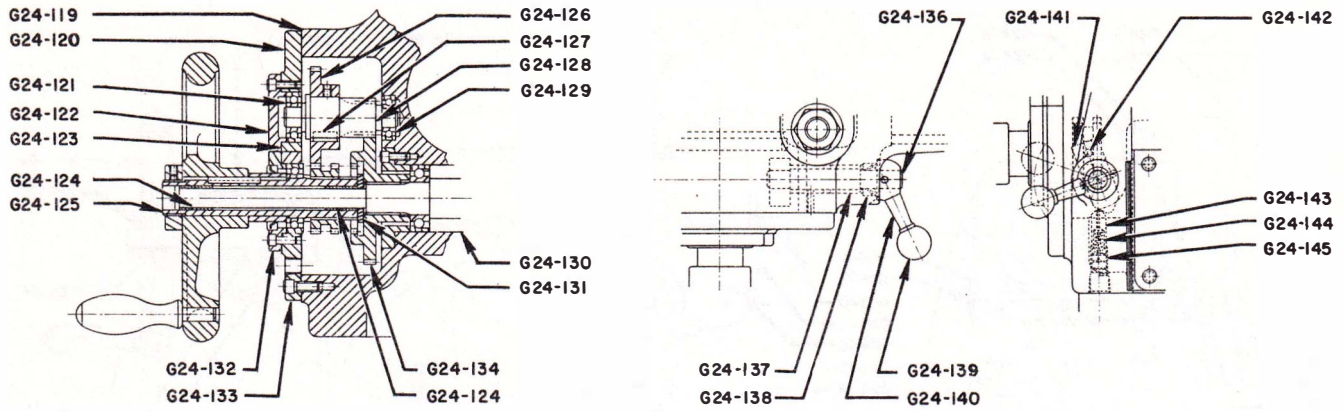


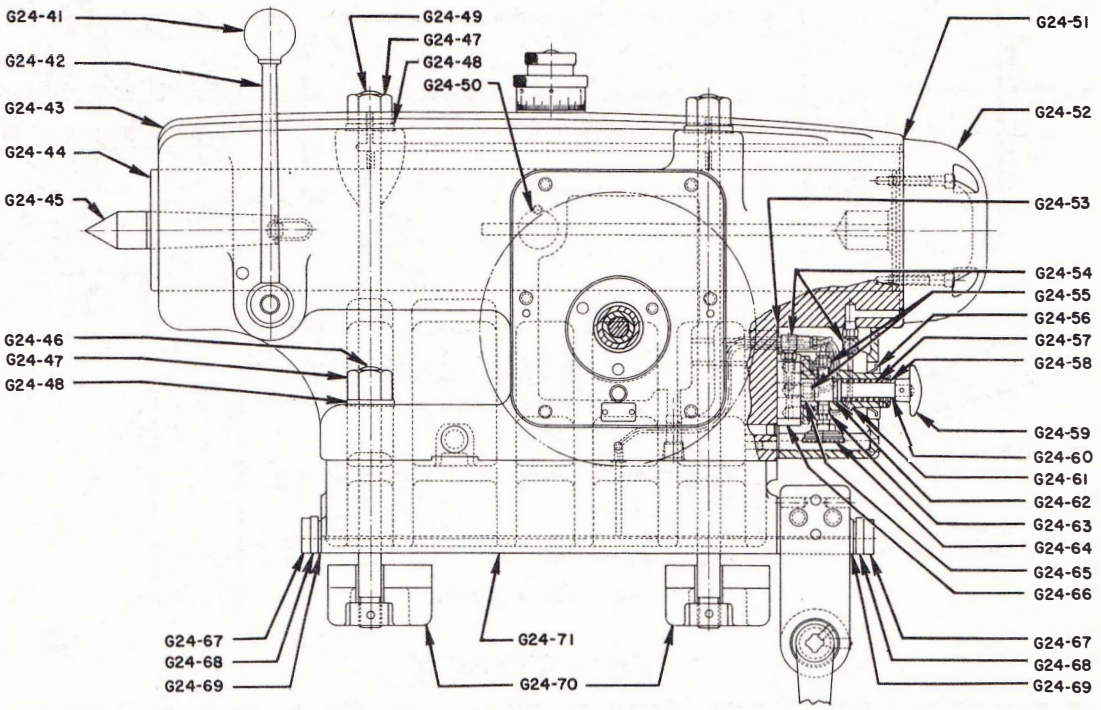

**Fig. G24 Tailstock**

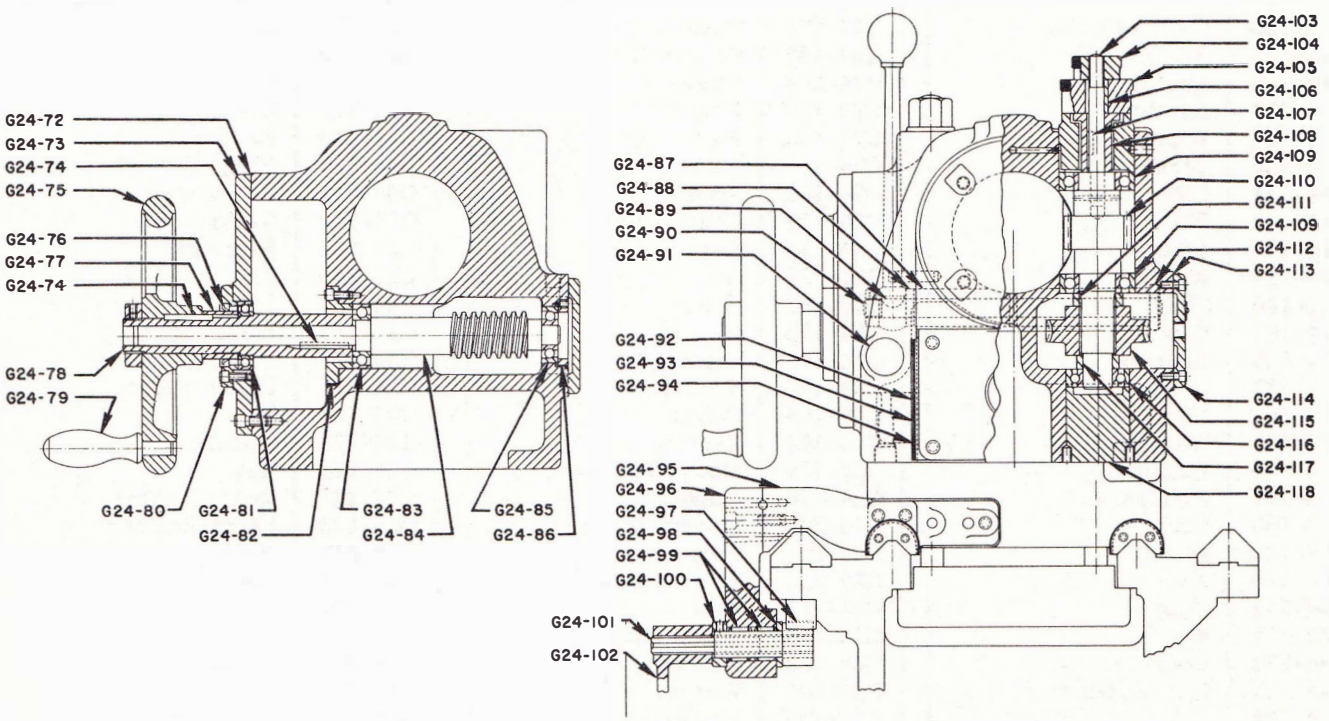
# TAILSTOCK

| Part No. | Part Name |
|---|---|
| G24-41 | Knob |
| G24-42 | Lever |
| G24-43 | Top |
| G24-44 | Spindle |
| G24-45 | Center |
| G24-46 | Stud |
| G24-47 | Nut |
| G24-48 | Washer |
| G24-49 | Stud |
| G24-50 | Plug |
| G24-51 | Gasket |
| G24-52 | Cap |
| G24-53 | Gasket |
| G24-54 | Valve |
| | Adapter |
| | Sleeve |
| | Bushing |
| G24-55 | Adapter |
| | Sleeve |
| | Bushing |
| G24-56 | Seal |
| G24-57 | Spring |
| G24-58 | Bushing |
| G24-59 | Knob |
| G24-60 | Plunger |
| G24-61 | Body |
| G24-62 | Seal |
| G24-63 | Check Valve |
| G24-64 | Filter |
| G24-65 | Plug |
| G24-66 | Junction Box |
| G24-67 | Wiper |
| G24-68 | Retainer |
| G24-69 | Wiper |
| G24-70 | Clamp |
| G24-71 | Base |
| G24-72 | Gasket |

| Part No. | Part Name |
|---|---|
| G24-73 | Front Plate |
| G24-74 | Key |
| G24-75 | Handwheel |
| G24-76 | Seal |
| G24-77 | Spacer |
| G24-78 | Sleeve |
| G24-79 | Handle |
| G24-80 | Retainer |
| G24-81 | Bearing |
| G24-82 | Retainer |
| G24-83 | Bearing |
| G24-84 | Shaft |
| G24-85 | Bearing |
| G24-86 | Retainer |
| G24-87 | Bushing |
| G24-88 | Washer |
| G24-89 | Key |
| G24-90 | Screw |
| G24-91 | Plug |
| G24-92 | Plate |
| G24-93 | Gasket |
| G24-94 | Glass |
| G24-95 | Bracket Support |
| G24-96 | Bracket |
| G24-97 | Pinion |
| G24-98 | Washer |
| G24-99 | Bearing |
| G24-100 | Collar |
| G24-101 | Stem |
| G24-102 | Handle |
| G24-103 | Stem |
| G24-104 | Clamp Nut |
| G24-105 | Dial |
| G24-106 | Bushing |
| G24-107 | Key |
| G24-108 | Bushing |
| G24-109 | Bearing |

| Part No. | Part Name |
|---|---|
| G24-110 | Pinion |
| G24-111 | Spacer |
| G24-112 | Bushing |
| G24-113 | Gasket |
| G24-114 | Cover |
| G24-115 | Wormwheel |
| G24-116 | Bearing |
| G24-117 | Spacer |
| G24-118 | Retainer |
| G24-119 | Gasket |
| G24-120 | Upper Plate |
| G24-121 | Bearing |
| G24-122 | Upper Retainer |
| G24-123 | Seal |
| G24-124 | Bushing |
| G24-125 | Sleeve |
| G24-126 | Gear |
| G24-127 | Key |
| G24-128 | Pinion |
| G24-129 | Bearing |
| G24-130 | Shaft |
| G24-131 | Spacer |
| G24-132 | Lower Retainer |
| G24-133 | Lower Plate |
| G24-134 | Gear |
| G24-136 | Shaft |
| G24-137 | Bushing |
| G24-138 | Seal |
| G24-139 | Knob |
| G24-140 | Lever |
| G24-141 | Lever |
| G24-142 | Shoe |
| G24-143 | Plunger |
| G24-144 | Spring |
| G24-145 | Screw |


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G24-118

# TAILSTOCK

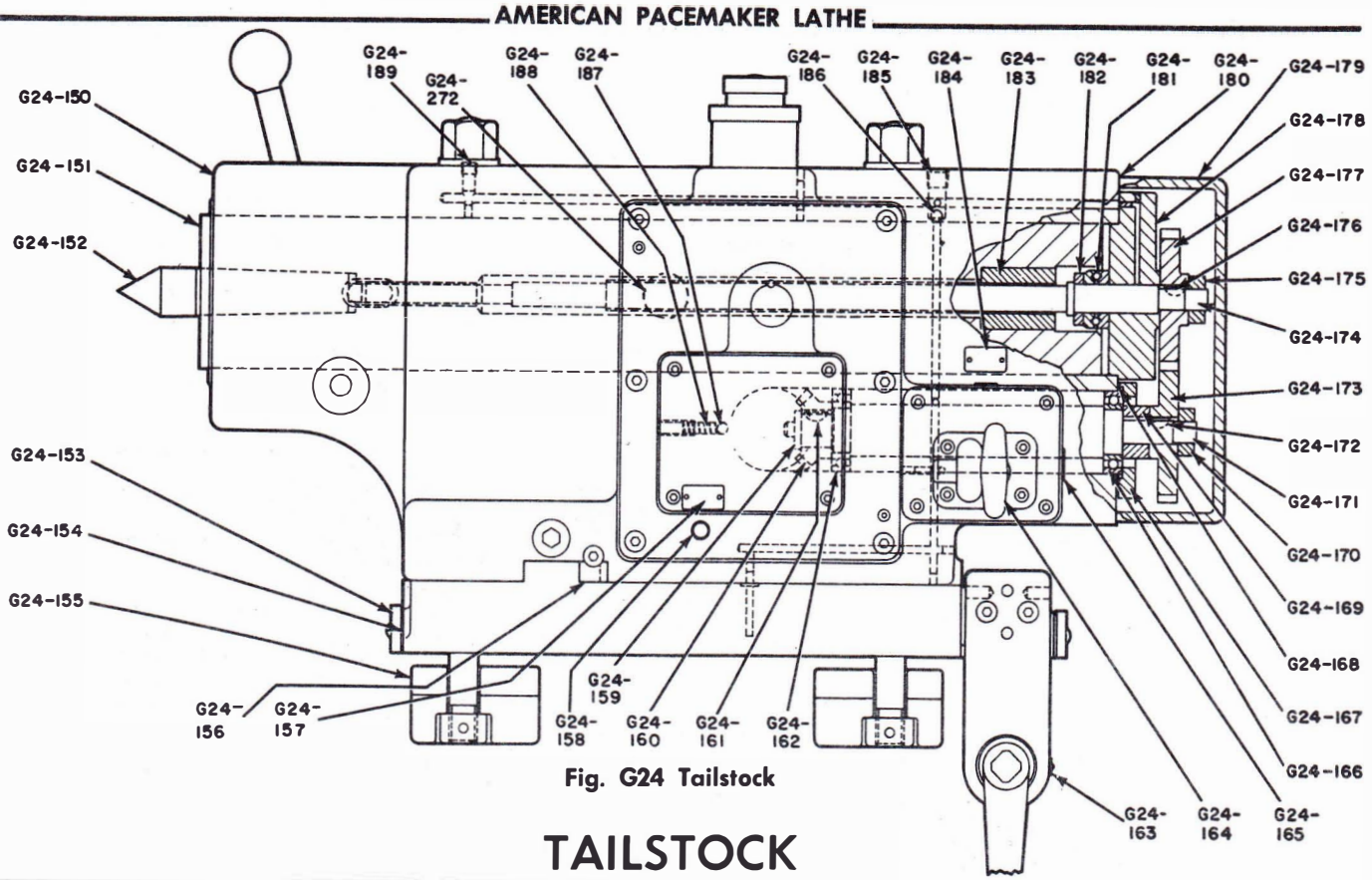



Fig. G24 Tailstock

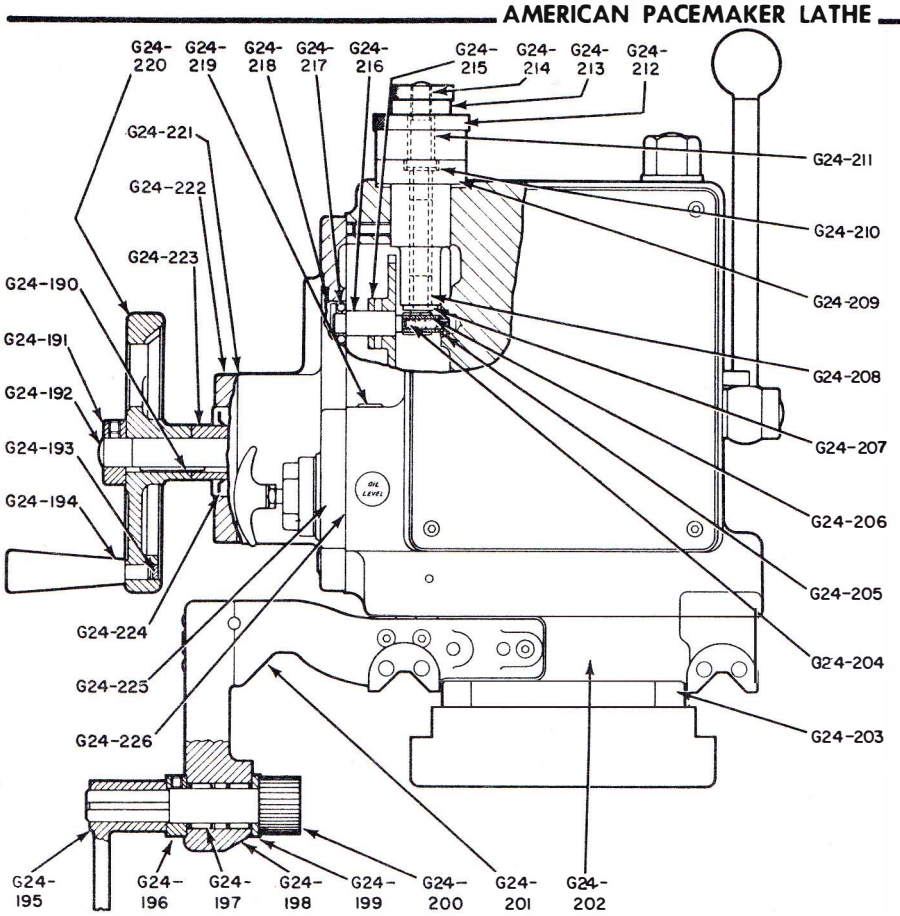
# TAILSTOCK

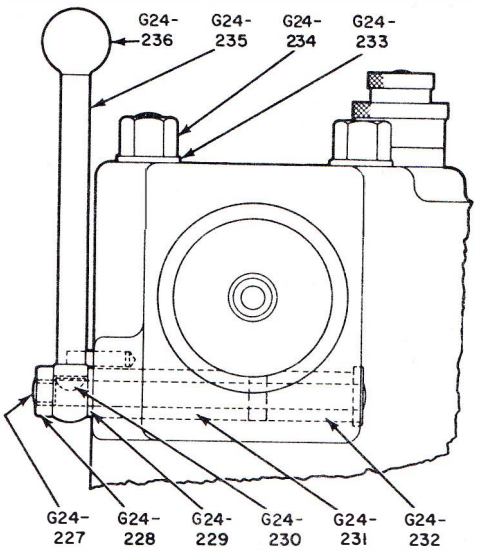
| Part No. | Part Name |
|---|---|
| G24-150 | Tailstock Top |
| G24-151 | Spindle |
| G24-152 | Center |
| G24-153 | Retainer |
| G24-154 | Wiper |
| G24-155 | Clamp |
| G24-156 | Gib |
| G24-157 | Plate |
| G24-158 | Plug |
| G24-159 | Washer |
| G24-160 | Gear |
| G24-161 | Key |
| G24-162 | Bearing |
| G24-163 | Oiler |
| G24-164 | Pump |
| G24-165 | Window |
| G24-166 | Bearing |
| G24-167 | Retainer |
| G24-168 | Shim |
| G24-169 | Spacer |
| G24-170 | Nut |
| G24-171 | Shaft |
| G24-172 | Key |
| G24-173 | Gear |
| G24-174 | Spindle Screw |
| G24-175 | Nut |
| G24-176 | Key |
| G24-177 | Gear |
| G24-178 | Cap |
| G24-179 | Cover |
| G24-180 | Gasket |
| G24-181 | Bearing |

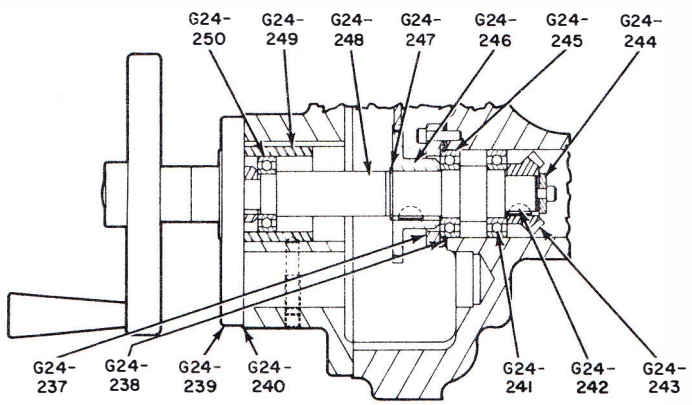
| Part No. | Part Name |
|---|---|
| G24-182 | Washer |
| G24-183 | Spindle Nut |
| G24-184 | Plate |
| G24-185 | Plug |
| G24-186 | Ball |
| G24-187 | Ball* |
| G24-188 | Spring* |
| G24-189 | Control Unit |
| G24-190 | Key |
| G24-191 | Nut |
| G24-192 | Shaft* |
| G24-193 | Plug |
| G24-194 | Handle |
| G24-195 | Handle |
| G24-196 | Collar |
| G24-197 | Bearing |
| G24-198 | Mover Bracket |
| G24-199 | Washer |
| G24-200 | Mover Pinion |
| G24-201 | Support |
| G24-202 | Tailstock Base |
| G24-203 | Stud |
| G24-204 | Worm Gear |
| G24-205 | Bearing |
| G24-206 | Worm |
| G24-207 | Washer |
| G24-208 | Bushing |
| G24-209 | Bushing |
| G24-210 | Bushing |
| G24-211 | Bushing |
| G24-212 | Dial |
| G24-213 | Nut |

| Part No. | Part Name |
|---|---|
| G24-214 | Shaft |
| G24-215 | Gear |
| G24-216 | Shaft |
| G24-217 | Bearing |
| G24-218 | Retainer |
| G24-219 | Plug |
| G24-220 | Handwheel |
| G24-221 | Gasket |
| G24-222 | Retainer |
| G24-223 | Sleeve |
| G24-224 | Seal |
| G24-225 | Mounting Plate |
| G24-226 | Gasket |
| G24-227 | Clamp Screw |
| G24-228 | Nut |
| G24-229 | Washer |
| G24-230 | Key |
| G24-231 | Rear Bushing |
| G24-232 | Front Bushing |
| G24-233 | Washer |
| G24-234 | Nut |
| G24-235 | Lever |
| G24-236 | Knob |
| G24-237 | Retainer |
| G24-238 | Shim |
| G24-239 | Front Plate |
| G24-240 | Gasket |
| G24-241 | Bearing |
| G24-242 | Key |
| G24-243 | Gear |
| G24-244 | Washer |
| G24-245 | Bearing |

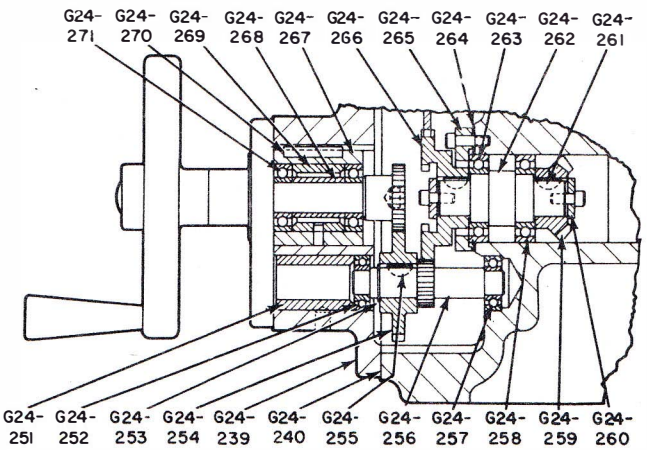
* Two Speed




SINGLE SPEED




TWO SPEED

# TAILSTOCK

| Part No. | Part Name |
|---|---|
| G24-246 | Gear |
| G24-247 | Snap Ring |
| G24-248 | Shaft |
| G24-249 | Sleeve |
| G24-250 | Bearing |
| G24-251 | Spacer* |
| G24-252 | Bearing* |
| G24-253 | Snap Ring* |
| G24-254 | Gear* |

| Part No. | Part Name |
|---|---|
| G24-255 | Key* |
| G24-256 | Shaft* |
| G24-257 | Bearing * |
| G24-258 | Bearing * |
| G24-259 | Gear * |
| G24-260 | Washer * |
| G24-261 | Key* |
| G24-262 | Shaft* |
| G24-263 | Bearing* |

| Part No. | Part Name |
|---|---|
| G24-264 | Shim* |
| G24-265 | Retainer* |
| G24-266 | Gear * |
| G24-267 | Bushing * |
| G24-268 | Spacer * |
| G24-269 | Spacer * |
| G24-270 | Key * |
| G24-271 | Bearing * |
| G24-272 | Tailstock Plug |

* Two Speed

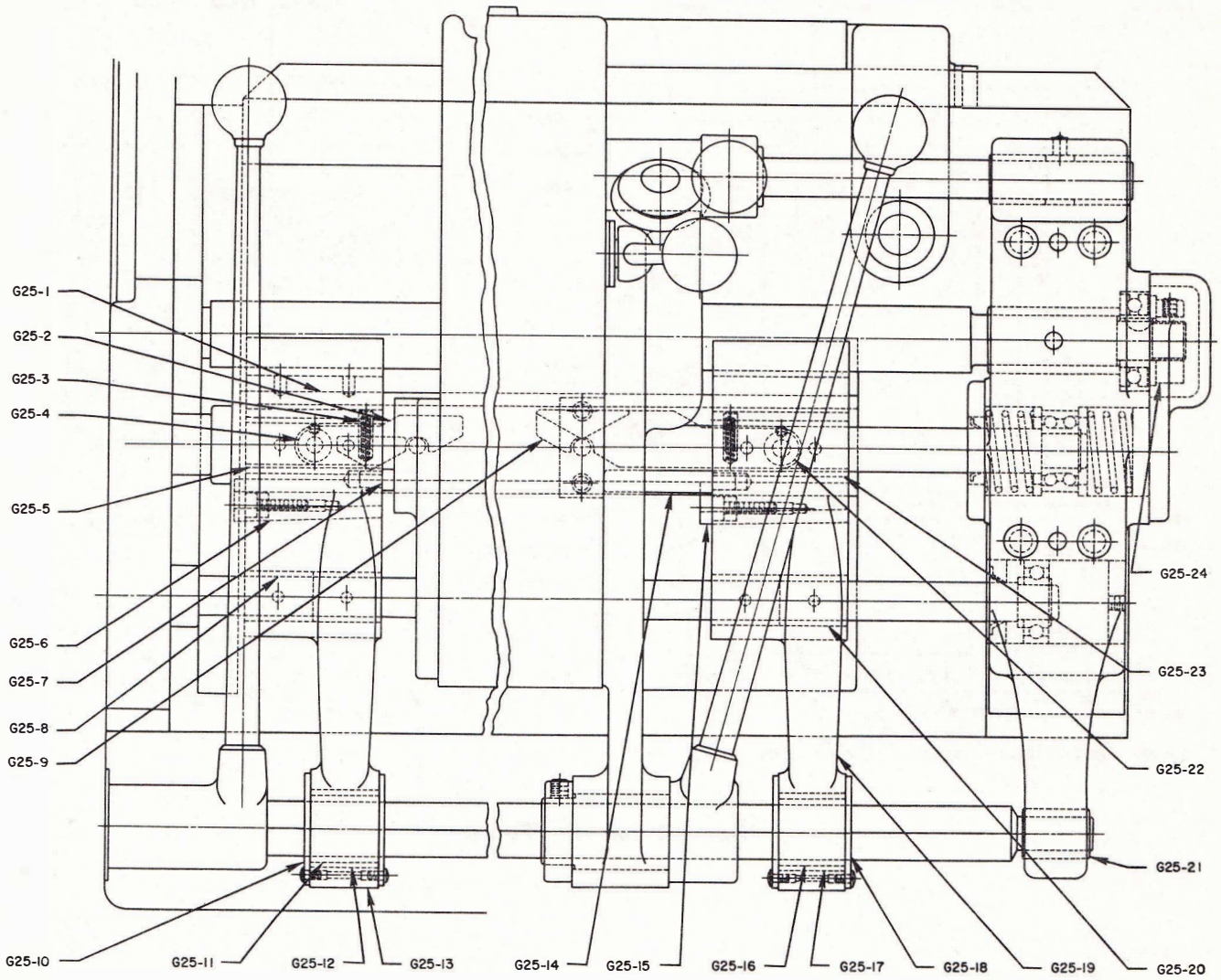



**Fig. G25 Leadscrew Supports**

# LEADSCREW SUPPORTS

| Part No. | Part Name |
|---|---|
| G25-1 | Bushing |
| G25-2 | Latch Head End |
| G25-3 | Spring |
| G25-4 | Pin |
| G25-5 | Bushing |
| G25-6 | Gib |
| G25-7 | Pin |
| G25-8 | Bushing |
| G25-9 | Latch Tail End |
| G25-10 | Plate |
| G25-11 | Sleeve |
| G25-12 | Bushing |

| Part No. | Part Name |
|---|---|
| G25-13 | Support |
| G25-14 | Pin |
| G25-15 | Gib |
| G25-16 | Sleeve |
| G25-17 | Bushing |
| G25-18 | Plate |
| G25-19 | Support |
| G25-20 | Bushing |
| G25-21 | Bushing |
| G25-22 | Pin |
| G25-23 | Bushing |
| G25-24 | Nut |

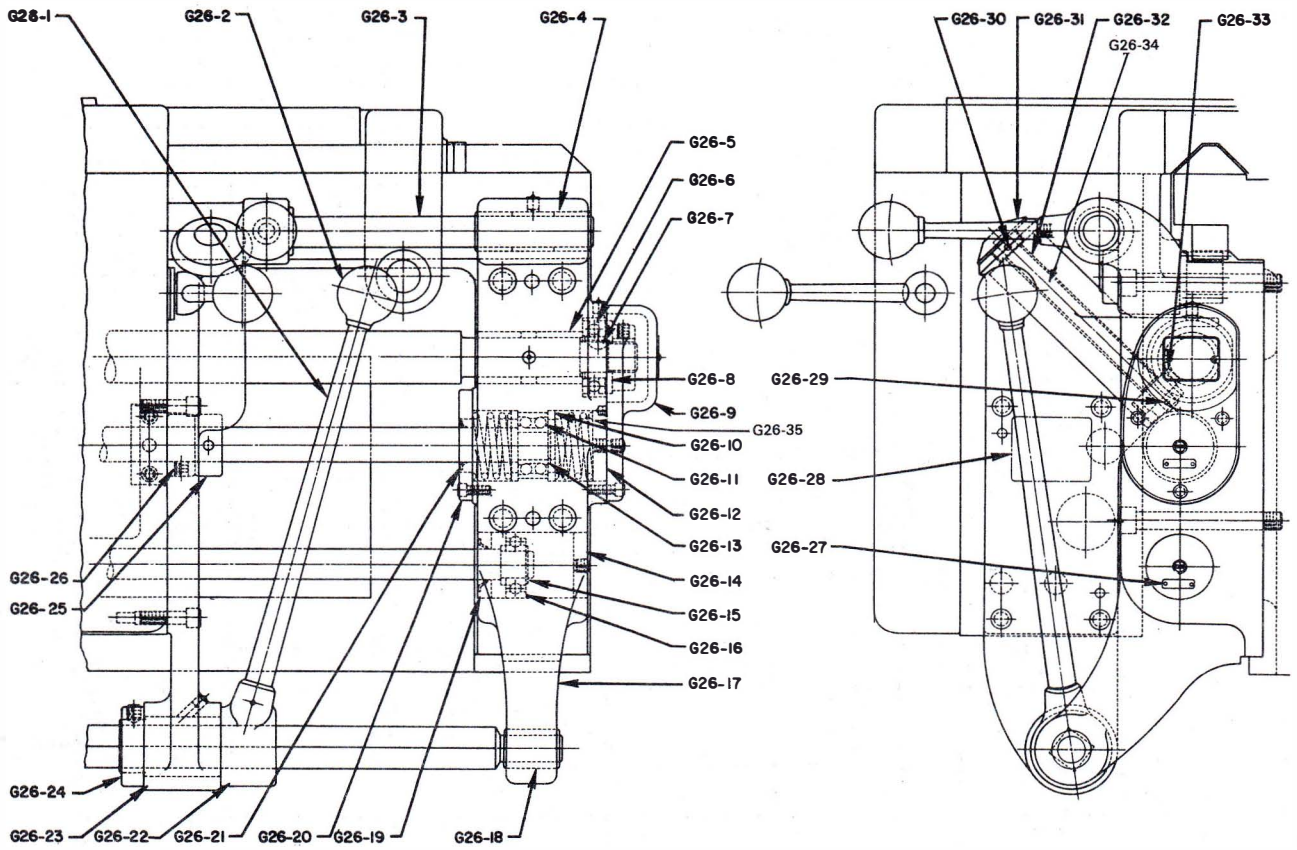



Fig. G26 Tail End Bracket

# TAIL END BRACKET W/LEADSCREW REVERSE

| Part No. | Part Name |
|---|---|
| G26-1 | Lever |
| G26-2 | Knob |
| G26-3 | Shaft |
| G26-4 | Bearing |
| G26-5 | Bearing |
| G26-6 | Bearing |
| G26-7 | Key |
| G26-8 | Sleeve |
| G26-9 | Cover |
| G26-10 | Spacer |
| G26-11 | Bearing |
| G26-12 | Plug |
| G26-13 | Ring |
| G26-14 | Plug |
| G26-15 | Ring |
| G26-16 | Bearing |
| G26-17 | Bracket |

| Part No. | Part Name |
|---|---|
| G26-18 | Bearing |
| G26-19 | Seal |
| G26-20 | Plate |
| G26-21 | Seal |
| G26-22 | Hub |
| G26-23 | Bracket |
| G26-24 | Collar |
| G26-25 | Collar |
| G26-26 | Collar |
| G26-27 | Plate |
| G26-28 | Plate |
| G26-29 | Pin |
| G26-30 | Pin |
| G26-31 | Dial |
| G26-32 | Bushing |
| G26-33 | Wheel |
| G26-34 | Shaft |
| G26-35 | Spring |

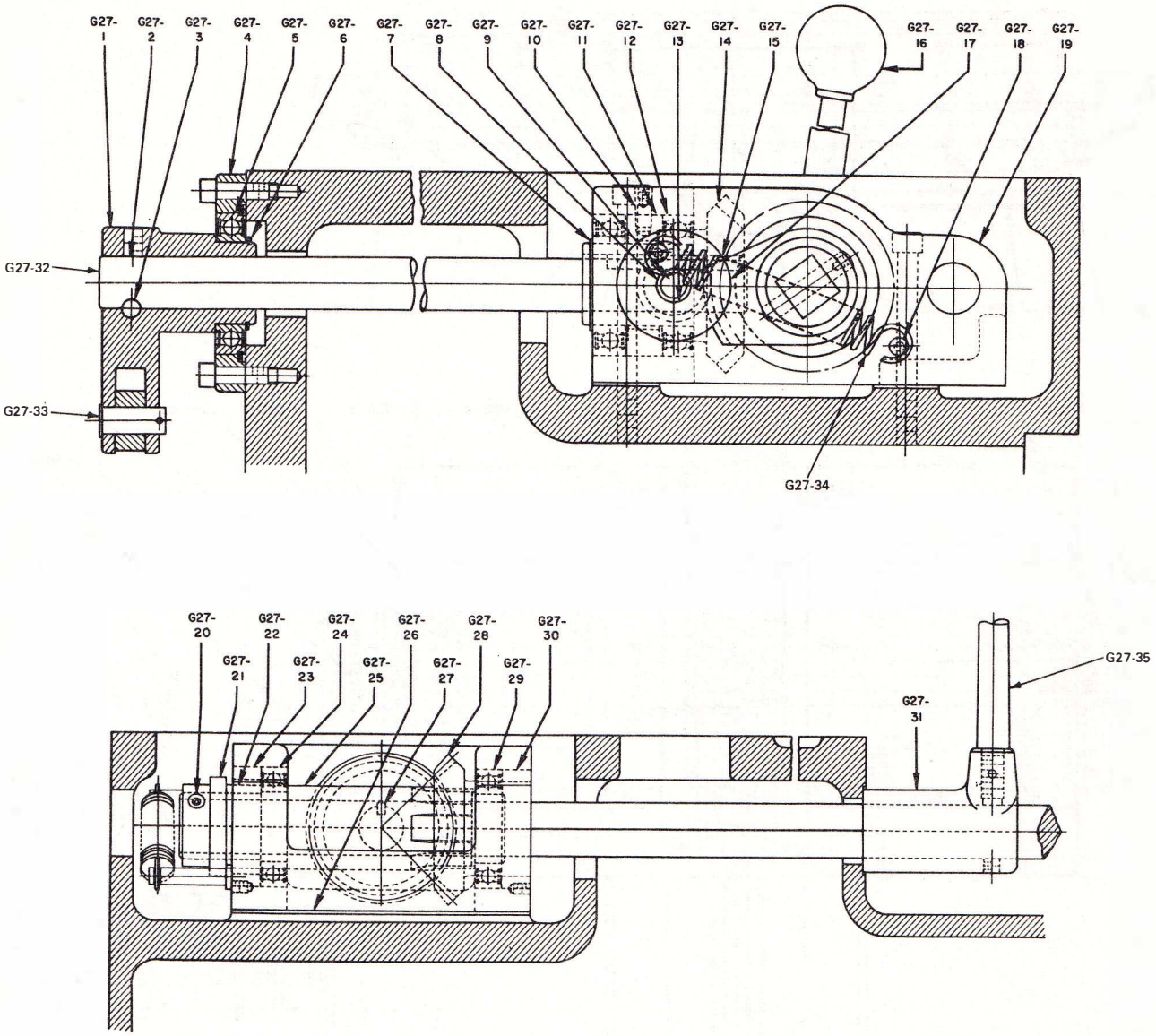



**Fig. G27 Head End Mechanical Control Bracket**

# HEAD END MECHANICAL CONTROL BRACKET

| Part No. | Part Name |
|---|---|
| G27-1 | Crank |
| G27-2 | Shaft |
| G27-3 | Pin |
| G27-4 | Retainer |
| G27-5 | Bearing |
| G27-6 | Ring |
| G27-7 | Ring |
| G27-8 | Bushing |
| G27-9 | Stud |
| G27-10 | Pin |
| G27-11 | Spacer |
| G27-12 | Bearing |

| Part No. | Part Name |
|---|---|
| G27-13 | Ring |
| G27-14 | Gear |
| G27-15 | Key |
| G27-16 | Knob |
| G27-17 | Gear |
| G27-18 | Post |
| G27-19 | Bracket |
| G27-20 | Pin |
| G27-21 | Segment |
| G27-22 | Spacer |
| G27-23 | Spacer |
| G27-24 | Bearing |

| Part No. | Part Name |
|---|---|
| G27-25 | Sleeve |
| G27-26 | Shim |
| G27-27 | Key |
| G27-28 | Gear |
| G27-29 | Bearing |
| G27-30 | Spacer |
| G27-31 | Hub |
| G27-32 | Shaft |
| G27-33 | Pin |
| G27-34 | Spring |
| G27-35 | Lever |

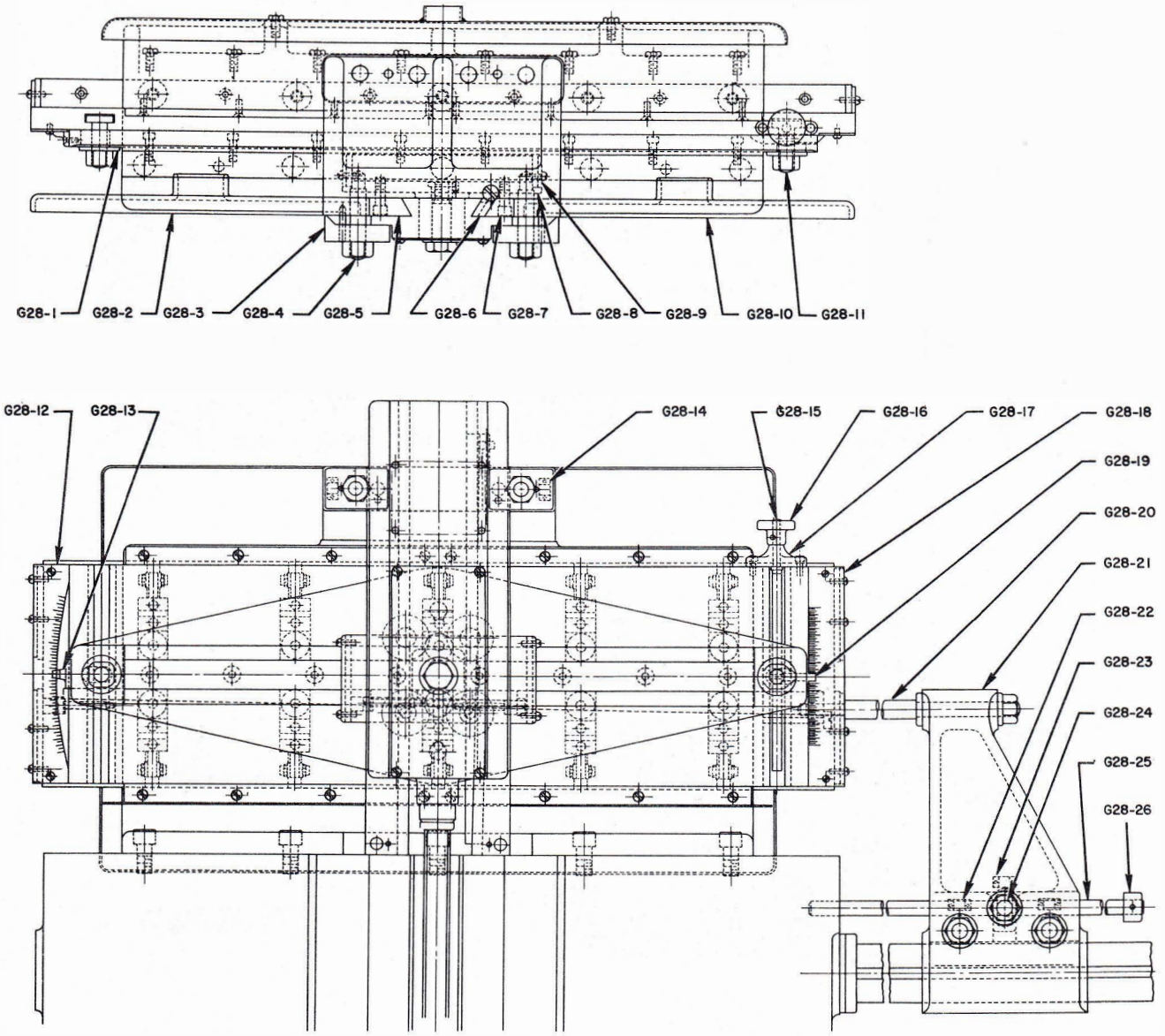



**Fig. G28 Taper Attachment — General**

# TAPER ATTACHMENT - GENERAL

| Part No. | Part Name |
|---|---|
| G28-1 | Washer |
| G28-2 | Guard |
| G28-3 | Clamp |
| G28-4 | Stud |
| G28-5 | Guide |
| G28-6 | Gib |
| G28-7 | Guide |
| G28-8 | Wiper |
| G28-9 | Plate |
| G28-10 | Guard |
| G28-11 | Screw |
| G28-12 | Scale |
| G28-13 | Pointer |

| Part No. | Part Name |
|---|---|
| G28-14 | Plate |
| G28-15 | Screw |
| G28-16 | Knob |
| G28-17 | Bracket |
| G28-18 | Scale |
| G28-19 | Pointer |
| G28-20 | Bar |
| G28-21 | Bracket |
| G28-22 | Plate |
| G28-23 | Plate |
| G28-24 | Bolt |
| G28-25 | Bar |
| G28-26 | Collar |

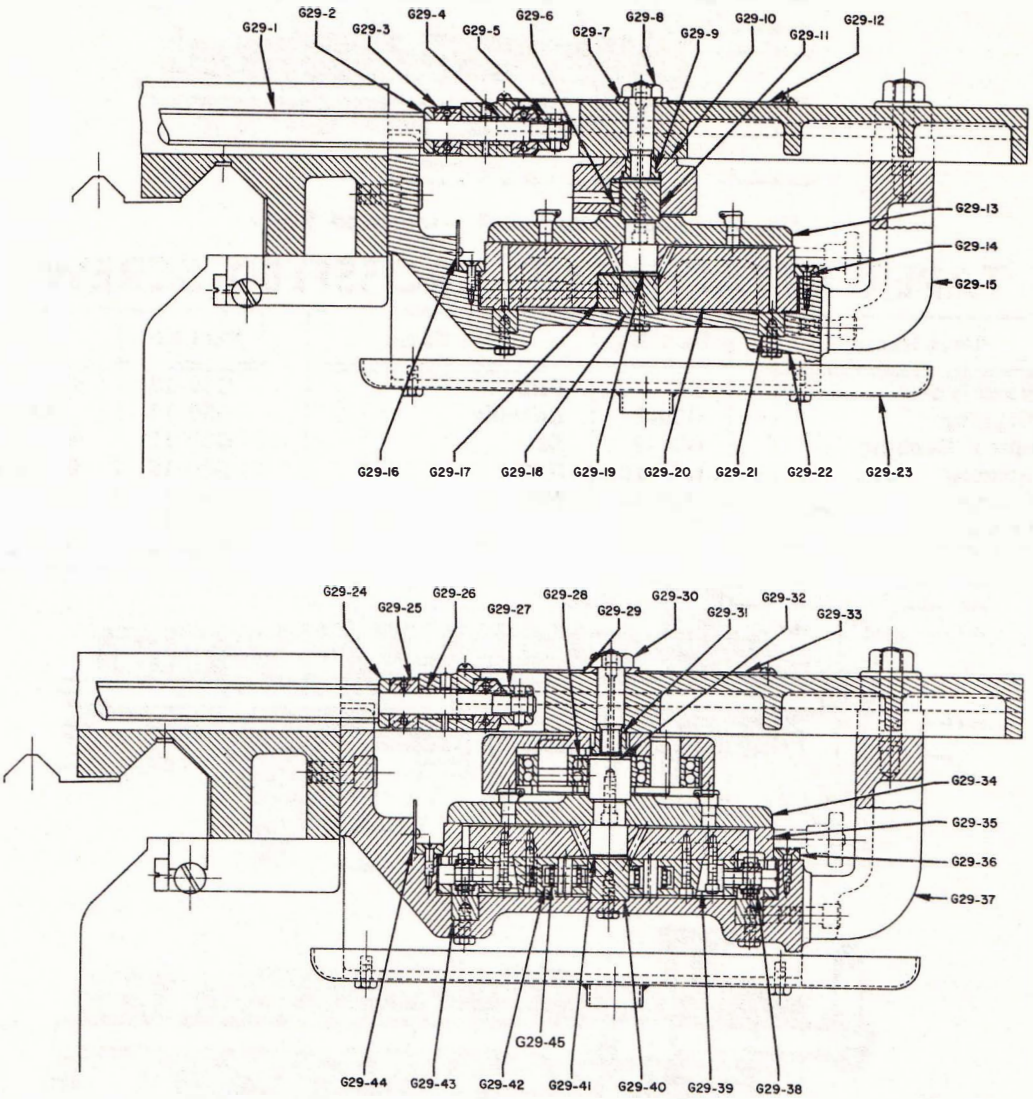



**Fig. G29 Taper Attachments — Plain and Ball Bearing Sectionals**

# TAPER ATTACHMENTS - PLAIN AND BALL BEARING

| Part No. | Part Name |
|---|---|
| G29-1 | Screw |
| G29-2 | Collar |
| G29-3 | Bearing |
| G29-4 | Bushing |
| G29-5 | Nut |
| G29-6 | Gib |
| G29-7 | Washer |
| G29-8 | Screw |
| G29-9 | Nut |
| G29-10 | Shoe |
| G29-11 | Guide |
| G29-12 | Plate |
| G29-13 | Swivel |
| G29-14 | Plate |
| G29-15 | Bracket |

| Part No. | Part Name |
|---|---|
| G29-16 | Trough |
| G29-17 | Gib |
| G29-18 | Guide |
| G29-19 | Plug |
| G29-20 | Base |
| G29-21 | Way |
| G29-22 | Bracket |
| G29-23 | Pan |
| G29-24 | Collar |
| G29-25 | Bearing |
| G29-26 | Bushing |
| G29-27 | Nut |
| G29-28 | Bearing |
| G29-29 | Washer |
| G29-30 | Screw |

| Part No. | Part Name |
|---|---|
| G29-31 | Nut |
| G29-32 | Guide |
| G29-33 | Plate |
| G29-34 | Swivel |
| G29-35 | Base |
| G29-36 | Plate |
| G29-37 | Bracket |
| G29-38 | Bearing |
| G29-39 | Wedge |
| G29-40 | Guide |
| G29-41 | Swivel |
| G29-42 | Bearing |
| G29-43 | Way |
| G29-44 | Trough |
| G29-45 | Block |

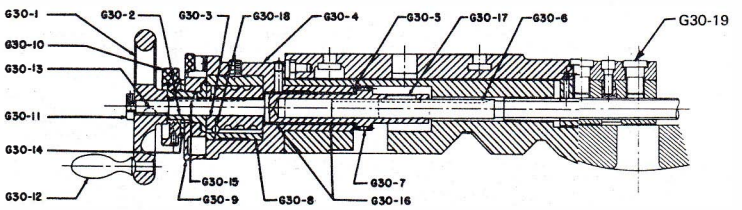



Fig. G30 Taper Attachment — Crossfeed Screw

# TAPER ATTACHMENT - CROSSFEED SCREW

| Part No. | Part Name |
|---|---|
| G30-1 | Hand Wheel |
| G30-2 | Bushing |
| G30-3 | Spiral Bushing |
| G30-4 | Bushing |
| G30-5 | Collar |
| G30-6 | Screw |

| Part No. | Part Name |
|---|---|
| G30-7 | Pinion |
| G30-8 | Bushing |
| G30-9 | Dial |
| G30-10 | Nut |
| G30-11 | Nut |
| G30-12 | Handle |

| Part No. | Part Name |
|---|---|
| G30-13 | Key |
| G30-14 | Washer |
| G30-15 | Key |
| G30-16 | Bushing |
| G30-17 | Key |
| G30-18 | Ball |
| G30-19 | Screw |

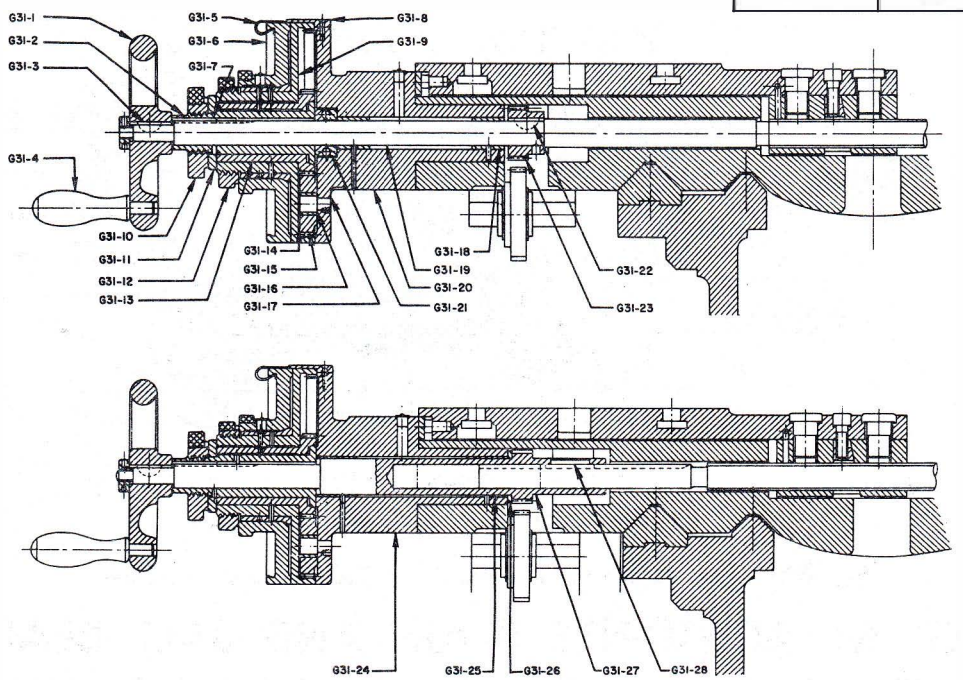



Fig. G31 Dual Dials with and without Taper Attachment

# DUAL DIALS

| Part No. | Part Name |
|---|---|
| G31-1 | Handwheel |
| G31-2 | Sleeve |
| G31-3 | Key |
| G31-4 | Handle |
| G31-5 | Clip |
| G31-6 | Dial |
| G31-7 | Key |
| G31-8 | Pointer |
| G31-9 | Gear |
| G31-10 | Nut |

| Part No. | Part Name |
|---|---|
| G31-11 | Washer |
| G31-12 | Lock Nut |
| G31-13 | Gear |
| G31-14 | Dial |
| G31-15 | Gear |
| G31-16 | Bushing |
| G31-17 | Stud |
| G31-18 | Bushing* |
| G31-19 | Screw* |
| G31-20 | Bushing* |

| Part No. | Part Name |
|---|---|
| G31-21 | Bearing* |
| G31-22 | Key* |
| G31-23 | Pinion* |
| G31-24 | Bushing# |
| G31-25 | Bushing# |
| G31-26 | Collar# |
| G31-27 | Pinion# |
| G31-28 | Key# |

*Without Taper Attachment Only
#With Taper Attachment Only

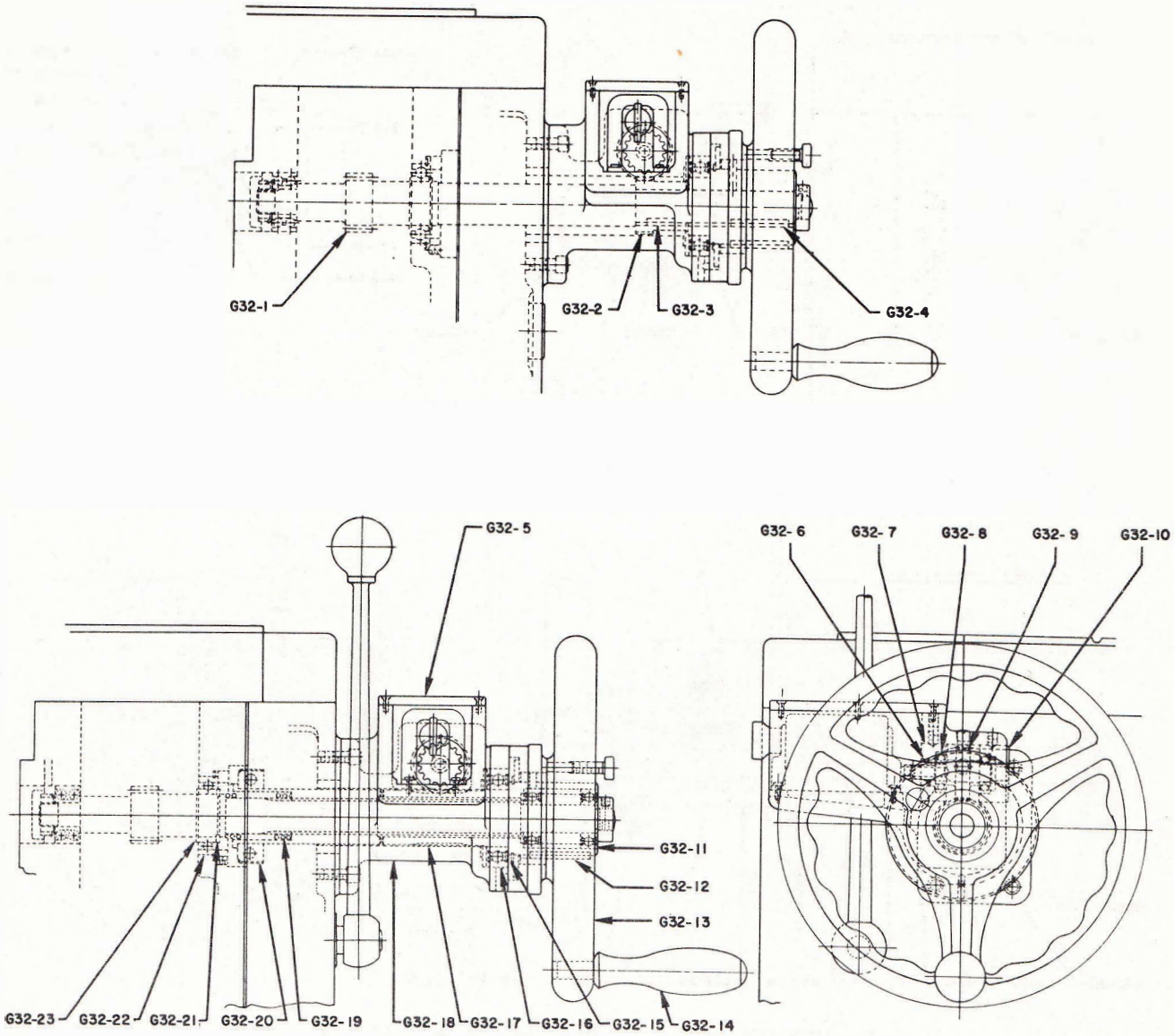



**Fig. G32 Length Travel Accumulator — W/ and W/O PRT**

# LENGTH TRAVEL ACCUMULATOR – W/AND W/O PRT

| Part No. | Part Name |
|---|---|
| G32-1 | Shaft |
| G32-2 | Gear |
| G32-3 | Key |
| G32-4 | Key |
| G32-5 | Cover |
| G32-6 | Seal |
| G32-7 | Adapter |
| G32-8 | Bearing |
| G32-9 | Gear |
| G32-10 | Adapter |
| G32-11 | Bearing |
| G32-12 | Key |

| Part No. | Part Name |
|---|---|
| G32-13 | Handwheel |
| G32-14 | Handle |
| G32-15 | Ring |
| G32-16 | Bearing |
| G32-17 | Clutch |
| G32-18 | Bracket |
| G32-19 | Spring |
| G32-20 | Bearing |
| G32-21 | Shim |
| G32-22 | Bearing |
| G32-23 | Ring |

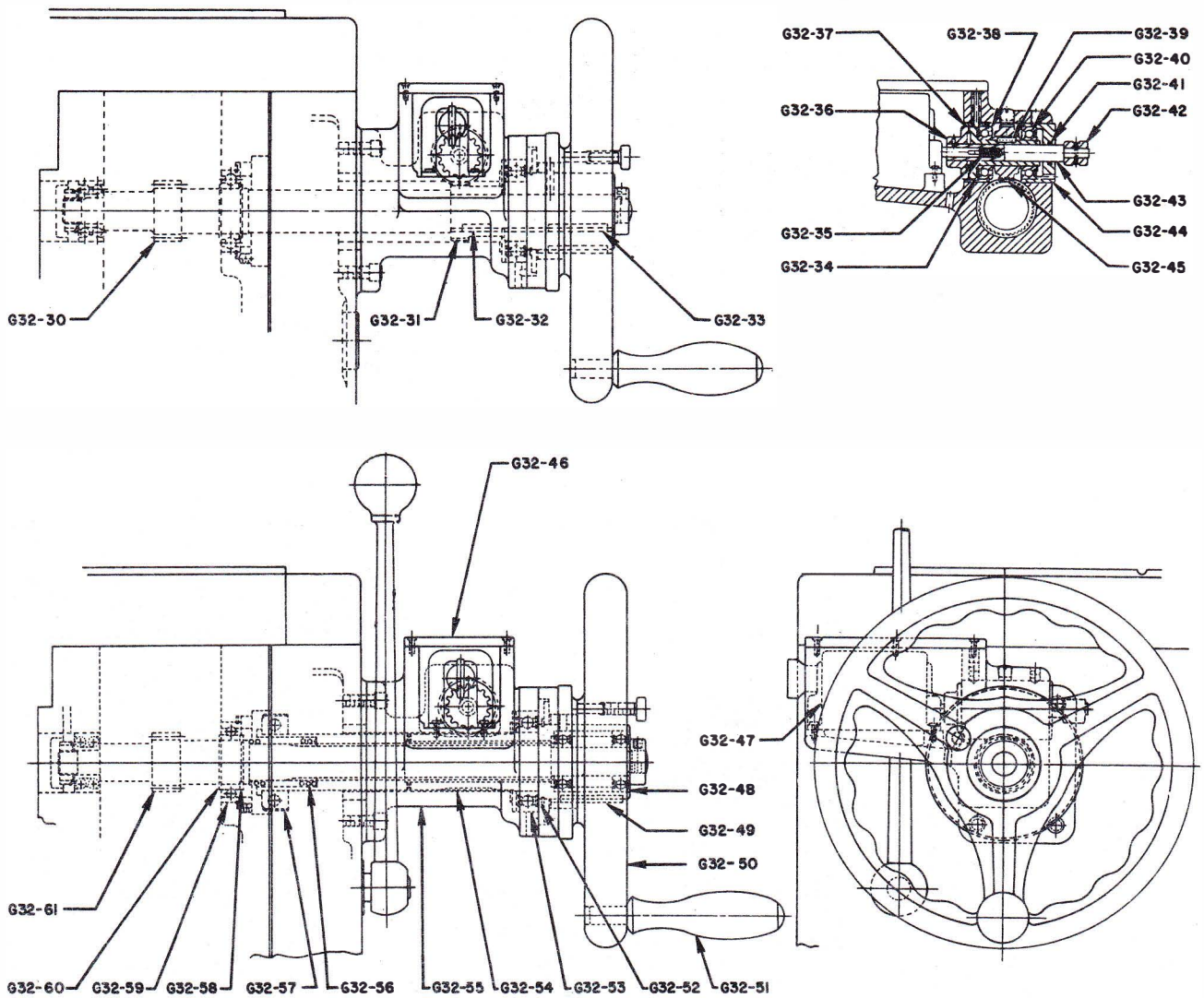



**Fig. G32 Length Travel Accumulator — W/ and W/O PRT**

# LENGTH TRAVEL ACCUMULATOR – W/AND W/O PRT

| Part No. | Part Name |
|---|---|
| G32-30 | Shaft |
| G32-31 | Gear |
| G32-32 | Key |
| G32-33 | Key |
| G32-34 | Clutch |
| G32-35 | Spring |
| G32-36 | Clutch |
| G32-37 | Adapter |
| G32-38 | Bearing |
| G32-39 | Key |
| G32-40 | Bearing |

| Part No. | Part Name |
|---|---|
| G32-41 | Seal |
| G32-42 | Knob |
| G32-43 | Shaft |
| G32-44 | Adapter |
| G32-45 | Gear |
| G32-46 | Cover |
| G32-47 | Accumulator |
| G32-48 | Bearing |
| G32-49 | Key |
| G32-50 | Handwheel |
| G32-51 | Handle |

| Part No. | Part Name |
|---|---|
| G32-52 | Ring |
| G32-53 | Bearing |
| G32-54 | Clutch |
| G32-55 | Bracket |
| G32-56 | Spring |
| G32-57 | Bearing |
| G32-58 | Shim |
| G32-59 | Bearing |
| G32-60 | Ring |
| G32-61 | Shaft |

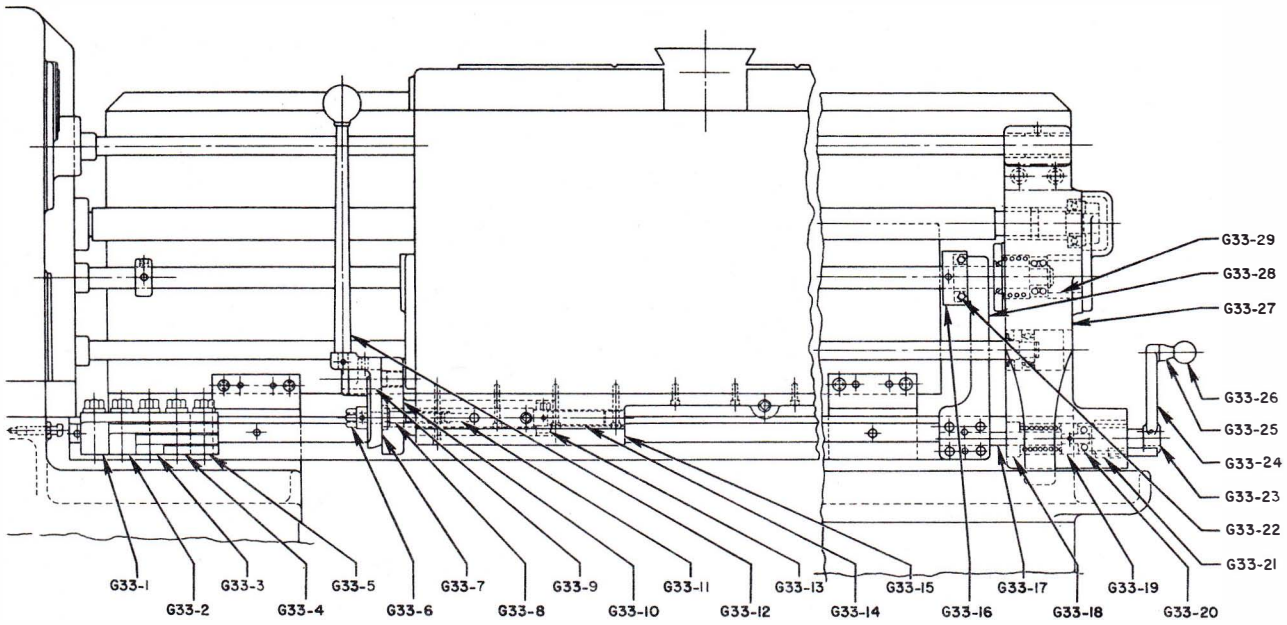
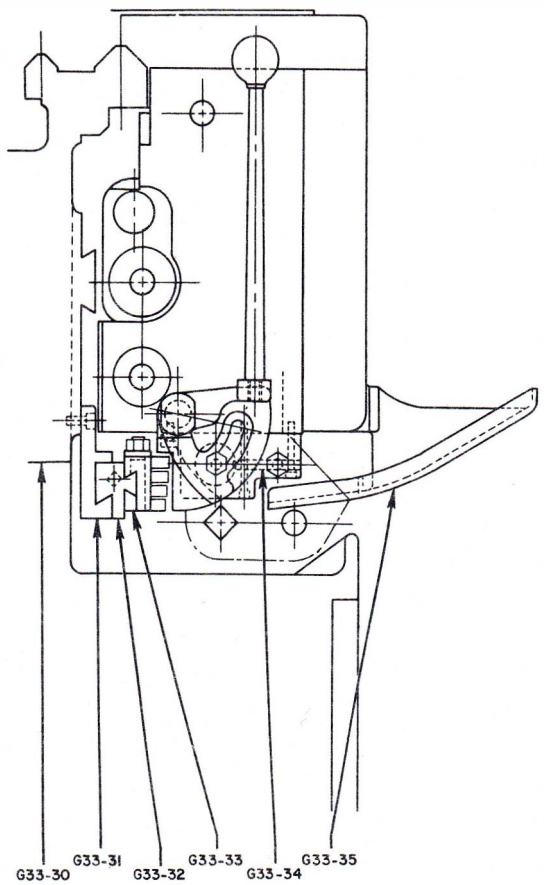



Fig. G33 Automatic Longitudinal Stops




# AUTOMATIC LONGITUDINAL STOPS

| Part No. | Part Name |
|---|---|
| G33-1 | Dog |
| G33-2 | Dog |
| G33-3 | Dog |
| G33-4 | Dog |
| G33-5 | Dog |
| G33-6 | Nut |
| G33-7 | Plate |
| G33-8 | Screw |
| G33-9 | Stud |
| G33-10 | Slide |
| G33-11 | Pin |
| G33-12 | Lever |
| G33-13 | Collar |
| G33-14 | Screw |
| G33-15 | Bracket |
| G33-16 | Collar |
| G33-17 | Shaft |
| G33-18 | Nut |

| Part No. | Part Name |
|---|---|
| G33-19 | Collar |
| G33-20 | Bearing |
| G33-21 | Nut |
| G33-22 | Bearing |
| G33-23 | Screw |
| G33-24 | Lever |
| G33-25 | Stud |
| G33-26 | Knob |
| G33-27 | Spacer |
| G33-28 | Bracket |
| G33-29 | Bracket |
| G33-30 | Bed |
| G33-31 | Hanger |
| G33-32 | Bar |
| G33-33 | Clamp |
| G33-34 | Pin |
| G33-35 | Guard |

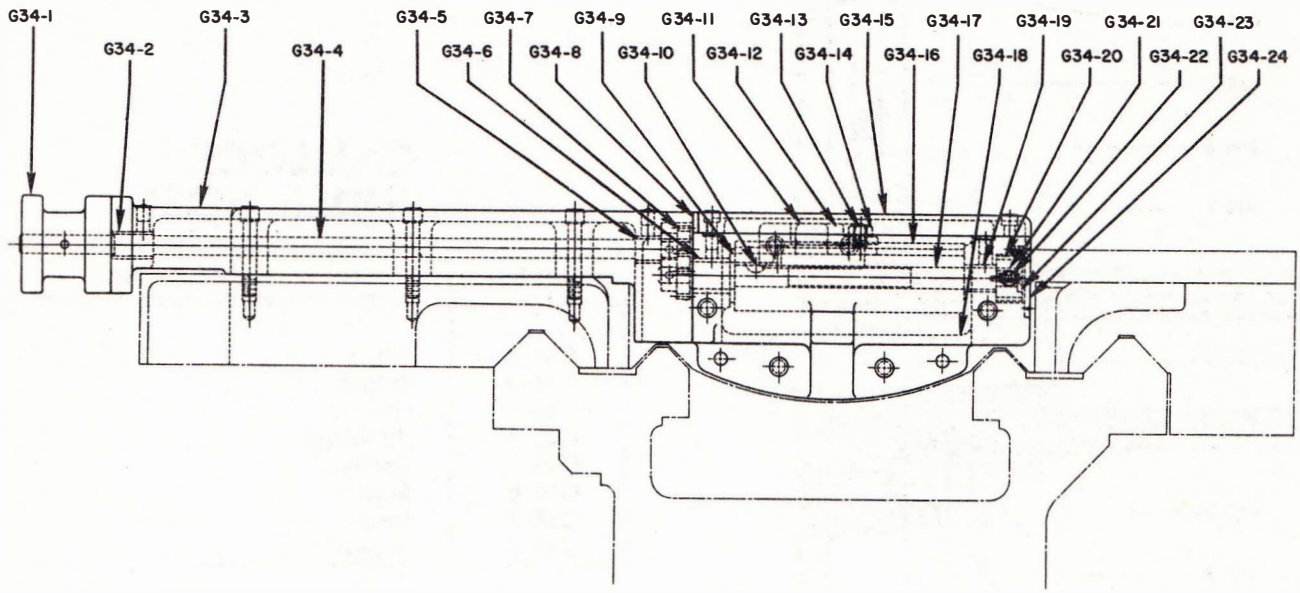



**Fig. G34 Multiple Cross Stops**

# MULTIPLE CROSS STOPS

| Part No. | Part Name |
|---|---|
| G34-1 | Dial |
| G34-2 | Bushing |
| G34-3 | Bracket |
| G34-4 | Shaft |
| G34-5 | Bushing |
| G34-6 | Bushing |
| G34-7 | Gear |
| G34-8 | Cover |
| G34-9 | Spacer |
| G34-10 | Key |
| G34-11 | Finger |
| G34-12 | Dog |

| Part No. | Part Name |
|---|---|
| G34-13 | Screw |
| G34-14 | Wrench |
| G34-15 | Cover |
| G34-16 | Bar |
| G34-17 | Shaft |
| G34-18 | Bracket |
| G34-19 | Bushing |
| G34-20 | Detent |
| G34-21 | Key |
| G34-22 | Ball |
| G34-23 | Washer |
| G34-24 | Cover |

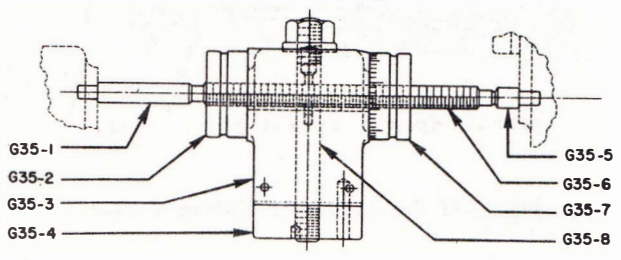



**Fig. G35 Carriage Micrometer Stop**

# CARRIAGE MICROMETER STOP

| Part No. | Part Name |
|---|---|
| G35-1 | Pin |
| G35-2 | Nut |
| G35-3 | Bracket |
| G35-4 | Clamp |
| G35-5 | Pin |
| G35-6 | Screw |
| G35-7 | Dial |
| G35-8 | Stud |

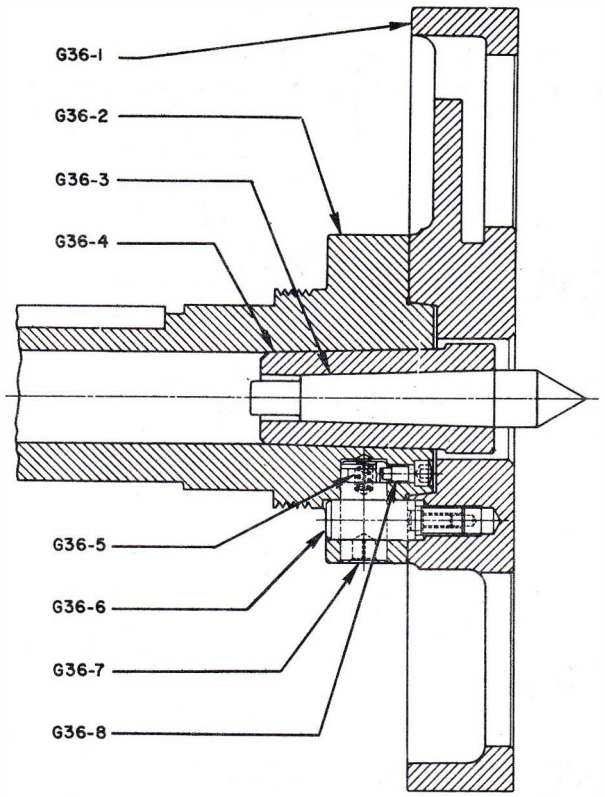



Fig. G36 Camlock Spindle Nose

# CAMLOCK SPINDLE NOSE

| Part No. | Part Name |
|---|---|
| G36-1 | Plate |
| G36-2 | Spindle |
| G36-3 | Center |
| G36-4 | Bushing |
| G36-5 | Spring |
| G36-6 | Stud |
| G36-7 | Cam |
| G36-8 | Screw |

# TAILSTOCK ANTI-FRICTION CENTER

| Part No. | Part Name |
|---|---|
| G37-1 | Plate |
| G37-2 | Spacer |
| G37-3 | Bearings |
| G37-4 | Shim |
| G37-5 | Cap |
| G37-6 | Seal |
| G37-7 | Plate |
| G37-8 | Spacer |
| G37-9 | Spacer |
| G37-10 | Spindle |
| G37-11 | Center |

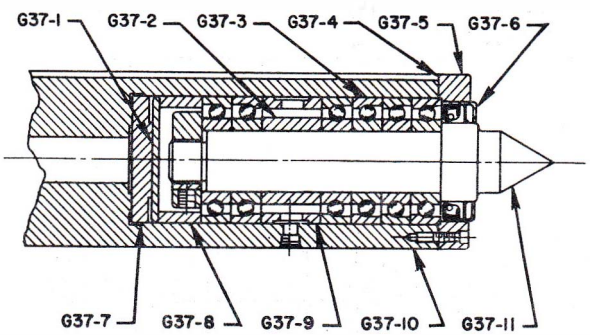



Fig. G37 Tailstock Anti-friction Center

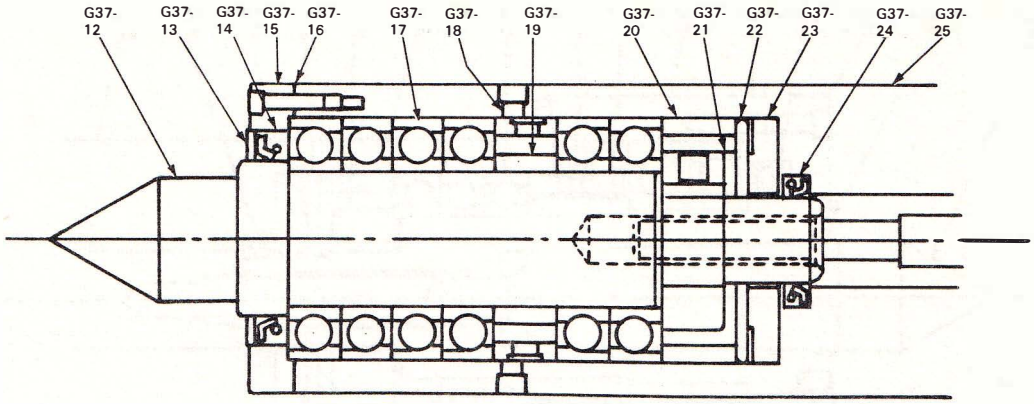



**Fig. G37-A Tailstock Anti-friction Center**
**For 14"B Thru 20"D Machines Starting Serial Number 77897**
**For 20"E Thru 25"F Machines Starting Serial Number 78645**

# TAILSTOCK ANTI-FRICTION CENTER

| Part No. | Part Name |
|---|---|
| G37-12 | Center |
| G37-13 | Seal |
| G37-14 | Seal |
| G37-15 | Cap |
| G37-16 | Shim |
| G37-17 | Bearings |
| G37-18 | Spacer |

| Part No. | Part Name |
|---|---|
| G37-19 | Spacer |
| G37-20 | Spacer |
| G37-21 | Nut |
| G37-22 | Plate |
| G37-23 | Plate |
| G37-24 | Seal |
| G37-25 | Spindle |

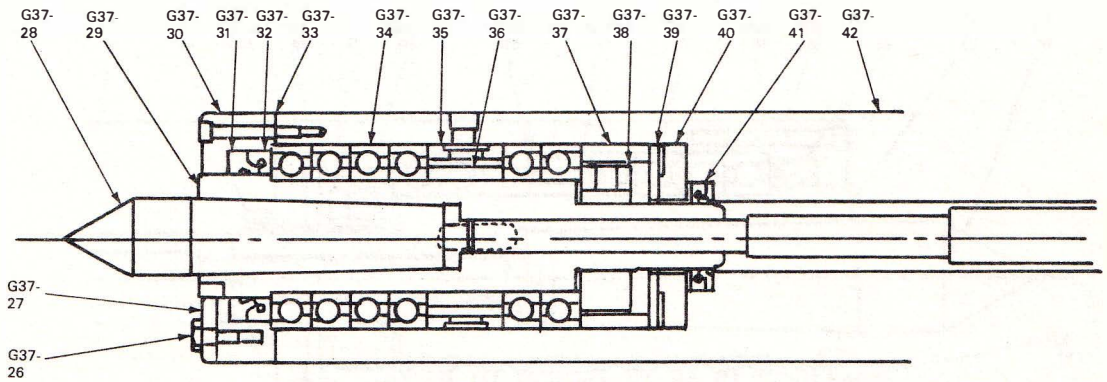



**Fig. G37-B Tailstock Combination Live and Dead Center**
**For 14"B Thru 20"D Machines Starting Serial Number 76633**

# TAILSTOCK COMBINATION LIVE AND DEAD CENTER

| Part No. | Part Name |
|---|---|
| G37-26 | Screw |
| G37-27 | Key |
| G37-28 | Center |
| G37-29 | Center Sleeve |
| G37-30 | Cap |
| G37-31 | Seal |

| Part No. | Part Name |
|---|---|
| G37-32 | Seal |
| G37-33 | Shim |
| G37-34 | Bearings |
| G37-35 | Spacer |
| G37-36 | Spacer |
| G37-37 | Spacer |

| Part No. | Part Name |
|---|---|
| G37-38 | Nut |
| G37-39 | Plate |
| G37-40 | Plate |
| G37-41 | Seal |
| G37-42 | Spindle |

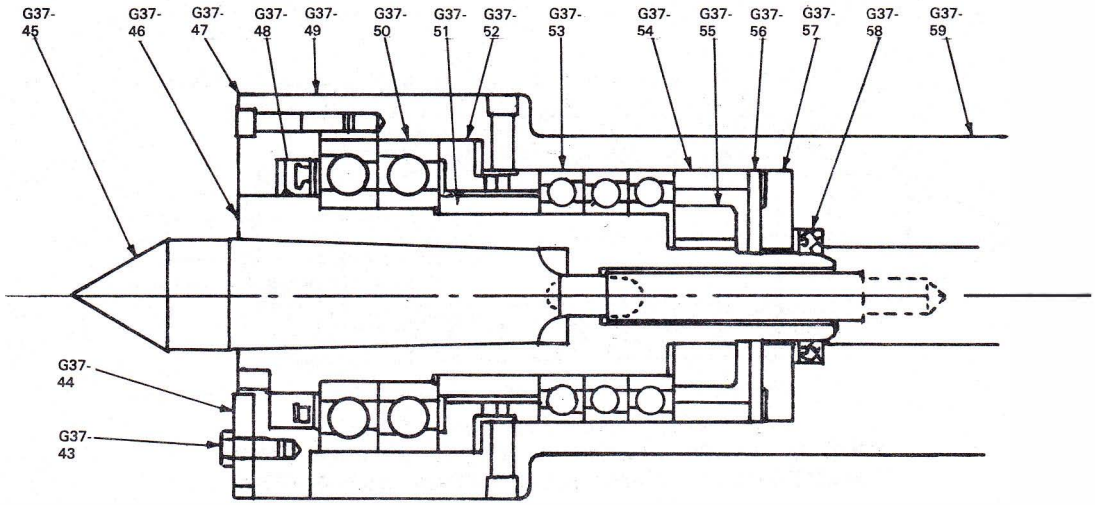



**Fig. G37-C Tailstock Combination Live and Dead Center**
**For 20"E Thru 25"F Machines Starting Serial Number 76608**

# TAILSTOCK COMBINATION LIVE AND DEAD CENTER

| Part No. | Part Name |
|---|---|
| G37-43 | Screw |
| G37-44 | Key |
| G37-45 | Center |
| G37-46 | Center Sleeve |
| G37-47 | Cap |
| G37-48 | Seal |

| Part No. | Part Name |
|---|---|
| G37-49 | Shim |
| G37-50 | Bearings |
| G37-51 | Spacer |
| G37-52 | Spacer |
| G37-53 | Bearings |
| G37-54 | Spacer |

| Part No. | Part Name |
|---|---|
| G37-55 | Nut |
| G37-56 | Plate |
| G37-57 | Plate |
| G37-58 | Seal |
| G37-59 | Spindle |

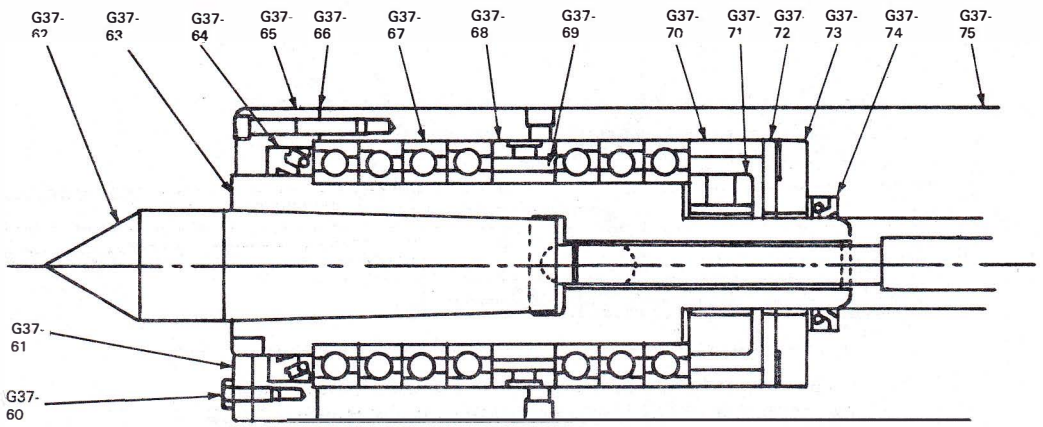



**Fig. G37-D Tailstock Combination Live and Dead Center**
**For 20"E Thru 25"F Machines Starting Serial Number 78645**

# TAILSTOCK COMBINATION LIVE AND DEAD CENTER

| Part No. | Part Name |
|---|---|
| G37-60 | Screw |
| G37-61 | Key |
| G37-62 | Center |
| G37-63 | Center Sleeve |
| G37-64 | Seal |
| G37-65 | Cap |

| Part No. | Part Name |
|---|---|
| G37-66 | Shim |
| G37-67 | Bearings |
| G37-68 | Spacer |
| G37-69 | Spacer |
| G37-70 | Spacer |
| G37-71 | Nut |

| Part No. | Part Name |
|---|---|
| G37-72 | Plate |
| G37-73 | Plate |
| G37-74 | Seal |
| G37-75 | Spindle |

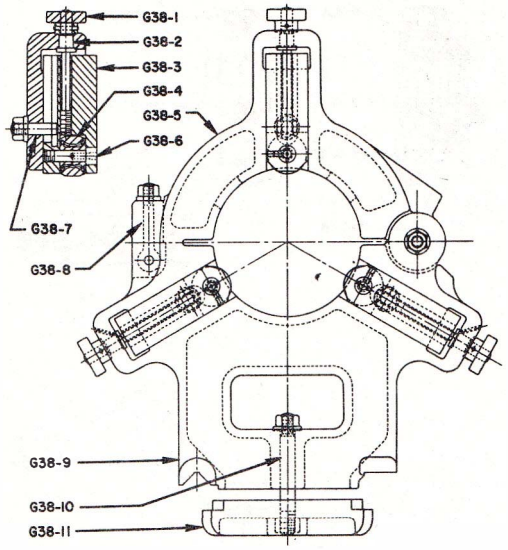



Fig. G38 Roller Jaw Steady Rest

# PLAIN JAW STEADY REST ½"-6"

| Part No. | Part Name |
|---|---|
| G39-1 | Top |
| G39-2 | Rod |
| G39-3 | Plug |
| G39-4 | Knob |
| G39-5 | Screw |
| G39-6 | Screw |
| G39-7 | Jaw |
| G39-8 | Bottom |
| G39-9 | Stud |
| G39-10 | Clamp |

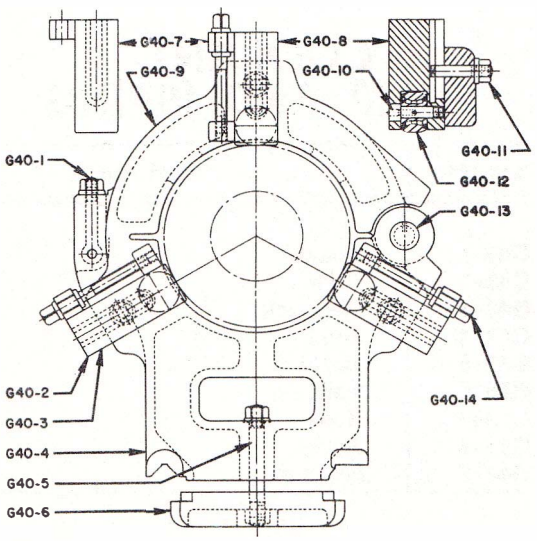



Fig. G40 Plain and Roller Jaw Steady Rests

# ROLLER JAW STEADY REST ½"-6"

| Part No. | Part Name |
|---|---|
| G38-1 | Knob |
| G38-2 | Screw |
| G38-3 | Jaw |
| G38-4 | Bearing |
| G38-5 | Top |
| G38-6 | Stud |
| G38-7 | Bolt |
| G38-8 | Rod |
| G38-9 | Bottom |
| G38-10 | Stud |
| G38-11 | Clamp |

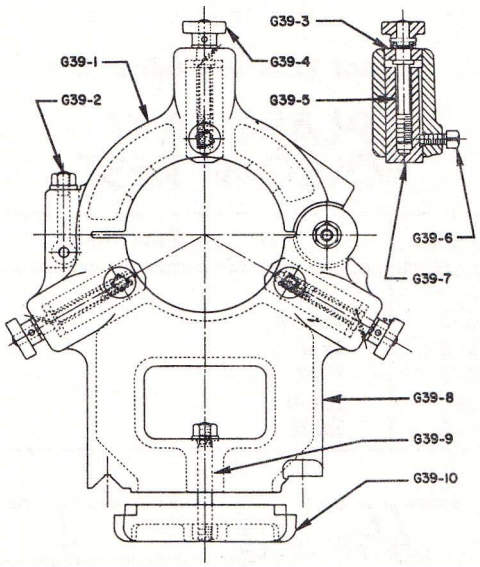



Fig. G39 Plain Jaw Steady Rest

# PLAIN AND ROLLER JAW STEADY REST

| Part No. | Part Name |
|---|---|
| G40-1 | Rod |
| G40-2 | Plain Jaw - L.H. |
| G40-3 | Roller Jaw - L.H. |
| G40-4 | Bottom |
| G40-5 | Stud |
| G40-6 | Clamp |
| G40-7 | Plain Jaw - R.H. |
| G40-8 | Roller Jaw - R.H. |
| G40-9 | Top |
| G40-10 | Stud |
| G40-11 | Bolt |
| G40-12 | Bearing |
| G40-13 | Stud |
| G40-14 | Screw |

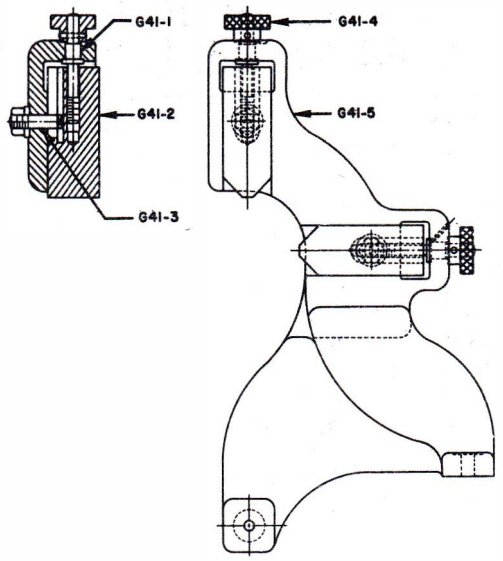



Fig. G41 Plain Jaw Follow Rest

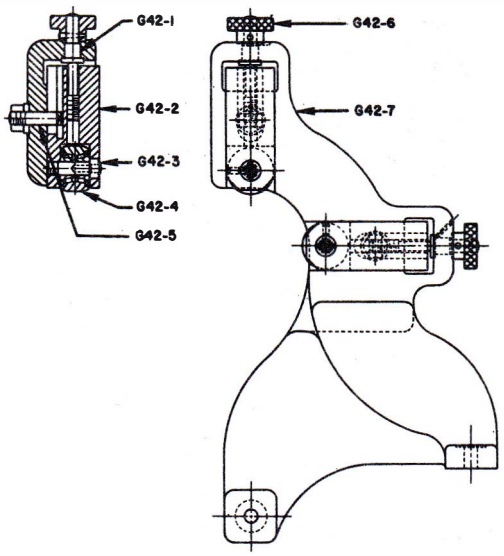



Fig. G42 Roller Jaw Follow Rest

## PLAIN JAW FOLLOW REST

| Part No. | Part Name |
|---|---|
| G41-1 | Screw |
| G41-2 | Jaw |
| G41-3 | Bolt |
| G41-4 | Knob |
| G41-5 | Body |

## ROLLER JAW FOLLOW REST

| Part No. | Part Name |
|---|---|
| G42-1 | Screw |
| G42-2 | Jaw |
| G42-3 | Stud |
| G42-4 | Bearing |
| G42-5 | Bolt |
| G42-6 | Knob |
| G42-7 | Body |

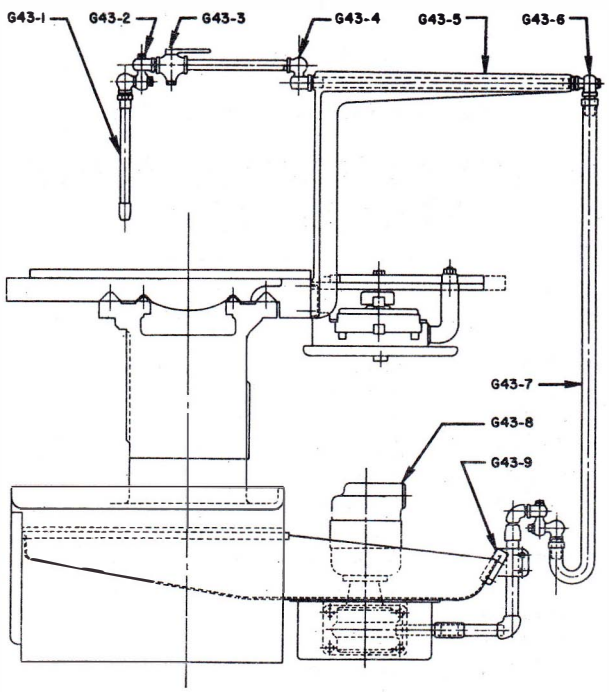



Fig. G43 Coolant Pump and Piping

## COOLANT PUMP AND PIPING

| Part No. | Part Name |
|---|---|
| G43-1 | Nozzle |
| G43-2 | Joint |
| G43-3 | Stopcock |
| G43-4 | Joint |
| G43-5 | Bracket |
| G43-6 | Pendant |
| G43-7 | Hose |
| G43-8 | Pump |
| G43-9 | Support |

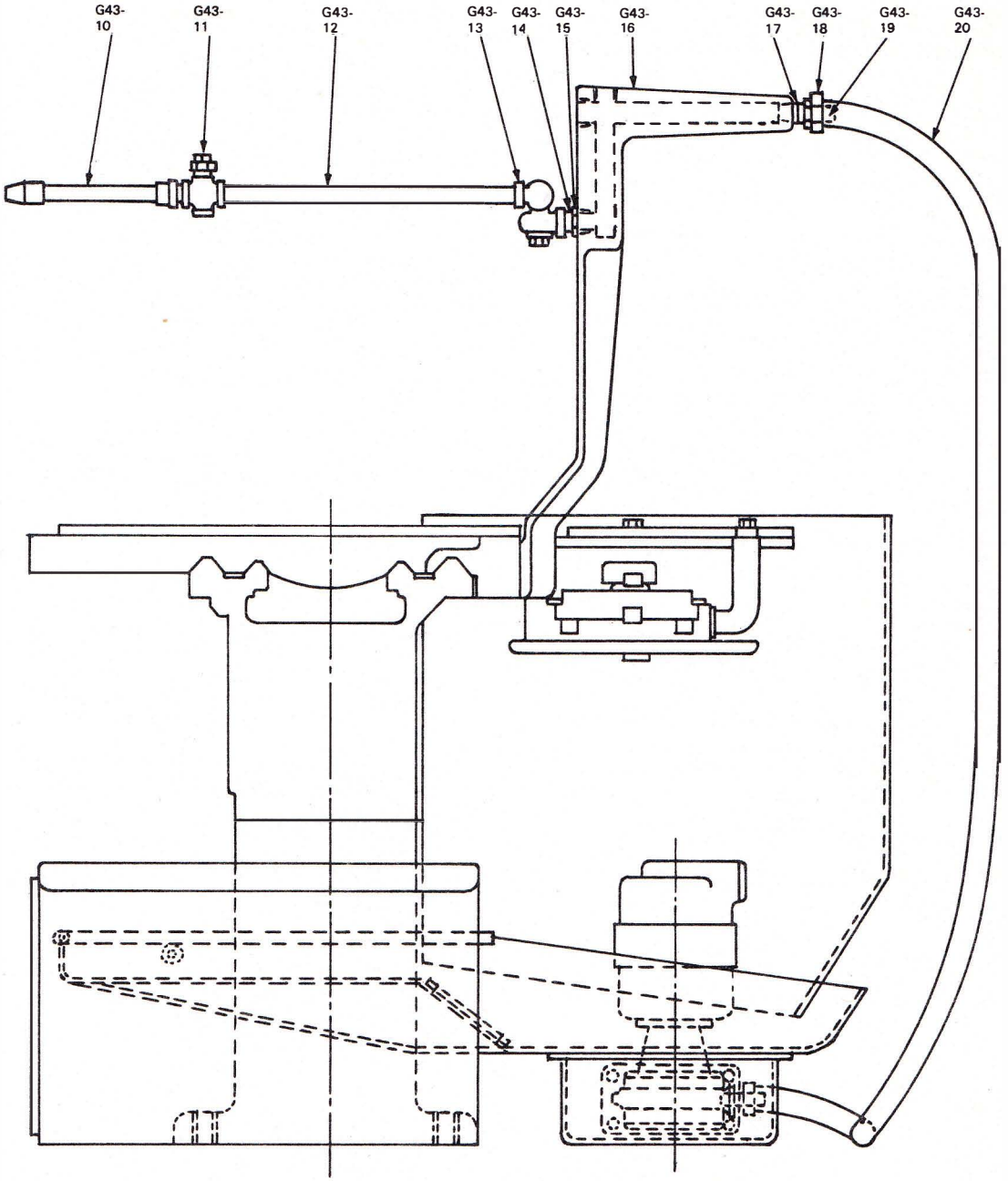
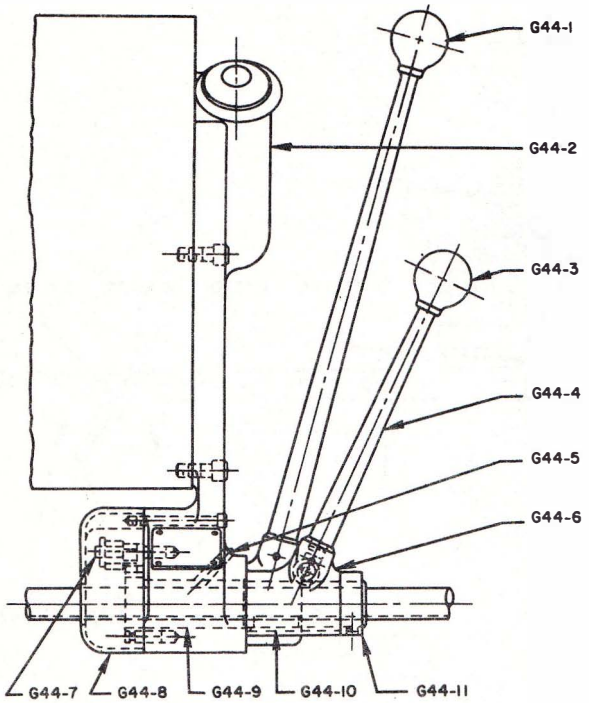


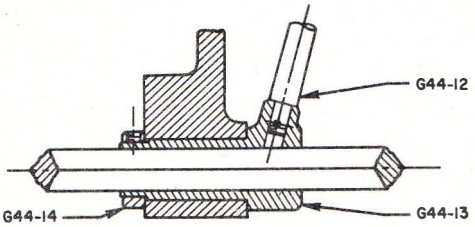

**Fig. G43-A Coolant Pump and Piping**
**For 14"B Thru 20"F Machines Starting Serial Number 77746**

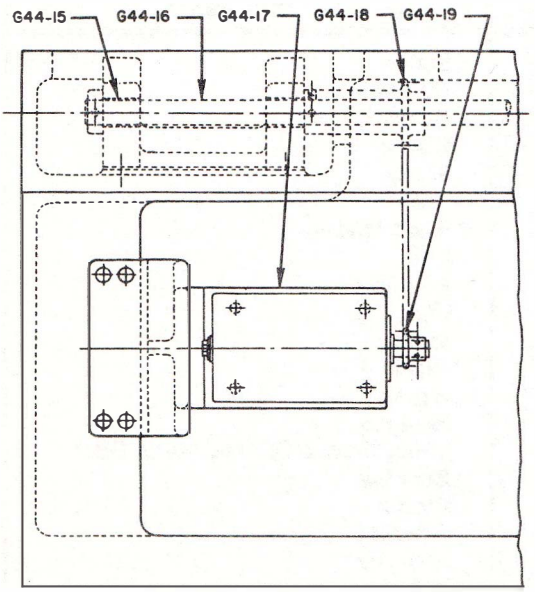
# COOLANT PUMP AND PIPING

| Part No. | Part Name |
|---|---|
| G43-10 | Nozzle |
| G43-11 | Stop Cock |
| G43-12 | Nipple |
| G43-13 | Swivel |
| G43-14 | Nipple |
| G43-15 | Bush |

| Part No. | Part Name |
|---|---|
| G43-16 | Bracket |
| G43-17 | Bush |
| G43-18 | Clamp |
| G43-19 | Nipple |
| G43-20 | Hose |



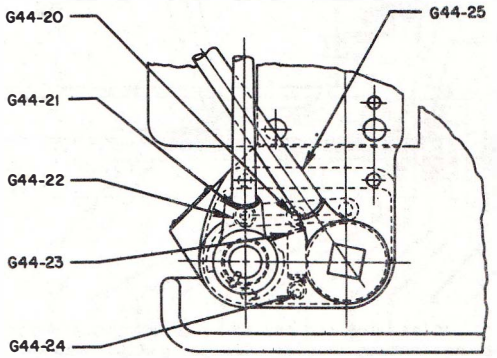




**Fig. G44 Constant Speed Electrical Controls**

# CONSTANT SPEED ELECTRICAL CONTROLS

| Part No. | Part Name |
|---|---|
| G44-1 | Knob |
| G44-2 | Bracket |
| G44-3 | Knob |
| G44-4 | Lever |
| G44-5 | Oiler |
| G44-6 | Hub |
| G44-7 | Stud |
| G44-8 | Cover |
| G44-9 | Bushing |
| G44-10 | Key |
| G44-11 | Collar |
| G44-12 | Lever |
| G44-13 | Hub |
| G44-14 | Collar |
| G44-15 | Bushing |
| G44-16 | Rod |
| G44-17 | Box |
| G44-18 | Sprocket |
| G44-19 | Sprocket |
| G44-20 | Post |
| G44-21 | Bushing |
| G44-22 | Roller |
| G44-23 | Spring |
| G44-24 | Post |
| G44-25 | Lever |

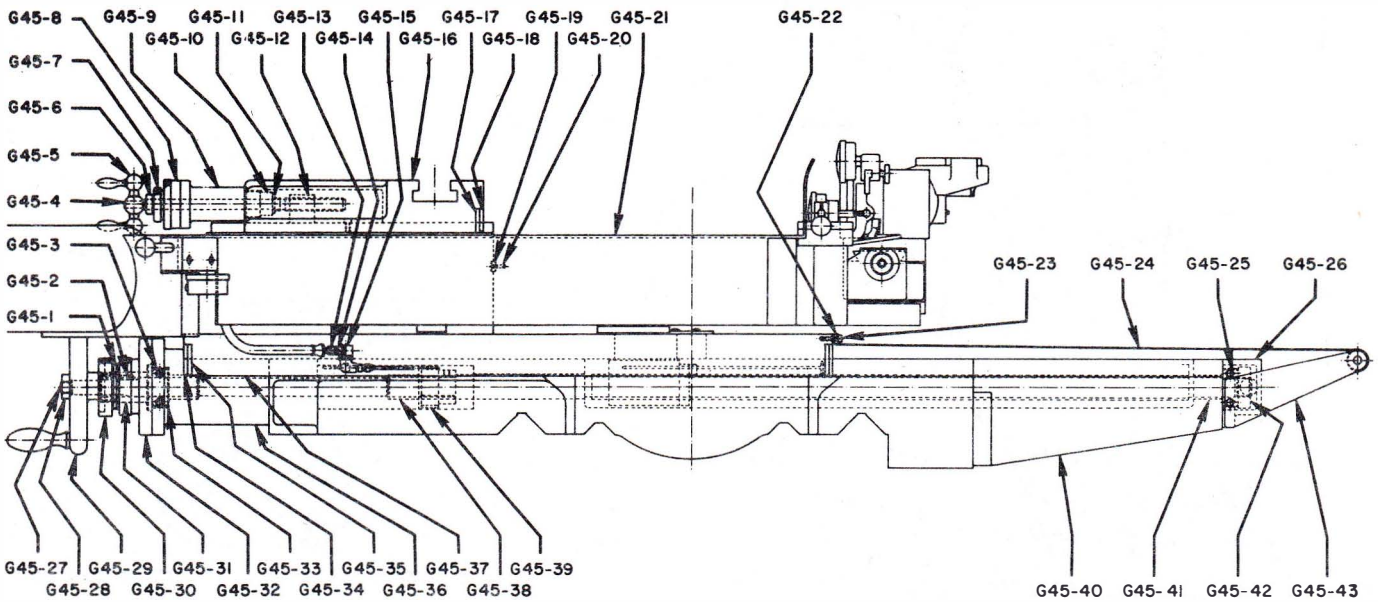



**Fig. G45 Cross Slide**

# CROSS SLIDE

| Part No. | Part Name |
|---|---|
| G45-1 | Spacer |
| G45-2 | Key |
| G45-3 | Bearing |
| G45-4 | Screw |
| G45-5 | Crank |
| G45-6 | Nut |
| G45-7 | Nut |
| G45-8 | Dial and Bushing |
| G45-9 | Bushing |
| G45-10 | Bearing |
| G45-11 | Washer |
| G45-12 | Nut |
| G45-13 | Sleeve and Bushing |
| G45-14 | Adapter |
| G45-15 | Fitting |
| G45-16 | Slide |
| G45-17 | Wiper |
| G45-18 | Plate |
| G45-19 | Key |
| G45-20 | Screw |
| G45-21 | Guard |
| G45-22 | Clamp |

| Part No. | Part Name |
|---|---|
| G45-23 | Screw |
| G45-24 | Curtain |
| G45-25 | Bearing |
| G45-26 | Cover |
| G45-27 | Screw |
| G45-28 | Nut |
| G45-29 | Hand Wheel |
| G45-30 | Nut |
| G45-31 | Bushing |
| G45-32 | Dial |
| G45-33 | Shim |
| G45-34 | Plate |
| G45-35 | Wiper |
| G45-36 | Bushing |
| G45-37 | Slide, Front Gib and Rear Gib |
| G45-38 | Bearing |
| G45-39 | Pinion |
| G45-40 | Bracket |
| G45-41 | Bearing |
| G45-42 | Nut |
| G45-43 | Right Hand Bracket |
| G45-44 | Left Hand Bracket (not shown) |

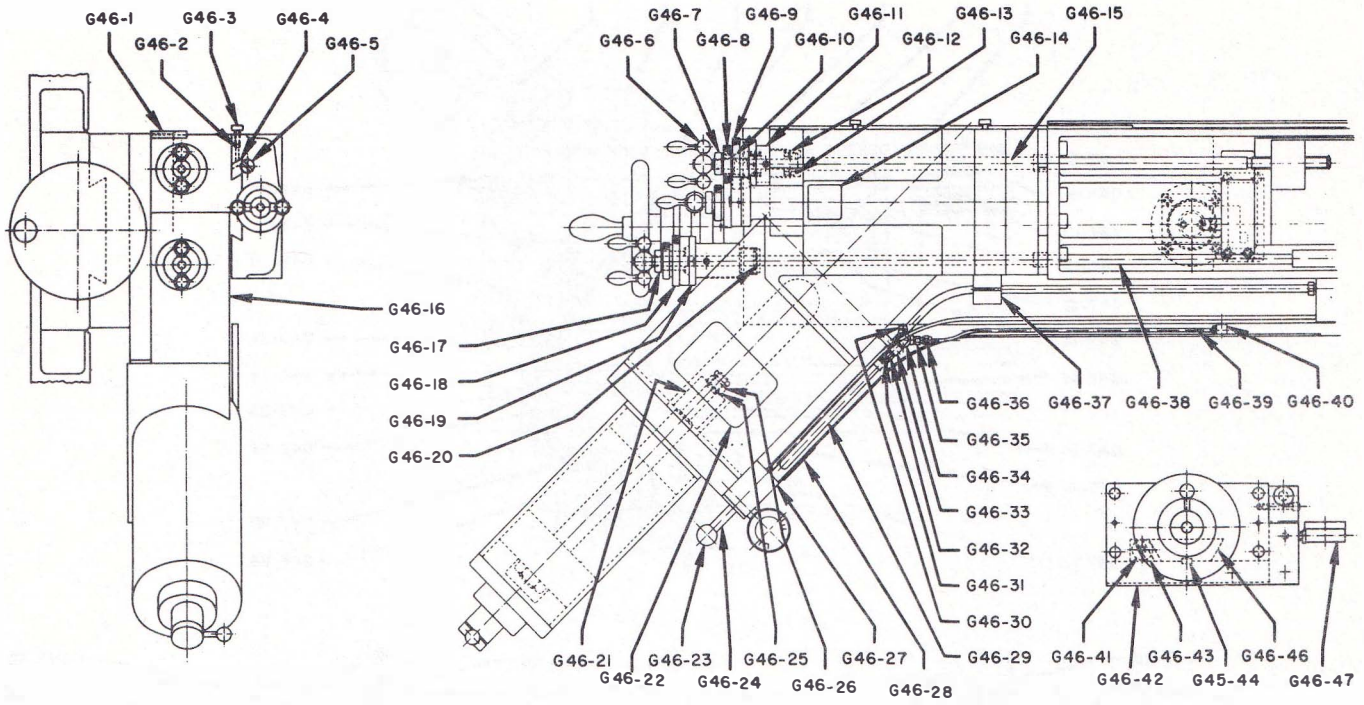
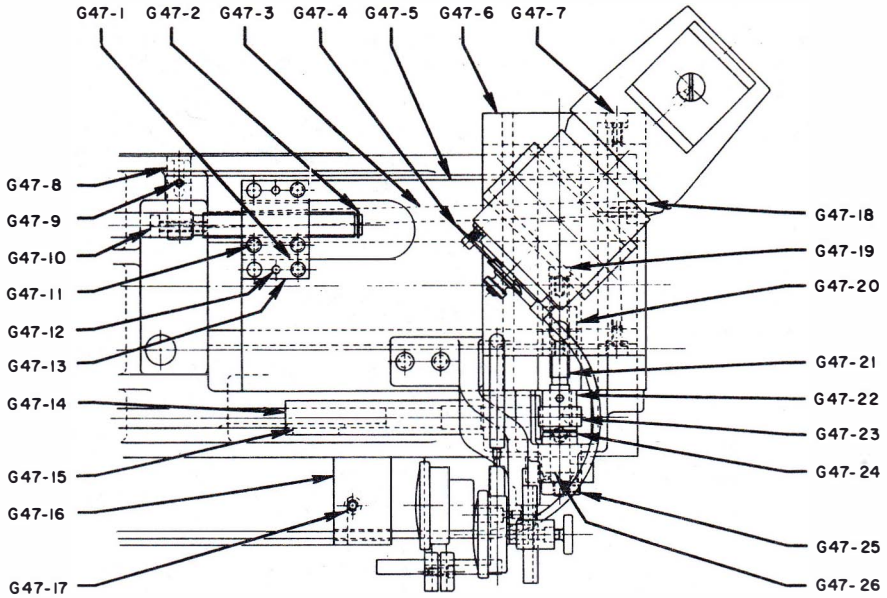


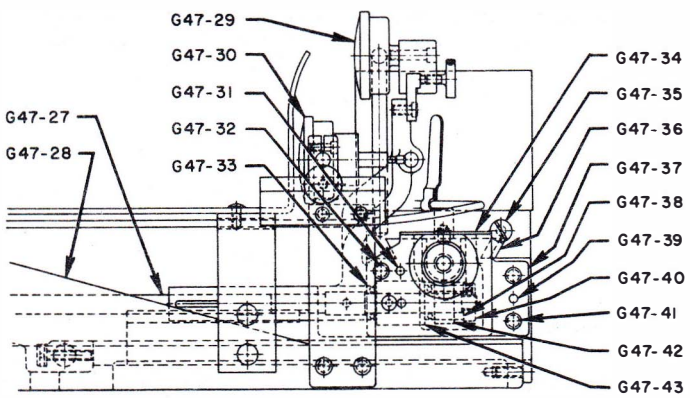

**Fig. G46 Hydraulic Slide**

# HYDRAULIC SLIDE

| Part No. | Part Name |
|---|---|
| G46-1 | Wiper, Plate and End Plate |
| G46-2 | Plug |
| G46-3 | Screw |
| G46-4 | Gib |
| G46-5 | Screw |
| G46-6 | Crank |
| G46-7 | Nut |
| G46-8 | Nut |
| G46-9 | Dial |
| G46-10 | Bushing |
| G46-11 | Bushing |
| G46-12 | Bearing |
| G46-13 | Washer |
| G46-14 | Plate |
| G46-15 | Screw |
| G46-16 | Slide |
| G46-17 | Nut |
| G46-18 | Dial |
| G46-19 | Bushing |
| G46-20 | Ring |
| G46-21 | Block |
| G46-22 | Cover |
| G46-23 | Ball |
| G46-24 | Handle |

| Part No. | Part Name |
|---|---|
| G46-25 | Washer |
| G46-26 | Nut |
| G46-27 | Block and Bushing |
| G46-28 | Plate |
| G46-29 | Hose |
| G46-30 | Connector |
| G46-31 | Sleeve and Bushing |
| G46-32 | Adapter |
| G46-33 | Connector |
| G46-34 | Header |
| G46-35 | Meter |
| G46-36 | Sleeve and Nut |
| G46-37 | Clamp |
| G46-38 | Shaft |
| G46-39 | Tubing |
| G46-40 | Sleeve, Bushing and Adapter |
| G46-41 | Adjusting Screw and Lock Screw |
| G46-42 | Slide |
| G46-43 | Gib |
| G46-44 | Front Key |
| G46-45 | Rear Key (not shown) |
| G46-46 | Dovetail |
| G46-47 | Gauge |



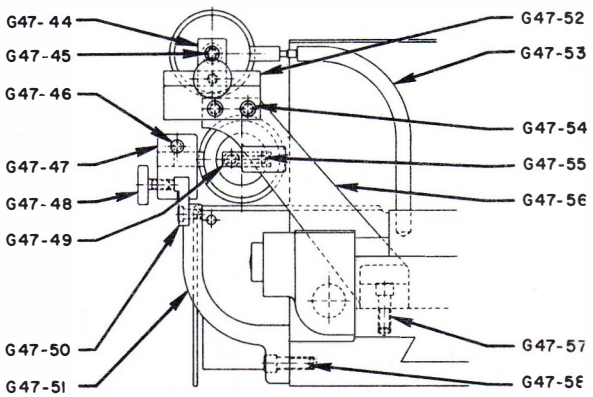




**Fig. G47 Tracer Slide**

# TRACER SLIDE

| Part No. | Part Name |
|---|---|
| G47-1 | Spacer |
| G47-2 | Ring |
| G47-3 | Gib |
| G47-4 | Lever |
| G47-5 | Slide |
| G47-6 | Slide |
| G47-7 | Screw |
| G47-8 | Plug |
| G47-9 | Screw |
| G47-10 | Screw |
| G47-11 | Screw |
| G47-12 | Pin |
| G47-13 | Nut |
| G47-14 | Sleeve |
| G47-15 | Key |

| Part No. | Part Name |
|---|---|
| G47-16 | Block |
| G47-17 | Screw |
| G47-18 | Screw |
| G47-19 | Screw |
| G47-20 | Nut |
| G47-21 | Screw |
| G47-22 | Collar |
| G47-23 | Gear |
| G47-24 | Bearing |
| G47-25 | Nut |
| G47-26 | Bushing |
| G47-27 | Shaft |
| G47-28 | Bracket |
| G47-29 | Indicator |
| G47-30 | Indicator |

| Part No. | Part Name |
|---|---|
| G47-31 | Pin |
| G47-32 | Screw |
| G47-33 | Bearing |
| G47-34 | Cover |
| G47-35 | Screw |
| G47-36 | Gib |
| G47-37 | Bracket |
| G47-38 | Spacer |
| G47-39 | Pin |
| G47-40 | Nut |
| G47-41 | Screw |
| G47-42 | Gear |
| G47-43 | Bushing |
| G47-44 | Clamp |
| G47-45 | Screw |

| Part No. | Part Name |
|---|---|
| G47-46 | Screw |
| G47-47 | Clamp |
| G47-48 | Screw & Plug |
| G47-49 | Pin |
| G47-50 | Rail |
| G47-51 | Bracket |
| G47-52 | Rail |
| G47-53 | Pin |
| G47-54 | Screw |
| G47-55 | Screw |
| G47-56 | Bracket |
| G47-57 | Screw |
| G47-58 | Screw |

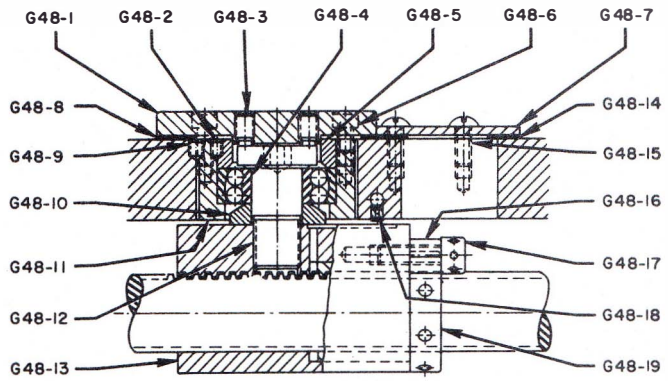



Fig. G48 Cross Feed Nut

# CROSS FEED NUT

| Part No. | Part Name |
|---|---|
| G48-1 | Cover |
| G48-2 | Screw |
| G48-3 | Screw |
| G48-4 | Bearing |
| G48-5 | Spacer |
| G48-6 | Screw |
| G48-7 | Cover |
| G48-8 | Gasket |
| G48-9 | Screw |
| G48-10 | Washer |

| Part No. | Part Name |
|---|---|
| G48-11 | Cartridge |
| G48-12 | Screw |
| G48-13 | Body |
| G48-14 | Gasket |
| G48-15 | Screw |
| G48-16 | Collar |
| G48-17 | Screw |
| G48-18 | Plug |
| G48-19 | Nut |

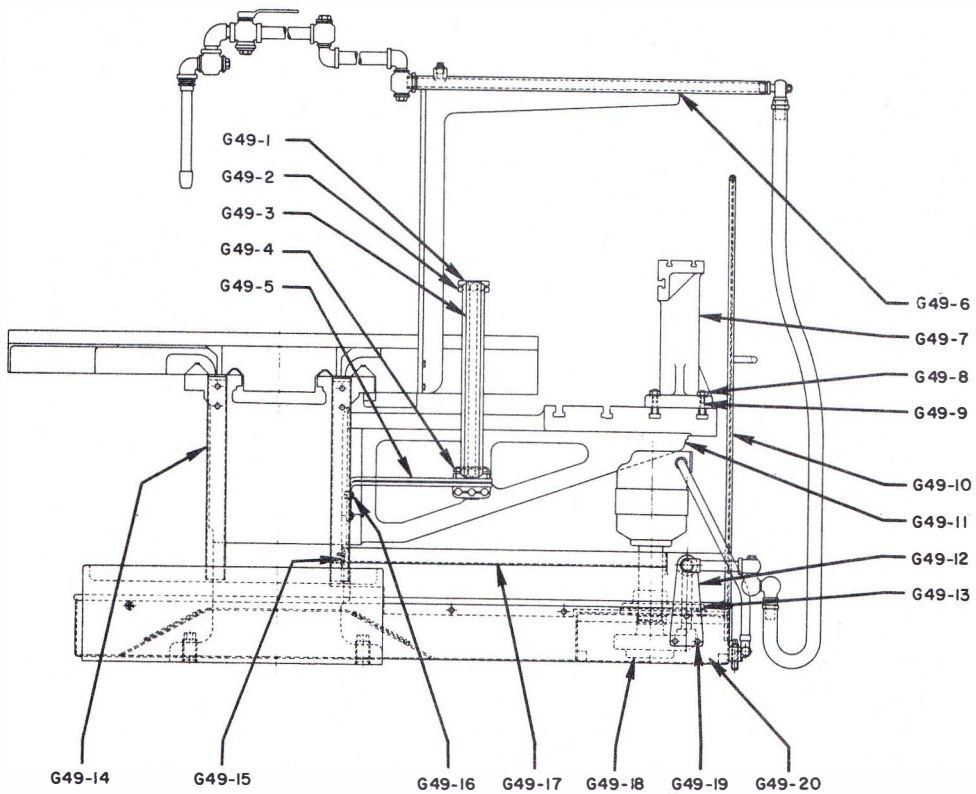



Fig. G49 Template Supports and Coolant

# TEMPLATE SUPPORTS AND COOLANT

| Part No. | Part Name |
|---|---|
| G49-1 | Clamp half |
| G49-2 | Clamp half |
| G49-3 | Spring |
| G49-4 | Bracket |
| G49-5 | Support |
| G47-6 | Bracket |
| G49-7 | Stand |

| Part No. | Part Name |
|---|---|
| G49-8 | Nut |
| G49-9 | Bolt |
| G49-10 | Guard |
| G49-11 | Bracket |
| G49-12 | Bracket |
| G49-13 | Bracket |
| G49-14 | Spout |

| Part No. | Part Name |
|---|---|
| G49-15 | Gasket |
| G49-16 | Screw |
| G49-17 | Guard |
| G49-18 | Pump |
| G49-19 | Screw |
| G49-20 | Strainer |

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