

This book has been reprinted from the original publication without revisions except the addition of Safety Precautions.

The Cincinnati Grinders Incorporated, by change of name, now is Cincinnati Milacron, Inc.

WARNING

In order to clearly show details of this machine, some covers, shields, doors, guards, or other protective devices have either been removed or shown in an "open" position. All such protective devices shall be installed in position before operating this machine. Failure to follow this instruction may result in damage to machine components and/or personal injury.

REPAIR PARTS for PRATT & WHITNEY 12,14 & 16 INCH MODEL "C" LATHES M-1694 M-1696 M-1694-2

for Cincinnati Milacron®

Publication No. M-1694-2

IMPORTANT

Carefully read the instructions and safety precautions given in this manual. Do not operate and/or service this machine/equipment until you have read this manual thoroughly.

At the time of writing, the book was completely up-to-date. However, due to continual improvements in design, it is possible that descriptions contained herein may vary to a slight extent from the machine delivered to you. This merely implies that the machine has been improved to better fulfill your requirements. If there are any questions, you are encouraged to contact the nearest Cincinnati Milacron representative for clarification.

CINCINNATI MILACRON

Cincinnati Milacron Marketing Company
Cincinnati, Ohio 45209

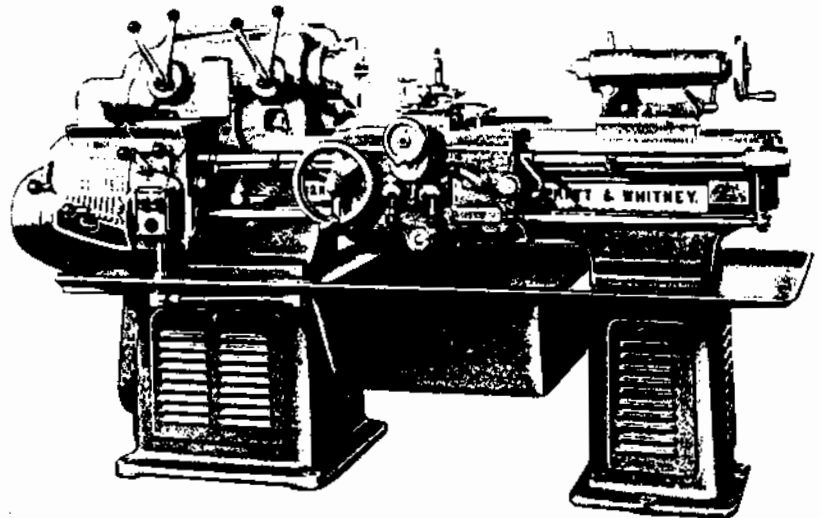
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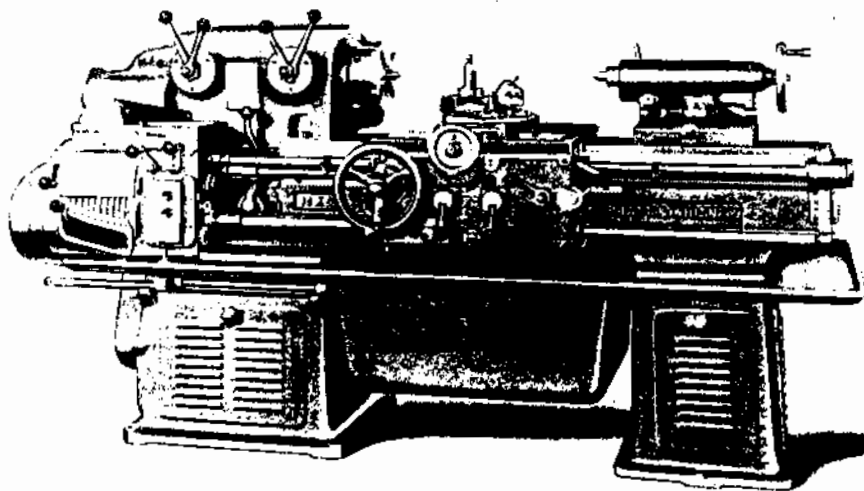
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FOR SUPPLEMENTARY ILLUSTRATIONS OF LATEST MACHINE DESIGN, SEE TABLE OF CONTENTS ON PAGE 45.



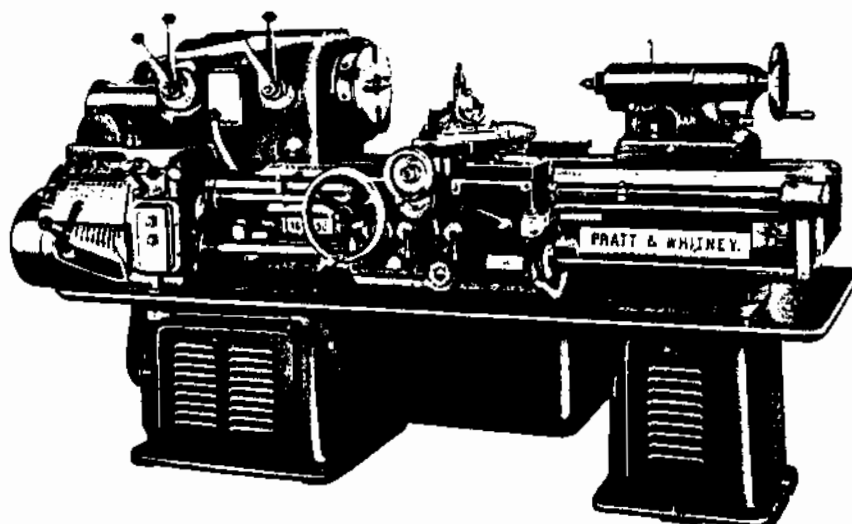


12-Inch Lathe
M-1694



14-Inch Lathe
M-1696

The Pratt & Whitney MODEL "C" LATHES



16-Inch Lathe M-1696



Introduction

This repair parts catalog covers all Pratt & Whitney repair parts for the Model "C" Lathes, namely the 12-inch Lathe (M-1694) and the 14- and 16-inch Lathes (M-1696). In addition to these repair parts, ball and quill bearings and Garlock seals are shown with proper sizes or manufacturers' part numbers. Standard electrical and mechanical parts are not listed, since these parts may be procured from commercial sources.

Supplementary illustrations of latest machine design are listed in the Table of Contents on Page 45.

THE ILLUSTRATIONS — Since the 12-, 14- and 16-inch lathes are similar in mechanical and structural design and vary only in size and in the construction of a few minor details, many of the machine parts are interchangeable in the three sizes of lathes. Owing to the predominant number of interchangeable parts, the 12-inch lathe only is fully illustrated in this catalog, serving as the typical and representative Model "C" Lathe. Repair parts for the 14- and 16-inch lathes may be identified and selected from corresponding parts shown in the 12-inch lathe illustrations, though differences in size and design will be noted. However, where there are marked differences in design in the 14- and 16-inch lathes over the 12-inch lathe, fragmentary construction drawings are added to the major drawings to show the variations, a specific example being the assembly of parts containing index numbers 8 through 13 in Figure 9.

Each illustration depicts a section of the lathe with repair parts fully or partially shown, and each illustrated repair part contains an index number for reference to the parts list. Index numbers commence with number 1, located in the left-hand area of the illustration, and generally progress in clockwise order around the repair parts assembly.

THE PARTS LISTS — Each parts list, divided into five columns, embodies the part numbers for the three sizes of lathes, the part names, and the index numbers, all of which are to be used in cross reference.

Instructions for Ordering Repair Parts

WHEN ORDERING repair parts for the Model "C" Lathes, give sufficient information to enable Pratt & Whitney to supply parts correctly.

This may be accomplished by observing the following details:

1. Mention the *name* of the machine, its *capacity*, and its *number*. The machine number is stamped on the bed and also on the patents plate.
2. State the *serial number*. This number is also stamped on the bed and on the patents plate.
3. List part numbers and part names *legibly* and *accurately*.

BEST SERVICE is obtainable by ordering from the nearest Pratt & Whitney office, as listed on the front cover of this catalog.

REQUESTS for additional information on the machine will be welcomed and will be given full attention at any time.

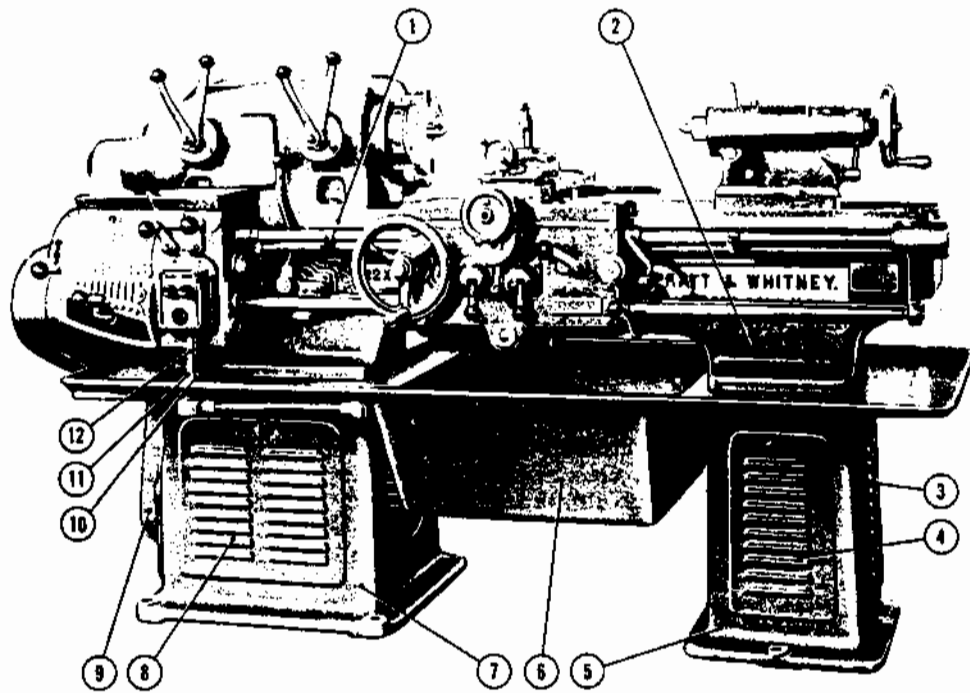


Figure 1 — Model "C" Lathe — Front View

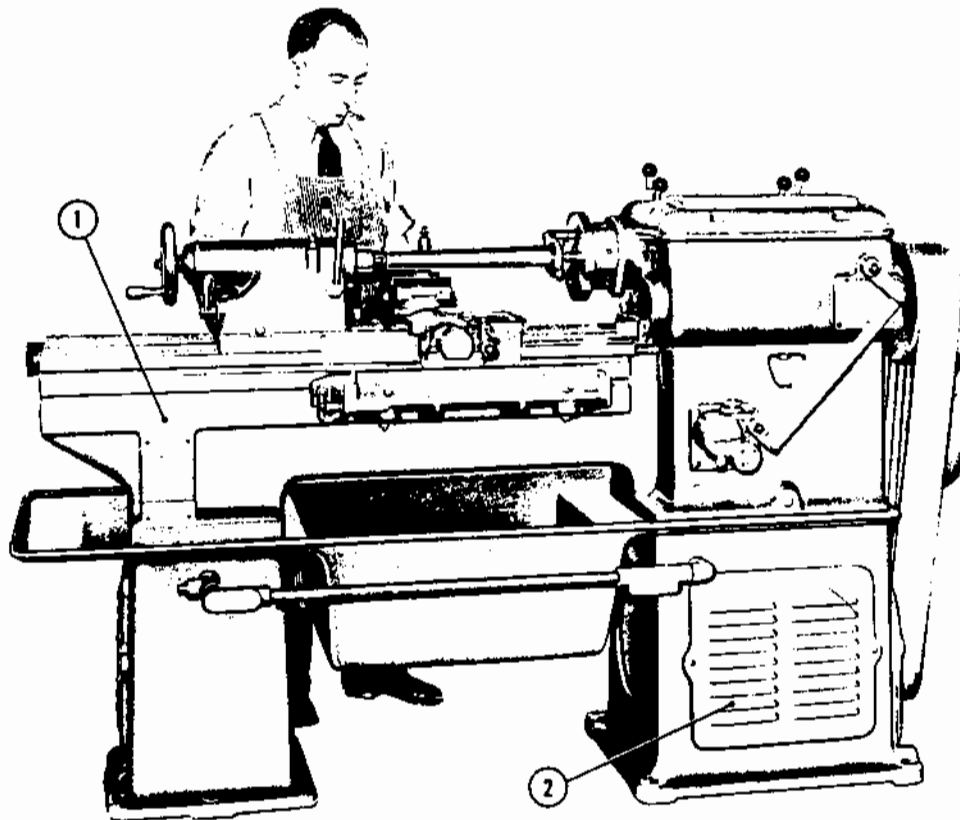


Figure 2 — Model "C" Lathe — Rear View



Model "C" Lathe — Front View

Index No.	Part Number (12' Lathe)	Part Number (14' Lathe)	Part Number (16' Lathe)	Part Name
1	1694-J620	1696-J1008	1696-J1008	Bed Plug
2	1694-1	1696-3A	1696-1A	Bed — 30" Capacity
2	1694-2	1696-4A	1696-2A	Bed — 54" Capacity
2	.....	1696-324	1696-85	Bed — 78" Capacity
3	1694-C608	1696-C581	1696-C581	R.H. Cabinet Leg End Cover
4	1694-C609A	1696-C579A	1696-C579A	R.H. Cabinet Leg Cover
5	1694-A74A	1696-A16A	1696-A18A	Cabinet Leg — R.H.
6	1694-633	1696-696A	1696-700A	Oil Pan — 30" Capacity
6	1694-634	1696-697A	1696-701A	Oil Pan — 54" Capacity
6	.....	1696-1101	1696-702	Oil Pan — 78" Capacity
7	1694-A73A	1696-A15B	1696-A17B	Cabinet Leg — L.H.
8	1694-B610	1696-B583A	1696-B583A	L.H. Cabinet Leg Door
9	1694-B718A	1696-B789	1696-B789	Belt Guard
10	1696-J795	1696-J795	1696-J795	Conduit Connector Washer
11	1696-J794	1696-J794	1696-J794	Conduit Connector Nut
12	1694-J693	1696-J793	1696-J793	Conduit Connector



Model "C" Lathe — Rear View

Index No.	Part Number (12' Lathe)	Part Number (14' Lathe)	Part Number (16' Lathe)	Part Name
1	1694-1	1696-3A	1696-1A	Bed — 30" Capacity
1	1694-2	1696-4A	1696-2A	Bed — 54" Capacity
1	.....	1696-324	1696-85	Bed — 78" Capacity
2	1694-B611	1696-B582	1696-B582	L.H. Cabinet Leg Cover — Rear

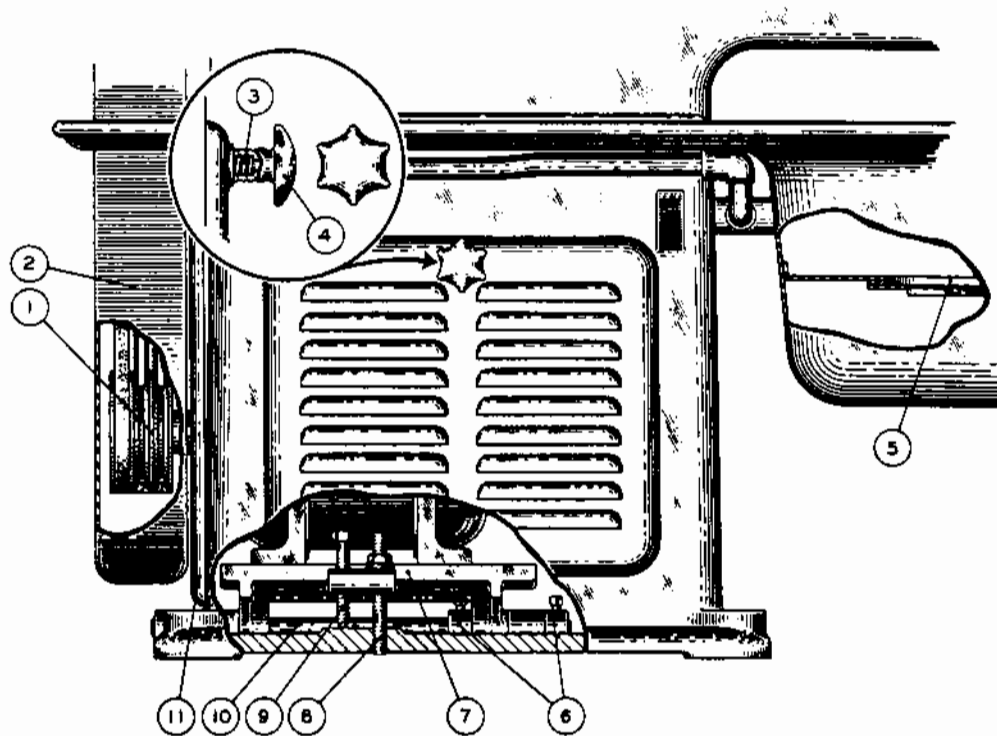


Figure 3 — Left-hand Cabinet Leg — Front View

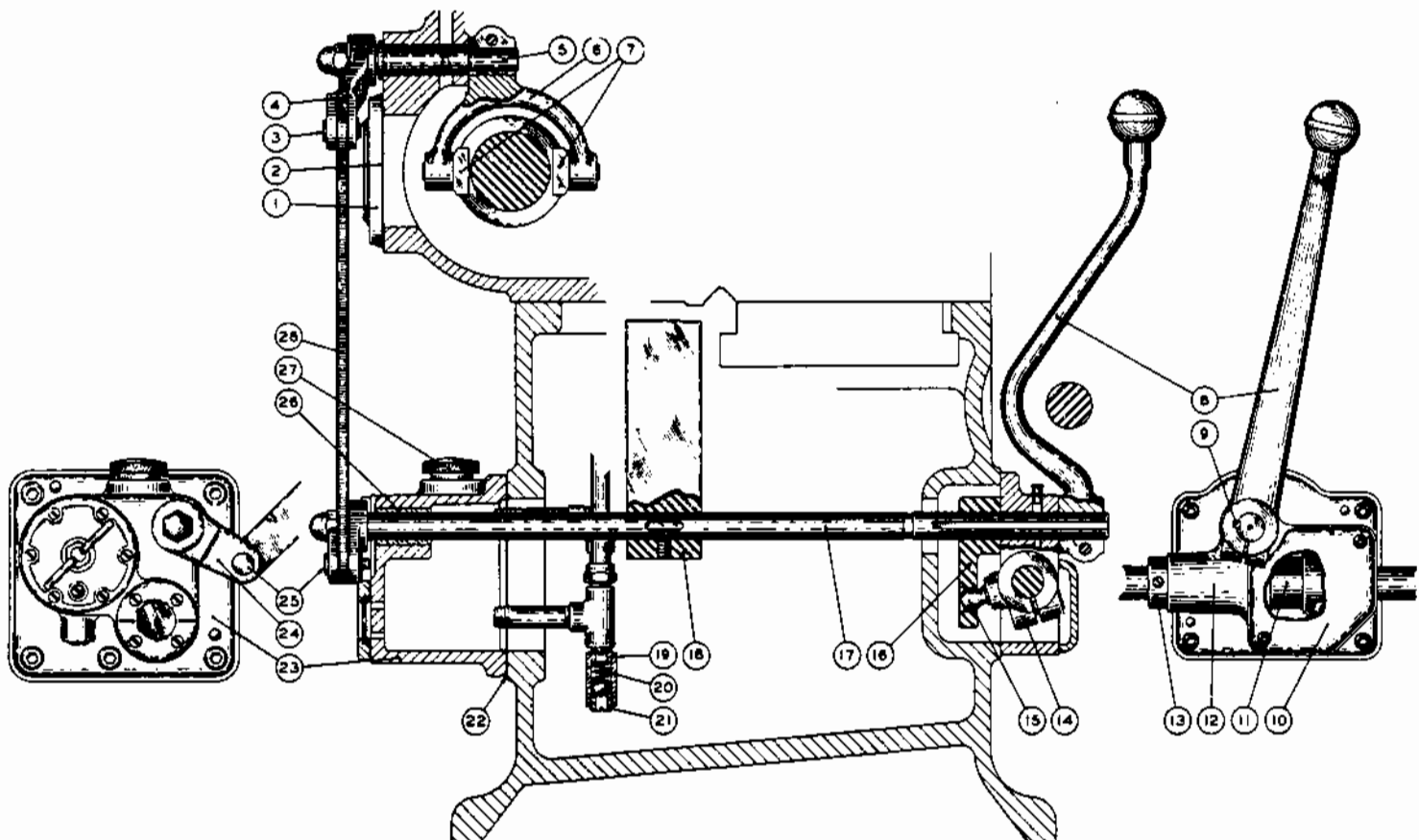


Figure 4 — Clutch Operating Mechanism and Oil Filter



Left-hand Cabinet Leg — Front View

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1694-140	.....	.....	Motor Pulley — 3 H.P.
1	.....	1696-131	.....	Motor Pulley — 5 H.P.
1	.....	.....	1696-132	Motor Pulley — 7½ H.P.
2	1694-B718A	1696-B789	1696-B789	Belt Guard
3	1395-J836	1395-J836	1395-J836	Door Knob Spring
4	1395-J253	1395-J253	1395-J253	Door Knob
5	1396-C282	1396-C282	1396-C282	Oil Strainer Plate
6	1696-J782	1696-J782	1696-J782	Motor Platform Shaft Collar
7	1694-B142	.....	.....	Motor Platform — 3 H.P.
7	.....	1696-B133	.....	Motor Platform — 5 H.P.
7	.....	.....	1696-B134	Motor Platform — 7½ H.P.
8	1694-J716	1696-J783	1696-J783	Platform Adjusting Screw
9	1694-J712	1696-J790	1696-J790	Platform Elevating Screw
10	1694-J717	1696-J791	1696-J791	Motor Platform Shaft
11	1694-B72	1696-B49	1696-B50	L.H. Cabinet Leg End Cover

Clutch Operating Mechanism and Oil Filter

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1696-C95	1696-C95	1696-C95	Clutch Adjusting Hand Hole Cover
2	1696-J1033	1696-J1033	1696-J1033	Clutch Adjusting Cover Plate Gasket
3	1694-J565	1696-J620	1696-J620	Clutch Shaft Lever Pivot
4	1694-J35A	1696-C47B	1696-C47B	Clutch Shaft Lever
5	1694-J564	1696-J574	1696-J574	Clutch Shaft Fork Stud
6	1694-C34A	1696-C48A	1696-C48A	Clutch Shaft Fork
7	1694-J36A	1696-J332	1696-J332	Clutch Shoe
8	1694-C226A	1696-C415	1696-C415	Control Rod Hand Lever
9	1696-J895	1696-J895	1696-J895	Control Rod Lever Key
10	1694-J81	1696-J210	1696-J210	Control Rod Bracket Cover
11	1694-J617	1696-J898	1696-J898	Start and Stop Rod Arm Spacer
12	1694-C79	1696-C209	1696-C209	Control Rod Bracket
13	1696-J619	1696-J619	1696-J619	Start and Stop Rod Collar
14	1696-J212	1696-J212	1696-J212	Start and Stop Rod Arm
15	1696-J897	1696-J897	1696-J897	Start and Stop Rod Arm Extension
16	1694-J80	1696-J211	1696-J211	Control Rod Actuating Lever
17	1694-C618	1696-615A	1696-626A	Control Rod
18	1694-C923	1696-C1241	1696-C1241	Control Rod C'Weight
19	1696-J813	1696-J813	1696-J813	Oil Filter By-Pass Valve
20	1696-J815	1696-J815	1696-J815	Oil Filter By-Pass Spring
21	1696-J814	1696-J814	1696-J814	Oil Filter By-Pass Screw
22	1694-J616	1696-J896	1696-J896	Oil Filter Housing Gasket
23	1694-B78	1696-B208	1696-B208	Oil Filter Housing
24	1694-J76	1696-J84	1696-J84	Lower Shift Lever
25	1696-J620	1696-J620	1696-J620	Shift Lever Pin
26	1694-J635	1696-J996	1696-J996	Oil Filter Housing Bushing
27	1696-J527	1696-J527	1696-J527	Oil Plug
28	1694-J615	1696-622	1696-623	Clutch Shift Lever Link

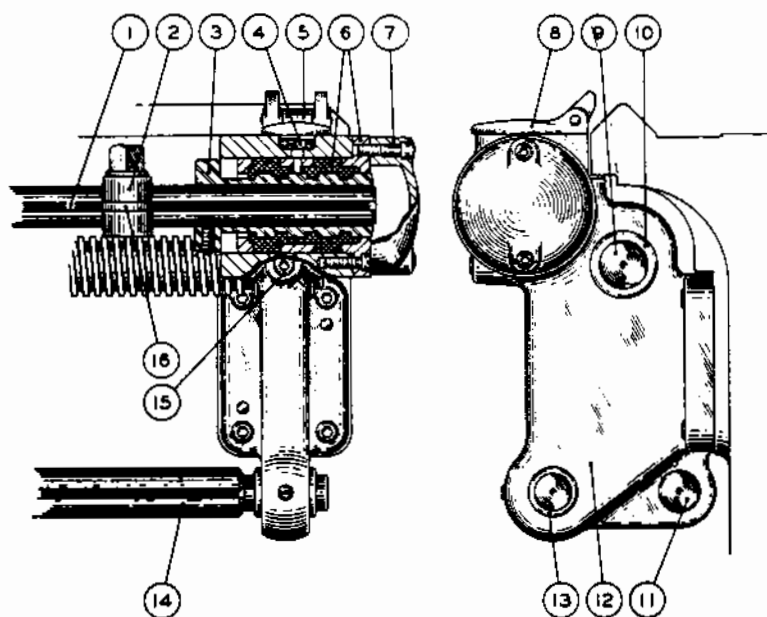


Figure 5
Rod End Bracket

See SUPPLEMENTARY SECTION of catalog for latest design of machine units.

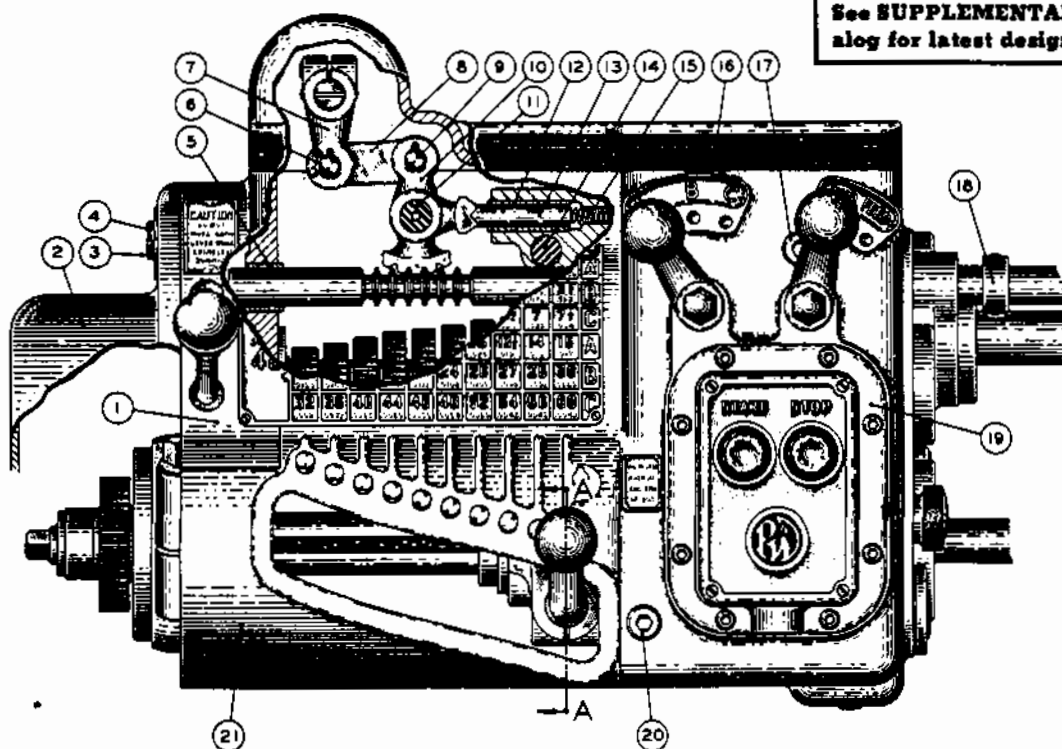


Figure 6 — Gear Box — Front View

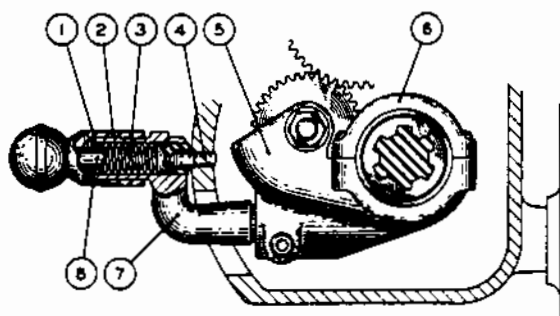


Figure 7
Section A-A (See Figure 6)



Rod End Bracket

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	G8-R-17	G8-R-8	G8-R-8	Knock Off Rod (For 30" Capacity)
1	G8-R-18	G8-R-10	G8-R-10	Knock Off Rod (For 54" Capacity)
1	.....	G8-R-11	G8-R-11	Knock Off Rod (For 78" Capacity)
2	1396-J1243	1396-J1243	1396-J1243	Stop Collar
3	1694-J625	1696-J630	1696-J630	Knock Off Rod Leader
4	1694-J623	1696-J621	1696-J621	Felt Pad
5	1696-J631	1696-J631	1696-J631	Oil Cover Hinge
6	1694-C86	1696-C92	1696-C92	Knock Off Rod Leader Nut
7	1694-J89	1696-J32	1696-J32	Leader Cap
8	1694-J90	1696-J91	1696-J91	Rod Bracket Oil Cover
9	1694-627	1696-882B	1696-882B	Lead Screw (For 30" Capacity)
9	1694-628	1696-883B	1696-883B	Lead Screw (For 54" Capacity)
9	.....	1696-884	1696-884	Lead Screw (For 78" Capacity)
10	1694-J87	1696-J34A	1696-J34A	Lead Screw Bushing
11	1694-631	1696-606A	1696-606A	Start and Stop Rod (For 30" Capacity)
11	1694-632	1696-607A	1696-607A	Start and Stop Rod (For 54" Capacity)
11	.....	1696-608A	1696-608A	Start and Stop Rod (For 78" Capacity)
12	1694-B85	1696-B33A	1696-B33A	Rod Support Bracket
13	1694-J88	1696-J35A	1696-J35A	Spline Shaft Bushing
14	1694-629	1696-609A	1696-609A	Spline Shaft (For 30" Capacity)
14	1694-630	1696-610A	1696-610A	Spline Shaft (For 54" Capacity)
14	.....	1696-611A	1696-611A	Spline Shaft (For 78" Capacity)
15	1694-J624	1696-J888	1696-J888	Lead Screw Bearing Retainer Screw
16	1396-J991	1396-J991	1396-J991	Stop Collar Washer

Gear Box — Front View

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1694-A71	1696-A9A	1696-A9A	Outer Bearing Support
2	1694-A856	1696-A122B	1696-A1214	Change Gear Guard
3	1694-J653	1696-J785	1696-J785	Change Gear Guard Screw — Long
4	1694-J652	1696-J784A	1696-J784A	Change Gear Guard Screw — Short
5	1694-J664	1696-J995	1696-J995	Outer Bearing Support Bushing
6	B-88	B-88	B-88	Torrington Needle Rollers
7	1694-J47	1696-J82	1696-J83	Reverse Clutch Yoke Lever
8	1694-J654	1696-J878	1696-J878	Reverse Clutch Segment Link
9	1694-J655	1696-J741	1696-J741	Reverse Clutch Segment Link Stud
10	G8-21-19A	G8-21-16	G8-21-16	Reverse Clutch Segment
11	1694-J670	1696-J744	1696-J744	Segment Shaft
12	1696-J740	1696-J740	1696-J740	Detent Bushing
13	1696-J742	1696-J742	1696-J742	Detent
14	1694-J667	1696-J1014	1696-J1014	Binder Stud — Short
15	1696-J743	1696-J743	1696-J743	Detent Spring
16	1694-A96	1696-A66A	1696-A66A	Tool Pan
17	1694-C668	1696-C1017	1696-C1017	Binder Stud — Long
18	1696-J625	1696-J625	1696-J625	Stop Collar
19	1694-B115A	1696-B10A	1696-B10A	Front Cover
20	1694-C668	1696-C1017	1696-C1017	Binder Stud — Long
21	1694-A52	1696-ASB	1696-ASB	Gear Box

Section A-A

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1696-J713A	1696-J713A	1696-J713A	Rocker Lever Plunger Bushing
2	1696-J920	1696-J920	1696-J920	Rocker Lever Plunger Sleeve
3	1696-J712A	1696-J712A	1696-J712A	Rocker Lever Plunger Spring
4	1696-J698B	1696-J698B	1696-J698B	Rocker Lever Locating Pin
5	1694-B93	1696-B51A	1696-B51A	Rocker
6	1694-J95	1696-J127A	1696-J127A	Rocker Cap
7	1694-C94	1696-C52C	1696-C52C	Rocker Lever
8	1696-J711D	1696-J711D	1696-J711D	Rocker Lever Plunger

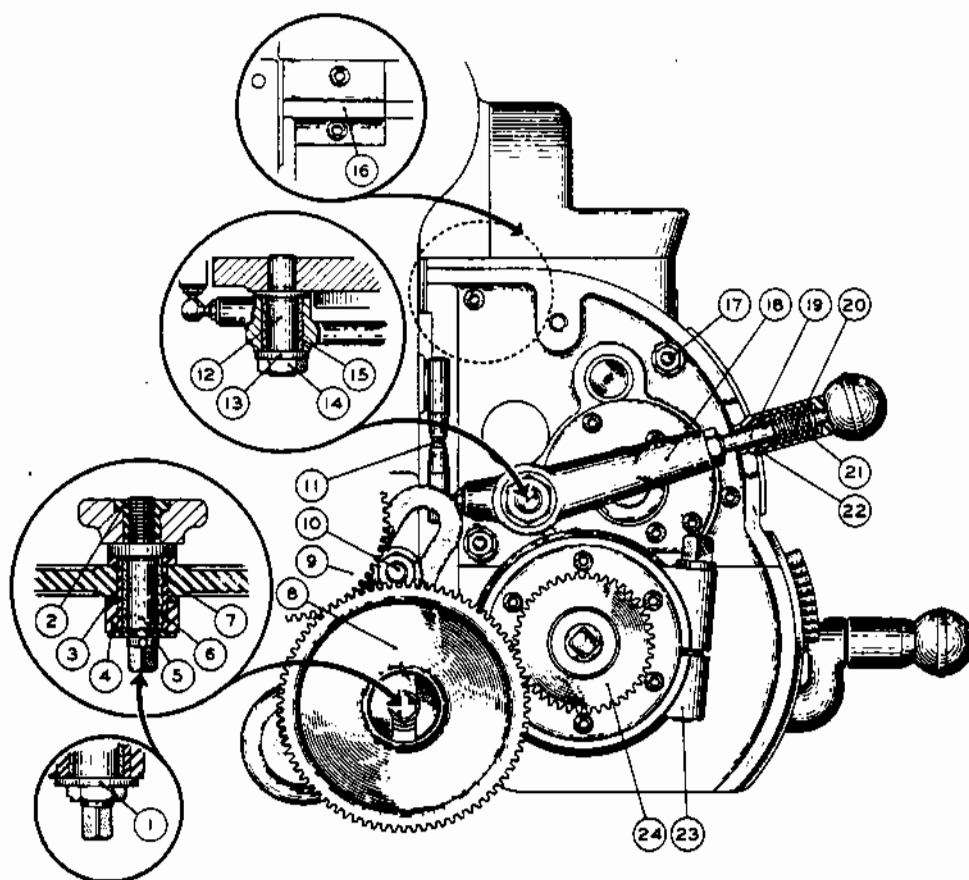


Figure 8 — Gear Box — Left End View

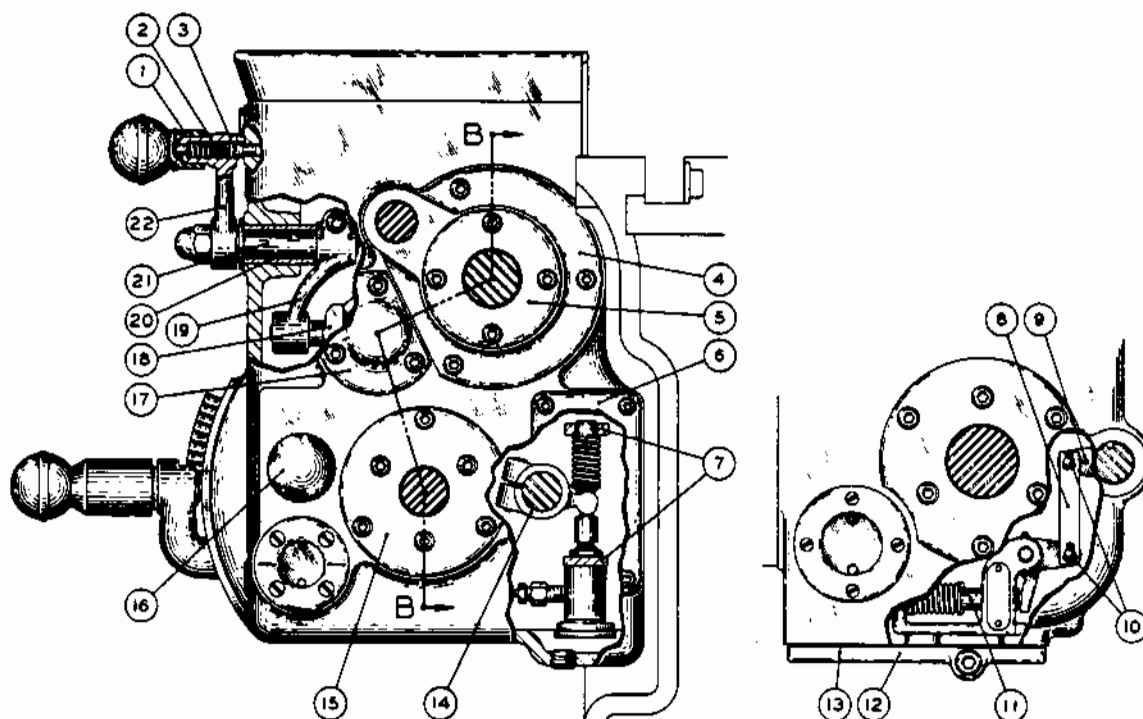


Figure 9 — Gear Box — Right End View



Gear Box — Left End View

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	.....	1696-J652A	1696-J652A	Change Gear Stud Washer
2	1395-J591	1696-J655	1696-J655	Change Gear Stud Nut
3	1694-J650	1696-J654	1696-J654	Change Gear Space Washer
4	1694-J651	1696-J653	1696-J653	Change Gear Space Collar
5	1694-J776	1696-J647A	1696-J647A	Change Gear Stud
6	1395-J389	1696-J235	1696-J235	Change Gear Sleeve Bushing
7	1395-J1040	1696-J649A	1696-J649A	Change Gear Sleeve
8	G16-90-6	G16-90-5	.....	90-Tooth Change Gear
8	.....	.....	G16-105-2	105-Tooth Change Gear
9	G16-72-13	G16-72-12	G16-72-12	72-Tooth Change Gear
10	1694-J520	1696-J580	1696-J580	Change Gear Arm Clamp Stud
11	1694-J660	1696-J750	1696-J751	Ratio Shift Ball Joint Connector
12	1694-J661	1696-J692A	1696-J692A	Ratio Shift Lever Stud
13	1696-J694	1696-J694	1696-J694	Ratio Shift Lever Stud Washer
14	1696-J693	1696-J693	1696-J693	Ratio Shift Lever Stud Nut
15	1694-J658	1696-J688A	1696-J688A	Ratio Shift Lever Bushing
16	.....	1696-J63A	1696-J64A	Filler Block
17	1694-J665	1696-J839	1696-J839	End Bearing Support Dowel
18	1694-C108	1696-C185A	1696-C185A	Ratio Shift Lever
19	1694-J659	1696-J689A	1696-J689A	Ratio Shift Lever Extension
20	1696-J691A	1696-J691A	1696-J691A	Ratio Shift Lever Handle Spring
21	1694-J656	1696-J923	1696-J923	Ratio Shift Lever Sleeve
22	1694-J657	1696-J924	1696-J924	Ratio Shift Lever Sleeve Extension
23	1694-B98	1696-B61A	1696-B62A	Change Gear Arm
24	G16-48-16	G16-48-14	G16-48-14	48-Tooth Change Gear

Gear Box — Right End View

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1696-J919	1696-J919	1696-J919	Position Selector Ball Sleeve
2	1696-J767	1696-J767	1696-J767	Position Selector Locating Stud Spring
3	1696-J766A	1696-J766A	1696-J766A	Position Selector Locating Stud
4	1694-C102	1696-C182A	1696-C182A	Lead Screw Bearing Bracket
5	1694-J101	1696-C183B*	1696-C183B*	Lead Screw Bearing End Cap
6	1694-C111	.....	.....	Pump Adapter
7	1694-C669	.....	.....	Lubricating Pump (Bijur)
8	.....	1696-J1110	1696-J1110	Lubricating Pump Operating Lever Link
9	.....	1696-J334	1696-J334	Lubricating Pump Operating Lever
10	.....	1696-J1111	1696-J1111	Lubricating Pump Link Pin
11	.....	1696-C1109	1696-C1109	Lubricating Pump (Bijur) Type GK Special
12	.....	1696-C333A	1696-C333A	Lubricating Pump Plate
13	.....	1696-J1112A	1696-J1112A	Lubricating Pump Plate Gasket
14	1694-J112	.....	.....	Pump Actuator
15	1694-C100	1696-C179B†	1696-C179B†	Feed Drive Shaft Bearing Retainer Cap
16	1696-J527	1696-J527	1696-J527	Oil Plug
17	1694-J103	1696-J177A	1696-J177A	Drive Shaft Bearing Retainer
18	1694-J110	1696-J764	1696-J764	Sliding Gear Lever Shoe
19	1694-C109	.....	.....	Sliding Gear Operating Lever
19	.....	1696-C186	1696-C186	Speed Drive Gear Cluster Operating Lever
19	.....	1696-C188	1696-C188	Thread & Feed Change Lever
20	1694-J663	1696-J738	1696-J738	Selector Lever Stud Bushing
21	1694-J662	1696-J737	1696-J737	Selector Lever Stud
22	1694-C107	1696-C187	1696-C187	Selector Lever

*Garlock Klosure Seal, 2 1/4" O.D. 1 1/2" I.D. 3/8" wide, used with part.

†Garlock Klosure Seal, 1 3/4" O.D. 1 1/8" I.D. 3/8" wide, used with part.

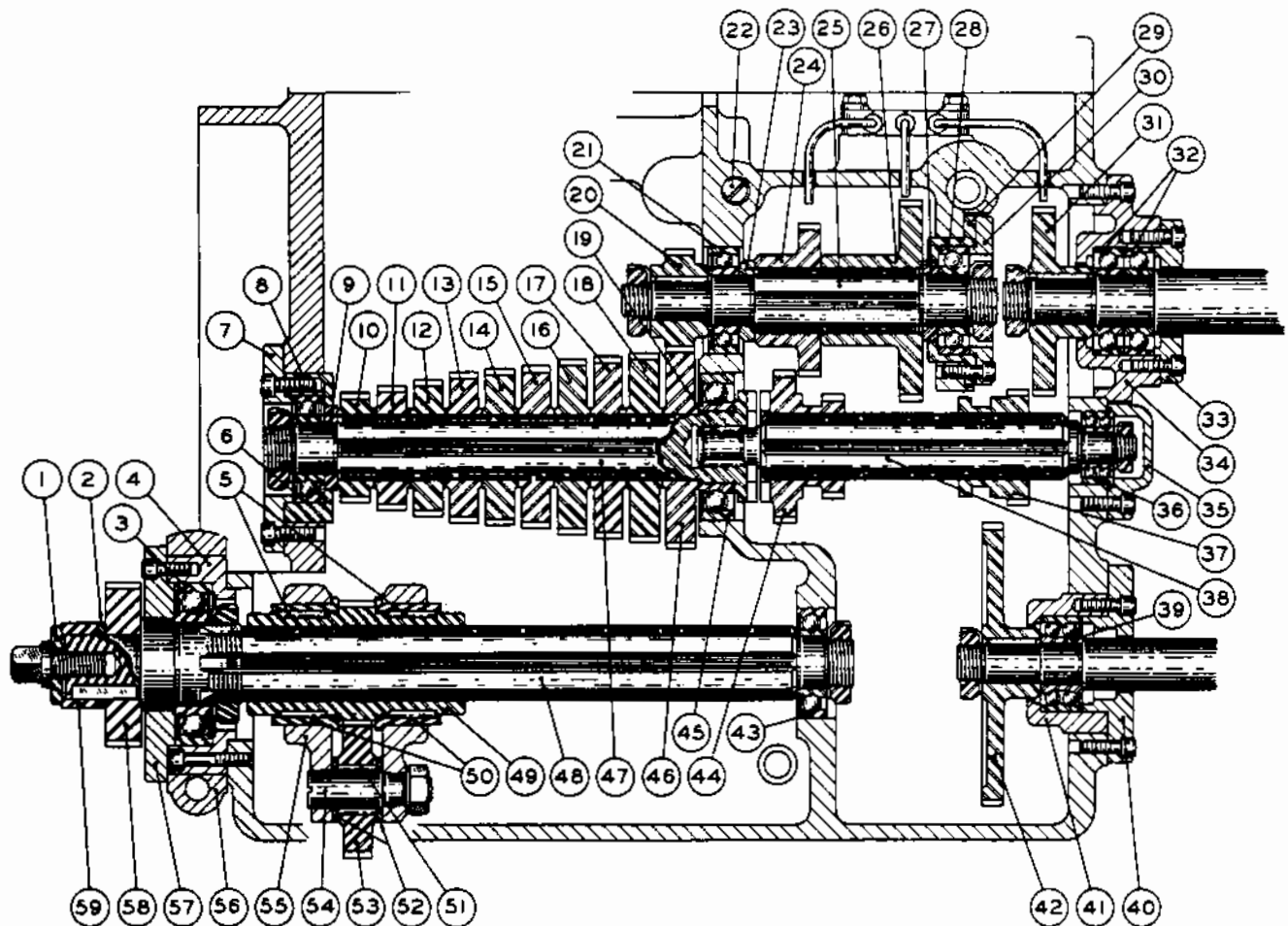


Figure 10 — Section B-B (See Figure 9)

Section B-B

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1694-J513	1696-J577	1696-J577	Change Gear Washer
2	1694-J650	1696-J654	1696-J654	Change Gear Space Washer
3	77508X1C (RA231)	77509X1C (RA218)	77509X1C (RA218)	New Departure Ball Bearing
4	1694-C104	1696-C129A	1696-C129A	Rocker Outer Bearing Cartridge
5	.0939 x .975	.0939 x .975	.0939 x .975	Bantam Needle Rollers
5	.0936 x .955	.0936 x .955	.0936 x .955	
6	77505X1C (RA230)	7506X1A (RA790)	7506X1A (RA790)	New Departure Bearing
7	1694-C106	1696-C181A	1696-C181A	Cone Bank Outer Bearing Retainer Cap
8	1694-J645	1696-C727	1696-C727	Cone Bank Outer Bearing Cartridge
9	1694-J644	1696-J720A	1696-J720A	Cone Bank Bearing Spacer

(Continued on Opposite Page)



Section B-B

(Concluded)

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
10	G16-32-21	G14-32-7	G14-32-7	32-Tooth Cone Bank Gear
11	G16-36-15	G14-36-7	G14-36-7	36-Tooth Cone Bank Gear
12	G16-40-22	G14-40-11	G14-40-11	40-Tooth Cone Bank Gear
13	G16-44-10	G14-44-2	G14-44-2	44-Tooth Cone Bank Gear
14	G16-46-5	G14-46-4	G14-46-4	46-Tooth Cone Bank Gear
15	G16-48-15	G14-48-7	G14-48-7	48-Tooth Cone Bank Gear
16	G16-52-9	G14-52-3	G14-52-3	52-Tooth Cone Bank Gear
17	G16-54-7	G14-54-3	G14-54-3	54-Tooth Cone Bank Gear
18	G16-56-10	G14-56-9	G14-56-9	56-Tooth Cone Bank Gear
19	.0939 x .750 .0936 x .730	.0939 x .975 .0936 x .955	.0939 x .975 .0936 x .955	Bantam Needle Rollers
20	G16-30-7	G14-30-12	G14-30-12	Intermediate Drive Shaft Gear
21	7505X1C (RA229)	7206X1A (RA222)	7206X1A (RA222)	New Departure Bearing
22	1694-J666	1696-J748	1696-J748	Main Dowel
23	1694-J640	1696-J902	1696-J902	Intermediate Drive Shaft Bearing Spacer
24	G15-43-1	.....	.....	Medium Speed Drive Gear
25	1694-C637	1696-C723A	1696-C723A	Intermediate Drive Shaft
26	G15-58-1	G13-58-1	G13-58-1	Medium and High Speed Drive Gear
27	1694-J640	1696-J724A	1696-J724A	Intermediate Drive Shaft Bearing Spacer
28	3205X1A (RA37)	3205X1A (RA37)	3205X1A (RA37)	New Departure Ball Bearing
29	1694-J639	1696-J903	1696-J903	Intermediate Drive Shaft Bearing Cartridge
30	1694-J638	1696-J904	1696-J904	Intermediate Drive Shaft Bearing Cap
31	G15-54-1	G13-54-1	G13-54-1	Lead Screw Gear
32	30205DB-T5143CF	Q30306DBS7849CF	Q30306DBS7849CF	New Departure Ball Bearing
33	1694-J101	1696-C183B†	1696-C183B†	Lead Screw Bearing End Cap
34	1694-C102	1696-C182A	1696-C182A	Lead Screw Bearing Bracket
35	1694-J103	1696-J177A	1696-J177A	Drive Shaft Bearing Retainer
36	45202X1A (DR242)	45203X1A (DR223)	45203X1A (DR223)	New Departure Bearing
37	G15-32-1	G13-32-1	G13-32-1	Screw and Feed Sliding Gear
38	1694-C641	1696-C721A	1696-C721A	Screw and Feed Drive Shaft
39	5504X1C	5605X1217CF	5605X1217CF (DR208)	New Departure Ball Bearing
40	1694-C100	1696-C179B*	1696-C179B*	Feed Drive Shaft Bearing Retainer Cap
41	1694-C99	1696-C178A	1696-C178A	Feed Drive Shaft Bearing Cartridge
42	G15-77-1	.....	.....	77-Tooth Drive Gear
42	.....	G13-94-1A	G13-94-1A	94-Tooth Drive Gear
43	7505X1C (RA229)	7605X1A (RA220)	7605X1A (RA220)	New Departure Ball Bearing
44	G15-43-2	G13-44-1	G13-44-1	Low, Medium and High Speed Driven Gear
45	7507X1A (RA224)	7508X1A (RA787)	7508X1A (RA787)	New Departure Bearing
46	G16-60-15	G14-60-9	G14-60-9	60-Tooth Cone Bank Gear
47	1694-B642	1696-B719A	1696-B719A	Cone Bank Shaft
48	1694-B646	1696-B714B	1696-B714B	Rocker Shaft
49	G16-36-14	G14-36-8	G14-36-8	Rocker Pinion
50	1694-J649	1696-J705A	1696-J705A	Rocker Pinion Bearing Sleeve
51	.1250 x .750 .1248 x .730	.1250 x .750 .1248 x .730	.1250 x .750 .1248 x .730	Bantam Needle Rollers
52	1694-J648	1696-J736	1696-J736	Feed Idler Gear Thrust Washer
53	G16-40-21	G14-40-12	G14-40-12	Feed Idler Gear
54	1694-J647	1696-J735	1696-J735	Feed Idler Gear Stud
55	1694-B93	1696-B51A	1696-B51A	Rocker
56	1694-B98	1696-B62A	1696-B62A	Change Gear Arm
57	1694-C105	1696-C130A	1696-C130A	Rocker Outer Bearing Retainer Cap
58	G16-48-16	G16-48-14	G16-48-14	48-Tooth Change Gear
59	1694-J651	1696-J653	1696-J653	Change Gear Space Collar

* Garlock Kloxure Seal, 1 3/4" O.D., 1 1/8" I.D., 3/8" wide, used with part.

† Garlock Kloxure Seal, 2 1/4" O.D., 1 1/2" I.D., 3/8" wide, used with part.



See SUPPLEMENTARY SECTION of catalog for latest design of machine units.

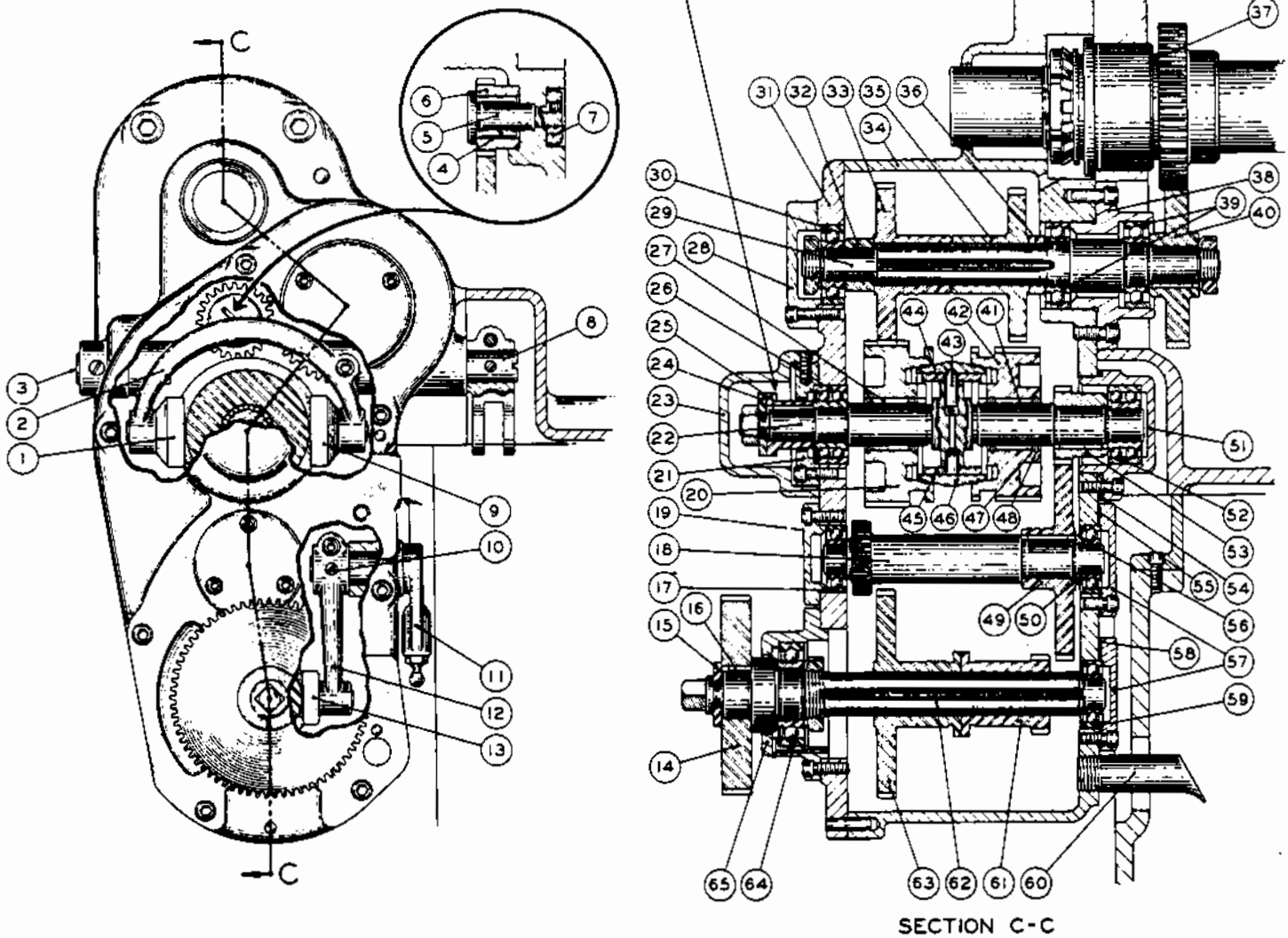


Figure 11 — Ratio Gear Box and Section C-C

Ratio Gear Box and Section C-C

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1694-J46	1696-J75	1696-J75	Reverse Clutch Yoke Shoe
2	1694-C45	1696-C74	1696-C74	Reverse Clutch Yoke
3	1694-J522	1696-J633	1696-J633	Reverse Yoke Stud
4	93216			Hyatt Needle Rollers
4		$\frac{1}{4}$ " Shaft, $1\frac{1}{4}$ " OD, 1" Long	$\frac{1}{4}$ " Shaft, $1\frac{1}{4}$ " OD, 1" Long	"Hack Tack" Journal Needle Rollers
5	1694-J517A	1696-J602	1696-J602	Intermediate Gear Stud
6	G12-20-13	G10-20-64A	G10-20-64A	Forward Intermediate Gear
7	1694-J518	1696-J605	1696-J605	Intermediate Gear Stud Nut
8	1694-J521	1696-J603	1696-J603	Reverse Yoke Shaft
9	1694-J46	1696-J75	1696-J75	Reverse Clutch Yoke Shoe
10	1696-J935	1696-J935	1696-J935	Ratio Shift Lever Set Screw
11	1694-J49	1696-J77	1696-J78	Ratio Shift Lever

(Continued on Opposite Page)



Ratio Gear Box and Section C-C

(Concluded)

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
12	1694-J48	1696-J76	1696-J76	Ratio Change Lever
13	1696-J79	1696-J79	1696-J79	Ratio Change Lever Shoe
14	G16-72-13	G16-72-12	G16-72-12	72-Tooth Change Gear
15	1694-J513	1696-J577	1696-J577	Change Gear Washer
16	.....	1696-J891	1696-J891	Stud Shaft Key
17	3203X1A (RA64)	3205X1A (RA37)	3205X1A (RA37)	New Departure Ball Bearing
18	G14-22-10	G12-22-13	G12-22-13	Ratio Pinion Shaft
19	1694-J42	1696-J72A	1696-J72A	Ratio Shaft Outer Bearing Retainer Cap
20	G12-45-19	G10-47-15	G10-47-15	Reverse Driven Gear
21	1694-J40	1696-J206A*	1696-J206A*	Reverse Shaft Outer Bearing Retainer Cap
22	1694-B505	1696-B887A	1696-B887A	Thread Reverse Shaft
23	1694-J39	1696-J273	1696-J273	Reverse Shaft Cover
24	1694-J513	.....	.....	Change Gear Washer
25	1694-J514	1696-J969	1696-J969	Reverse Shaft Sleeve
26	5504X1C (DR236)	5205X1217A (DR13)	5205X1217A (DR13)	New Departure Ball Bearing
27	.0939 x .875	.1582 x 1.014	.1582 x 1.014	Bantam Needle Rollers
28	.0936 x .855	.1580 x .994	.1580 x .994	Reverse Drive Shaft Outside Cap
29	1694-J37A	1696-J68	1696-J68	Reverse Drive Shaft
30	1694-C502	1696-C890	1696-C890	New Departure Ball Bearing
31	3204X1A (RA66)	3205X1A (RA37)	3205X1A (RA37)	Ratio Box Cover
32	1694-A7	1696-A7A	1696-A7A	Reverse Drive Shaft Spacer — Outer
33	1694-J503	1696-J586	1696-J586	Reverse Drive Gear
34	G12-45-18	G10-47-17	G10-47-17	Ratio Box
35	1694-A6	1696-A6A	1696-A6A	Forward Drive Gear
36	G12-42-21	G10-44-25	G10-44-25	Reverse Drive Shaft Spacer — Inner
37	1694-J504	1696-J585A	1696-J585A	Feed Spindle Gear
38	G10-38-28A	G10-44-21	G10-44-21	Reverse Drive Shaft Bearing Housing
39	1694-C38	1696-C67	1696-C67	New Departure Ball Bearing
40	3205X1A (RA37)	3207X1A (RA212)	3207X1A (RA212)	First Driven Gear
41	G10-38-29	G10-44-22	G10-44-22	Bantam Needle Rollers
42	.0939 x .875	.1582 x 1.014	.1582 x 1.014	Forward Driven Gear
43	.0936 x .855	.1580 x .994	.1580 x .994	Clutch Spring Plunger
44	G12-42-22	G10-44-23	G10-44-23	Clutch Spring
45	1694-J510	1696-J594	1696-J594	Reverse Shaft Ring
46	1694-J509	1696-J593	1696-J593	Clutch
47	1694-J506	1696-J595	1696-J595	Clutch Quill Bearing Retainer Ring
48	1694-J508	1696-J592	1696-J592	Clutch Quill Bearing Spring Ring
49	1694-J511	1696-J596	1696-J596	Ratio Pinion Shaft Gear
50	1694-J512	1696-J597	1696-J597	Ratio Pinion Shaft Washer
51	G14-64-5	G12-64-17	G12-64-17	Reverse Shaft Inside Bearing Housing
52	1694-J516	1696-J599	1696-J599	New Departure Ball Bearing
53	1694-C41	1696-C69	1696-C69	Ratio Drive Pinion
54	5204X1A (DR228)	5205X1217A (DR13)	5205X1217A (DR13)	Reverse Shaft Fitting Washer
55	G14-24-7	G12-24-27	G12-24-27	Ratio Pinion Shaft Fitting Washer
56	1694-J507	1696-J598	1696-J598	New Departure Ball Bearing
57	.....	1696-J600	1696-J600	Ratio Pinion Shaft Inside Plate
58	3203X1A (RA64)	3205X1A (RA37)	3205X1A (RA37)	Ratio Pinion Shaft Fitting Washer
59	1694-J43	1696-J71	1696-J71	New Departure Ball Bearing
60	.....	1696-J600	1696-J600	Ratio Pinion Shaft Fitting Washer
61	3203X1A (RA64)	3205X1A (RA37)	3205X1A (RA37)	New Departure Ball Bearing
62	1694-J519	1696-J604	1696-J604	Drain Pipe
63	G14-24-8	G12-24-29	G12-24-29	Stud Shaft Sliding Gear — Small
64	1694-C515	1696-C892	1696-C892	Stud Shaft
65	G14-66-8	G12-66-21	G12-66-21	Stud Shaft Sliding Gear — Large
66	7506X1A (RA790)	7507X1A (RA224)	7507X1A (RA224)	New Departure Ball Bearing
67	1694-C44	1696-C73	1696-C73	Stud Shaft Outer Bearing Housing

*Garlock Klosure, 1 5/8" O.D. x 1 1/4" hole x 3/8" thick, used with part.

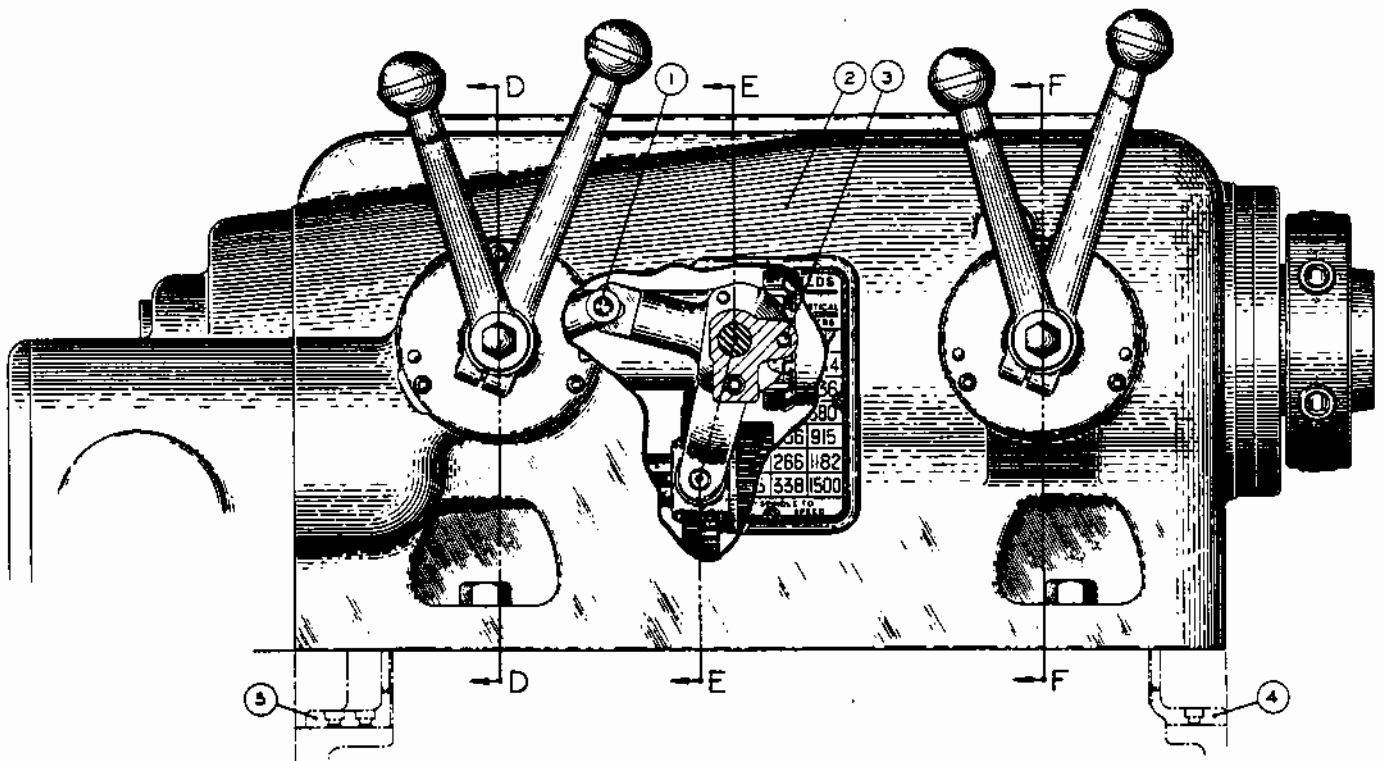


Figure 12 — Headstock — Front View

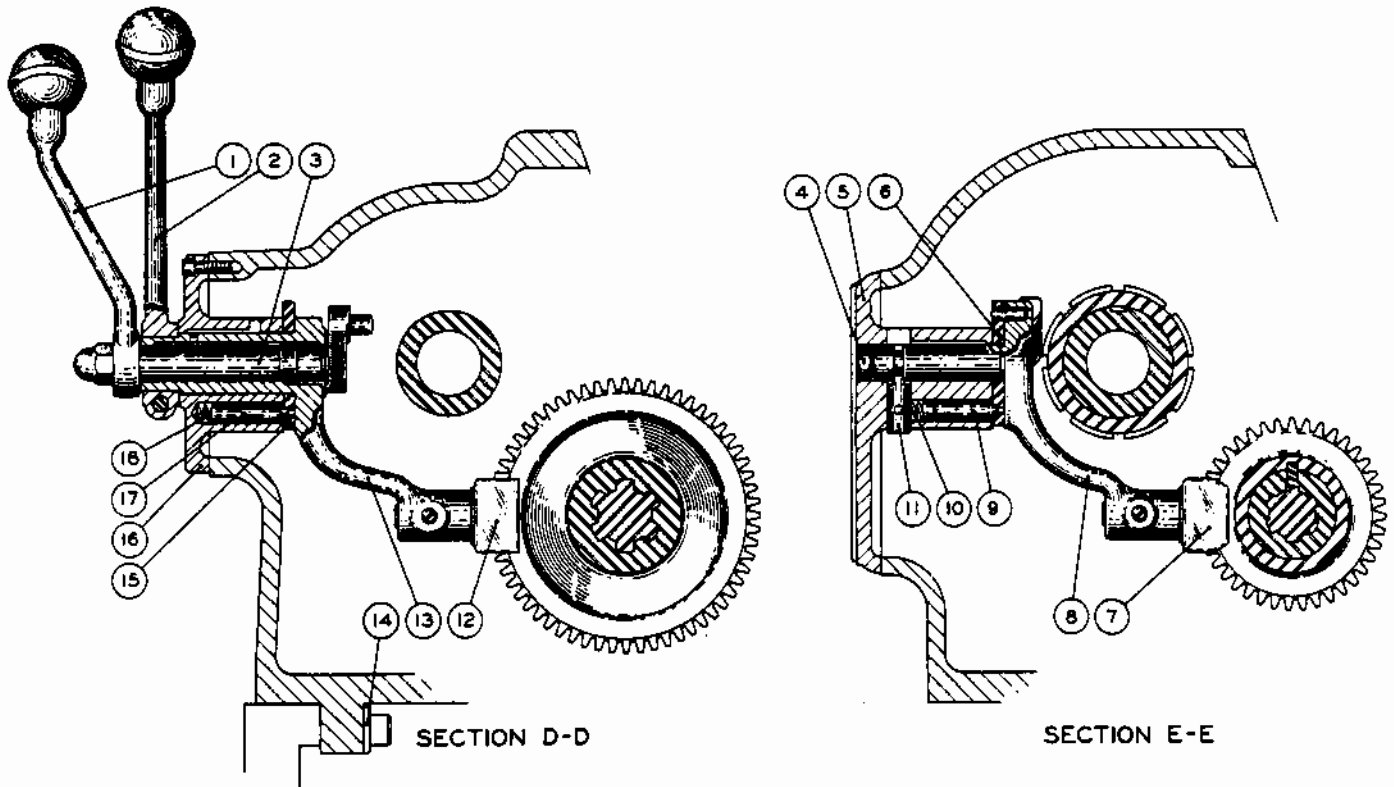


Figure 13 — Sections D-D and E-E (See Figure 12)



Headstock — Front View

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1694-J563	1696-J911	1696-J911	L.H. Front Lever Operating Pin
2	1694-A3A	1696-A12B	1696-A13B	Headstock
3	1694-J559	1696-J917	1696-J917	Knee Lever Stop Pin
4	1694-C91	1696-C89	1696-C93	Oil Guard — Front
5	1694-C92	1696-C90	1696-C94	Oil Guard — Rear



Sections D-D and E-E

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1694-C16	1696-C107A	1696-C107A	Shift Lever — Short
2	1694-C15	1696-C108A	1696-C108A	Shift Lever — Long
3	1694-C25	1696-C220	1696-C220	Knee Operating Lever
4	1694-J562	1696-J1010	1696-J1010	Knee Lever Bearing Plug
5	1694-C9	1696-C222	1696-C222	Knee Lever Bearing
6	1694-J24	1696-J241	1696-J241	Knee Lever Detent Plate
7	1694-J17	.....	.....	Shipper Fork — R.H. Front and Knee Lever
7	.....	1696-J218	1696-J218	Shipper Fork — L.H. Front and Knee Lever
8	1694-C14	1696-C219	1696-C219	Knee Lever
9	1694-J557	1696-J914	1696-J914	Lever Detent
10	1694-J558	1696-J913	1696-J913	Lever Detent Spring
11	1694-J561	1696-J912	1696-J912	Knee Lever Locating Pin
12	1694-J18	.....	.....	Shipper Fork — L.H. Front Lever
12	.....	1696-J218	1696-J218	Shipper Fork — L.H. Front and Knee Lever
13	1694-C11	1696-C221	1696-C221	L.H. Fork Lever
14	1694-J858	1696-J1031	1696-J1031	Rear Washer
14	.....	1696-J1030	1696-J1030	Front Washer
15	1694-J26	1696-J242	1696-J242	L.H. Fork Lever Detent Plate
16	1694-C10	.....	.....	Shift Lever Bracket
16	.....	1696-223	1696-223	Shift Lever Bracket — L.H.
17	1694-J557	1696-J914	1696-J914	Lever Detent
18	1694-J558	1696-J913	1696-J913	Lever Detent Spring

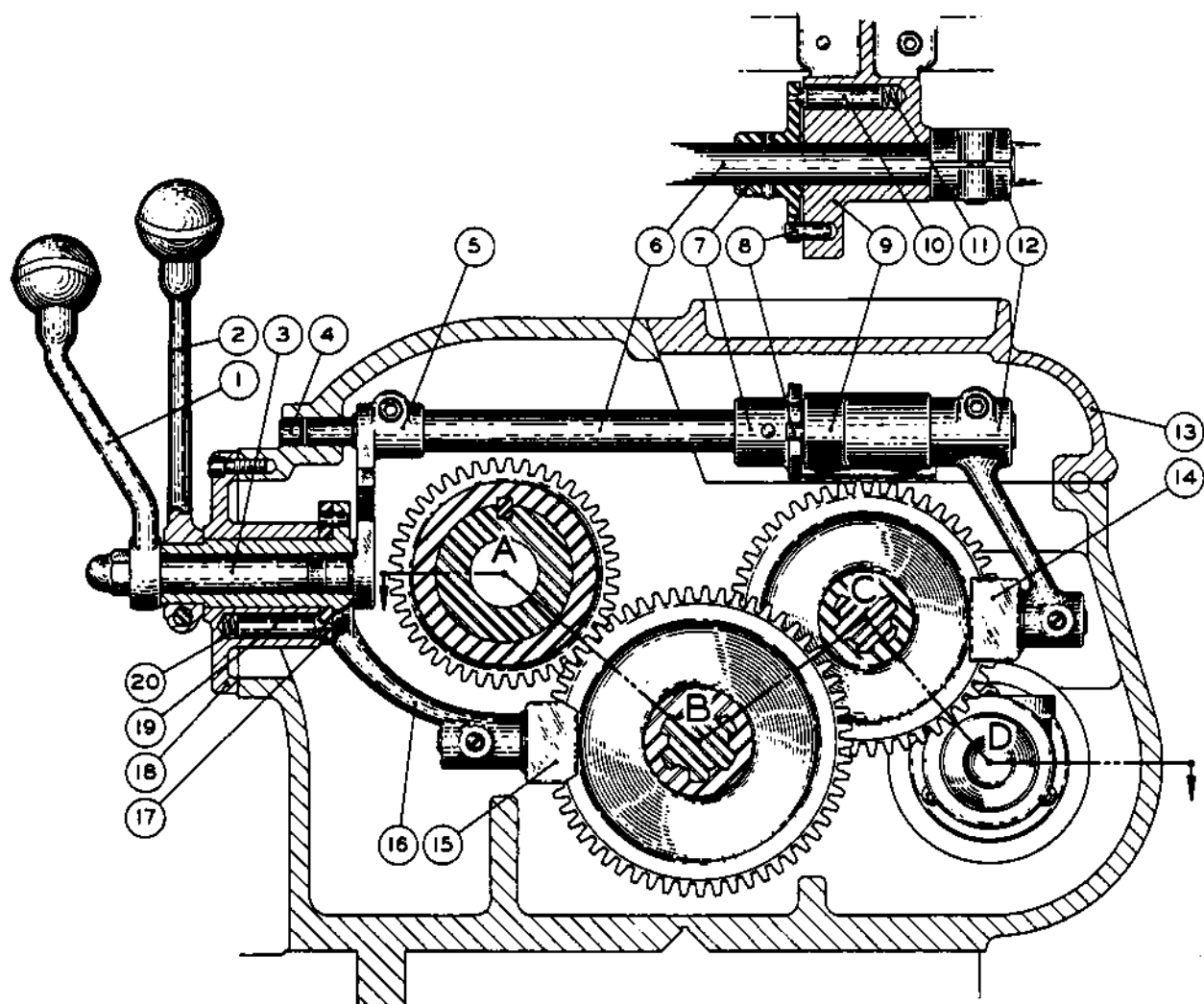


Figure 14 — Section F-F (See Figure 12)





Section F-F

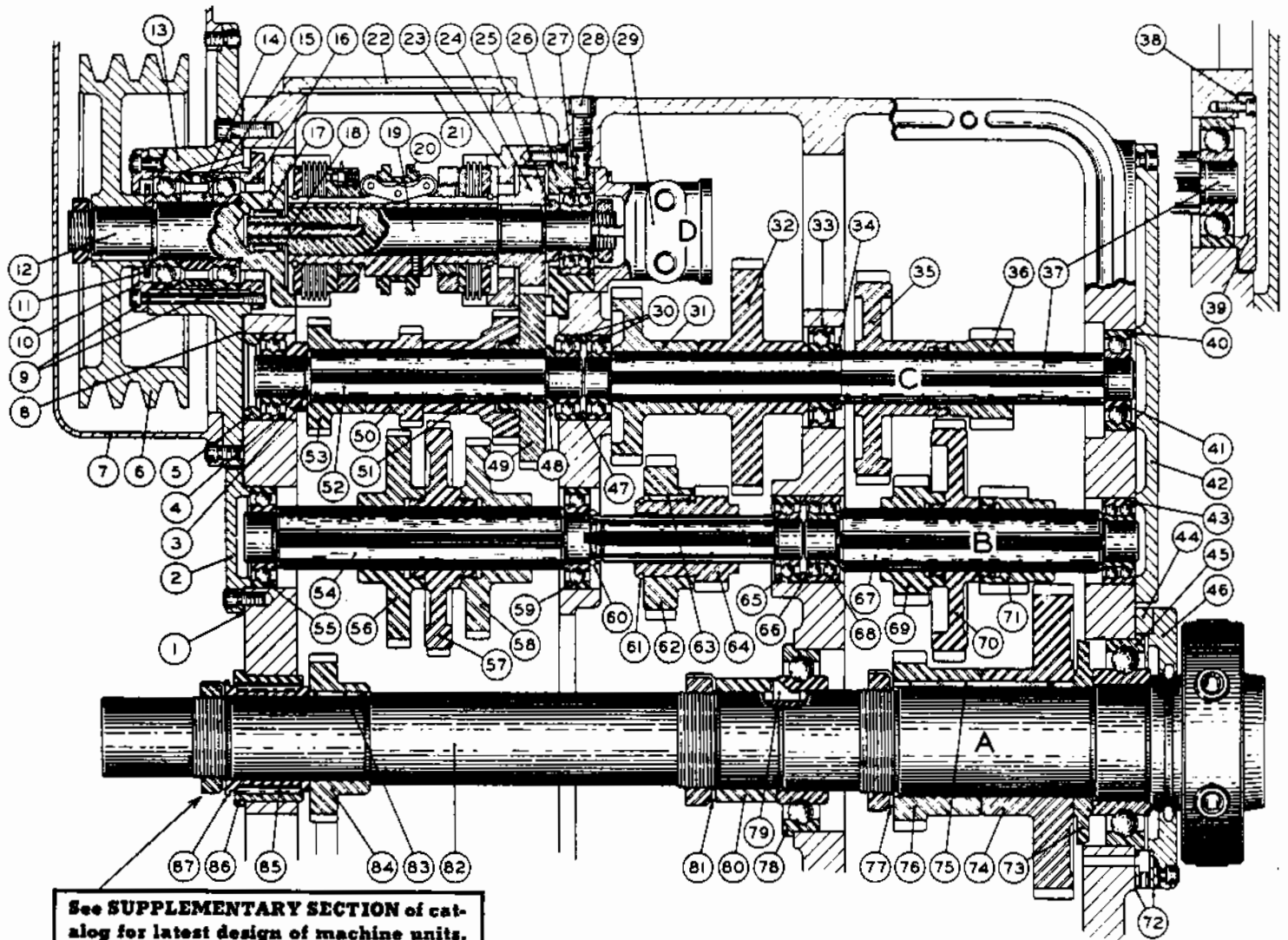
Index No.	Part Number (12' Lathe)	Part Number (14' Lathe)	Part Number (16' Lathe)	Part Name
1	1694-C16	1696-C107A	1696-C107A	Shift Lever — Short
2	1694-C15	1696-C108A	1696-C108A	Shift Lever — Long
3	1694-C22	1696-C231	1696-C231	R.H. Rear Lever Segment
4	1694-J556	1696-J1009	1696-J1009	Transverse Shaft Plug
5	1694-C21	1696-C230	1696-C230	Transverse Shaft Segment
6	1694-C555	1696-C915	1696-C915	Transverse Shaft
7	1694-J20	1696-J225	1696-J225	Transverse Shaft Locating Collar
8	1694-J559	1696-J917	1696-J917	Knee Lever Stop Pin
9	1694-B143	1696-C369	1696-C369	Transverse Shaft Bearing
10	1694-J557	1696-J914	1696-J914	Lever Detent
11	1694-J558	1696-J913	1696-J913	Lever Detent Spring
12	1694-C13	1696-C228	1696-C228	Transverse Shaft Lever
13	1694-B4	1696-B46A	1696-B46A	Head Cover
14	1694-J19	.....	.....	Shipper Fork — Transverse Shaft Lever
14	.....	1696-J227	1696-J227	Shipper Fork — R.H. Rear Lever
15	1694-J17	.....	.....	Shipper Fork — R.H. Front & Knee Lever
15	.....	1696-J226	1696-J226	Shipper Fork — R.H. Front Lever
16	1694-C12	1696-C232	1696-C232	R.H. Front Lever
17	1694-J23	1696-J243	1696-J243	R.H. Front Lever Detent Plate
18	1694-C10	.....	.....	Shift Lever Bracket
18	.....	1696-224	1696-224	Shift Lever Bracket — R.H.
19	1694-J557	1696-J914	1696-J914	Lever Detent
20	1694-J558	1696-J913	1696-J913	Lever Detent Spring

Section Through Headstock

(Repair Parts for Figure 15)

Index No.	Part Number (12' Lathe)	Part Number (14' Lathe)	Part Number (16' Lathe)	Part Name
1	1694-J847	1696-J1201	1696-J1201	Second Shaft End Plate Gasket
2	1694-C30	1696-C43A	1696-C43A	Second Shaft End Plate
3	1694-J532	1696-J551A	1696-J551A	Bearing Spacer — First Shaft
4	3205X1A (RA37)	3305X1A (RA207)	3305X1A (RA207)	New Departure Ball Bearing
5	1694-J531	1696-J550	1696-J550	Spacer — First Shaft
6	1694-B75	1696-B45	1696-B45	Main Drive Sheave
7	1694-B718A	1696-B789	1696-B789	Belt Guard
8	1694-C778	1696-C1057	1696-C1057	Clutch Pulley Sleeve Gasket
9	20207DBL3A (AC234)	20210DBL3A (AC211)	20210DBL3A (AC211)	New Departure Ball Bearing
10	1694-C31	1696-C40	1696-C40	Pulley Sleeve Plate — L.H.
11	1694-J545	1696-J545	1696-J545	Clutch Sleeve Oil Slinger
12	1694-C543A	1696-B573	1696-B573	Clutch Driving Sleeve
13	1694-B5	1696-B20A	1696-B20A	Clutch Pulley Sleeve
14	1694-J546A	1696-J547	1696-J547	Clutch Sleeve Spacer — Outer
15	1694-J547A	1696-J546	1696-J546	Clutch Sleeve Spacer — Inner
16	1694-C548A	1696-C559	1696-C559	Pulley Sleeve Plate — R.H.
17	93212 (RO1135)	94518 (RO354)	94518 (RO354)	Hyatt Needle Rollers
18	1694-J736	1696-J1054A	1696-J1054A	Clutch Shaft Oil Plug
19	1694-C544A	1696-C561B	1696-C561B	Clutch Shaft

(Continued on Following Page)



See SUPPLEMENTARY SECTION of catalog for latest design of machine units.

Figure 15 — Section Through Headstock (See Figure 14)

Section Through Headstock
(Continued)

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
20	1694-C553A	1696-C560C	1696-C560C	Twin Disc Double Clutch
21	1696-J1033	1696-J1033	1696-J1033	Clutch Adjusting Cover Plate Gasket
22	1696-C95	1696-C95	1696-C95	Clutch Adjusting Hand Hole Cover
23	1694-C549A	1696-C562A	1696-C562A	Clutch Brake Sleeve
24	GH10-25-2A	GH8-25-5A	GH8-25-5A	Clutch Shaft Gear
25	1694-J552	1696-J548A	1696-J548A	Clutch Bearing Spacer
26	1694-C550	1696-C563B	1696-C563B	Clutch Shaft Bearing Housing
27	5205X1217A (DR13)	5205X1217A (DR13)	5205X1217A (DR13)	New Departure Ball Bearing
28	1694-J566	1696-J632	1696-J632	Clutch Shaft Bearing Housing Dowel
29	1694-C789	1694-C789	1694-C789	Nichols Pump (C-16C)
30	3205X1A (RA37)	3305X1A (RA207)	3305X1A (RA207)	New Departure Ball Bearing
31	G7-28-7A	G6-28-9B	G6-28-9B	Third Shaft Gear — 28-Tooth
32	G7-38-3A	G6-38-6A	G6-38-6A	Third Shaft Gear — 38-Tooth

(Continued on Opposite Page)



Section Through Headstock

(Concluded)

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
33	3206X1A (RA72)	4607X1A (RA217)	4607X1A (RA217)	New Departure Ball Bearing
34	1694-J826	.....	.....	Third Shaft Bearing Collar
35	G7-34-5	G6-34-6A	G6-34-6A	Third Shaft Gear — 34-Tooth
36	G7-15-5	G6-15-13A	G6-15-13A	Third Shaft Gear — 15-Tooth
37	1694-C540A	1696-C565B	1696-C565B	Third Shaft
38	.....	1696-J1200	1696-J1200	Third Shaft Cap Gasket
39	.....	1696-C234A	1696-C234A	Third Shaft Bearing Retainer Cap
40	1694-J614A	.....	.....	Third Shaft Fitting Washer
41	3305X1A (RA207)	3405X1A (RA628)	3405X1A (RA628)	New Departure Ball Bearing
42	1694-B27	1696-B240A	1696-B240A	End Cover
43	5205X1217A (DR13)	5306X1217A (DR210)	5306X1217A (DR210)	New Departure Ball Bearing
44	1694-C29	1696-C58A	1696-C58A	Spindle Bearing Cap Spacer
45	NM-0214B-5045A(AC110)	NM-0218B-5045A(AC113)	NM-0218B-5045A(AC113)	New Departure Ball Bearing
46	1694-C28	1696-C44A	1696-C44A	Spindle Bearing Cap
47	1694-J534	1696-J553A	1696-J553A	First & Third Shaft Bearing Spacer
48	1694-J533	1696-J552A	1696-J552A	Bearing Spacer — R.H. — First Shaft
49	GH10-37-1	GH8-37-1A	GH8-37-1A	First Shaft Helical Gear
50	G10-21-21	G8-21-15A	G8-21-15A	First Shaft Gear — 21-Tooth
51	G10-29-17	G8-29-16A	G8-29-16A	First Shaft Gear — 29-Tooth
52	1694-C530	1696-C564A	1696-C564A	First Shaft
53	G10-25-40	G8-25-12A	G8-25-12A	First Shaft Gear — 25-Tooth
54	1694-B535	1696-B572B	1696-B572B	Second Shaft
55	3206X1A (RA72)	3306X1A (RA647)	3306X1A (RA647)	New Departure Ball Bearing
56	G10-47-19	G8-47-11A	G8-47-11A	Second Shaft Gear — 47-Tooth
57	G10-51-20	G8-51-11A	G8-51-11A	Second Shaft Gear — 51-Tooth
58	G10-43-15	G8-43-14A	G8-43-14A	Second Shaft Gear — 43-Tooth
59	3206X1A (RA72)	3207X1A (RA212)	3207X1A (RA212)	New Departure Ball Bearing
60	1694-J537	1696-J629	1696-J629	Snap Ring
61	1694-J536	1696-J628A	1696-J628A	Snap Ring — Second Shaft Gear
62	G7-26-6	G6-26-12B	G6-26-12B	Second Shaft Gear — 26-Tooth
63	1694-J538	1696-J925	1696-J925	Second Shaft Gear Key
64	G7-16-8	G6-16-12B	G6-16-12B	Second Shaft Gear — 16-Tooth
65	3205X1A (RA37)	3305X1A (RA207)	3305X1A (RA207)	New Departure Ball Bearing
66	1694-J539	.....	.....	Ball Bearing Spacer — Second and Fourth Shaft
66	.....	1696-J1011	1696-J1011	Second Shaft Bearing Cartridge
67	1694-C542	1696-C566B	1696-C566B	Fourth Shaft
68	5205X1217A (DR13)	3306X1A (RA647)	3306X1A (RA647)	New Departure Ball Bearing
69	G7-20-5	G6-20-20A	G6-20-20A	Fourth Shaft Gear — 20-Tooth
70	G7-39-6	G6-39-8A	G6-39-8A	Fourth Shaft Gear — 39-Tooth
71	G7-16-9	G6-16-11A	G6-16-11A	Fourth Shaft Gear — 16-Tooth
72	1694-C779	1696-C1013	1696-C1013	Cap Spacer Gasket
73	1694-J525A	1696-C568	1696-C568	Spacer — Spindle
74	G7-51-3A	G6-51-4	G6-51-4	Spindle Gear — 51-Tooth
75	1694-J526	1696-J558	1696-J558	Spindle Key — Long
76	G7-28-8A	G6-28-8A	G6-28-8A	Spindle Gear — 28-Tooth
77	1694-J794	1696-J1001	1696-J1001	Precision Lock Washer
78	NM-0214-13B-5045A(AC111)	NM-0216-B15-5045A(AC112)	NM-0216-B15-5045A(AC112)	New Departure Ball Bearing
79	.....	1696-J556	1696-J556	Spindle Center Bearing Key
80	1694-J529A	1696-C569	1696-C569	Spindle Center Spacer
81	1694-J527	1395-J1178	1395-J1178	Precision Lock Washer
82	1694-A501C	1696-A501	1696-A501	Spindle
83	1696-J557	1696-J557	1696-J557	Spindle Key — Short
84	G10-38-28A	G10-44-21	G10-44-21	Feed Spindle Gear
85	.1582 x 1.500	.1875 x 2.000	.1875 x 2.000	Torrington Needle Rollers
85	.1580 x 1.480	.1873 x 1.980	.1873 x 1.980	Torrington Needle Rollers
86	1694-C524A	1696-C571	1696-C571	Roller Bearing Outer Race
87	1694-C523A	1696-C570	1696-C570	Roller Bearing Inner Sleeve

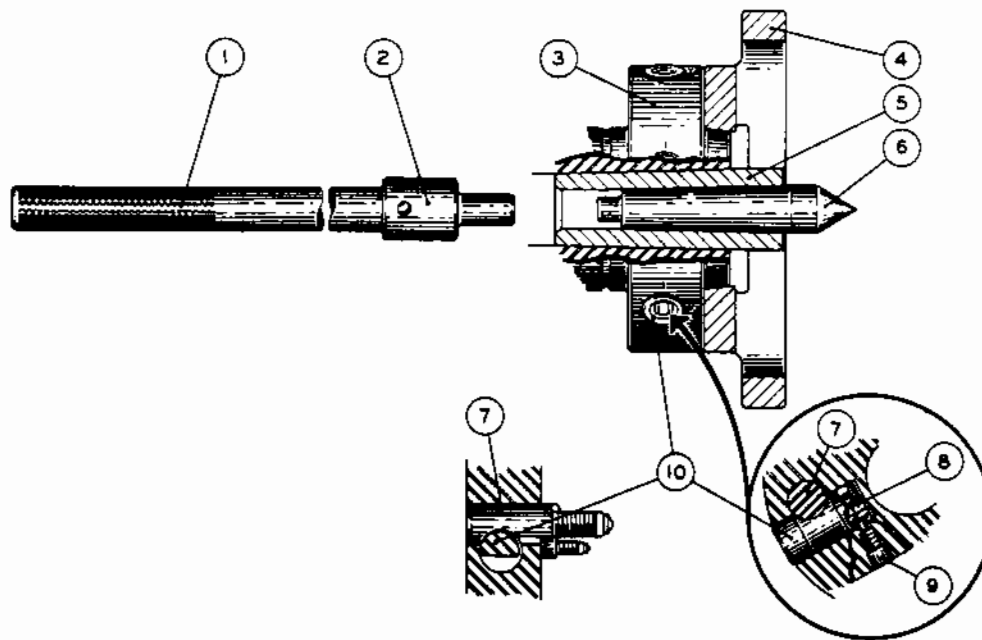


Figure 16 — Cam Lock Spindle Nose

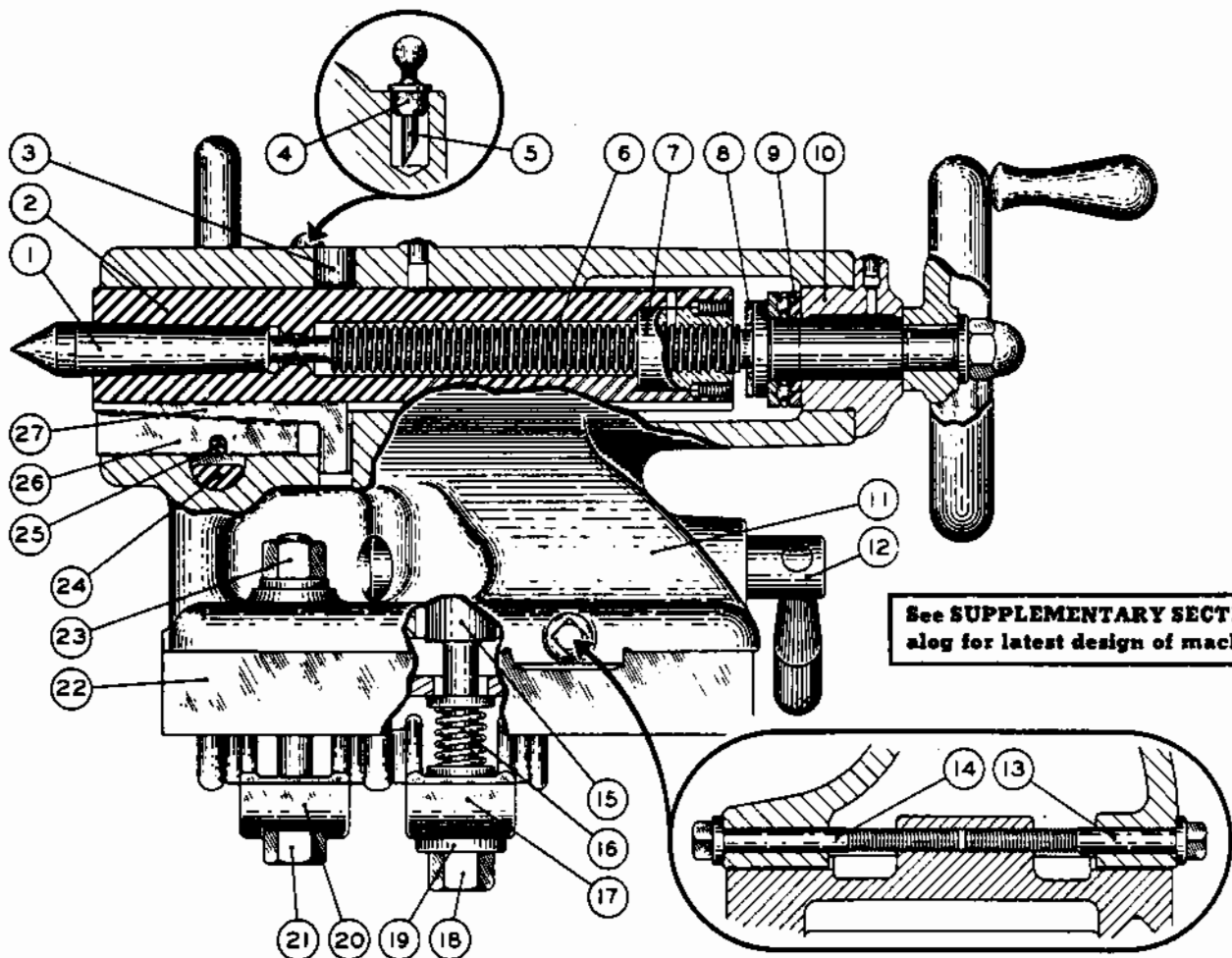


Figure 17 — Tailstock



Cam Lock Spindle Nose

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1395-J728	1396-C1288	1396-C1288	Center Knock-out Rod
2	1395-J729A	1696-J860	1696-J860	Knock-out Rod End
3	1694-A501C	1696-A501A	1696-A501A	Spindle
4	1694-B223	.....	.....	8" Diameter Face Plate
4	1694-B224	.....	.....	13" Diameter Face Plate
4	.....	1696-114	.....	14" Diameter Face Plate
4	.....	.....	1696-115	16" Diameter Face Plate
4	.....	1696-B113	1696-B113	9" Diameter Face Plate
5	1694-J793A	1696-J549	1696-J549	Headstock Center Adapter
6	1395-J503	1396-J1271	1396-J1271	Center
7	1696-J786	1696-J786	1696-J786	Face Plate Stud
8	1696-J865	1696-J865	1696-J865	Lock Cam Spring
9	1696-J788	1696-J788	1696-J788	Lock Cam Retaining Screw
10	1696-C787	1696-C787	1696-C787	Lock Cam

Tailstock

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1395-J503	1396-J1271	1396-J1271	Center
2	1694-B706	1696-B841	1696-B841	Tailstock Spindle
3	1694-J709	1696-J855	1696-J855	Tailstock Plug
4	1396-J910	1396-J910	1396-J910	Oil Top
5	1396-J911	1396-J911	1396-J911	Oil Quill
6	1694-C707	1696-C842A	1696-C842A	Tailstock Spindle Screw
7	1694-J136	1397-J98	1397-J98	Tailstock Spindle Nut
8	1694-J710	1696-J832	1696-J832	Spindle Stop Washer
9	B-11 (TH402)	B-11 (TH402)	B-11 (TH402)	Aetna Thrust Ball Bearing
10	1694-J137	1696-J199A	1696-J199A	Screw Bearing
11	1694-A133	1696-A123	1696-A125A	Tailstock
12	1694-C708	1696-J847	1696-J847	Tailstock Eccentric
13	1395-J513A	1696-J848	1696-J848	Adjusting Screw — Rear
14	1395-J512A	1696-J848	1696-J848	Adjusting Screw — Front
15	1395-J505	1696-C851	1696-C844	Tailstock Rear Anchor Bolt
16	1395-J506	1397-J598	1397-J598	Bolt Spring
17	1694-C139	1696-C122	1696-C198	Anchor — Rear
18	1395-J1151	1696-J846	1696-J846	Tailstock Anchor Bolt Nut
19	1395-J1152	.....	.....	Tailstock Bolt Nut Washer
20	1694-C138	1696-C121	1696-C197	Anchor — Front
21	1694-J711	1696-J853	1696-J845	Front Anchor Bolt
22	1694-B134	1696-B124	1696-B126	Tailstock Base
23	1395-J1151	1696-J846	1696-J846	Tailstock Anchor Bolt Nut
24	1395-J508A	1696-C854	1696-C843	Spindle Binder
25	1395-J509A	1397-J594A	1397-J594A	Spindle Binder Pin
26	1395-J507A	1696-J849	1696-J849	Spindle Wedge
27	1395-J956A	1696-J850	1696-J850	Spindle Key

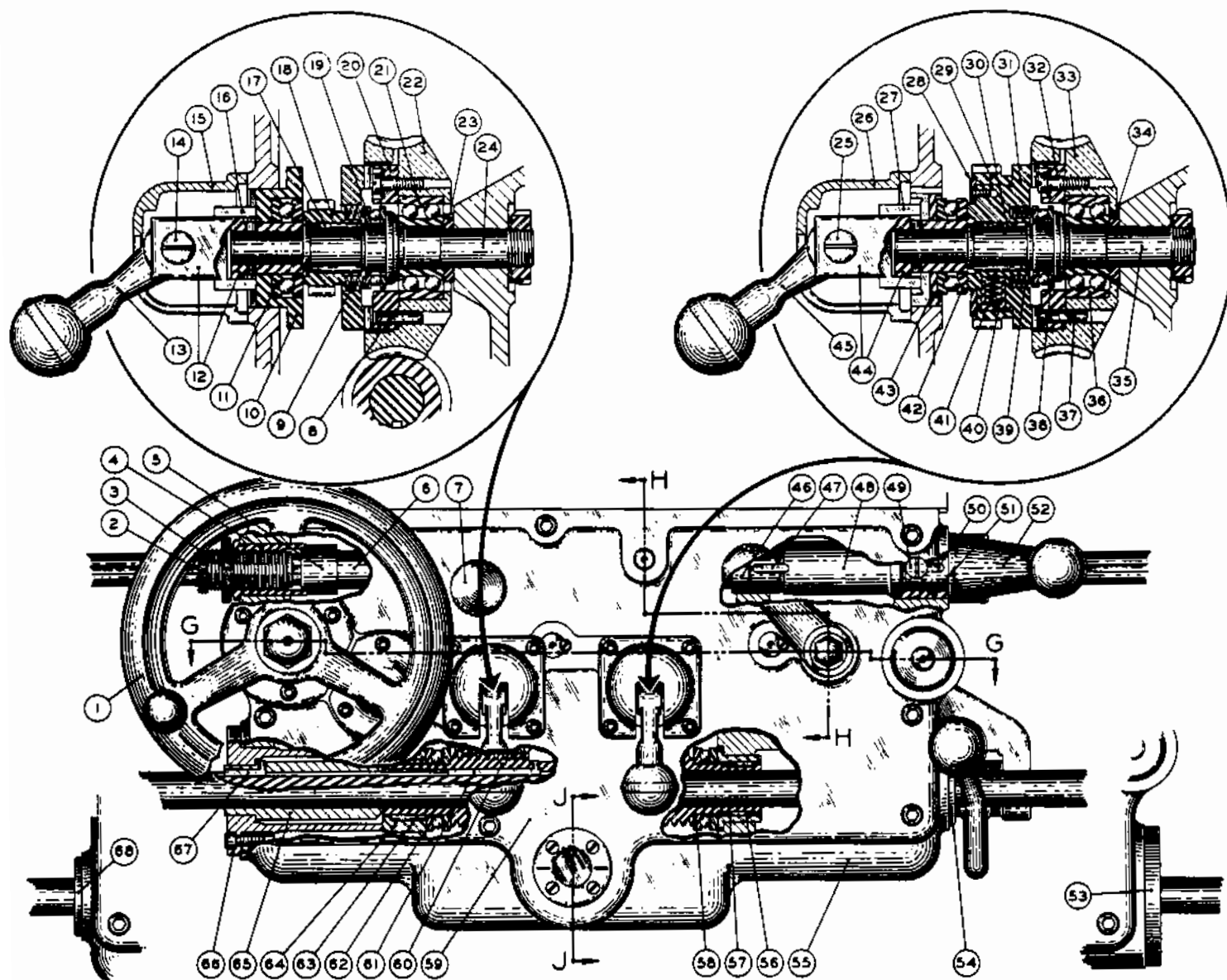


Figure 18 — Apron — Front View

Apron — Front View

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1386-2155	1386-2213	1386-2213	Handwheel
2	1696-J823	1696-J823	1696-J823	Adjustable Carriage Stop
3	1696-J824	1696-J824	1696-J824	Adjustable Carriage Stop Nut
4	1696-J825A	1696-J825A	1696-J825A	Adjustable Carriage Stop Sleeve
5	1696-J1037	1696-J1037	1696-J1037	Knock-Off Rod Sleeve Bushing — Long
6	1694-J581	1696-J1003	1696-J1003	Knock-Off Rod Tube
7	1696-J527	1696-J527	1696-J527	Oil Plug
8	1694-J594	1696-J1015	1696-J1015	Feed Clutch Pin
9	1694-J600	1696-J542	1696-J542	Feed Clutch Spring
10	1694-J592	1696-J539A	1696-J539A	Long. Feed Clutch Bearing Retainer
11	DL-25 (TH578)	W-1-1/8 (TH808)	W-1-1/8 (TH808)	Norma Hoffman Thrust Bearing
12	1694-J595	1696-J541A	1696-J541A	Feed Clutch Lever Yoke
13	1694-C56	1696-C30A	1696-C30A	Feed Clutch Lever

(Continued on Opposite Page)



Apron — Front View

(Concluded)

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
14	1694-J598	1696-J536A	1696-J536A	Feed Clutch Lever Eccentric
15	1694-C55	1696-C31	1696-C31	Feed Clutch Lever Cap
16	1694-J582	1696-J537	1696-J537	Long. Feed Clutch Butt Block
17	.0939 .975 .0936 x .955	.0939 .975 .0936 x .955	.0939 .975 .0936 x .955	Bantam Needle Rollers
18	G14-22-8A	G12-33-9B	G12-33-9B	Long. Feed Pinion
19	EW-7/8 (TH393)	EW-1-1/4 (TH408)	EW-1-1/4 (TH408)	Norma Hoffman Thrust Bearing
20	1694-C603A	1696-C543B	1696-C543B	Feed Clutch
21	5204X1A (DR228)	5205X1217A (DR13)	5205X1217A (DR13)	New Departure Ball Bearing
22	GW25-47-1	GW33-47-1	GW33-47-1	Long. Feed Worm Gear
23	1694-J597	1696-J544	1696-J544	Feed Worm Gear Bearing Spacer
24	1694-C602	1696-J535	1696-J535	Feed Worm Gear Shaft
25	1694-J598	1696-J536A	1696-J536A	Feed Clutch Lever Eccentric
26	1694-C55	1696-C31	1696-C31	Feed Clutch Lever Cap
27	1694-J582	1696-J537	1696-J537	Long. Feed Clutch Butt Block
28	1694-J829	1696-J1116	1696-J1116	Retaining Collar
29	G14-40-14A	G12-40-21B	G12-40-21B	Cross Feed Pinion
30	.0939 .975 .0936 x .955	.0939 .975 .0936 x .955	.0939 .975 .0936 x .955	Bantam Needle Rollers
31	1694-C828	1696-C1117	1696-C1117	Cross Feed Clutch
32	1694-C603A	1696-C543B	1696-C543B	Feed Clutch
33	GW25-47-2	GW33-47-2	GW33-47-2	Cross Feed Worm Gear
34	1694-J597	1696-J544	1696-J544	Feed Worm Gear Bearing Spacer
35	1694-C602	1696-J535	1696-J535	Feed Worm Gear Shaft
36	5204X1A (DR228)	5205X1217A (DR13)	5205X1217A (DR13)	New Departure Ball Bearing
37	1694-J594	1696-J1015	1696-J1015	Feed Clutch Pin
38	EW-7/8 (TH393)	EW-1-1/4 (TH408)	EW-1-1/4 (TH408)	Norma Hoffman Thrust Bearing
39	1694-J600	1696-J542	1696-J542	Feed Clutch Spring
40	1694-J827	1696-J1115	1696-J1115	Cross Feed Detent
41	1694-J830	1696-J1114	1696-J1114	Detent Spring
42	DL-25 (TH578)	W-1-1/8 (TH808)	W-1-1/8 (TH808)	Norma Hoffman Thrust Bearing
43	1694-J569	1696-J540	1696-J540	Cross Feed Clutch Bearing Retainer
44	1694-J595	1696-J541A	1696-J541A	Feed Clutch Lever Yoke
45	1694-C56	1696-C30A	1696-C30A	Feed Clutch Lever
46	1694-J580	1696-J1036	1696-J1036	Knock-Off Rod Sleeve Bushing — Short
47	1694-J578	1696-J506	1696-J506	Apron Reverse Sleeve Key
48	1694-C59	1696-C23A	1696-C23A	Apron Reverse Sleeve
49	1694-J577	1696-J508	1696-J508	Sleeve Retaining Screw
50	1694-J791	.....	.....	Apron Reverse Sleeve Key — Outer
50	.....	1696-J1210	1696-J1210	Apron Reverse Sleeve Key
51	1694-J574	1696-J507A	1696-J507A	Apron Reverse Sleeve Bushing
52	1694-C58	1696-C167A	1696-C167A	Apron Reverse Lever
53	.....	1696-C22	1696-C22	Feed Worm Sleeve
54	1694-J590	.....	.....	Feed Rod Bushing
55	1694-A50A	1696-A8C	1696-A8C	Apron
56	1694-J591	1696-J504	1696-J504	Longitudinal Feed Worm Bearing
57	.0939 .975 .0936 x .955	.0939 .975 .0936 x .955	.0939 .975 .0936 x .955	Bantam Needle Rollers
58	DL-35 (TH398)	W-1-5/8 (TH887)	W-1-5/8 (TH887)	Norma Hoffman Thrust Bearing
59	1694-A51	1696-A11A	1696-A11A	Apron Front Cover
60	GW25-6-2	GW33-12-2	GW33-12-2	Longitudinal and Cross Feed Worm
61	1694-J571	1696-J505	1696-J505	Feed Worm Key
62	DL-35 (TH398)	W-1-1/2 (TH400)	W-1-1/2 (TH400)	Norma Hoffman Thrust Bearing
63	.0939 .975 .0936 x .955	.0939 .975 .0936 x .955	.0939 .975 .0936 x .955	Bantam Needle Rollers
64	1694-J589	1696-J503	1696-J503	Cross Feed Worm Bearing
65	1694-J66	.....	.....	Drive Shaft Bushing
66	1694-C54A	.....	.....	Feed Worm Sleeve
67	1694-J572	.....	.....	Drive Shaft Bushing Key
68	.....	1696-J502	1696-J502	Feed Rod Bushing

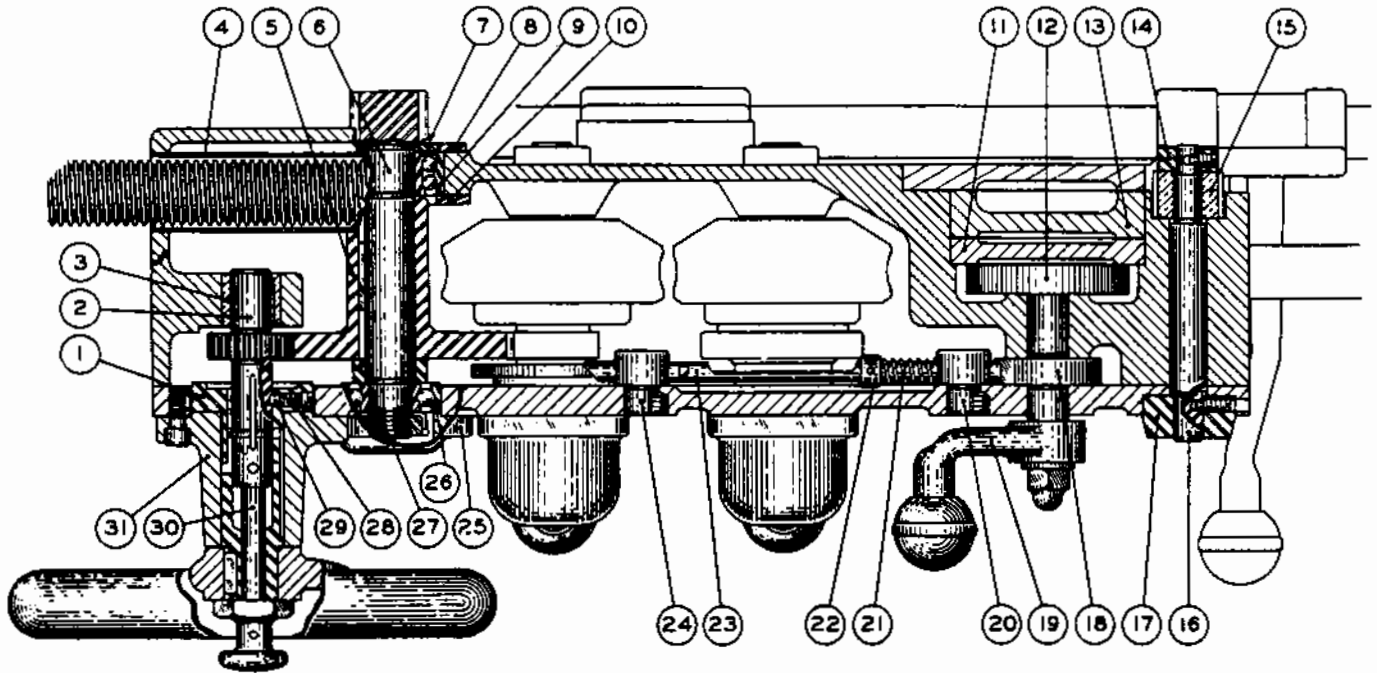


Figure 19 — Section G-G (See Figure 18)

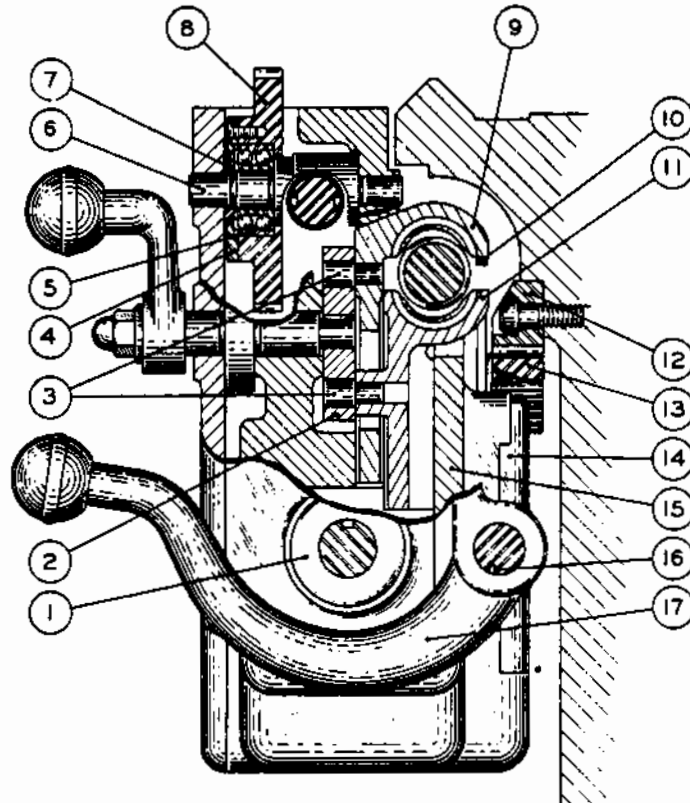


Figure 20 — Section H-H (See Figure 18)



Section G-G

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1694-C605	1696-C509	1696-C509	Handwheel Pinion Sleeve
2	G14-20-3	G12-19-7	G12-19-7	Handwheel Pinion
3	1694-J68	1696-J163	1696-J163	Handwheel Pinion Bushing
4	1694-J607	1696-J1004	1696-J1004	Lead Screw Tube
5	G14-62-4	G12-66-19B	G12-66-19B	Long. Feed Intermediate Gear
6	G10-11-3	G7-12-3	G7-12-3	Rack Pinion
7	1694-J587	.....	.....	Long. Feed Intermediate Gear Spacer — Inner
8	1694-J576	1696-J521	1696-J521	Rack Pinion Bearing Retainer — Outer
9	5505X1217C (DR232)	5506X1217CF (DR216)	5506X1217CF (DR216)	New Departure Ball Bearing
10	.....	1696-J520	1696-J520	Rack Pinion Bearing Retainer — Inner
11	1694-C62	1696-C28	1696-C28	Half Nut — Upper
12	1694-C61	1696-C158	1696-C158	Half Nut Cam
13	1694-C63	1696-C29	1696-C29	Half Nut — Lower
14	1696-J513	1696-J513	1696-J513	Indicator Pinion Collar
15	GH12-16-5	GH12-16-4	GH12-16-4	Indicator Pinion
16	1694-J573	1696-J512	1696-J512	Indicator Dial Shaft
17	1696-J511	1696-J511	1696-J511	Indicator Dial
18	1694-C604	1696-C525	1696-C525	Half Nut Cam Shaft
19	1694-C57	1696-C157A	1696-C157A	Half Nut Lever
20	1694-J585	1696-J529A	1696-J529A	Interlock Rod Support
21	1694-J601	1696-J538	1696-J538	Interlock Rod Spring
22	1696-J533	1696-J533	1696-J533	Interlock Rod Collar
23	1694-J593	1696-J528	1696-J528	Interlock Rod
24	1694-J585	1696-J529A	1696-J529A	Interlock Rod Support
25	1694-J67	1696-J26	1696-J26	Rack Pinion Cap
26	3204X1A (RA66)	3205X1A (RA37)	3205X1A (RA37)	New Departure Ball Bearing
27	1694-J586	.....	.....	Long. Feed Intermediate Gear Spacer — Outer
27	.....	1696-J519	1696-J519	Long. Feed Intermediate Gear Spacer
28	1696-J807	1696-J807	1696-J807	Handwheel Pinion Detent Spring
29	1696-J806	1696-J806	1696-J806	Handwheel Pinion Detent
30	1694-J579	1696-J510	1696-J510	Handwheel Pinion Extension
31	1694-C60	1696-C24	1696-C24	Handwheel Pinion Shaft Bushing

Section H-H

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1694-J590	.....	.....	Feed Rod Bushing
1	.....	1696-C22	1696-C22	Feed Worm Sleeve
2	1694-C61	1696-C158	1696-C158	Half Nut Cam
3	1694-J568	1696-J526	1696-J526	Half Nut Cam Pin
4	1694-J584	1696-J523	1696-J523	Intermediate Gear Bearing Retainer
5	5203X1217CF (DR17)	5204X1217CF (DR215)	5204X1217CF (DR215)	New Departure Ball Bearing
6	1694-J583	1696-J524	1696-J524	Cross Feed Intermediate Gear Stud
7	1694-J588	1696-J522	1696-J522	Cross Feed Intermediate Gear Spacer
8	G14-57-2	G12-60-35	G12-60-35	Cross Feed Intermediate Gear
9	1694-C62	1696-C28	1696-C28	Half Nut — Upper
10	1696-J875	1696-J875	1696-J875	Half Nut (Upper) Pin
11	1694-C63	1696-C29	1696-C29	Half Nut — Lower
12	G10-R-17	G7-R-2A	G7-R-2A	Rack (For 30" Capacity)
12	G10-R-19	G7-R-3A	G7-R-3A	Rack (For 54" Capacity)
12	.....	G7-R-4	G7-R-4	Rack (For 78" Capacity)
13	G10-11-3	G7-12-3	G7-12-3	Rack Pinion
14	1694-C64	1694-C64	1694-C64	Pump Retaining Plate
15	1694-B53	1696-B27A	1696-B27A	Half Nut Plate
16	1694-J570	1696-J515A	1696-J515A	Drive Clutch Lever Key
17	1694-C65	1696-C25A	1696-C25A	Drive Clutch Lever

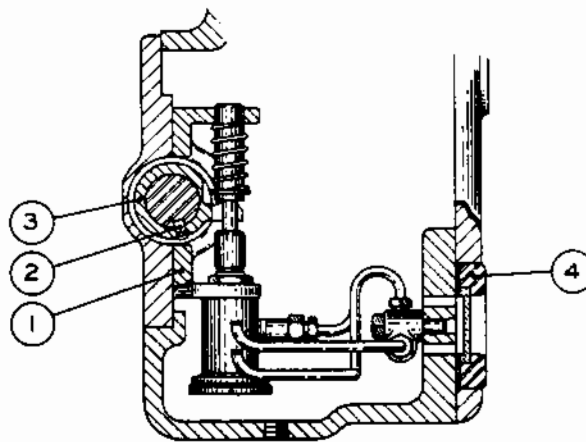


Figure 21 — Section J-J (See Figure 18)

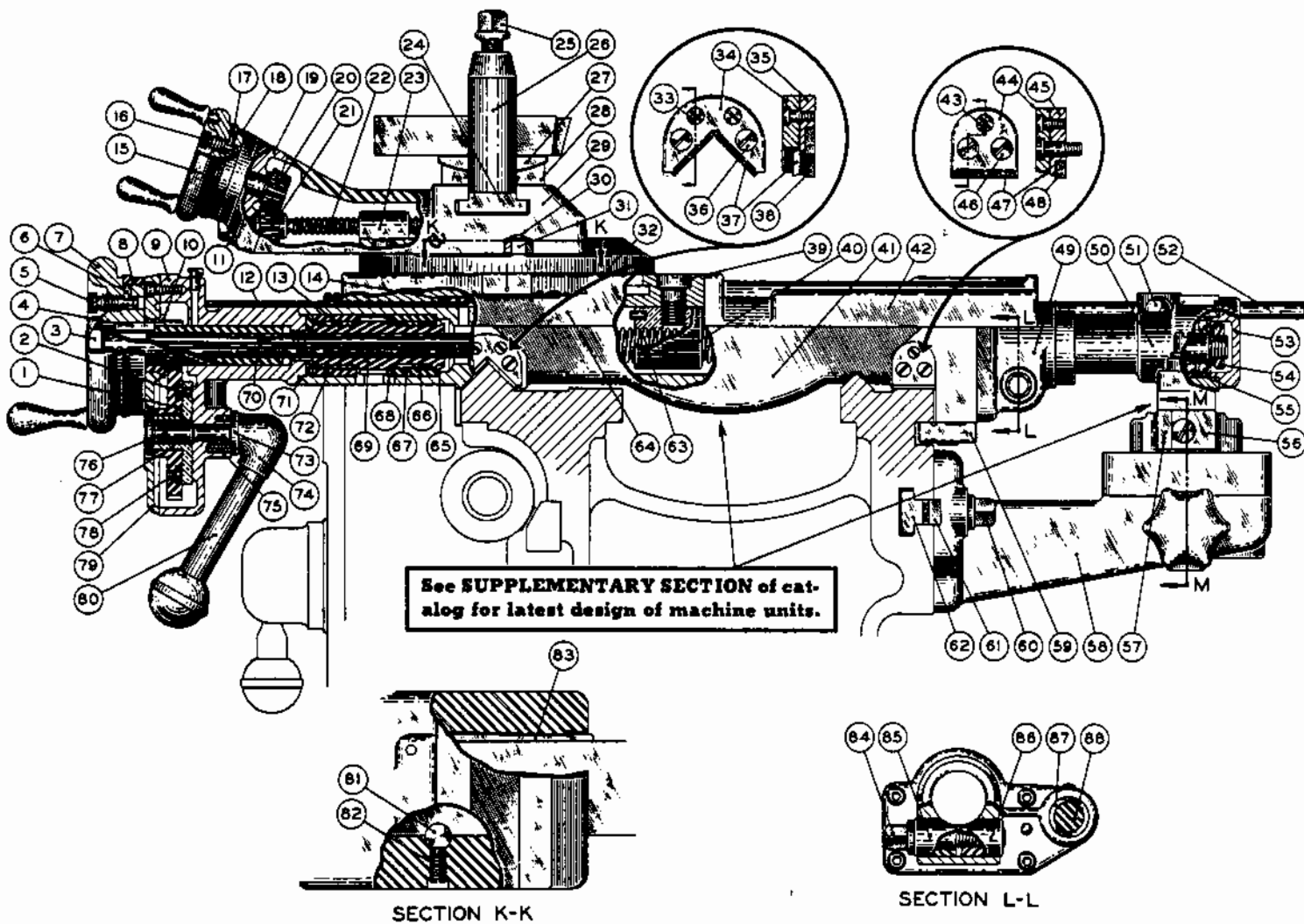


Figure 22 — Compound Rest, Carriage, End View of Taper Attachment, and Sections K-K and L-L



Section J-J

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1694-C606	1694-C606	1694-C606	Lubricating Pump
2	1696-J1002	1696-J1002	1696-J1002	Oil Pump Lever Key
3	1694-C70	1696-J298	1696-J298	Oil Pump Actuator
4	1694-J596	1696-J899	1696-J899	Oil Level Gage Clamp

Compound Rest, Carriage, End View of Taper Attachment, and Sections K-K and L-L

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	G18-60-4	G16-60-11	G16-60-11	Stop Gear
2	1694-J690	1696-J929	1696-J929	Stop Pin
3		1696-J662	1696-J662	Handwheel Sleeve Nut
4	1694-J691	1696-J931	1696-J931	Handwheel Sleeve Key
5	1694-J694	1696-J674	1696-J674	Graduated Ring Binder Screw
6	1696-J687	1696-J687	1696-J687	Graduated Ring Binder Pin
7	1694-C123	1696-J147A	1696-J147A	Cross Slide Handwheel
8	1694-J692	1696-J673	1696-J673	Cross Feed Graduated Ring
9	1694-B125	1696-B246A	1696-B246A	Cross Feed Bracket
10	1694-J116	1696-J248	1696-J248	Handwheel Sleeve Bushing
11		1696-J1208	1696-J1208	Tool Slide Screw Thrust Washer
12	1694-697	1696-646	1696-671	Chip Guard
	.0939 .975	.0939 .975	.0935 .975	
13	.0936 x .955	.0936 x .955	.0936 x .955	Torrington Needle Rollers
14	1694-698	1696-722	1696-756	Chip Guard Stop Block
15	1395-J20	1396-J87B	1396-J87B	Tool Post Slide Handwheel
16	1395-J842A	1395-J842A	1395-J842A	Graduated Ring Binder Screw
17	1395-J959	1397-J749	1397-J749	Graduated Ring Binder Pin
18	1395-J547	1396-J627	1396-J627	Tool Post Slide Graduated Ring
19	1694-C83	1696-C153A	1696-C153A	Slide Screw Bearing
20	GB18-18-2	GB16-18-3	GB16-18-3	Tool Post Slide Bevel Gear — Upper
21	GB18-18-3	GB16-18-2	GB16-18-2	Tool Post Slide Bevel Gear — Lower
22	1395-J546	1696-J644	1696-J644	Tool Post Slide Screw
23	1395-J19	1696-J154	1696-J154	Tool Post Slide Nut
24	1395-J543	1396-J947	1396-J947	Tool Post Plate
25	1395-J1004	1396-J1377	1396-J1377	Tool Binder Screw
26	1694-C622	1696-J641	1696-J641	Tool Post
27	1395-J544	1396-J948	1396-J948	Tool Post Adjusting Shoe
28	1694-J621	1396-J946A	1696-J642	Tool Post Adjusting Washer
29	1694-B619	1696-B906	1696-B906	Tool Post Slide
30	1694-J636	1696-J639	1696-J640	Tool Post Swivel T-Bolt
31	1395-J1049	1395-J1049	1395-J1049	Tool Post Swivel T-Bolt Nut
32	1694-C84	1696-B149	1696-B151	Tool Post Slide Swivel
33	1694-J839	1696-J1113	1696-J1113	Wiper Assembly Screw
34	1694-J189	1696-J319	1696-J319	Vee Scraper Clamp
35	1694-J190	1696-J141A	1696-J141A	Vee Scraper Back Plate
36	1696-J1108	1696-J1108	1696-J1108	Wiper Screw
37	1694-833	1696-1102	1696-1102	Vee Scraper — L.H.
37	1694-834	1696-1103	1696-1103	Vee Scraper — R.H.
38	1694-J837	1696-J1092	1696-J1092	Vee Wiper Felt
39	1694-J671	1696-J656	1696-J659	Carriage Nut Screw
40	1694-J122	1696-J148	1696-J148	Carriage Nut
41	1694-A114A	1696-A87A	1696-A88A	Carriage
42	1694-B129A	1696-B99B	1696-B100B	Carriage Chip Guard
43	1694-J839	1696-J1113	1696-J1113	Wiper Assembly Screw
44	1694-J191	1696-J320	1696-J320	Rear Scraper Clamp
45	1694-J192	1696-J142A	1696-J142A	Rear Wiper Back Plate
46	1696-J1108	1696-J1108	1696-J1108	Wiper Screw

(Continued on Following Page)

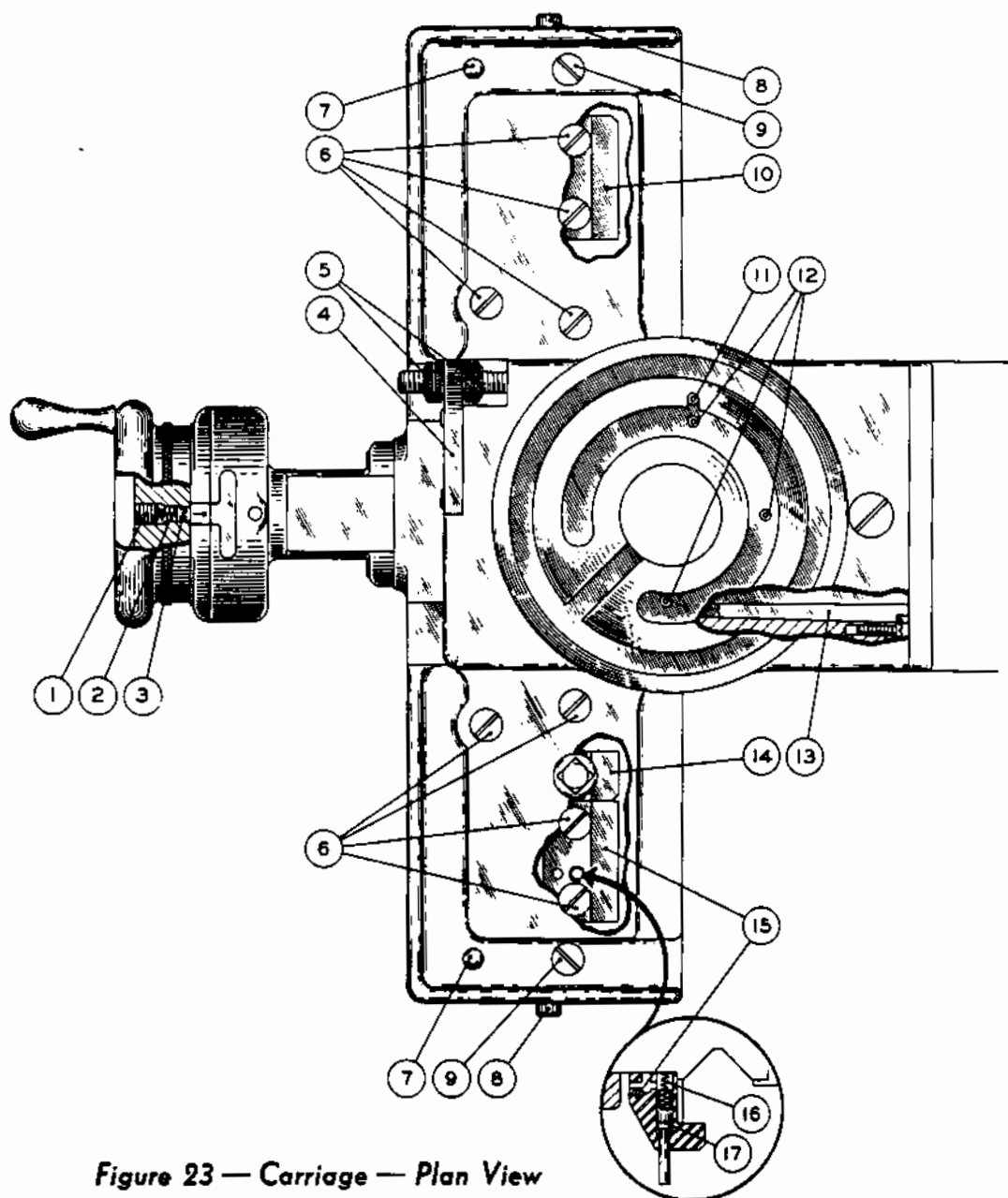


Figure 23 — Carriage — Plan View

Compound Rest, Carriage, End View of Taper Attachment, and Sections K-K and L-L

(Continued)

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
47	1694-J835	1696-J1089	1696-J1089	Rear Scraper
48	1694-J836	1696-J1088	1696-J1088	Rear Wiper Felt
49	1694-B128	1696-B135	1696-B135	Cross Feed Screw Bracket
50	1694-B127A	1696-B136B	1696-B136B	Cross Feed Screw Sleeve
51	1694-J676	1694-J676	1694-J676	Cross Slide Stop Rod Binder
52	1694-J682	1696-1062	1696-1063	Cross Slide Stop Rod
53	1694-J119	1696-J137	1696-J137	Sleeve Cap
54	1694-J685A	1696-J1132	1696-J1132	Cross Slide Screw Lock Nut
55	5503T1217 CF (DR233)	5504T1217 CF (DR214)	5504T1217 CF (DR214)	New Departure Ball Bearing

(Continued on Opposite Page)



Compound Rest, Carriage, End View of Taper Attachment, and Sections K-K and L-L

(Concluded)

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
56	1694-J130	1696-J138	1696-J138	Taper Bar Shoe
57	1694-J131	1696-J139	1696-J139	Taper Bar Shoe Gib
58	1694-A132	1696-A140	1696-A140	Taper Bar Bracket
59	1694-J677	1696-J636	1696-J636	Rear Strap
60	1396-J1502	1396-J1502	1396-J1502	Bracket Screw
61	1395-J632	.....	.....	Taper Bar Bracket Key
62	1396-J1501	1396-J1501	1396-J1501	Bracket T-Nut
63	1694-C695	1696-C637	1696-C638	Cross Feed Screw
64	1694-B126	1696-B96A	1696-B97A	Tool Post Cross Slide
65	1694-J678	1696-J921	1696-J921	Feed Screw Pinion Snap Ring
66	.0939 x .975 .0936 x .955	.0939 x .975 .0936 x .955	.0939 x .975 .0936 x .955	Torrington Needle Rollers
67	1694-J679	1696-J676	1696-J676	Pinion Bearing Sleeve — Inner
68	1694-J681	1696-J677	1696-J677	Pinion Thrust Washer
69	G14-19-1	G12-18-18A	G12-18-18A	Cross Feed Screw Pinion
70	G18-21-1	G16-21-1	G16-21-1	Handwheel Sleeve
71	.....	.....	1696-J672	Quick Withdrawing Bracket Spacer
72	1694-J795	1696-J675	1696-J675	Pinion Bearing Sleeve — Outer
73	1694-J687	1696-J933	1696-J933	Stop Binder Stud Washer
74	1694-J118	1696-J244	1696-J244	Stop Binder Elbow
75	1696-J930	1696-J930	1696-J930	Stop Washer Spring
76	1694-J688	1696-J932	1696-J932	Stop Binder Stud
77	1694-J117	1696-J247	1696-J247	Stop Disc
78	1694-J690	1696-J928	1696-J928	Stop Pin
79	1694-C124	1696-C245	1696-C245	Cross Feed Bracket Cover
80	1694-J686	1696-J934	1696-J934	Stop Binder Handle
81	1395-J548	1696-J916	1696-J916	Tool Post Slide Binder
82	.....	1696-J1233	1696-J1233	Tool Slide Binding Screw
83	1395-J549A	1696-J643	1696-J643	Tool Post Slide Gib
84	.....	1696-J663A	1696-J663A	Sleeve Binder
85	1694-699	1696-664	1696-664	Sleeve Binder Bushing — L.H.
86	1694-700	1696-665	1696-665	Sleeve Binder Bushing — R.H.
87	1694-J701	1696-J661	1696-J661	Guide Bushing
88	1694-J702	1696-J660A	1696-J660A	Sleeve Guide Bar

Carriage — Plan View

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1694-J864	1696-J1230	1696-J1230	Adjusting Screw
2	1696-J1231	1696-J1231	1696-J1231	Spring
3	1696-J1232	1696-J1232	1696-J1232	Friction Plug
4	1694-J684	1696-J1064	1696-J1065	Stop Rod Butt Plate
5	1694-J683	1396-J638	1396-J638	Cross Slide Stop Nut
6	1694-J672	1696-J634	1696-J634	Apron and Carriage Strap Fastening Screw
7	1694-J728	1696-J1050	1696-J1050	Carriage Dowel
8	1694-J721	1696-J796	1696-J796	Micrometer Butt Pin
9	1694-J787	1696-J635	1696-J635	Apron Screw
10	1694-J673	1696-J918	1696-J918	Front Strap — L.H.
11	1694-J788	1696-J1130	1696-J1131	Cross Slide Drip Plug — Long
12	1694-J715	1694-J715	1694-J715	Cross Slide Drip Plugs
13	1694-C696	1696-J670	1696-J670	Tool Post Cross Slide Gib
14	1694-J674	1696-J658	1696-J658	Carriage Clamp
15	1694-J675	1696-C657A	1696-C657A	Front Strap — R.H.
16	1694-J714	1696-J1035	1696-J1035	Half Nut Oil Tube Spring
17	1694-J713	1696-J1007	1696-J1007	Half Nut Oil Tube



See SUPPLEMENTARY SECTION of catalog for latest design of machine units.

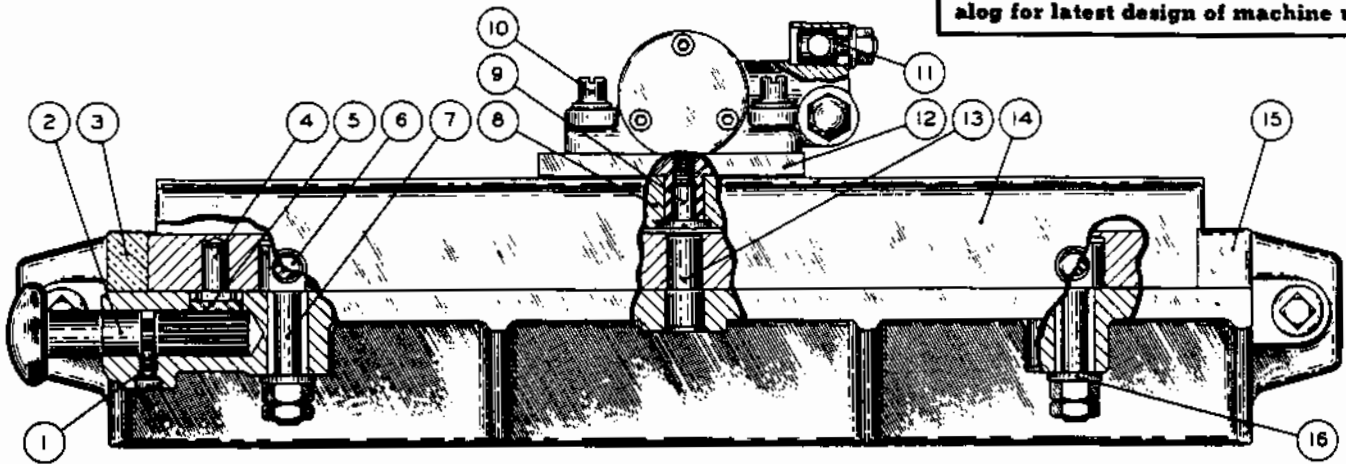


Figure 24 — Section M-M (See Figure 22)

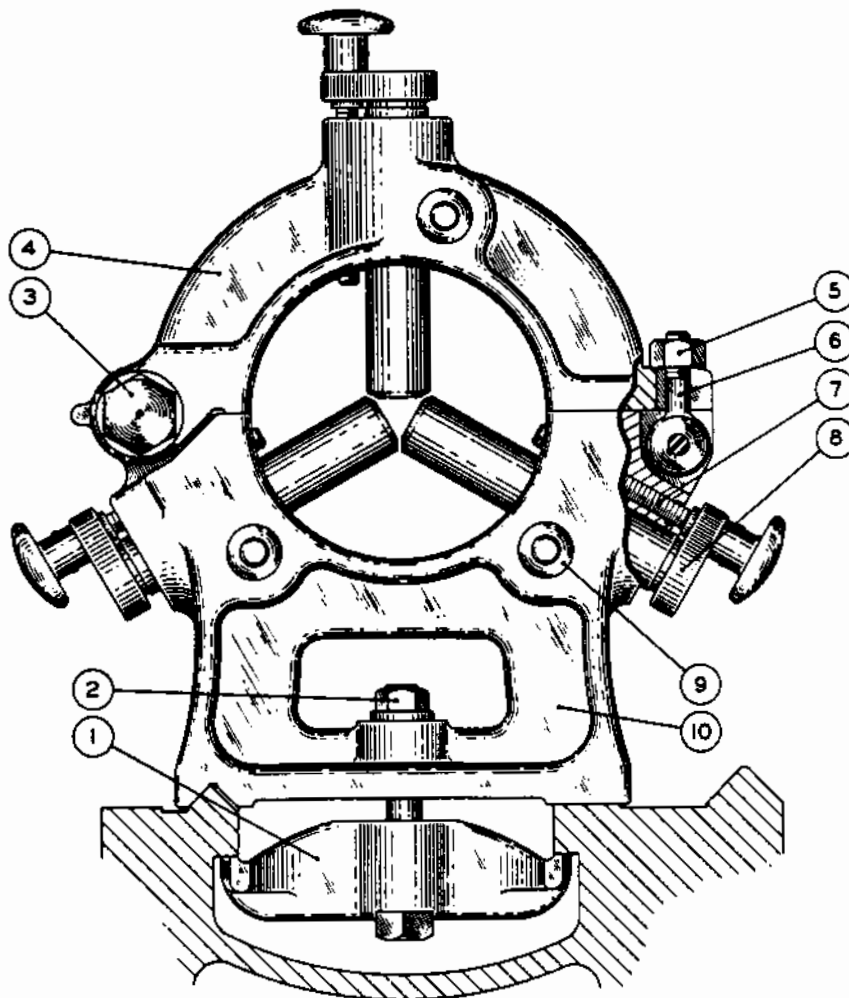


Figure 25 — Steady Rest



Section M-M

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1396-J1325	1396-J1325	1396-J1325	Taper Adjusting Pinion Screw
2	1395-J635	1396-J516	1396-J516	Taper Adjusting Pinion
3	1395-J97	1396-J238A	1396-J238A	Graduated Block (Degrees of Included Angle)
4	1395-J636A	1396-J518	1396-J518	Rack Stud
5	1395-J634	1396-J517	1396-J517	Taper Adjusting Rack
6	1395-J639	1396-J520	1396-J520	Clamp Eccentric
7	1395-J638	1396-J519	1396-J519	Clamp
8	1694-J130	1696-J138	1696-J138	Taper Bar Shoe
9	1694-J705	1696-J781	1696-J781	Shoe Swivel Screw
10	1694-J704	1696-J780	1696-J780	Swivel Plate Binder Screw
11	1694-J676	1694-J676	1694-J676	Cross Slide Stop Rod Binder
12	1694-J703	1696-J779	1696-J779	Swivel Plate
13	1395-J637	1396-J522	1396-J522	Fulcrum Pin
14	1395-C92A	1396-C8	1396-C8	Taper Bar
15	1395-J96	1396-J239A	1396-J239A	Graduated Block (Taper Inches per Foot)
16	.....	1396-J521	1396-J521	Washer

Steady Rest

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1694-J147	1696-C144	1696-C156	Steady Rest Anchor
2	1395-J602	.....	.....	Anchor Bolt Nut
3	1395-J599	1396-J749	1396-J749	Steady Rest Hinge Bolt
4	1395-C56	1396-B169	1396-B169	Steady Rest Top
5	1395-J597	1396-J1405	1396-J1405	Steady Rest Latch Bolt Nut
6	1395-J600	1396-J750	1396-J750	Latch Bolt
7	1395-J598B	1396-J747A	1396-J747A	Steady Rest Jaw Adjusting Screw
8	1395-J58B	1696-J159	1696-J159	Steady Rest Jaw
9	1395-J601	1396-J1105	1396-J1105	Jaw Binder Nut
10	1694-B146	1696-B143	1696-B155	Steady Rest Base

Oversize Steady Rest

(Refer to Index Numbers in Figure 25)

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1694-J147	1696-C144	1696-C156	Steady Rest Anchor
2	1395-J602	.....	.....	Anchor Bolt Nut
3	1395-J599	1396-J749	1396-J749	Steady Rest Hinge Bolt
4	1395-C201	1396-B326	1396-B326	Steady Rest Top
5	1395-J597	1396-J1405	1396-J1405	Steady Rest Latch Bolt Nut
6	1395-J600	1396-J750	1396-J750	Latch Bolt
7	1395-J598B	1396-J747A	1396-J747A	Steady Rest Jaw Adjusting Screw
8	1395-J58B	1696-J159	1696-J159	Steady Rest Jaw
9	1395-J601	1396-J1105	1396-J1105	Jaw Binder Nut
10	1694-B161	1696-B203	1696-B204	Steady Rest Base



See SUPPLEMENTARY SECTION of catalog for latest design of machine units.

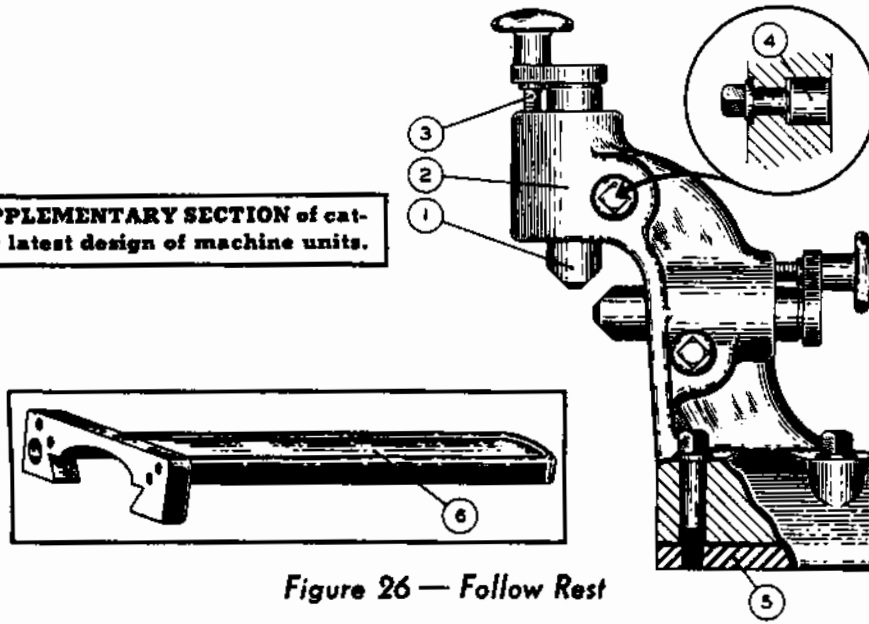


Figure 26 — Follow Rest

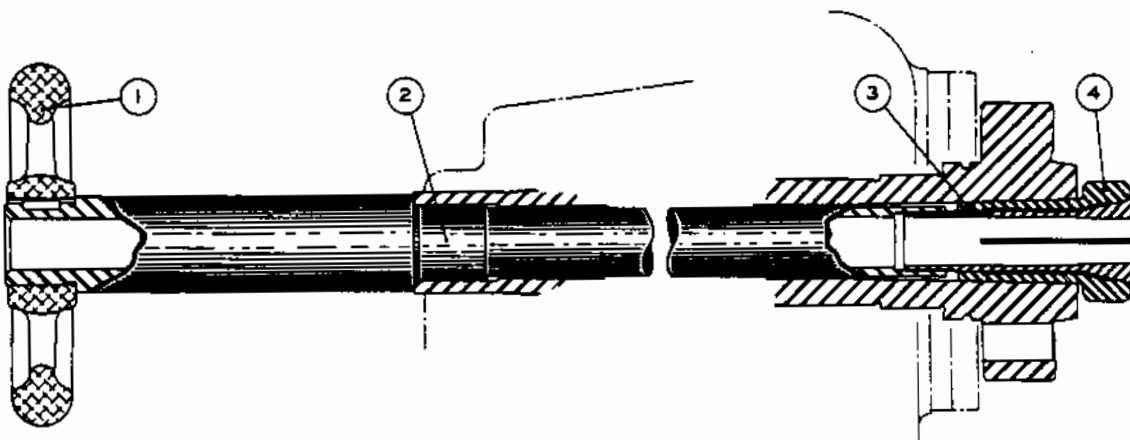


Figure 27 — Drawback Collet Attachment

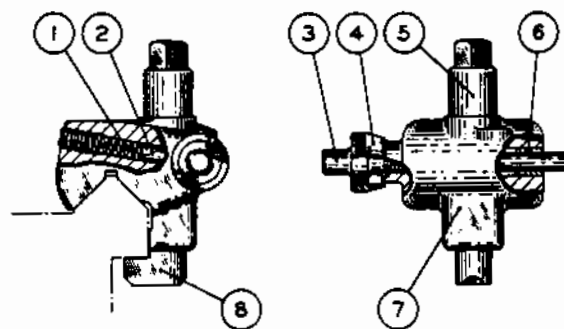


Figure 28 — Micrometer Carriage Stop



Follow Rest

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1395-J60	1396-J173A	1396-J173A	Follow Rest Jaw
2	1694-A144	1696-B161	1696-B162	Follow Rest
3	1395-J603C	1396-J751A	1396-J751A	Jaw Adjusting Screw
4	1395-J601	1396-J1105	1396-J1105	Jaw Binder Nut
5	1395-J604	1696-J816	1696-J816	Follow Rest Gib
6	1694-C145	1696-C164	1696-C165	Carriage Chip Guard

Drawback Collet Attachment

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1694-C187	1396-C358	1396-C358	Drawback Handwheel
2	1694-C773A	1696-C802	1696-C802	Collet Drawback Sleeve
3	1396-J1181	1396-J1181	1396-J1181	Taper Collet Key
4	1694-J772B	1696-J801	1696-J801	Collet Adapter

Micrometer Carriage Stop

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1397-J745	1397-J745	1397-J745	Stop Screw Spring
2	1694-J723	1696-J798	1696-J798	Stop Screw Binder Shoe
3	1395-J880A	1397-J825A	1397-J825A	Carriage Stop Screw
4	1395-J1086	1395-J1086	1395-J1086	Carriage Stop Screw Index
5	1694-J724	1397-J746	1397-J746	Hook Bolt Nut
6	1696-J306	1696-J306	1696-J306	Carriage Stop Screw Bushing
7	1694-C154	1696-C120	1696-C120	Stop Block
8	1694-J722	1696-J797	1696-J797	Stop Block Hook Bolt



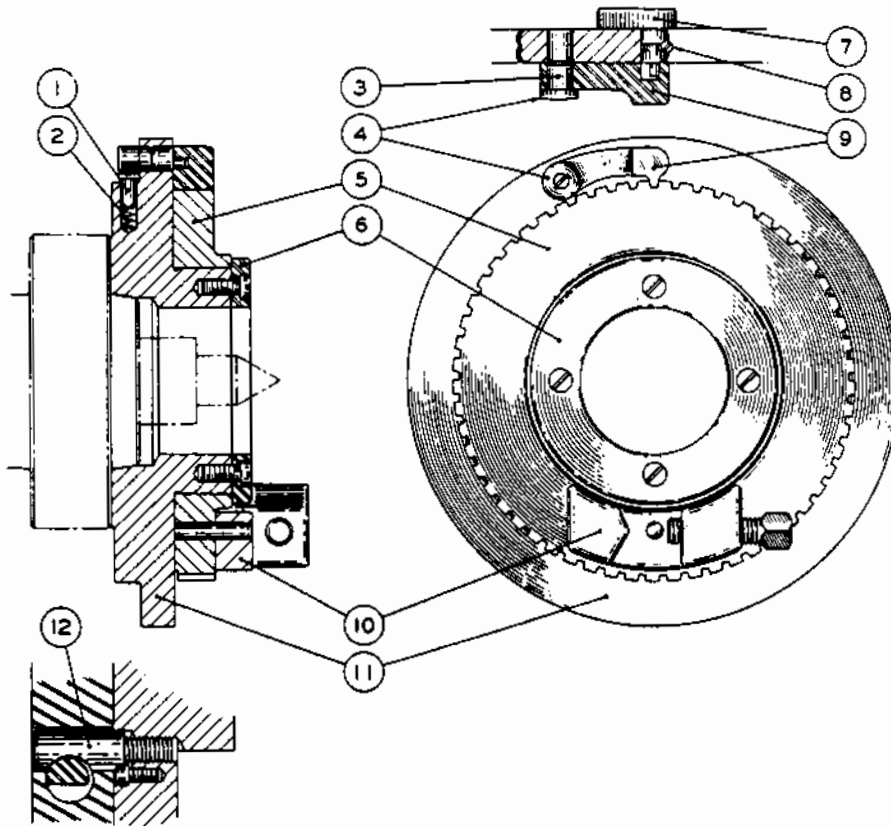


Figure 29 — Multiple Indexing Face Plate

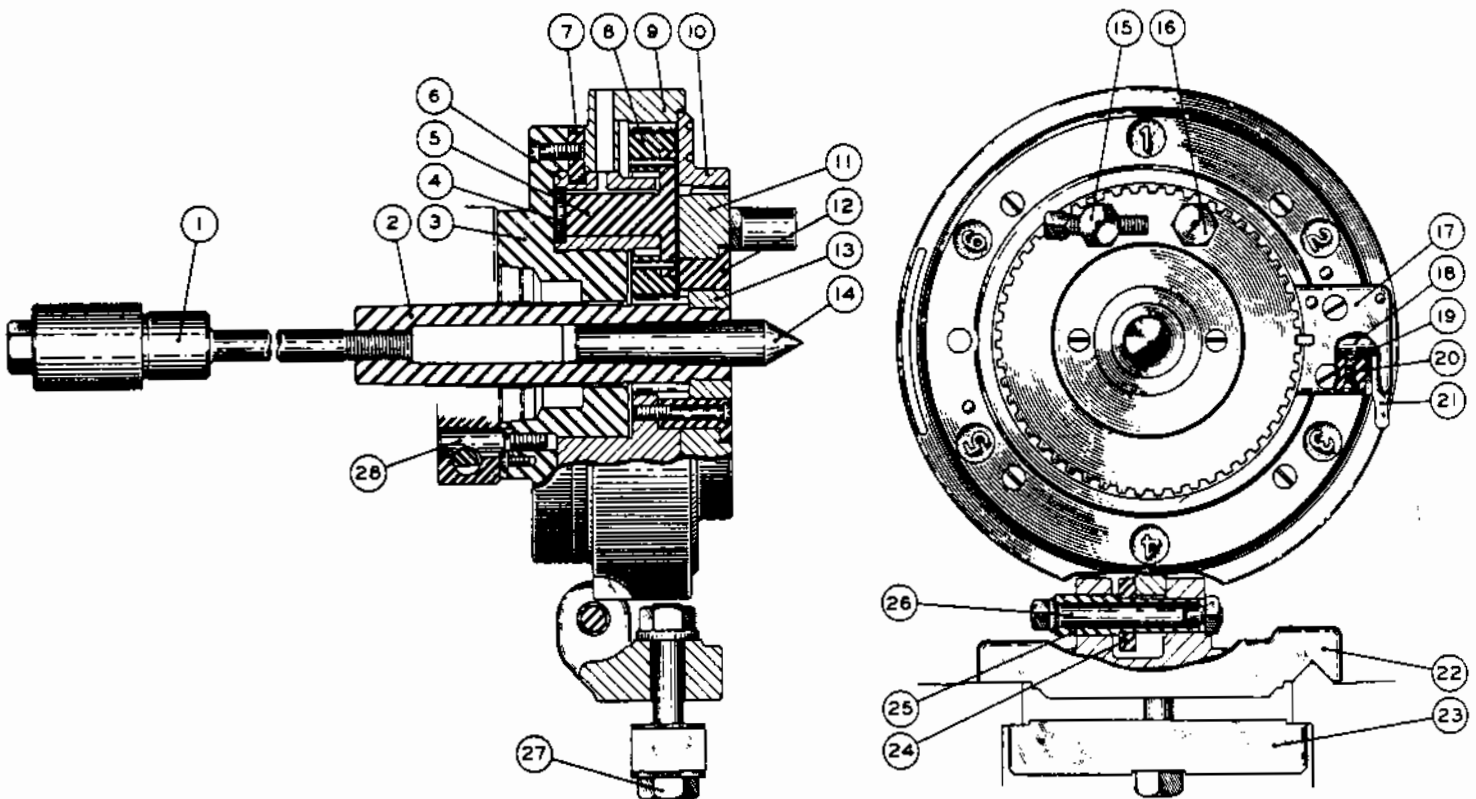


Figure 30 — Speed Reducer



Multiple Indexing Face Plate

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1105-964	1105-964	1105-964	Lock Lever Detent Plunger
2	1105-966	1105-966	1105-966	Detent Plunger Spring
3	1105-759	1105-759	1105-759	Spindle Index Pawl Stud
4	1105-588	1105-588	1105-588	Spindle Index Pawl Stud Washer
5	1137-222	1137-222	1137-222	Index Ring
6	1396-J759	1396-J759	1396-J759	Index Ring Holding Collar
7	1105-585	1105-585	1105-585	Index Pawl Lock Lever
8	1105-589	1105-589	1105-589	Index Pawl Lock Lever Retaining Screw
9	1105-963	1105-963	1105-963	Spindle Index Pawl
10	1137-230	1137-230	1137-230	Index Ring Driver
11	1694-B231	1696-B166	1696-B166	Index Face Plate
12	1696-J1023	1696-J786	1696-J786	Face Plate Stud

Speed Reducer

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1694-J726B	1696-C817A	1696-C817A	Drawback Rod
2	G10-18-35	G8-16-29	G8-16-29	Adapter Pinion
3	1694-C1026	1696-B818	1696-B818	Spider Support Plate
4	1395-J792	1396-J1159	1396-J1159	Gear Retaining Washer
5	1395-J1087	1396-J1467	1396-J1467	Spider Driving Gear Shank
6	1395-C233A	1396-C397A	1396-C397A	Planetary Gear Spider
7	1395-C791	1396-C1157A	1396-C1157A	Spider Retainer
8	G10-36-17A	G8-31-3A	G8-31-3A	Spider Driving Gear
9	G10-90-7	G8-80-2A	G8-80-2A	Stationary Internal Gear
10	1395-C235	1396-C399A	1396-C399A	Index Flange
11	1395-C234	1396-C398	1396-C398	Index Ring
12	1395-J793A	1396-J1160A	1396-J1160A	Index Ring Bearing
13	1395-J237	1396-J401	1396-J401	Adapter Pinion Collar
14	1395-J503	1396-J1271	1396-J1271	Center
15	1395-J795	1396-J1162	1396-J1162	Binder Stud
16	1395-J794	1396-J1161	1396-J1161	Driving Stud
17	1395-J797	1396-J1164	1396-J1164	Index Block
18	1395-J798	1396-J1165	1396-J1165	Index Pin
19	1395-J800	1396-J1167	1396-J1167	Detent Plunger
20	1396-J1168	1396-J1168	1396-J1168	Detent Plunger Spring
21	1395-J799	1396-J1166	1396-J1166	Index Pin Lever
22	1694-C155	1696-C190	1696-C191	Bed Clamp
23	1694-J725	1696-C804	1696-C805	Strap
24	1396-J1223	1396-J1223	1396-J1223	Locating Bar Binding Collar
25	1395-J801	1396-J1221	1396-J1221	Locating Bar Sleeve
26	1395-J802	1396-J1222	1396-J1222	Locating Bar Bolt
27	.....	1696-J819	1696-J819	Strap Bolt
28	1696-J1023	1696-J1023	1696-J1023	Face Plate Stud
*	G16-36-17	G16-36-13	G16-36-13	36-Tooth Change Gear
*	G16-48-16	G16-48-14	G16-48-14	48-Tooth Change Gear
*	G16-54-8	.....	.....	54-Tooth Change Gear
*	.....	G16-108-5	G16-108-5	108-Tooth Change Gear

*Special gear installed in gear box to cut leads shown in Speed Reducer Thread Index Chart, found in Operator's Instruction Book.

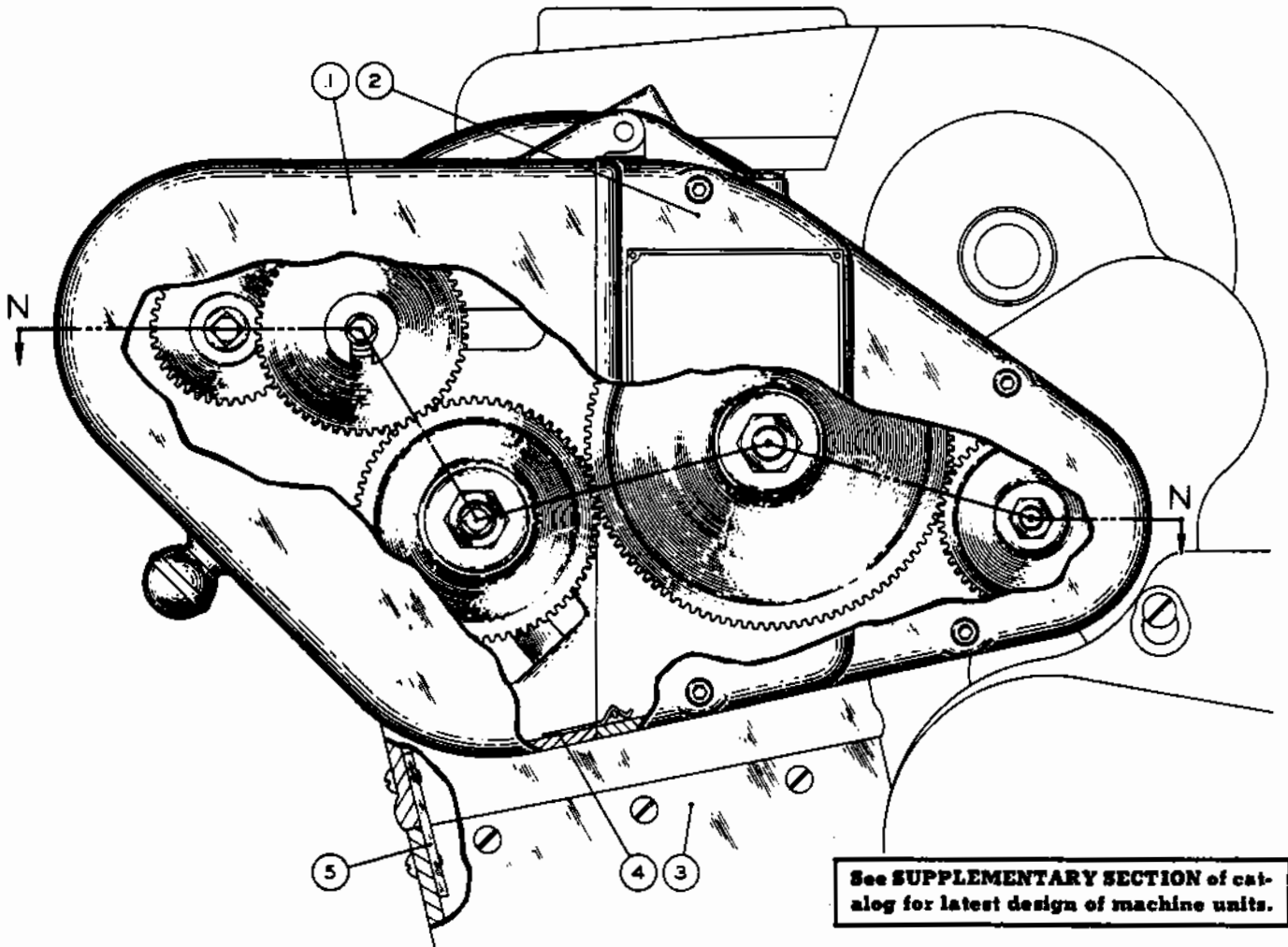


Figure 31 — Relieving Attachment Drive





Relieving Attachment Drive

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1694-B174	1696-B263	1696-B263	Change Gear Cover
2	1694-B173	1696-A262	1696-A262	Drive Bracket Cover — Fixed
3	1694-B769	1696-B988	1696-B988	Belt Guard
4	1696-J986	1696-J986	1696-J986	Spring Clip
5	1694-J754	.....	.....	Belt Guard Strap

Section N-N

(Repair Parts for Figure 32)

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1694-J756	1696-J982	1696-J982	Drive Shaft Screw
2	1694-J758	.....	.....	Drive Shaft Washer
2	.....	1696-J972	1696-J972	Change Gear "U" Washer
3	1694-J759	1696-J891	1696-J891	Drive Shaft Key
4	1694-C768	1696-C980	1696-C980	Drive Shaft
5	2 1/4 O.D. X 1 1/4 L.D. X 3/4 W.	2 1/4 O.D. X 1 1/4 L.D. X 3/4 W.	2 1/4 O.D. X 1 1/4 L.D. X 3/4 W.	Garlock Closure Seal
6	MM9506DB (AC391)	MM9506DB (AC391)	MM9506DB (AC391)	Fafnir Ball Bearing
7	1696-J977	1696-J977	1696-J977	Ball Bearing Spacer — Outer
8	1696-J979	1696-J979	1696-J979	Ball Bearing Spacer — Inner
9	1696-C277	1696-C277	1696-C277	Drive Shaft Bearing Housing
10	MM9506DB (AC391)	MM9506DB (AC391)	MM9506DB (AC391)	Fafnir Ball Bearing
11	1696-J978	1696-J978	1696-J978	W-06 Lock Washer (Altered)
12	2 1/4 O.D. X 1 L.D. X 3/4 W.	2 1/4 O.D. X 1 L.D. X 3/4 W.	2 1/4 O.D. X 1 L.D. X 3/4 W.	Garlock Closure Seal
13	1396-J1297A	1396-J1297A	1396-J1297A	Universal Joint Screw
14	1395-J1009	1395-J1009	1395-J1009	Telescopic Sleeve Bushing
15	1694-C175	1696-C280	1696-C280	Telescopic Sleeve
16	1395-J990	1395-J990	1395-J990	Universal Joint — L.H.
17	1694-J753	1696-J985	1696-J985	Telescopic Drive Shaft
18	1395-J1012	1395-J1012	1395-J1012	Drive Roll Stud
19	1395-J1011	1395-J1011	1395-J1011	Drive Roll
20	1395-J1010	1395-J1010	1395-J1010	Telescopic Sleeve Bushing Pin
21	1395-J989	1395-J989	1395-J989	Universal Joint — R.H.
22	1696-C278	1696-C278	1696-C278	Drive Shaft Bearing Cap
23	1694-J760	.....	.....	Tee Slot Nut — Upper
23	.....	1696-J970	1696-J970	Tee Slot Nut
24	1694-J761	.....	.....	Tee Slot Nut — Lower
24	.....	1696-J970	1696-J970	Tee Slot Nut

(Continued on Page 39)

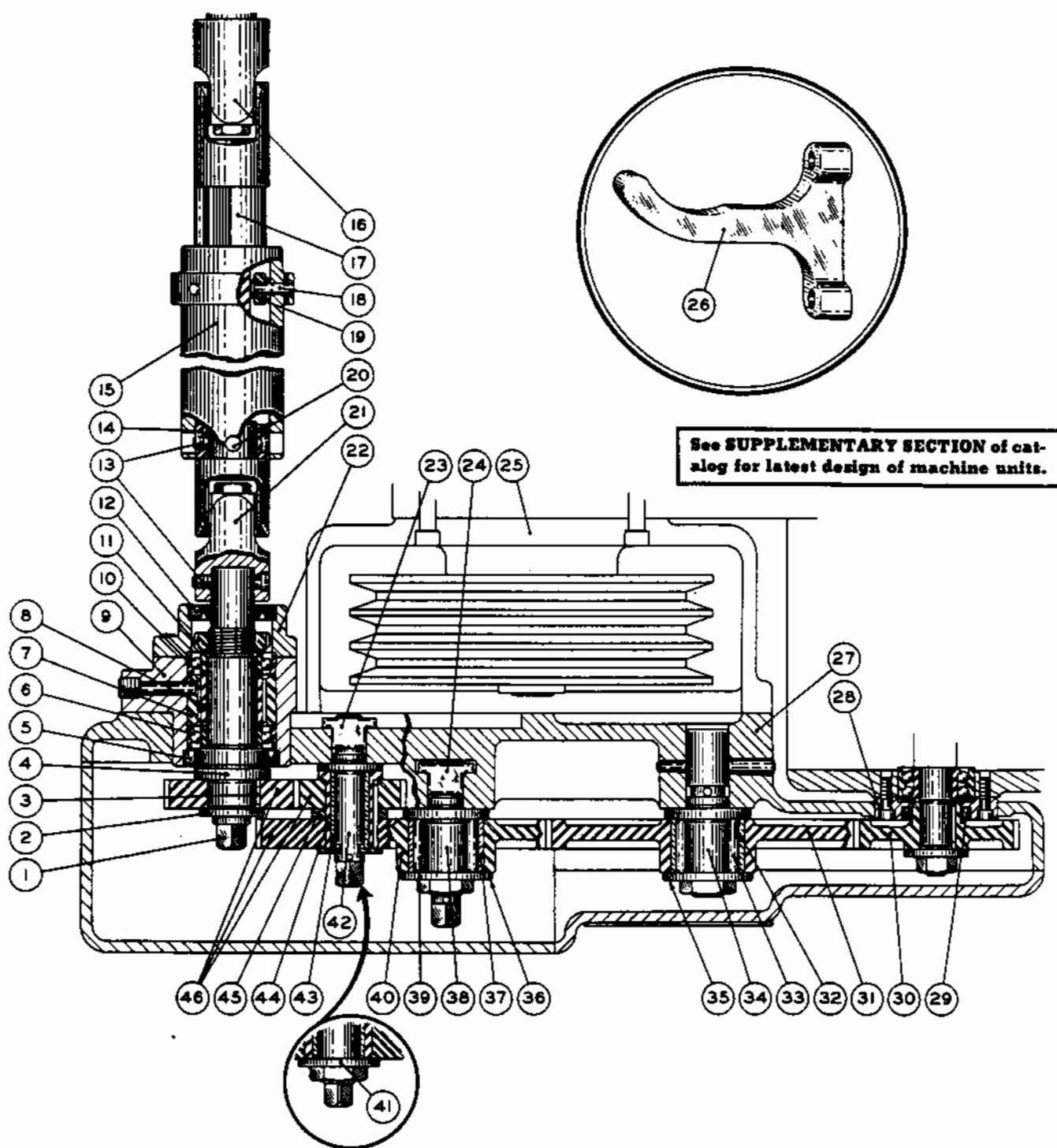


Figure 32— Section N-N (See Figure 31)



Section N-N

(Concluded)

Index No.	Part Number (12' Lathe)	Part Number (14' Lathe)	Part Number (16' Lathe)	Part Name
25	1694-A171	1696-A259A	1696-A259A	Drive Pulley Bracket
26	1694-J178	1696-J286	1696-J286	Telescopic Sleeve Support
27	1694-A172	1696-A261A	1696-A261A	Drive Bracket
28	1694-J176	1696-J206A	1696-J206A	Reverse Shaft Outer Bearing Retainer Cap
29	1 1/4 O.D. X 1 1/4 I.D. X 1/4 W.	1 1/4 O.D. X 1 1/4 I.D. X 1/4 W.	1 1/4 X 1 1/4 I.D. X 1/4 W.	Garlock Closure Seal
30	G16-60-16	G16-60-14	G16-60-14	Drive Gear
31	G16-119-1	G16-144-1	G16-144-1	Intermediate Drive Gear
32	1694-J762	1696-J971	1696-J971	Change Gear Bearing Bushing — Outer
	.2498 x 1.235	.2498 x 1.230	.2498 x 1.230	
33	.2500 x 1.250	.2500 x 1.250	.2500 x 1.250	Bantam Needle Rollers
34	1694-J764	1696-J981	1696-J981	Change Gear Stud
35	1694-J757	.....	.....	Change Gear Washer
36	1694-J757	1696-J973	1696-J973	Change Gear Washer
37	1694-J762	1696-J971	1696-J971	Change Gear Bearing Bushing
38	1694-J763	1696-J984	1696-J984	Change Gear Adjusting Stud — Vertical
	.2498 x 1.235	.2498 x 1.230	.2498 x 1.230	
39	.2500 x 1.250	.2500 x 1.250	.2500 x 1.250	Bantam Needle Rollers
40	G16-79-3	G16-108-6	G16-108-6	Driven Gear
41	.....	1696-J652A	1696-J652A	Washer
42	1694-J765	1696-J983	1696-J983	Change Gear Stud — Horizontal
43	1694-J177	1696-J281	1696-J281	Change Gear Sleeve Bushing
44	1694-J767	1696-J974	1696-J974	Change Gear Sleeve
45	1694-J766	1696-J975	1696-J975	Change Gear Spacer
46	G16-36-17	G16-36-13	G16-36-13	36-Tooth Radial Relieving Change Gear
46	G16-40-10	G16-40-20	G16-40-20	40-Tooth Radial Relieving Change Gear
46	G16-45-9	G16-45-8	G16-45-8	45-Tooth Radial Relieving Change Gear
46	G16-48-16	G16-48-14	G16-48-14	48-Tooth Radial Relieving Change Gear
46	G16-60-4	G16-60-13	G16-60-13	60-Tooth Radial Relieving Change Gear
46	G16-70-2	G16-70-3	G16-70-3	70-Tooth Radial Relieving Change Gear
46	G16-80-4	G16-80-7	G16-80-7	80-Tooth Radial Relieving Change Gear
46	G16-84-5	G16-84-4	G16-84-4	84-Tooth Radial Relieving Change Gear
46	G16-90-6	G16-90-5	G16-90-5	90-Tooth Radial Relieving Change Gear
46	G16-33-1	G16-33-2	G16-33-2	33-Tooth Spiral Relieving Change Gear
46	G16-35-5	G16-35-8	G16-35-8	35-Tooth Spiral Relieving Change Gear
46	G16-37-1	G16-37-3	G16-37-3	37-Tooth Spiral Relieving Change Gear
46	G16-39-3	G16-39-4	G16-39-4	39-Tooth Spiral Relieving Change Gear
46	G16-46-1	G16-46-4	G16-46-4	46-Tooth Spiral Relieving Change Gear
46	G16-50-2	G16-50-8	G16-50-8	50-Tooth Spiral Relieving Change Gear
46	G16-54-3	G16-54-6	G16-54-6	54-Tooth Spiral Relieving Change Gear
46	G16-58-2	G16-58-4	G16-58-4	58-Tooth Spiral Relieving Change Gear
46	G16-62-1	G16-62-4	G16-62-4	62-Tooth Spiral Relieving Change Gear
46	G16-64-5	G16-64-10	G16-64-10	64-Tooth Spiral Relieving Change Gear
46	G16-68-3	G16-68-4	G16-68-4	68-Tooth Spiral Relieving Change Gear
46	G16-73-1	G16-73-4	G16-73-4	73-Tooth Spiral Relieving Change Gear
46	G16-74-2	G16-74-4	G16-74-4	74-Tooth Spiral Relieving Change Gear
46	G16-76-2	G16-76-3	G16-76-3	76-Tooth Spiral Relieving Change Gear



See SUPPLEMENTARY SECTION of catalog for latest design of machine units.

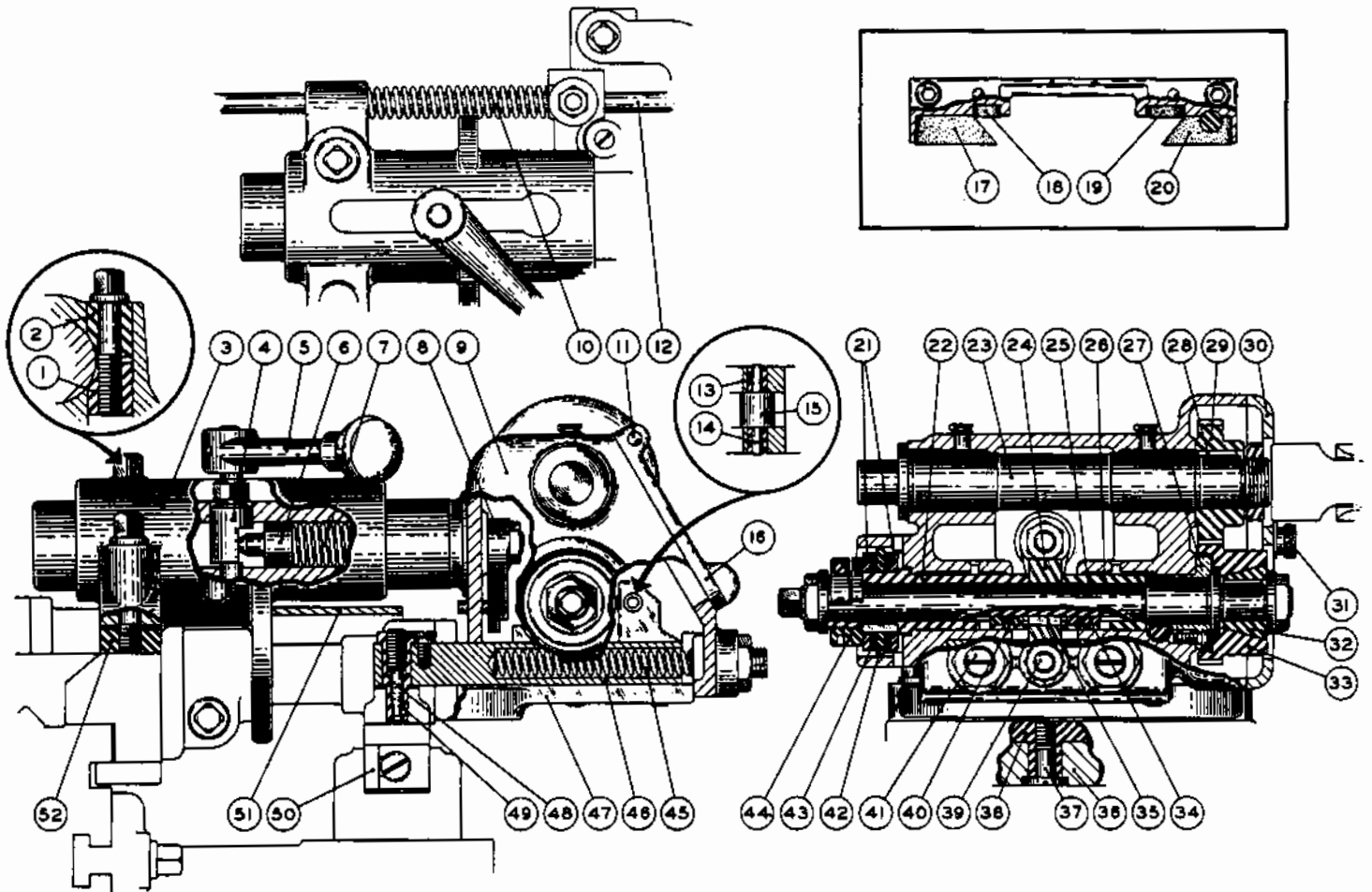


Figure 33 — Radial Relieving Attachment





Radial Relieving Attachment

Index No.	Part Number (12' Lathe)	Part Number (14' Lathe)	Part Number (16' Lathe)	Part Name
1	1694-752	1696-952A	1696-952A	Binder Bushing — Lower
2	1694-751	1696-951A	1696-951A	Binder Bushing — Upper
3	1694-B169	1696-A265A	1696-A265A	Cam Slide Guide Bracket
4	1694-J746	1696-J954	1696-J954	Cam Slide Release Cam
5	1696-J270	1696-J270	1696-J270	Cam Slide Release Lever
6	1694-J745	1696-J958	1696-J958	Cam Slide Release Lever Shaft
7	1696-J956	1696-J956	1696-J956	Cam Slide Release Shaft Spring
8	1694-J163	1696-J271	1696-J271	Cam Release Lever
9	1694-A170	1696-A264	1696-A264	Cam Slide Bracket
10	1694-J921	1694-J921	1694-J921	Radial Relieving Auxiliary Spring
11	1694-J740	1696-J960	1696-J960	Cam Slide Bracket Cover Hinge Pin
12	.....	1696-1095	1696-1096	Cross Slide Stop Rod
13	1396-J1149	1396-J1149	1396-J1149	Cam Roll Bushing
14	1396-J1148	1396-J1148	1396-J1148	Cam Roll Pin
15	1396-J1147	1396-J1147	1396-J1147	Cam Roll
16	1694-C168	1696-C269	1696-C269	Cam Slide Bracket Oil Cover
17	1694-J926	1696-J1206	1696-J1206	Chip Guard Wiper — Left Lower
18	1696-J1207	1696-J1207	1696-J1207	Chip Guard Wiper — Left Upper
19	1694-J928	1696-J1205	1696-J1205	Chip Guard Wiper — Right Upper
20	1694-J927	1696-J1204	1696-J1204	Chip Guard Wiper — Right Lower
21	1395-J809	1395-J809	1395-J809	End Friction Washer
22	1395-J976	1395-J976	1395-J976	Cam Shaft Sleeve — L.H.
23	1694-C749	1696-C966	1696-C966	Auxiliary Shaft
24	1396-J1346	1396-J1346	1396-J1346	Single Rise Cam — .015 Rise
24	1396-J1326	1396-J1326	1396-J1326	Single Rise Cam — .030 Rise
24	1396-J1334	1396-J1334	1396-J1334	Single Rise Cam — .060 Rise
24	1396-C1335	1396-C1335	1396-C1335	Double Rise Cam — .093 Rise
24	1396-C1328	1396-C1328	1396-C1328	Quadruple Rise Cam — .125 Rise
24	1396-C1336	1396-C1336	1396-C1336	Quadruple Rise Cam — .1875 Rise
25	1694-C748	1696-C967	1696-C967	Cam Shaft
26	1694-J744	1696-J965	1696-J965	Cam Shaft Sleeve — R.H.
27	1694-J162	.....	.....	Cam Shaft Bearing
28	1694-J929	1696-J1242	1696-J1242	Auxiliary Shaft Key
29	G16-44-11	G16-52-8	G16-52-8	Auxiliary Shaft Gear
30	1694-C167	1696-C268	1696-C268	Cam Slide Bracket Cover
31	1694-J742	1696-J964	1696-J964	Cam Slide Bracket Cover Screw
32	1694-J743	.....	.....	Cam Shaft Taper Sleeve
33	G16-44-12	G16-52-7	G16-52-7	Cam Shaft Gear
34	1396-J1233	.....	.....	Cam Shaft Sleeve Key
35	1396-J1337	1396-J1337	1396-J1337	Cam Key
36	1694-J130	1696-J138	1696-J138	Taper Shoe
37	1694-J705	1696-J781	1696-J781	Shoe Swivel Screw
38	1694-C750	1696-C968	1696-C968	Swivel Plate
39	1694-J741	1696-J963	1696-J963	Cam Slide Screw
40	1396-J1233	1396-J1233	1396-J1233	Cam Shaft Sleeve Key
41	1694-J747	1395-J973	1395-J973	Spring Adjusting Screw
42	1395-J811A	1395-J811A	1395-J811A	Center Friction Plate
43	1395-J812	1395-J812	1395-J812	Leather Washer
44	1396-J1229	1396-J1229	1396-J1229	Friction Adjusting Nut
45	1395-J975	1395-J975	1395-J975	Cam Operating Spring
46	1694-C165	1696-B267	1696-B267	Cam Slide
47	1694-C166	1696-B266	1696-B266	Cam Slide Bracket Base
48	1694-J737	1696-J1019	1696-J1019	Expansion Bushing Screw
49	1694-J738	1696-J1018	1696-J1018	Cam Slide Expansion Bushing
50	1694-J131	1696-J139	1696-J139	Taper Shoe Gib
51	1694-C164A	1696-B275	1696-B276	Carriage Chip Guard
52	1694-J739	1696-J955	1696-J955	Cam Slide Guide Bracket Gib

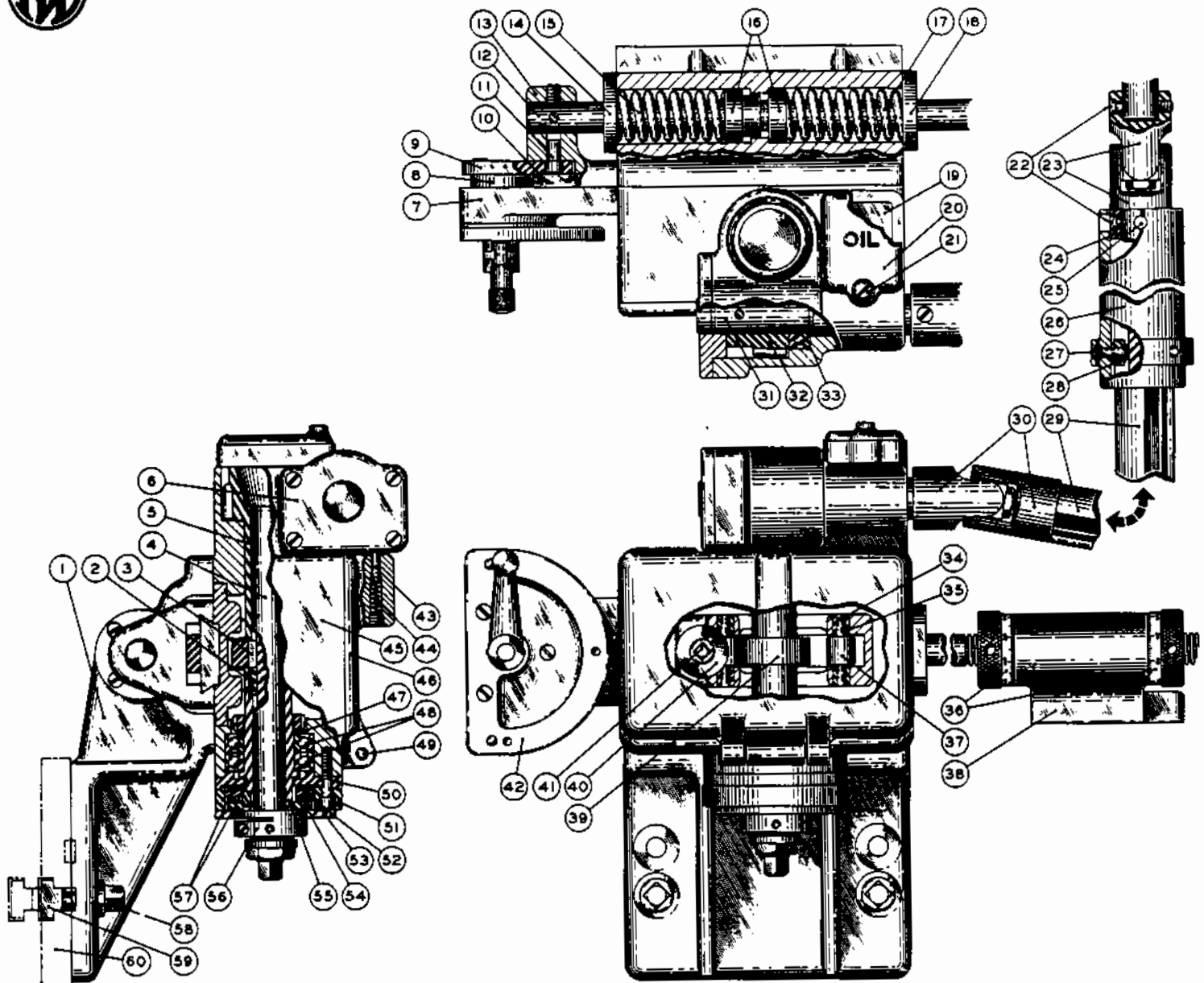


Figure 34 — Side Relieving Attachment

Side Relieving Attachment

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
1	1396-A449	1396-A449	1396-A449	Gear Box Bracket
2	1396-J1233	1396-J1233	1396-J1233	Cam Shaft Sleeve Key
3	1396-J1337	1396-J1337	1396-J1337	Cam Key
4	1696-C1029	1696-C1029	1696-C1029	Cam Shaft
5	GH10-15-7	GH10-15-7	GH10-15-7	Spiral Gear — Driven
6	1396-J451	1396-J451	1396-J451	Drive Shaft Bearing
7	1396-B457	1396-B457	1396-B457	Relief Slide
8	1396-J1290B	1396-J1290B	1396-J1290B	Relief Bracket Shaft
9	1396-J1292A	1396-J1292A	1396-J1292A	Relief Bracket Shaft Stud Link
10	1396-C455	1396-C455	1396-C455	Relief Slide Bracket Gib
11	1396-J1286	1396-J1286	1396-J1286	Link Stud
12	1396-J1308	1396-J1308	1396-J1308	Relief Rod

(Continued on Opposite Page)



Side Relieving Attachment

(Concluded)

Index No.	Part Number (12" Lathe)	Part Number (14" Lathe)	Part Number (16" Lathe)	Part Name
13	1396-C456	1396-C456	1396-C456	Relief Engaging Slide
14	1396-J1305	1396-J1305	1396-J1305	Spring Retainer Plate
15	1396-J1302	1396-J1302	1396-J1302	Relief Rod Spring
16	1396-J1304	1396-J1304	1396-J1304	Relief Rod Collar
17	1396-J1302	1396-J1302	1396-J1302	Relief Rod Spring
18	1396-J1305	1396-J1305	1396-J1305	Spring Retainer Plate
19	1396-J1330	1396-J1330	1396-J1330	Oil Reservoir Plate
20	1396-J462	1396-J462	1396-J462	Oil Cover
21	1396-J1312	1396-J1312	1396-J1312	Oil Cover Screw
22	1396-J1297A	1396-J1297A	1396-J1297A	Universal Joint Screw
23	1395-J989	1395-J989	1395-J989	Universal Joint — R.H.
24	1395-J1009	1395-J1009	1395-J1009	Telescopic Sleeve Bushing
25	1395-J1010	1395-J1010	1395-J1010	Telescopic Sleeve Bushing Pin
26	1395-C371	1395-C371	1395-C371	Telescopic Drive Sleeve
27	1395-J1012	1395-J1012	1395-J1012	Drive Roll Stud
28	1395-J1011	1395-J1011	1395-J1011	Drive Roll
29	1395-J1008	1395-J1008	1395-J1008	Telescopic Drive Shaft
30	1395-J990	1395-J990	1395-J990	Universal Joint — L.H.
31	1696-J1027	1696-J1027	1696-J1027	Drive Shaft
32	GH10-15-6A	GH10-15-6A	GH10-15-6A	Spiral Gear — Driver
33	5B (TH568)	5B (TH568)	5B (TH568)	Marlin-Rockwell Thrust Ball Bearing
34	1396-J1148	1396-J1148	1396-J1148	Cam Roll Pin
35	1396-J1311	1396-J1311	1396-J1311	Cam Roll Bushing
36	1396-J1300	1396-J1300	1396-J1300	Relief Adjusting Nut
37	1396-J1147	1396-J1147	1396-J1147	Cam Roll
38	1694-C179	1696-C283	1696-C283	Relieving Rod Bracket
39	1396-C1327	1396-C1327	1396-C1327	Double Rise Cam — .030"
39	1396-C1338	1396-C1338	1396-C1338	Double Rise Cam — .060"
39	1396-C1339	1396-C1339	1396-C1339	Double Rise Cam — .125"
39	1396-C1340	1396-C1340	1396-C1340	Quadruple Rise Cam — .030"
39	1396-C1341	1396-C1341	1396-C1341	Quadruple Rise Cam — .060"
39	1396-C1342	1396-C1342	1396-C1342	Quadruple Rise Cam — .093"
40	1396-J1287	1396-J1287	1396-J1287	Binder Screw Washer
41	1396-J1288	1396-J1288	1396-J1288	Slide Binder Screw
42	1396-C453	1396-C453	1396-C453	Relief Slide Bracket
43	1396-J1307	1396-J1307	1396-J1307	Spring Plunger
44	1396-J1306	1396-J1306	1396-J1306	Gear Box Cover Spring
45	1696-B289	1696-B289	1696-B289	Gear Box
46	1396-C454C	1396-C454C	1396-C454C	Gear Box Cover
47	1696-J1133	1696-J1133	1696-J1133	Ball Bearing Lock Washer
48	QOLOTDBX3CF (AC-227)	QOLOTDBX3CF (AC-227)	QOLOTDBX3CF (AC-227)	New Departure Ball Bearing
49	1396-J1309	1396-J1309	1396-J1309	Cover Hinge Pin
50	1696-J1025	1696-J1025	1696-J1025	Ball Bearing Retaining Plate
51	1696-J1026	1696-J1026	1696-J1026	Ball Bearing Retaining Cap
52	1696-J1028	1696-J1028	1696-J1028	Friction Housing Cover
53	1395-J811A	1395-J811A	1395-J811A	Center Friction Plate
54	1395-J809	1395-J809	1395-J809	End Friction Washer
55	1696-J1024	1696-J1024	1696-J1024	Cam Shaft Sleeve
56	1396-J1229	1396-J1229	1396-J1229	Friction Adjusting Nut
57	1395-J812	1395-J812	1395-J812	Leather Washer
58	1696-J1052	1696-J1052	1696-J1052	Gear Box Bracket Screw
59	1396-J1501	.....	.....	Bracket Tee Nut
60	.....	1696-C282	1696-C282	Gear Box Bracket Adapter

NOTE: EXTENSION DRIVE SHAFT FOR SIDE RELIEVING ATTACHMENT

When the Side Relieving Attachment is used *without* the Radial Relieving Attachment, two additional parts are required, namely the Extension Drive Shaft (Part No. 1694-J775 for the 12" Lathe, Part No. 1696-J994 for the 14" and 16" Lathes) and the Universal Joint Screw (Part No. 1396-J1297A for the 12", 14", and 16" Lathes).

The Extension Drive Shaft is used between the Telescopic Drive Shaft and the left-hand Universal Joint, both of which are part of the Relieving Attachment Drive Unit (See Figure 32, index numbers 16 and 17). The use of the Extension Drive Shaft thus replaces the Telescopic Drive Shaft Assembly as contained with the Side Relieving Attachment (See Figure 34, index numbers 22 through 30).

SUPPLEMENTARY SECTION

COVERING LATEST STYLE 12 & 16 INCH MODEL "C" LATHES



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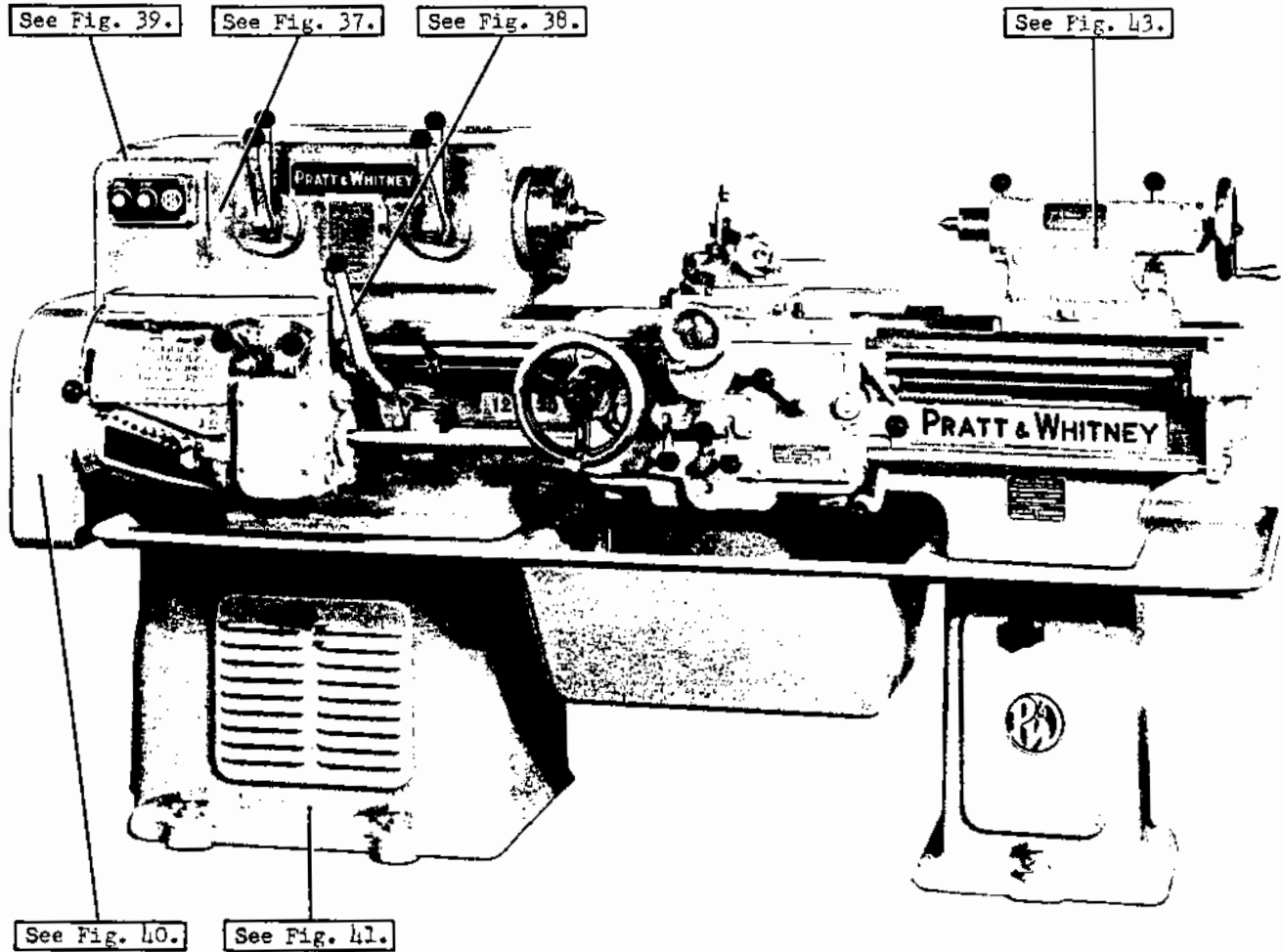


Figure 35 — Front View of Machine (12 Inch Lathe)

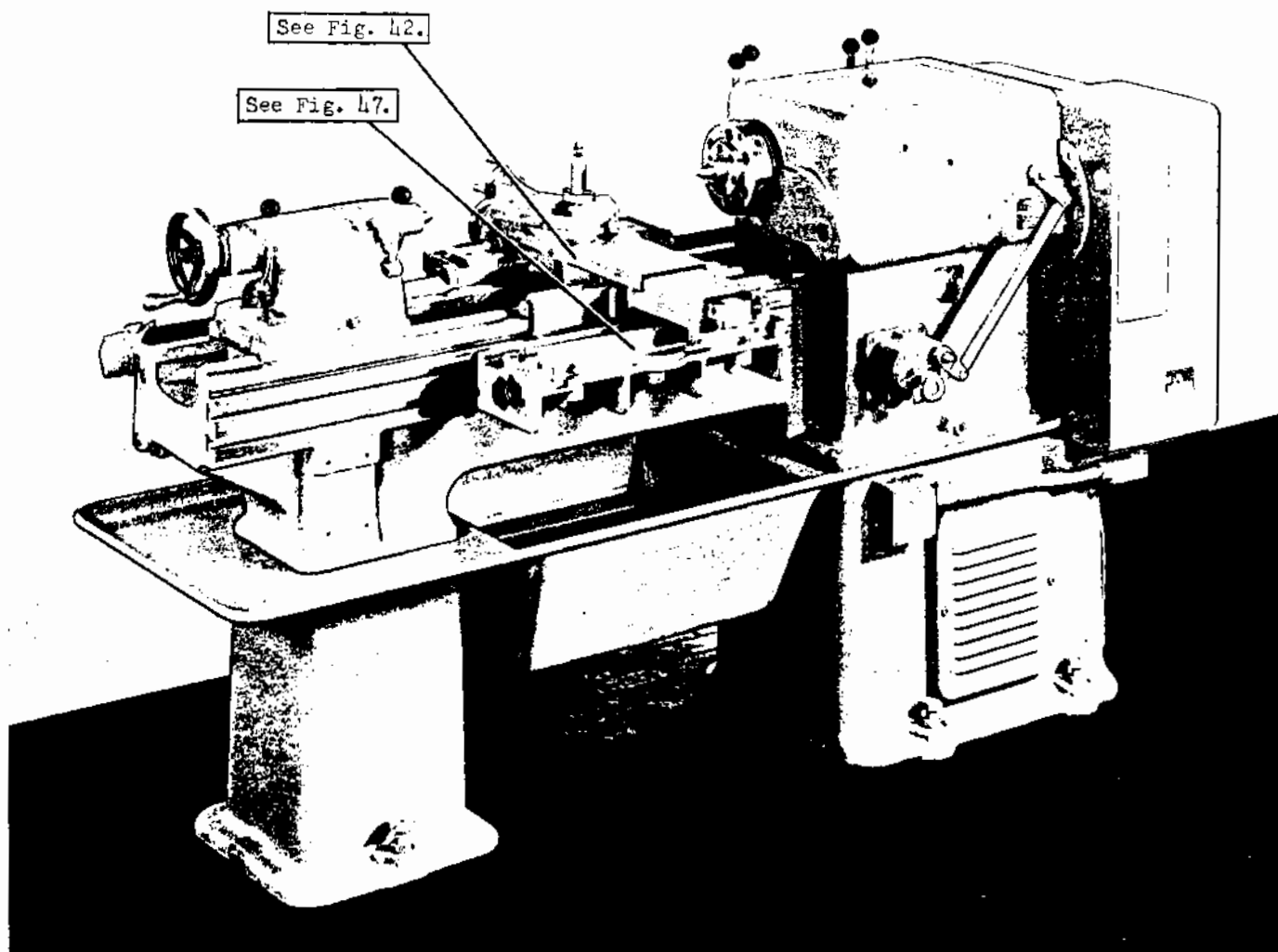
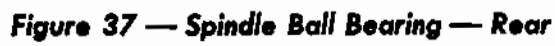


Figure 36 — Rear View of Machine (12 Inch Lathe)





Spindle Ball Bearing

Index No.	Part Number (12' Lathe)	Part Number (16' Lathe)	Part Name
1	W-11 SKF	W-12 SKF	Lock Washer
2	1694-A501C	1696-A501A	Headstock Spindle
3	N-11 & W-11 SKF	N-12 & W-12 SKF	Lock Nut & Washer
4	1694-J1102	1696-J1509	Ball Bearing Spacer
5	Fafnir-M9311K (RA1337)	ND-3L12-T5A (RA1338)	Ball Bearing
6	G10-38-38A	G10-44-21	Feed Drive Gear
7	1696-J557	1696-J557	Spindle Key — Short

Head End Guard

Index No.	Part Number (12' Lathe)	Part Number (16' Lathe)	Part Name
1	1696-C1254	1696-C1254	Guard Hand Hole Cover
2	1694-C210	1696-C379	Guard Support Strap
3	1694-B940	1696-B1253	Control Panel Cover
4	1694-A938A	1696-A1250	Head End Guard
5	1694-J943	1696-J1271	Control Cover Dust Strip — Long
6	1694-J944	1696-J1272	Control Cover Dust Strip — Short
7	1694-J941	1696-J1268	Guard — Spindle Hole Cover
8	1696-J1256	1696-J1256	Guard Support Stud — Long
9	1694-A939	1696-A1252	Gear Guard Cover
10	1696-J1255	1696-J1255	Guard Spring
11	1694-C970B	1694-C970B	Start & Stop Push Button Plate
12	1694-C942A	1696-C1275A	Guard Fitting Strip
13	1696-J1257	1696-J1257	Guard Support Stud — Short
14	1694-C969	1694-C969	Selector Switch Adapter
15	1694-J972	1694-J972	Adapter Gasket
16	1696-J1285	1696-J1285	Head End Guard Anchor Stud

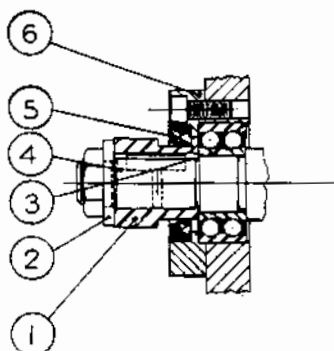


Figure 40 — Ratio Box (Partial Section)

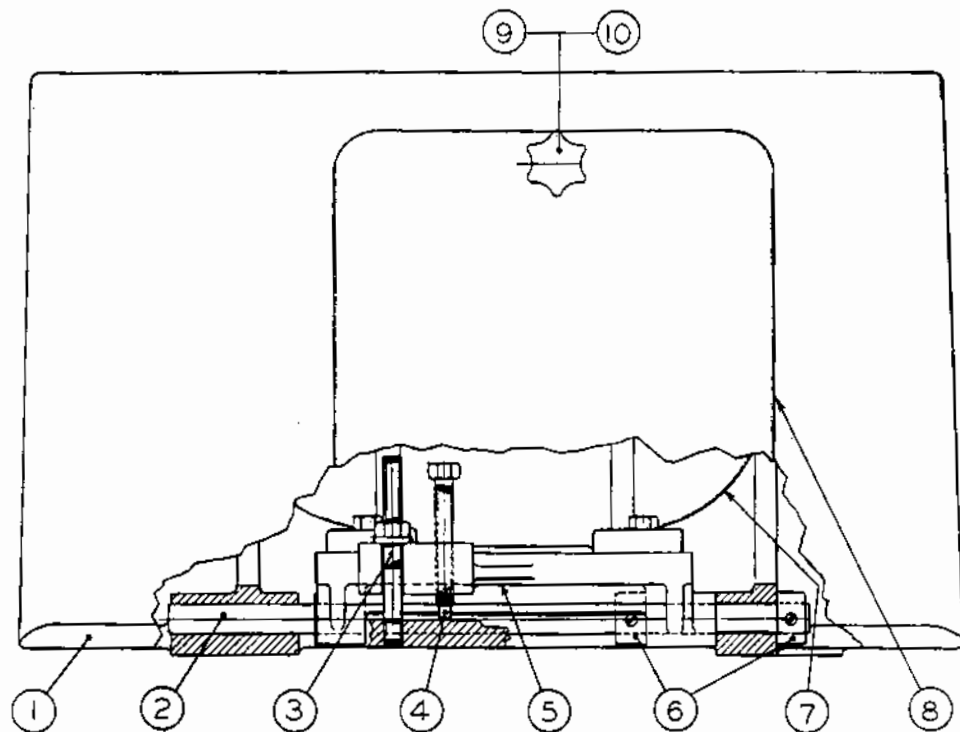


Figure 41 — Motor Mounting

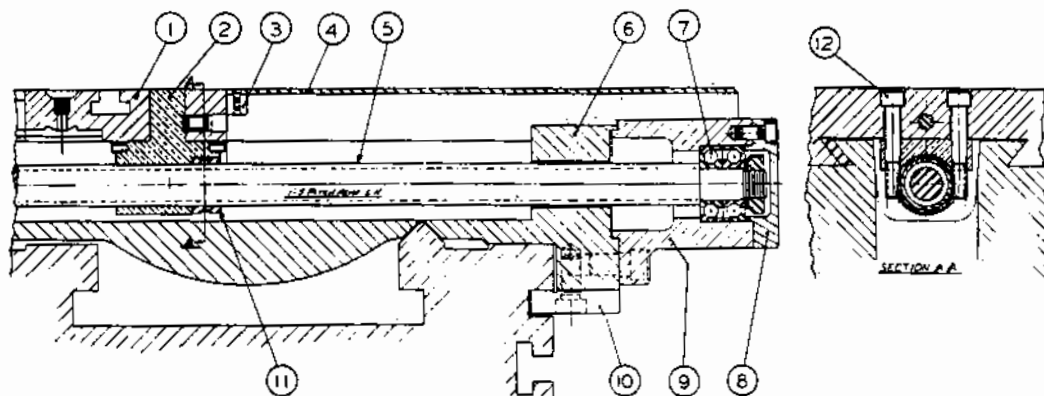


Figure 42 — Cross Feed Screw and Nut

12" Lathe — After Serial 502

16" Lathe — After Serial 1349



Ratio Box (Partial Section)

Index No.	Part Number (12' Lathe)	Part Number (16' Lathe)	Part Name
1	1694-J514	1696-J969	Reverse Shaft Sleeve
2	1694-J513	3/4 W-1	Washer
3	ND-5504X1C (DR236)	ND-5205X1217A (DR-13)	Ball Bearing
4	1694-B505	1696-B887A	Thread Reverse Shaft
5	1 5/8 x 1 1/8 x 5/16	1 5/8 x 1 1/4 x 3/8	Garlock Klosure
6	1694-J176A	1696-J206B	Rev. Shaft Outer Bearing Cap

Motor Mounting

Index No.	Part Number (12' Lathe)	Part Number (16' Lathe)	Part Name
1	1694-A73C	1696-A17D	Cabinet Leg — L.H.
2	1694-J717A	1696-J791A	Motor Platform Shaft
3	1694-J716	1696-J783	Platform Adj. Screw
4	1694-J712	1696-J790	Platform Elevating Screw
5	1694-B142A	1696-B134A	Motor Platform
6	1694-J1024	1694-J1024	Motor Platform Shaft Collar
7	3 HP Frame 284	7 1/2 HP Frame 225	1800 RPM Motor
8	1694-B610A	1696-B583	L. H. Cabinet Leg Door
9	1395-J253	1395-J253	Door Knob
10	Std. #5	Std. #5	Door Latch

Cross Feed Screw and Nut

Index No.	Part Number (12' Lathe)	Part Number (16' Lathe)	Part Name
1	1694-B126C	1696-B97D	Tool Post Cross Slide
2	1694-C208A	1696-C148B	Carriage Nut
3	1694-J1022	1694-J1022	Chip Guard Block
4	1694-B1021	1696-B1429	Chip Guard
5	1694-C695C	1696-C638D	Cross Feed Screw
6	1694-A1146 1694-A114C	1696-A88C	Carriage
7	#30203-DT-T3CF (AC1192)	Q30204-DT-T3CF (AC395)	ND Ball Bearing (Mounted DF)
8	1694-J211	1696-J378	Cross Feed Scr. Bkt. Cap
9	1694-B128C	1696-C135B	Cross Feed Screw Bracket
10	1694-J677	1696-J636	Rear Strap
11	GW6-68-1	GW6-67-2	Feed Screw Take-Up Nut
12	1694-J930	1696-J1246	Feed Nut Adj. Screw

As per J. Page

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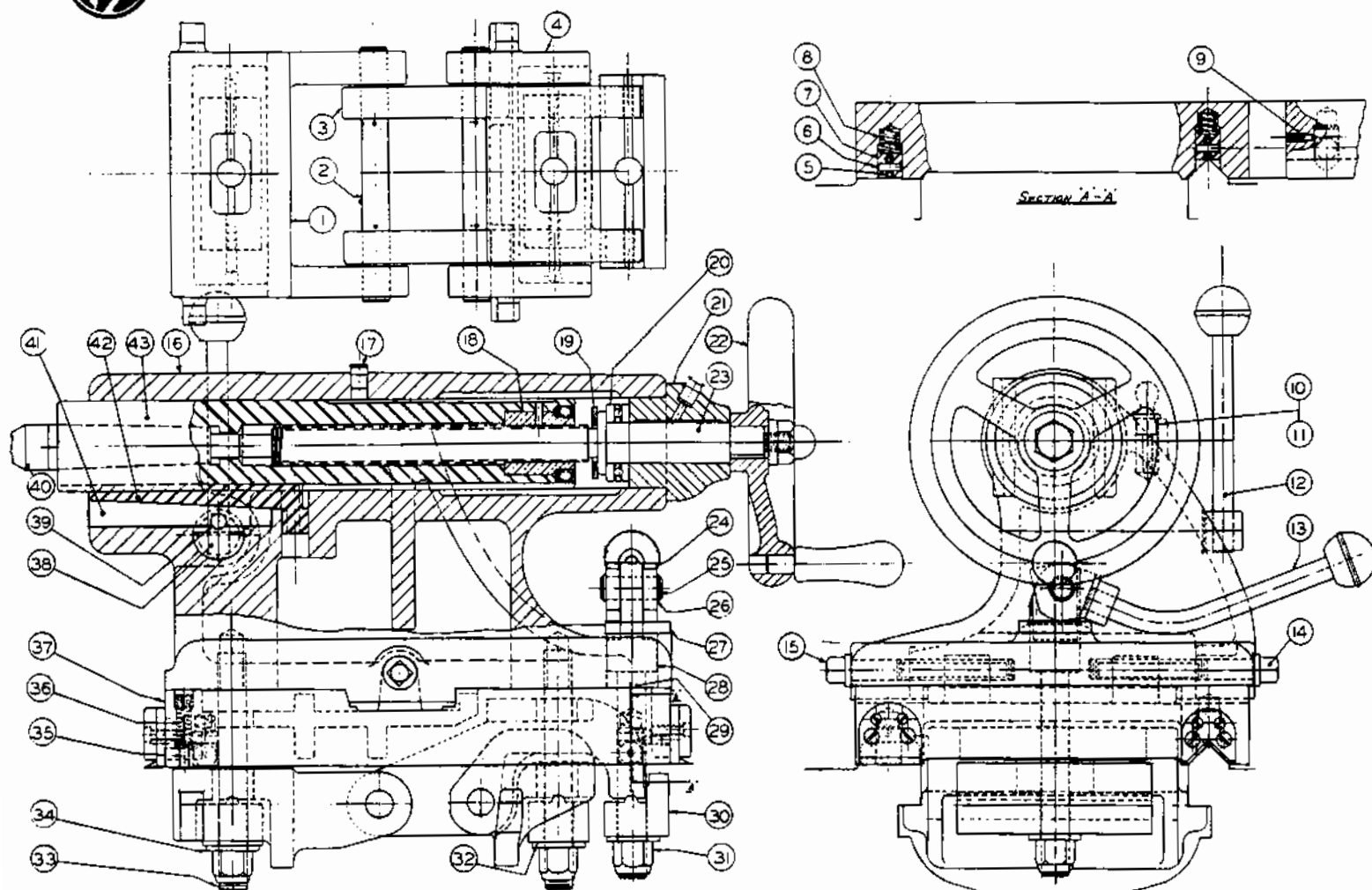


Figure 43 — Tailstock
12" Lathe — Starting with Serial 23301
16" Lathe — Starting with Serial 23236

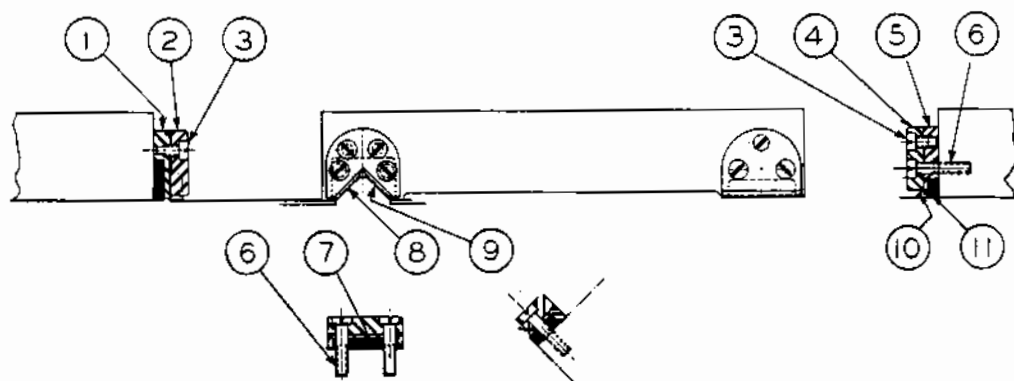


Figure 44 — Tailstock Way Wipers
12" Lathe — Starting with Serial 23301
16" Lathe — Starting with Serial 23236



Tailstock

Index No.	Part Number (12' Lathe)	Part Number (16' Lathe)	Part Name
1	1694-B240A	1696-B432A	Tailstock Clamp — L.H.
2	1694-J1037	1696-J1435	Tailstock Clamp Shaft
3	1694-B238A	1696-B433A	Tailstock Clamp Link
4	1694-B239	1696-B431	Tailstock Clamp — R.H.
5	ND-77034X1C (RA1101)	ND-77034X1C (RA1101)	Ball Bearing
6	1696-J1432	1696-J1432	Tailstock Bearing Shaft
7	1694-J1034	1694-J1034	Bearing Support
8	1694-J1035	1696-J1433	Tailstock Lifting Spring
9	1696-J1431	1696-J1431	Tailstock Support Adj. Screw
10	1396-J910	1396-J910	Oiler Top
11	1396-J911	1396-J911	Oiler Quill
12	1694-J1041	1696-J1465	Spindle Binder Handle
13	1694-J1033	1696-J1455	Binder Handle
14	1395-J513A	1696-J848	Adjusting Screw — Rear
15	1395-J512A	1696-J848	Adjusting Screw — Front
16	1694-A133B	1696-A125B	Tailstock Body
17	#593-Style BT	#593-Style BT	Gits Oiler
18	1694-J136	1397-J98	Tailstock Spindle Nut
19	1694-J710	1696-J832	Spindle Stop Washer
20	#B11 Aetna (TH402)	#B11 Aetna (TH402)	Thrust Ball Bearing
21	1694-J137	1696-J199A	Screw Bearing
22	7" Standard	8" Standard	Handwheel
23	1694-C707	1696-C842A	Tailstock Spindle Screw
24	1696-C1457	1696-C1457	Tailstock Clamp Binder
25	1696-J1454	1696-J1454	Clamp Binder Pivot
26	#5162	#5162	Truarc
27	1694-J1036	1694-J1036	Binder Washer
28	1694-J1059	1696-J1471	Clamp Binder Stud
29	1694-J1060	1696-J1470	Binder Stud Screw
30	1694-C237	1696-J434	Tailstock Clamp Strap — R.H.
31	#29E108	#49E126	Elastic Stop Nut
32	1694-C1040	1696-J1452	Tailstock Clamp Strap
33	1694-J1038	1696-J1451	Tailstock Clamp Bolt
34	3/8 W-1	3/8 W-1	Washer
35	1694-J1085	1696-J1494	Clamp Equalizer Pin
36	1694-J1086	1696-J1493	Clamp Equalizer Spring
37	1694-B134A	1696-B126A	Tailstock Base
38	1395-J509A	1397-J594A	Spindle Binder Pin
39	1694-J508A	1696-C843A	Spindle Binder
40	1395-J503	1396-J1271	Center
41	1395-J507A	1696-J849	Spindle Wedge
42	1395-J956A	1696-J850	Spindle Key
43	1694-B706	1696-B841	Tailstock Spindle

Tailstock Way Wipers

Index No.	Part Number (12' Lathe)	Part Number (16' Lathe)	Part Name
1	1694-J233	1696-J429	Vee Wiper Back Plate
2	1694-J234	1696-J428	Vee Scraper Clamp
3	1694-J839	1696-J1113	Wiper Assembly Screw
4	1694-J236	1696-J320	Front Scraper Plate
5	1694-J235	1696-J142A	Flat Wiper Back Plate
6	1694-J904	1696-J1108	Wiper Screw
7	1694-J901	1696-J1448	Vee Wiper Felt
8	1694-898 (Dwg. C20112)	1696-1450 (Dwg. C20424)	Vee Scraper — L.H.
9	1694-899 (Dwg. C20112)	1696-1449 (Dwg. C20424)	Vee Scraper — R.H.
10	1694-J903	1696-J1089	Flat Scraper
11	1694-J905	1696-J1088	Flat Wiper Felt

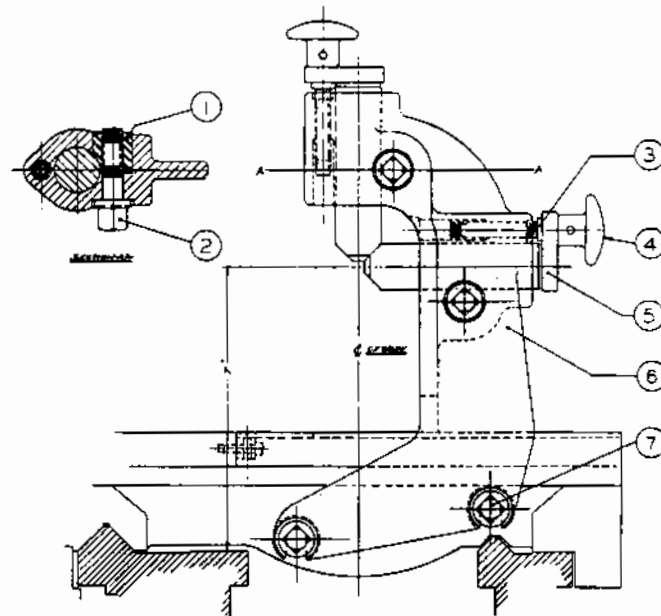


Figure 45 — Follow Rest
12" Lathe — Starting with Serial 21679
16" Lathe — Starting with Serial 21088

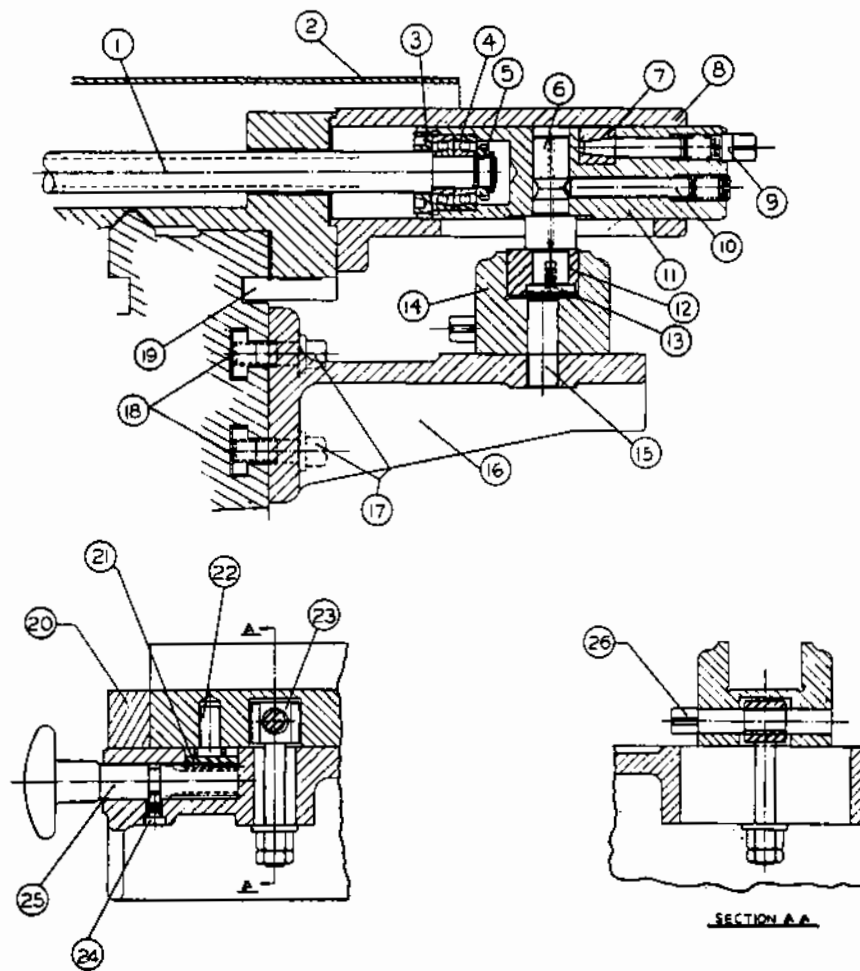


Figure 46 — Plain Taper Attachment
12" Lathe — Starting with Serial 503
16" Lathe — Starting with Serial 1350



Follow Rest

Index No.	Part Number (12" Lathe)	Part Number (16" Lathe)	Part Name
1	1395-J601	1396-J1105	Binder Nut
2	58½ x 1¾	58½ x 2	Binder Screw
3	1395-J603C	1396-J751A	Adjusting Screw
4	#O-K4	#O-K4	Knob
5	1395-J60	1396-J173A	Work Support Jaw
6	1694-A227	1696-A422	Frame
7	58½ x 1¾	58½ x 1¼	Binder Screw

Plain Taper Attachment

Index No.	Part Number (12" Lathe)	Part Number (16" Lathe)	Part Name
1	1694-C695C	1696-C638D	Cross Feed Screw
2	1694-B1021	1696-B1429	Chip Guard
3	1694-J931	1696-J1179	Ball Bearing Retaining Nut
4	30203-DT-T3CF (AC1192)	Q30204-DT-T3CF (AC395)	ND Ball Bearing (Mounted DF)
5	Shurlock BL-N-03	Shurlock BL-N-04	Nut
6	1694-J932	1696-J1183A	Swivel Stud
7	1694-J935	1696-J1176A	Expansion Binder
8	1694-B209	1696-B350A	Cross Feed Screw Bracket
9	1694-J934	1696-J1177A	Expansion Binder Screw
10	1694-J933	1696-J1178A	Swivel Stud Binder Screw
11	1694-C207A	1696-C351B	Cross Feed Screw Sleeve
12	1694-J937	1696-J1244	Taper Shoe
13	1694-J936	1696-J1245	Swivel Stud Washer
14	1694-B220	1696-B384	Taper Bar
15	1395-J637	1396-J522	Fulcrum Pin
16	1694-A232	1696-A435	Taper Bar Bracket
17	1696-J1443	1696-J1443	Bracket Screw (4)
18	1696-J1501	1395-J1501	Bracket Tee Nut (4)
19	1694-J677	1696-J636	Rear Strap
20	1395-J97	1396-J238A	Graduated Block
	1395-J96	1396-J239	Angle of Taper Taper in Inches
21	1395-J634	1396-J517	Taper Adj. Rack
22	1396-J518	1396-J518	Rack Stud
23	1395-J638	1396-J519	Clamps (2)
24	1396-J1325	1396-J1325	Taper Adj. Pin Screw
25	1396-J516	1396-J516	Taper Adj. Pinion
26	1395-J639	1396-J520	Clamps Eccentric (2)

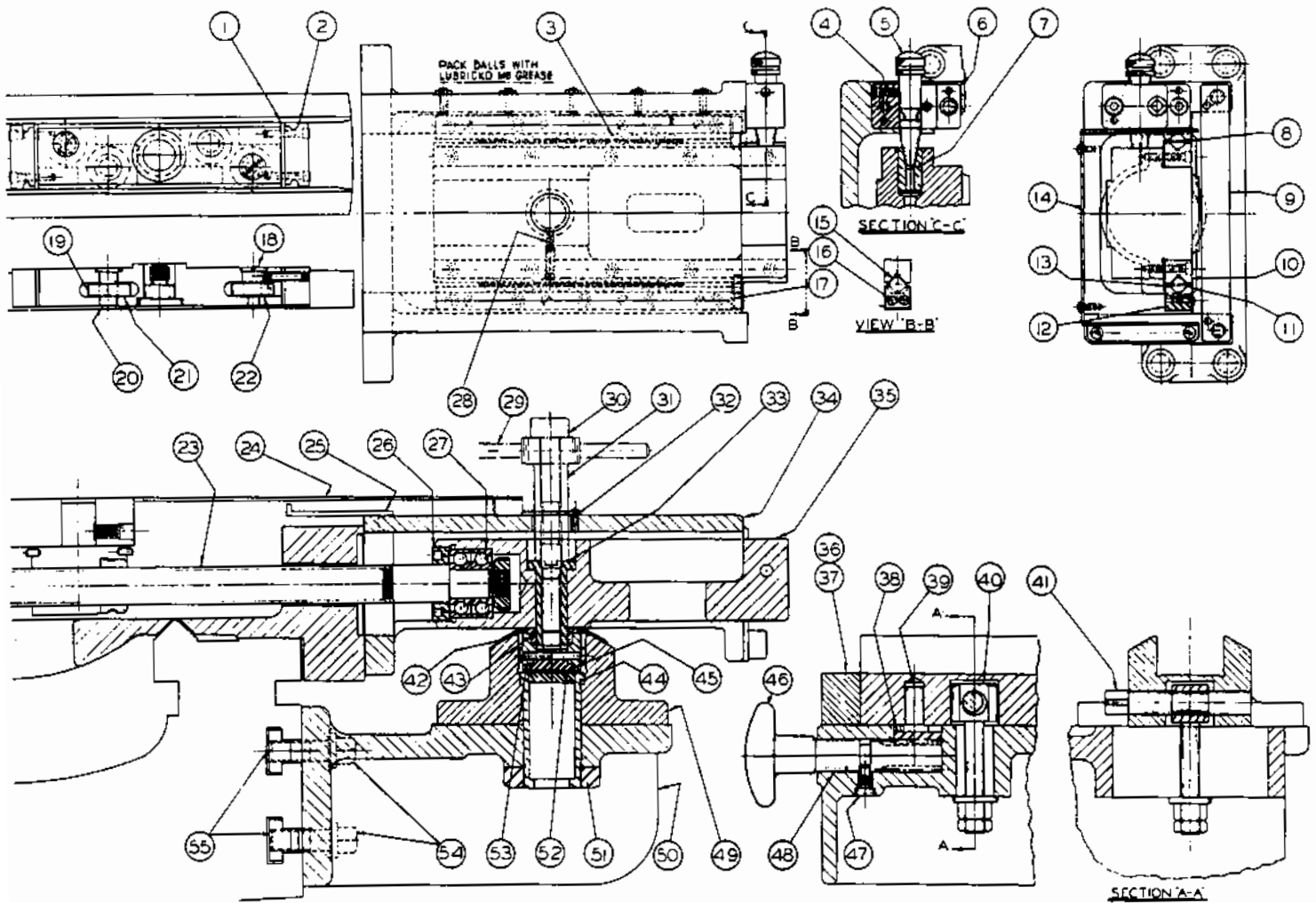


Figure 47 — Ball Bearing Taper Attachment
12" Lathe — Starting with Serial 23792
16" Lathe — Starting with Serial 23236



Ball Bearing Taper Attachment

Index No.	Part Number (12' Lathe)	Part Number (16' Lathe)	Part Name
1	1696-J1438	1696-J1438	Scraper
2	1696-J1439	1696-J1439	Scraper Front Plate
3	.3125 Dia.	.375 Dia.	Hardened Steel Balls
4	1696-J1393	1696-J1393	Lock Bolt Spring
5	1694-J1098	1696-J1490	Lock Bolt
6	1696-J1491	1696-J1491	Lock Pin Bracket
7	1696-J1421	1696-J1421	Lock Bolt Bushing
8	1694-J1050	1696-J1410A	Ball Separator
9	1694-J1042	1696-J1395A	Bracket Tie Bar
10	1694-C1046	1696-C1406B	Feed Scr. Bkt. Way (Center)
11	1694-J1044	1696-J1442A	Ball Shield — Lower
12	1694-C1048	1696-C1441A	Feed Screw Bracket, Way
13	1694-J1045	1696-J1437A	Ball Shield (Upper)
14	1694-C1099	1696-C1489	Feed Scr. Bkt. Chip Guard
15	1694-J1052	1696-J1434	Felt Wiper
16	1694-J1053	1696-J1435	Felt Wiper Retainer
17	1694-J1054	1696-J1436	Felt Wiper Plate
18	1696-J1401	1696-J1401	Ball Bearing Eccentric
19	ND-3L01-TSC (RA396)	ND-3L01-TSC (RA396)	Ball Bearing
20	1696-J1400	1696-J1400	Ball Bearing Stud
21	1696-J1413	1696-J1413	Ball Bearing Shield
22	1696-J1399	1696-J1399	Ball Bearing Spacer Adjustable
23	1694-C695B	1696-C638D	Cross Feed Screw
24	1694-B1021	1696-B1429	Chip Guard
25	1694-J1055	1696-C1445	Auxiliary Chip Guard
26	1694-J931	1696-J1179	Ball Bearing Retaining Nut
27	30203DT-T3CF (AC395)	30203DT-T3CF (AC395)	ND Ball Bearing (Mounted DF)
28	1696-J1393	1696-J1393	Lock Bolt Spring
29	P-1- $\frac{3}{8}$ x 2- $\frac{1}{4}$	P-1- $\frac{3}{8}$ x 2- $\frac{1}{4}$	Pin (2)
30	1696-J1459A	1696-J1459A	Wrench Screw
31	1696-J1458A	1696-J1458A	Wrench
32	1696-J1464	1696-J1464	Wrench Hole Cover
33	1694-J1057	1696-J1462A	Swivel Stud Nut
34	1694-A246	1696-A425B	Cross Feed Screw Bracket
35	1694-B244	1696-B423A	Cross Feed Screw Guide
36	1395-J961	1396-J239	Graduated Block — Inches
37	1395-J97	1396-J238A	Graduated Block — Degrees
38	1395-J834	1396-J517	Taper Adjusting Rack
39	1395-J636A	1396-J518	Rack Stud
40	1395-J638	1396-J519	Clamps
41	1395-J639	1396-J520	Clamp Eccentric
42	1696-C1407A	1696-C1407A	Taper Bar Shoe Guard
43	1694-J255	1694-J255	Taper Bar Shoe Pilot
44	1694-J1043	1694-J1043	Fulcrum Pin
45	1694-J1056	1696-J1056	Swivel Stud
46	Std. #1	Std. #2	Door Knob
47	1396-J1325	1396-J1325	Taper Adj. Pinion Screw
48	1395-J635	1396-J516	Taper Adj. Pinion
49	1694-B243	1696-A413A	Taper Bar
50	1694-A245	1696-A424A	Taper Bar Bracket
51	1694-J1087	1694-J1087	Hex. Nut
52	1696-J1488	1696-J1488	Fulcrum Pin Plug
53	1694-C247A	1694-C247A	Taper Bar Shoe
54	1696-J1443	1696-J1443	Bracket Screw
55	1396-J1501	1396-J1501	Bracket Tee Nut

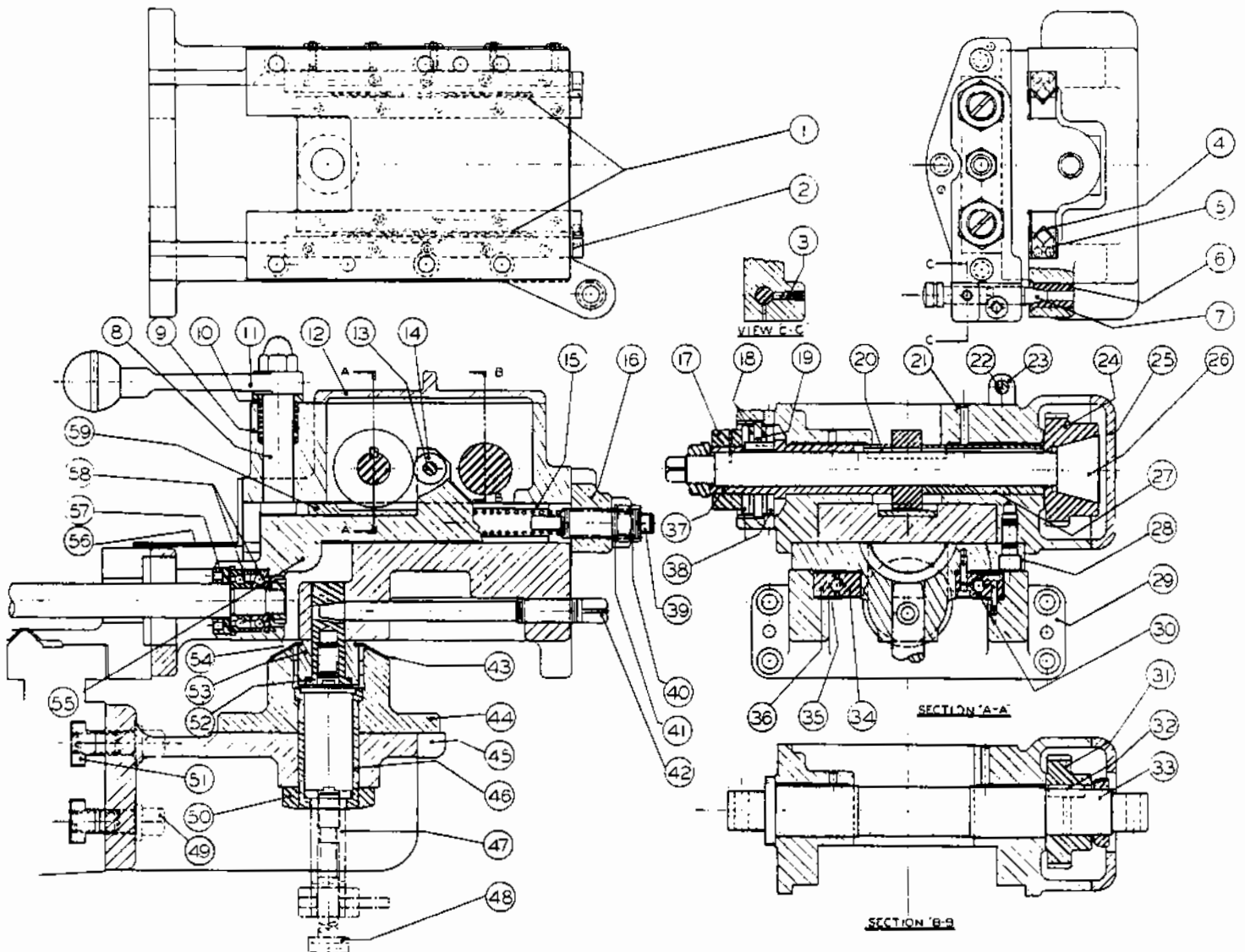


Figure 48 — Radial Relieving Attachment (Ball Bearing)
12" Lathe — Starting with Serial 23792
16" Lathe — Starting with Serial 23236



Radial Relieving Attachment (Ball Bearing)

Index No.	Part Number (12' Lathe)	Part Number (16' Lathe)	Part Name
1	.3125 Basic Dia.	.375 Basic Dia.	Precision Balls
2	1694-J1054	1696-J1436	Felt Wiper Plate
3	1696-J1393	1696-J1393	Lock Bolt Spring
4	1694-J1052	1694-J1052	Felt Wiper
5	1694-J1053	1694-J1053	Felt Wiper Retainer
6	1696-J1421	1696-J1421	Lock Bolt Bushing
7	1694-J1066	1694-J1066	Lock Bolt
8	1694-J1073	1694-J1073	Cam Release Stud
9	1696-J1199	1696-J1199	Friction Spring
10	1694-J1074	1694-J1074	Cam Release Stud Spacer
11	1696-J354	1696-J354	Cam Release Lever
12	1694-C215	1696-C362	Cam Block Cover
13	1694-J963	1696-J1280	Cam Roll Pin
14	1696-J1286	1696-J1286	Cam Roll
15	1395-J975	1395-J975	Cam Operating Spring
16	1694-C250	1696-C438	Spring Adj. Scr. Bracket
17	1396-J1229	1396-J1229	Friction Adj. Nut
18	1395-J812	1395-J812	Leather Washer
19	1395-J811A	1395-J811A	Center Friction Plate
20	1696-J1281	1696-J1281	Cam Shaft Key
21	1694-A212	1696-A359A	Cam Block
22	1694-J957	1696-J1193	Cam Block Cover Hinge Pin
23	DH2-#1	1696-J1385	Door Hinge
24	G16-44-12A	G16-52-8	Cam Shaft Gear
25	1694-C167	1696-C363	Cam Slide Bracket Cover
26	1694-C956	1696-C967A	Cam Shaft
27	1694-J955	1696-J965A	Cam Shaft Sleeve
28	1694-B252	1696-B440	Cam Block Bracket Base
29	1694-A253	1696-A441	Cross Feed Screw Bracket
30	1694-J1050	1696-J1473	Ball Separator
31	G16-44-11	G16-52-7	Auxiliary Shaft Gear
32	1694-J929	1696-J1242	Auxiliary Shaft Key
33	1694-C749A	1696-C1190	Auxiliary Shaft
34	1694-C1072	1696-C1476	Feed Scr. Bkt. — Center Way
35	1694-J1069	1696-J1472	Ball Shield
36	1694-C1071	1696-C1477	Feed Scr. Bkt. — Outer Way
37	1696-J1283	1696-J1283	Cam Shaft Sleeve — L.H.
38	1395-J809	1395-J809	End Friction Washer
39	1696-J963	1696-J963	Cam Roll Pin
40	1395-J973	1696-J976	Switch Lever Block Gasket
41	1696-J1282	1696-J1282	Slide Screw Bumper Washer
42	1694-A1065	1694-J1065	Binder Screw
43	1696-C1407A	1696-C1407A	Taper Bar Shoe Guard
44	1694-B243	1696-A413A	Taper Bar
45	1694-A245	1696-A424A	Taper Bar Bracket
46	1694-J1043	1694-J1043	Fulcrum Pin
47	1694-J1067	1694-J1067	Wrench
48	1694-J1068	1694-J1068	Wrench Screw
49	1696-J1443	1696-J1443	Bracket Screw
50	1694-J1087	1694-J1087	Taper Bar Fulcrum Nut
51	1396-J1501	1396-J1501	Bracket Tee Nut
52	1694-J1064	1696-J1474	Swivel Stud Nut
53	1694-C247	1694-C247	Taper Bar Shoe
54	1694-J1049	1696-J1409	Ball Bearing Seal
55	1694-B251	1696-B439	Cam Slide
56	1694-A15709	1696-A15713	Cross Slide Chip Guards
57	1694-J931	1696-J1179	Ball Bearing Retaining Nut
58	ND-30203DT-T3CF (AC1192)	ND-302034DT-T3CF (AC395)	1 Pair Ball Bearing Mounted DF
59	1694-J962	1696-J1188A	Cam Slide Butt Plate

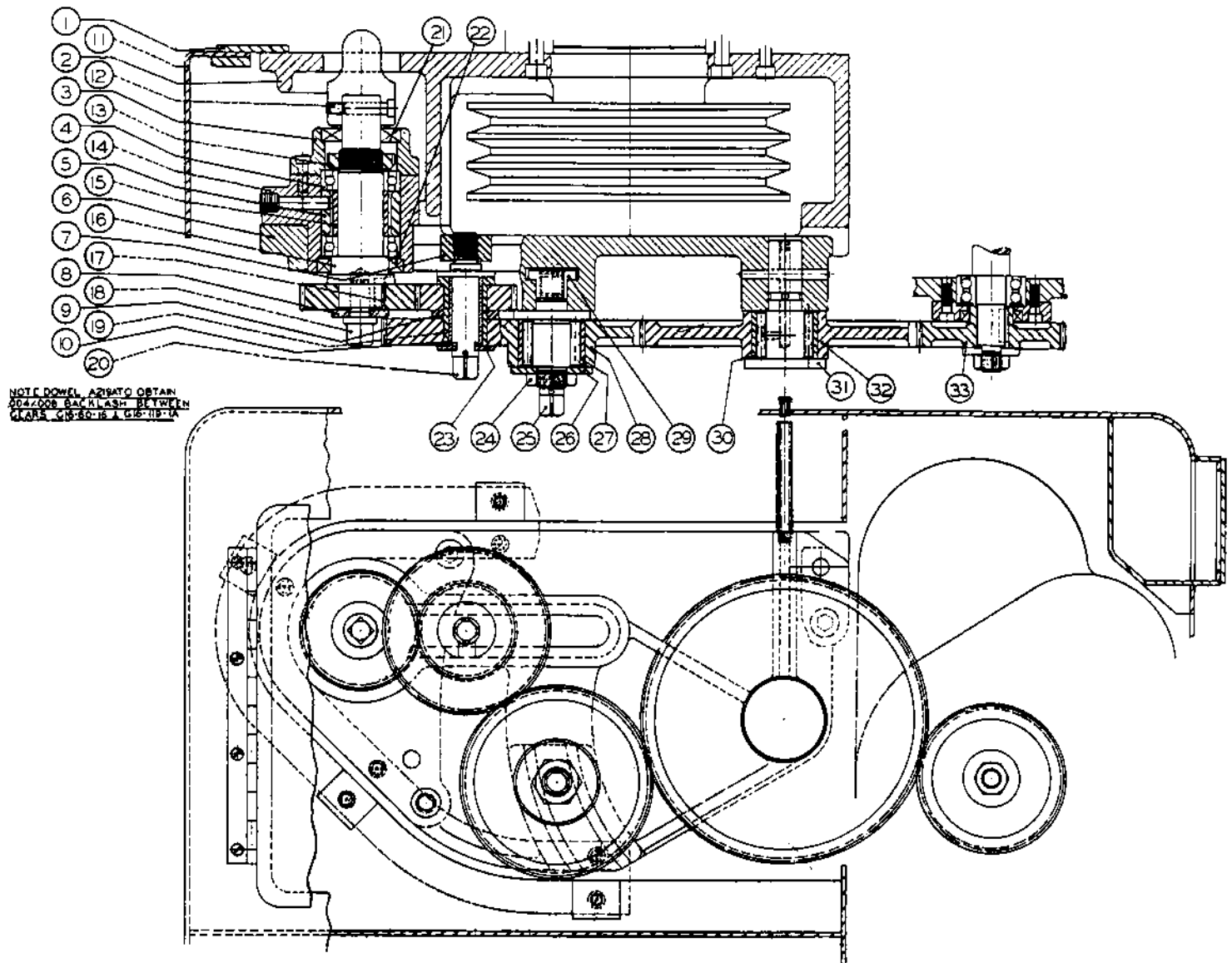


Figure 49 — Relieving Attachment Drive



Relieving Attachment Drive

Index No.	Part Number (12' Lathe)	Part Number (16' Lathe)	Part Name
1	1694-B951	1696-B1254	Guard Support
2	1694-B218	1696-A381	Drive Pulley Bracket
3	1696-C278	1696-C278	Drive Shaft Housing Cap
4	MM9506DB (AC-391)	MM9506DB (AC-391)	Fafnir Ball Bearing 1 Set
5	1696-J977	1696-J977	Ball Bearing Spacer — Outer
6	1694-A219A	1696-A380	Drive Bracket
7	1694-J760	1696-J970	Tee Slot Nut
8	1694-J758	1696-J972	Change Gear V-Washer
9	1694-J766	1696-J975	Spacer
10	1694-J177	1696-J976	Change Gear Sleeve Bushing
11	1694-A948	1696-A1259 or A1260	Head End Guard
12	1694-J1297A	1696-C980	Drive Shaft
13	1696-J978	1696-J978	W-06 Lock Washer (Altered)
14	1696-C277	1696-C277	Drive Shaft Housing
15	1696-J979	1696-J979	Ball Bearing Spacer — Inner
16	1694-C768	1696-J980	Drive Shaft
17	1694-J759	1696-A891	Stud Shaft Key
18	1694-J756	1696-J982	Relieving Attach. Drive Shaft Screw
19	1694-J767	1696-J974	Change Gear Stud — Outer Sleeve
20	1694-J765	1696-J983	Change Gear Adj. Stud — Horiz.
21	2 1/16 x 1 x 3/8	2 1/16 x 1 x 3/8	Garlock Kloxure Seal
22	2 1/4 x 1 1/2 x 3/8	2 1/4 x 1 1/2 x 3/8	Garlock Kloxure Seal
23	#1 Std. V	1694-J652A	Washer
24	N3-3/4-16	N3-3/4-16	Hex Nut
25	1694-J973	1696-J984	Change Gear Adj. Stud — Vert.
26	1694-J757	1696-J973	Change Gear Washer
27	1694-J762	1696-J971	Change Gear Bearing Bushing
28	G16-79-3	G16-108-6	Driven Gear
29	1694-J761	1696-J970	Tee Slot Nut
30	1694-J762	1696-J971	Change Gear Bearing Bushing
31	1694-C1076	1696-J981	Inter. Drive Gear Stud
32	G16-119-1A	G16-144-1	Inter. Drive Gear
33	G16-60-16	G16-60-14A	Driving Gear

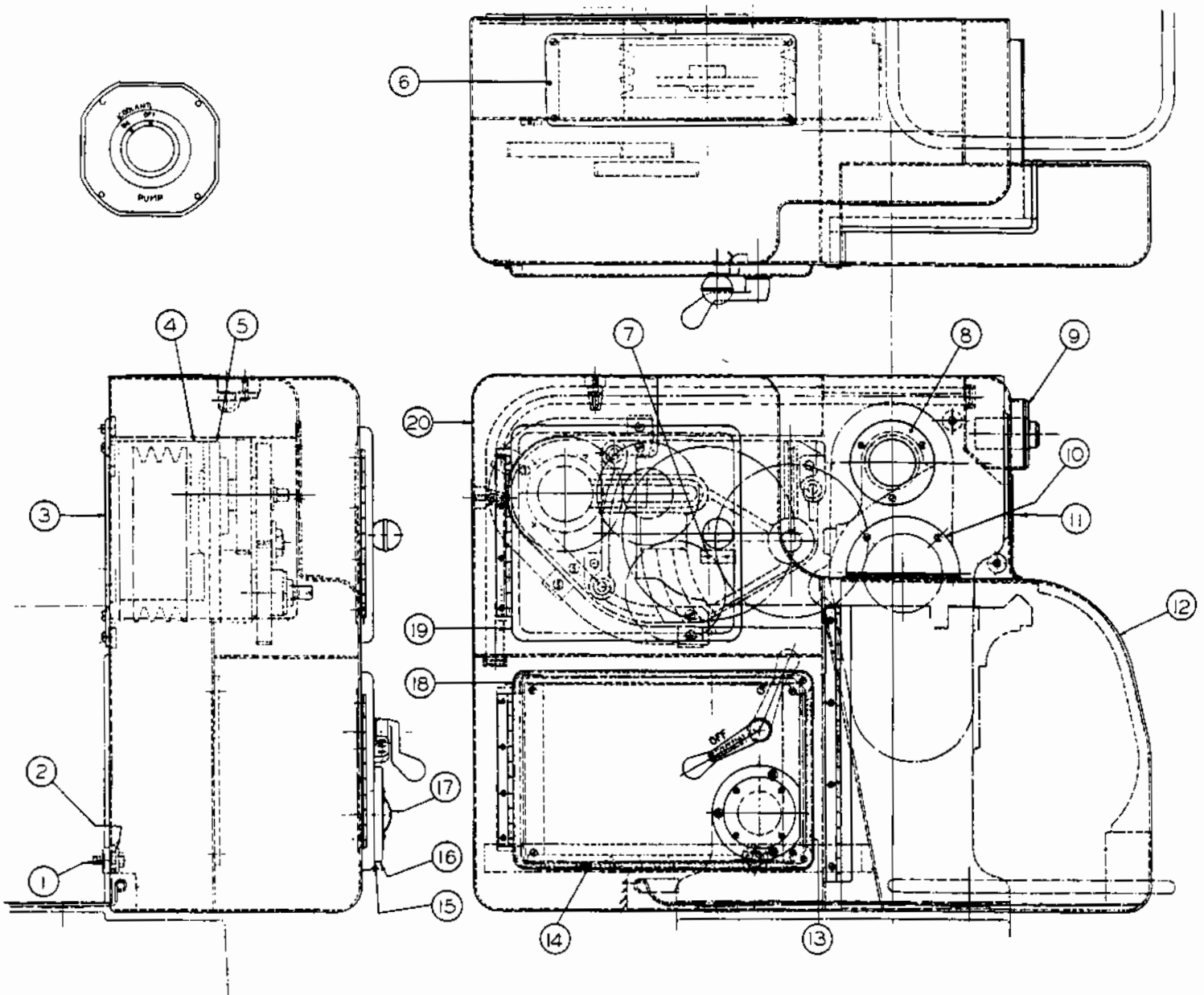


Figure 50 — Relieving Attachment Drive Guard



Relieving Attachment Drive Guard

Index No.	Part Number (12" Lathe)	Part Number (16" Lathe)	Part Name
1	1696-J1285	1696-J1285	Head End Guard Anchor Stud
2	1696-J1266	1696-J1266	Guard Screw Washer
3	1694-B951	1696-B1264	Guard Support
4	1694-A218	1696-A381	Drive Pulley Bracket
5	1694-A219A	1696-A380	Drive Bracket
6	1694-C952	1696-C1263	Guard Belt Cover
7	1696-J1267	1696-J1267	Guard Gear Cover Spring
8	1694-J941	1696-J1268	Guard Spindle Hole Cover
9	1694-C970B	1694-C970B	Push Button Plate
10	1694-C988	1696-C1305	Drive Gear Cover
11	1694-C942A	1696-C1275A	Guard Fitting Strip
12	1694-A939	1696-A1252A	Gear Guard Cover
13	1694-J954	1696-J1274	Control Cover Dust Strip — Short
14	1694-J953	1696-J1273	Control Cover Dust Strip — Long
15	1694-J972	1694-J972	Adapter Gasket
16	1694-C228	1694-C228	Selector Switch Adapter
17	1694-J968	1694-J968	Selector Cover
18	1694-B949	1696-B1262	Guard Control Cover
19	1694-B950	1696-B1261	Guard Gear Cover
20	1694-A948A	1696-A1259A	Head End Guard