

Spare Parts

GAUMONT-KALEE "18"

PROJECTOR MECHANISM

Catalogue

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G.K. 18 PROJECTOR

The projector body is a substantial box casting and bolts on to a detachable base which in turn is secured direct on to the top of the soundhead by screws accessibly situated at the front and rear, thus avoiding difficulties when fixing from the inside of either the projector or soundhead.

The projector is fitted with a grouped oiling system with an oiling block at the top of the main casting and all spindles and bearings are lubricated through feed pipes terminating at this block.

The projector gear train comprises throughout cast iron pinions and fibre gears in pairs and all spindles are hardened and ground, running in cast iron bushes. The drive to the shutter shaft, which is at right angles to the main drive, is by 45° spiral gears. Racking or framing is effected by the rotation of the intermittent unit about the sprocket axis, shutter timing compensation being automatically obtained by a quadrant and linkage sliding the spiral driven gear on the shutter shaft in synchronisation.

The intermittent unit has a large size cross and cam and all working parts are of heat treated steel and precision ground. The roller is rigidly supported on a fixed pin carried between cheeks. The flywheel is mounted directly upon the cam shaft and consequently there are no gears inside the unit. The mechanism operates inside an oiltight box casting with the required oil level easily noted through a sight window. Conveniently situated filler and drain plugs are also supplied in the box casting. The unit is rigidly supported in the projector in a long fixed quill in which it rotates for masking.

The gate is rigidly constructed and fitted with an adjustable tension device operated by a knob on the front edge of the gate block, the rotation of which increases or decreases the spring tension on the film skates. The gate itself opens like a book, the hinge being held in position by a spring loaded catch fitted on the front face of the projector. When this is released the gate block, complete with guide rollers and adjustable shoe for the intermittent sprocket can easily be removed.

The mask plate is of hardened steel and retained in slots in the gate bracket from which it is readily detachable when the gate is opened. Twin apertures are provided; the lower one is the projector aperture and the upper for verification that the film is in frame when threading up.

The lens holder accepts standard 2.781" diameter lenses. This diameter is clear to within 1" of the film and an adaptor is supplied for use with smaller lenses, i.e. 2.062" diameter.

A fire shutter is fitted between the twin bladed rear shutter and the gate and is operated from a centrifugal governor mechanism mounted on the top intermediate gear.

A 16 T hardened and ground intermittent sprocket is fitted along with 24 T sprockets on the top and bottom shafts.

The Pyrene fire extinguisher equipment comprises a sealed cylinder of compressed carbon dioxide gas and a spring loaded piercer which penetrates the seal, thus releasing the gas. This is held in check by a celluloid loop and a quick burning gun-cotton fuse instantly transmits any fire to the loop which ignites and releases the piercer. Pipes conduct the gas to various points along the film path, effectively quenching any fire. The gas is also led into both top and bottom spool boxes and to "knock-off" switches, thus cutting the power supply to both driving motor and lamp and completely shutting down the equipment.

PROJECTOR MECHANISM

OILING INSTRUCTIONS

1. Oil daily all points on the block situated at the top of the projector main frame.
2. Check oil level in the inter-unit, maintaining the level as and when necessary. **Important.**—Use Kalee "Superoil" only.
3. Oil all rollers, etc., and carefully wipe off any excess.

OPERATING INSTRUCTIONS

The Gate

1. Raise lens complete with holder.
2. Release the catch on the front face of the gate and open like a book.
3. The adjustable tension plate complete with guide rollers, pressure skates, etc., may be removed complete by opening the gate as above and then opening the spring loaded catch on the front face of the projector and thus releasing the hinge pin of the gate. The tension on the skates is adjustable by means of the knob on the front, the minimum being when set at No. 1 and increasing to the maximum at No. 5. It will generally be found that the most satisfactory results are given at settings 1, 2 or 3, and No. 5 need only be used under extreme conditions.
4. The mask plate lifts directly out of the slots in the bracket when the gate is open.

Top and Bottom Sprockets

For threading, the roller bracket is rotated on its pivot away from the sprocket. A set screw provides adjustment in the closed position and this is set before leaving the factory, giving two thicknesses of film between the rollers and the sprocket.

Timing of the Shutter

The shutter is mounted on a boss and is secured from the rear by a clamp ring. For removing bottom ghost on picture rotate the shutter clockwise on its boss. N.B.—Care must be taken that the clamp screws are re-tightened before running the projector.

Masking

This is controlled by the knob on the operating side of the projector. A clutch is incorporated in this knob, giving automatic lock against slip in either direction.

INSTRUCTIONS FOR REMOVAL OF UNITS

1. Adaptor Gear

Remove gear covers.

Release set screws in thrust collar and remove locking screw from end of shaft.

The complete compound gear may then be withdrawn.

2. Inter Sprocket

Raise lens along with holder.

Remove gate plate by opening the gate and releasing the pivot bar by the catch on the face of the projector.

Remove stripper which is secured at the bottom of the gate bracket.

Remove screw and key washer, etc., at the end of the sprocket spindle and the sprocket may then be withdrawn.

N.B.—This sprocket is reversible on the spindle. Care should be taken not to damage the teeth.

3. Intermittent Unit

Remove sprocket as above.

Remove rear cover of projector, secured by single fixing screw in top centre.

Release special $\frac{3}{8}$ " clamp nut and the complete unit may then be withdrawn from rear of machine.

4. Gate Bracket

Remove inter sprocket as (2).

Release two screws securing the gate to the front face of the projector and the gate can be withdrawn from the locating dowels.

5. Top Sprocket

Remove sprocket stripper.

Release set screw and sprocket may be withdrawn off shaft.

N.B.—When replacing, note the position of the flat for the set screw on the shaft.

6. Top Sprocket Unit

After removing rear cover, remove top sprocket driving gear from rear of machine. (Note this is located by Woodruff key).

Remove oil feed pipe from location hole in bearing.

Release screws securing bearing housing on front face of the projector and complete unit may be withdrawn from the front.

7. Bottom Sprocket

Remove in same manner as top sprocket—See (5).

8. Bottom Sprocket Unit

After removing rear cover, remove bottom inter gear.

Remove driving gear from bottom sprocket shaft. Note that this is located by Woodruff key.

Remove oil feed pipe from locating hole in bearing housing.

Release screws securing housing to front face of projector, when the unit may be withdrawn complete from the front of the projector.

9. Masking Knob and Unit

Release set screws and large domed head screw in front of knob when the complete knob can be withdrawn. N.B.—Take care not to lose the rollers from the clutch mechanism.

10. Shutter Shaft

Remove the rear half of the shutter case.

After removing the gear cover remove intermittent unit—(See Paragraph 3)

Remove idler gear assembly, bottom compound gear, and shutter driving gear.

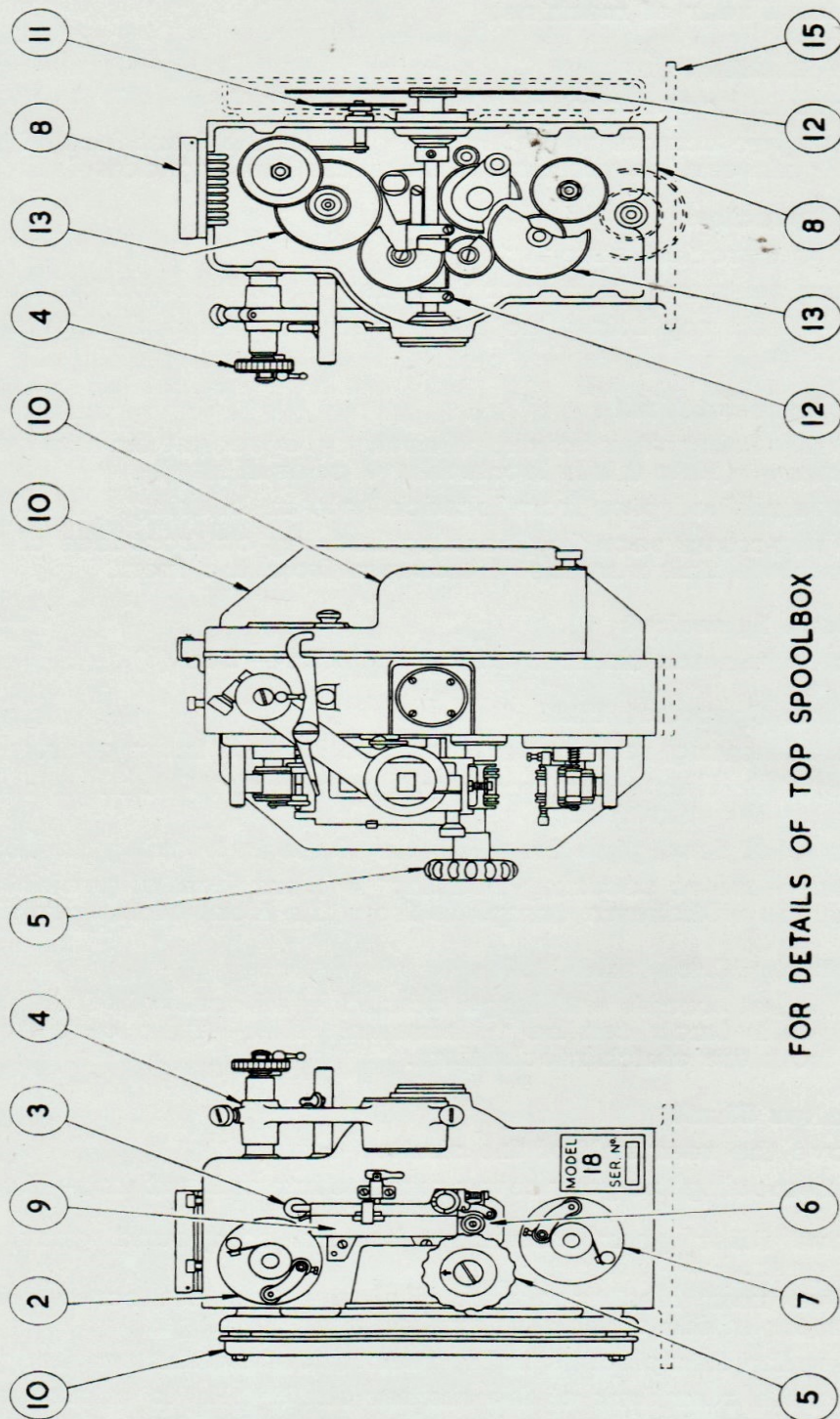
Remove rear shutter cover. Release two set screws in the thrust collar on the inside of the shutter shaft rear bearing.

Release the clamp screw in the rear fork of the shutter shaft yoke.

Spring the rear fork of the shutter shaft yoke to ensure easy removal of the bush and withdraw the shaft complete with shutter so that the Woodruff key driving the shutter gear displaces the bush from the yoke, after which the Woodruff key can be removed and the shaft withdrawn completely through the rear shutter shaft bearing. Care should be taken that the shutter gear, Woodruff key, bush from the shutter shaft yoke and thrust collar do not drop into the well of the projector, damaging gears, etc.

KEY PLATE G.K. 18 MECHANISM

WHEN ORDERING SPARE PARTS — ALWAYS STATE THE PART N° & THE PROJECTOR SERIAL N°.



FOR DETAILS OF TOP SPOOLBOX

SEE PLATE N°14

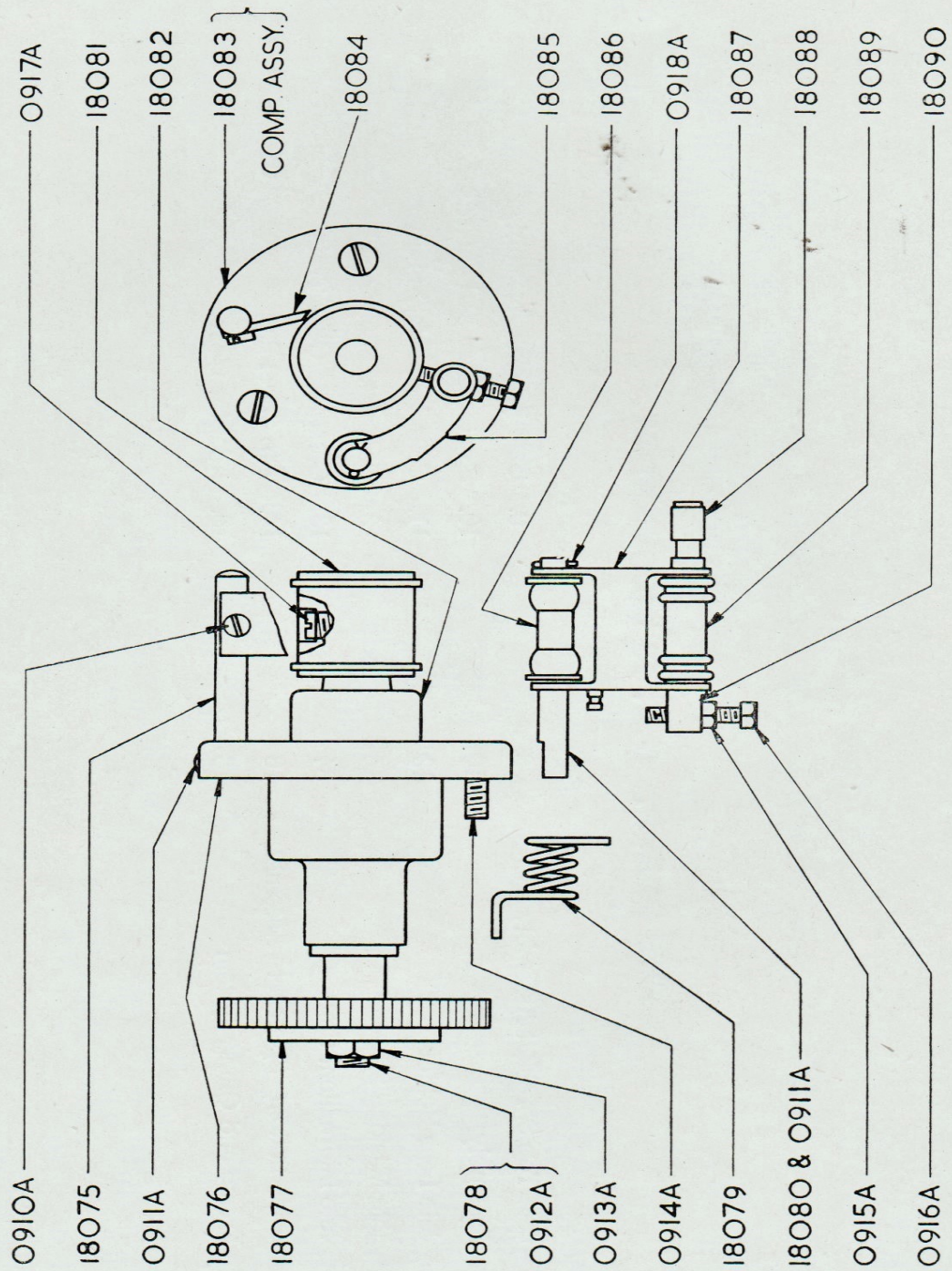
ENCIRCLED FIGURES REFER TO PLATE N°5.

KEY PLATE. G.K. 18 MECHANISM

Plate No.	Page	Plate No.	Page
2. Complete Top Sprocket Assembly	8	9. Gate Bracket Assembly	20
3. Gate Assembly	10	10. Shutter Case and Guards	22
4. Complete Lens Holder	12	11. Complete Safety Shutter	24
5. Complete Masking Sleeve	14	12. Complete Shutter Yoke	26
6. Complete Intermittent Unit	34	13. Complete Gear Train	28
7. Complete Bottom Sprocket Assembly	16	14. Top Spool Box	30
8. Main Frame and Oiling System	18	15. Adaptor Gear	32

COMPLETE TOP SPROCKET ASSEMBLY (18083)

Plate No. 2



1-1810-52

COMPLETE TOP SPROCKET ASSEMBLY

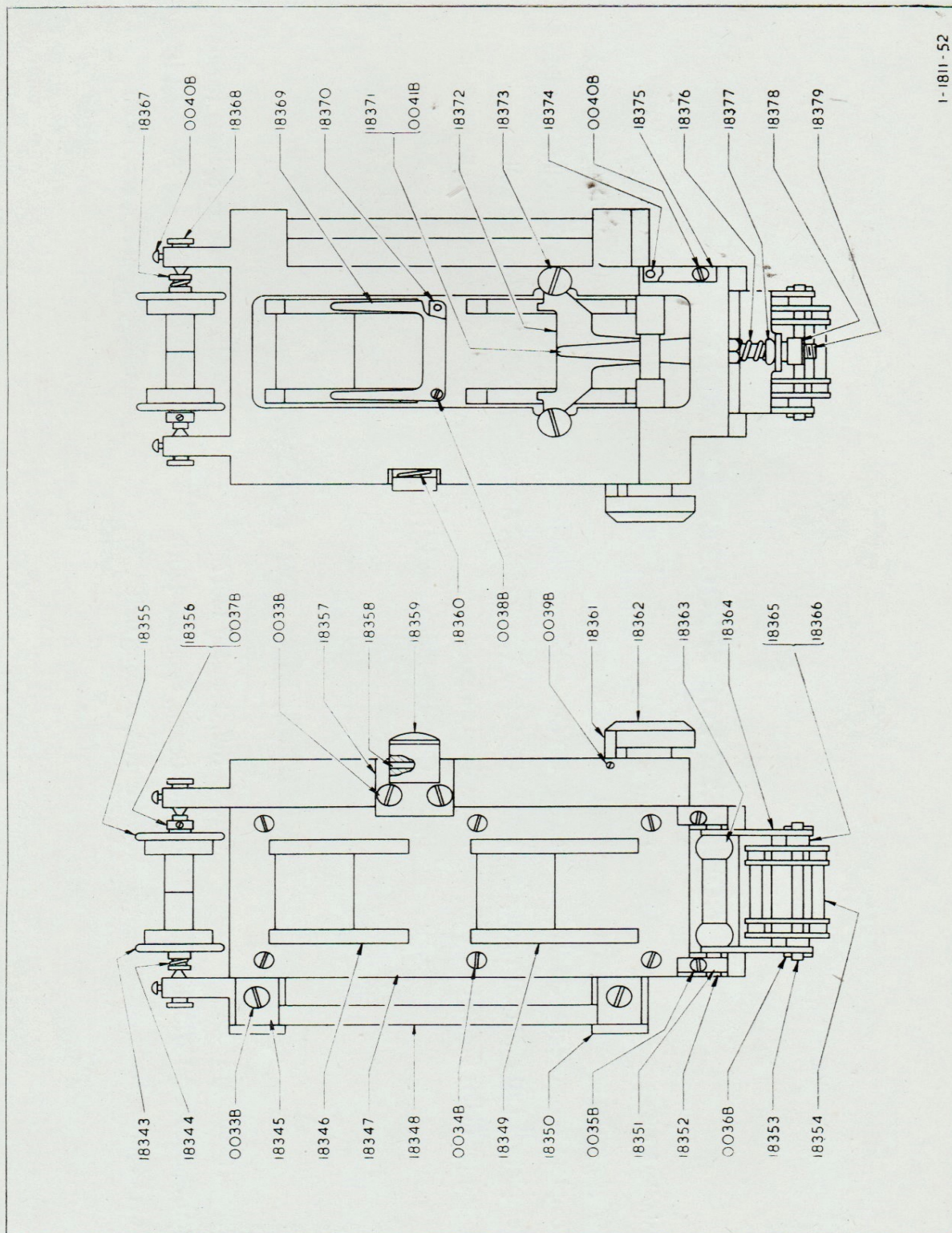
18075	Spindle for Stripper	18080	Spindle for Roller Bracket	18086	Guide Roller
18076	Complete Top Sprocket Bearing	18081	Top Sprocket	18087	Frame with Spring Stud
18077	Complete Top Sprocket Gear	18082	Oil Cover	18088	Knob for Roller Spindle
18078	Complete Spindle with Oil Thrower	18083	Complete Top Sprocket Assembly	18089	Grooved Roller
18079	Spring for Roller Bracket	18084	Film Stripper	18090	Complete Roller Spindle
		18085	Complete Roller Bracket		

WASHERS, PINS AND SCREWS

0910A	Screw, Securing 18084	0913A	Nut, Securing 18077	0916A	Screw for Spindle 18090
0911A	Screw, Securing 18075, 18080	0914A	Screw, Securing 18076	0917A	Screw, sec. Sprocket 18081
0912A	Key, Securing 18077	0915A	Nut, Locking 0916A	0918A	Split Pin, sec. 18080

GATE ASSEMBLY (18380)

Plate No. 3



COMPLETE ADJUSTABLE PRESSURE GATE

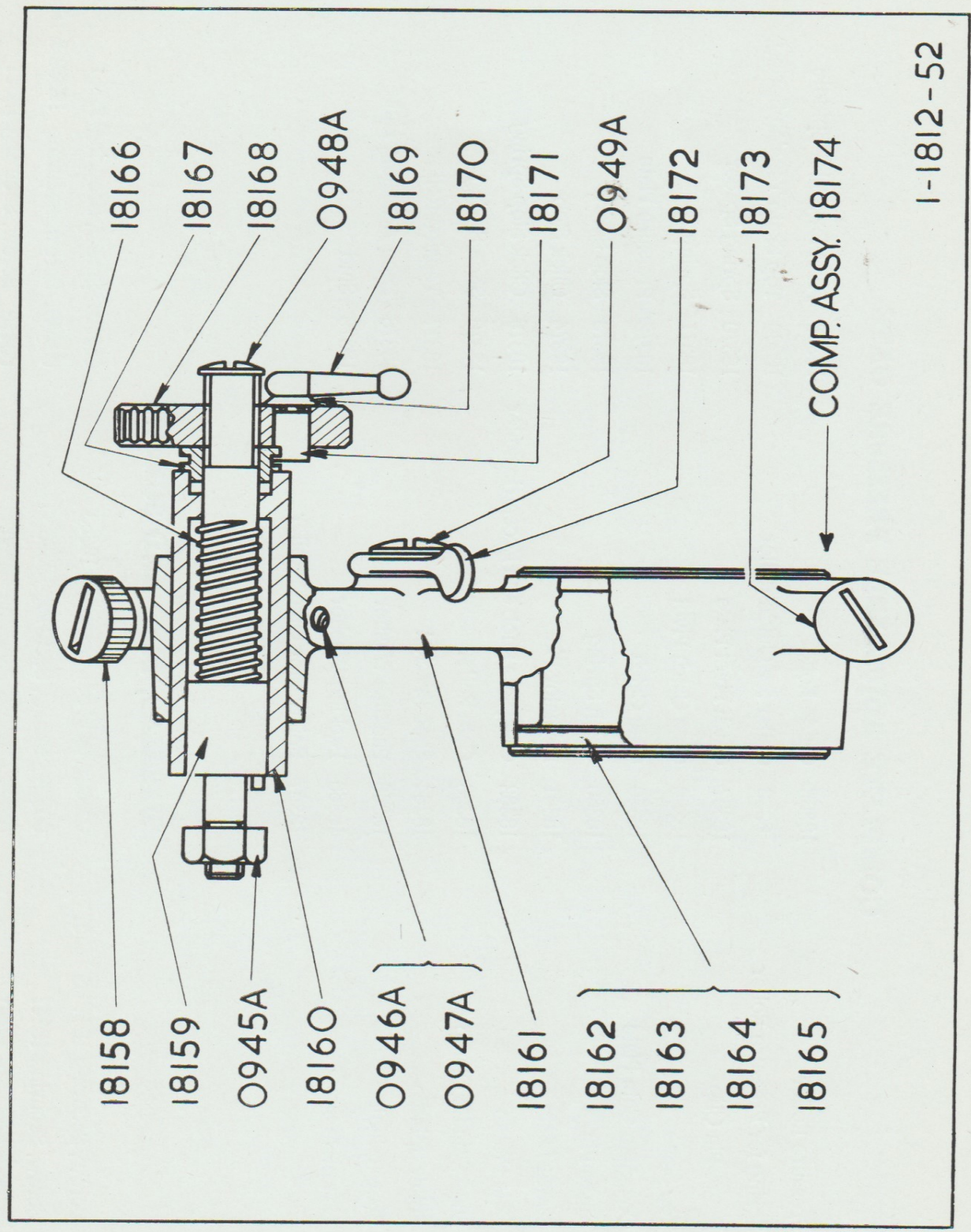
18343	Pressure Roller	18355	Guide Roller	18368	Pivot for Roller Spindle
18344	Spring for Pressure Roller	18356	Collar for Guide Roller	18369	Top Skate Tension Spring
18345	Hinge Pin Clip	18357	Catch Pivot Plate	18370	Spring Spacer
18346	Top Skate	18358	Gate Catch Pivot	18371	Spring
18347	Complete Gate Plate	18359	Gate Catch	18372	Pressure Plate
18348	Hinge Pin	18360	Catch Spring	18373	Stop Screw
18349	Lower Skate	18361	Indicator Pin	18374	Click Stop
18350	Gate Frame	18362	Complete Knob and Eccentric Roller	18375	Click Stop Spring
18351	Shoe Spindle Clamp	18363	Gate Roller	18376	Shoe Spring
18352	Roller Spindle	18364	Shoe Bracket	18377	Tension Roller
18353	Shoe Spindle	18366	Packing Washer	18378	Shoe Adjusting Nut
18354	Complete Shoe	18365	Packing Washer	18379	Stud
		18367	Spindle for Guide Roller		

WASHERS, PINS AND SCREWS

0033B	Screw, Securing 18345 & 18357	0036B	Split Pin, Securing 18353	0039B	Screw, Securing 18361
0034B	Screw, Securing 18347	0037B	Screw, Securing 18356	0040B	Screw, Securing 18368 & 18375
0035B	Screw, Securing 18351	0038B	Screw, Securing 18369	0041B	Screw, Securing 18371

COMPLETE LENS HOLDER (18174)

Plate No. 4



1-1812-52

COMPLETE LENS HOLDER. G.K. 18. MECHANISM

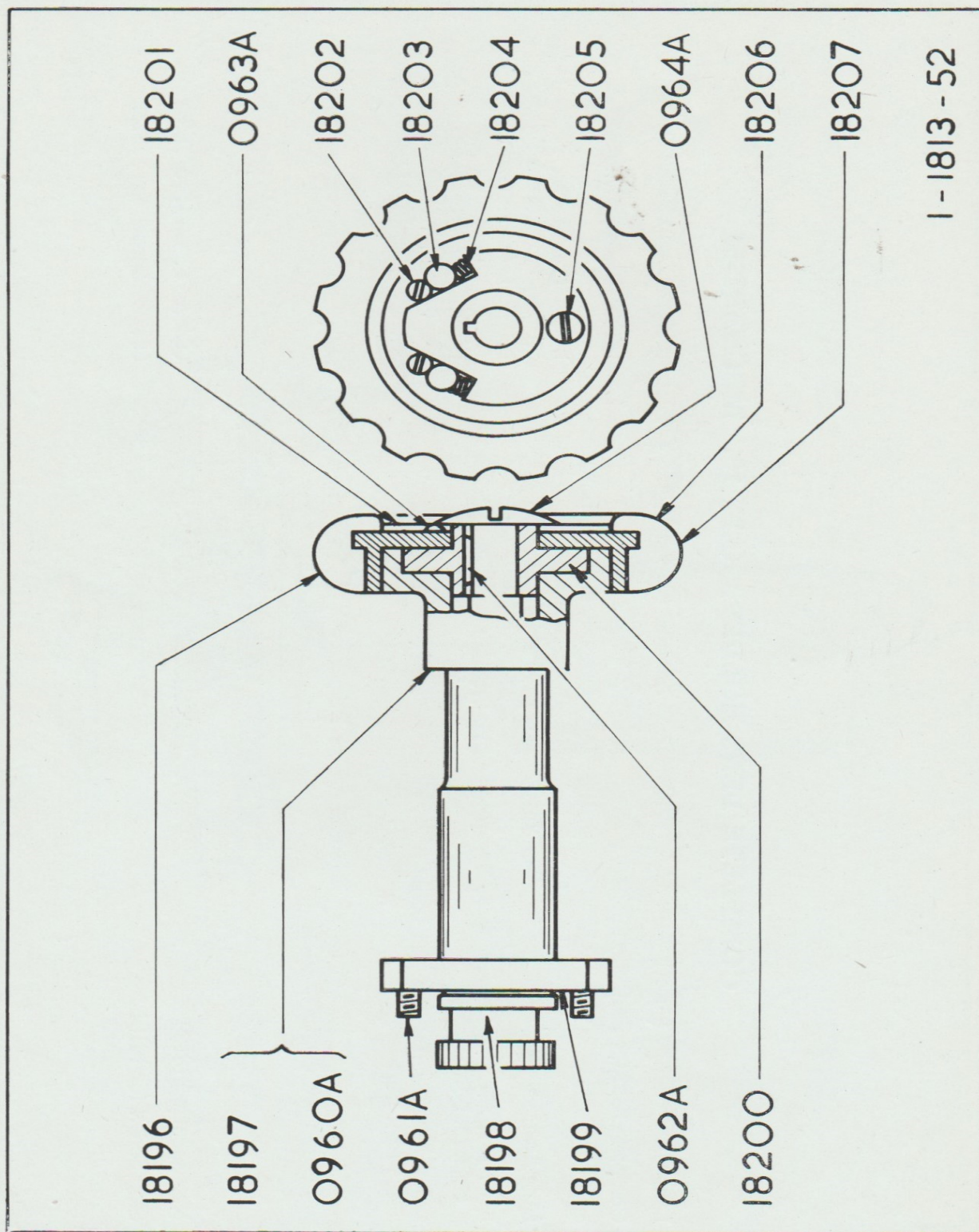
18158	Lens Clamp Screw (short)	18164	Lens Adapter (Series H. $4\frac{1}{4}" \times 4"$), 52 $\frac{1}{2}$ mm. bore	18169	Clamp Handle
18159	Complete Stud for Projection Lens			18170	Packing Washer
18160	Sleeve	18165	Lens Adapter, 52 $\frac{1}{2}$ mm. bore	18171	Clamp Stud
18161	Lens Arm	18166	Compression Spring	18172	Latch for Lens Arm
18162	Lens Adapter (super C $4" \times 4\frac{1}{2}"$ - 52 $\frac{1}{2}$ mm. bore)	18167	Key Washer	18173	Lens Clamp Screw (long)
18163	Lens Adapter (series A Lens), 42 $\frac{1}{2}$ mm. bore	18168	Focussing Nut	18174	Complete Lens Holder

WASHERS, PINS AND SCREWS

0945A	Nut, Securing 18159	0947A	Nut, Securing 0946A	0948A	Screw, Sec. 18159
0946A	Stop Screw for 18161			0949A	Screw, Sec. 18172

COMPLETE MASKING SLEEVE (18207)

Plate No. 5



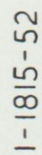
COMPLETE MASKING SLEEVE. G.K. 18 MECHANISM

18196	Masking Knob	18200	Clutch Hub	18204	Clutch Roller Spring
18197	Clutch Shell	18201	Label	18205	Driving Pin
18198	Spindle and Gear	18202	Roller Release Screw	18206	Complete Masking Knob
18199	Sleeve	18203	Clutch Roller	18207	Complete Masking Spindle

WASHERS, PINS AND SCREWS

0960A	Screw, Sec. 18197	0962A	Woodruff Key	0963A	Screw, Sec. 18201
0961A	Screw, Sec. 18199			0964A	Screw, Sec. 18196

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COMPLETE BOTTOM SPROCKET ASSEMBLY. G.K. 18 MECHANISM

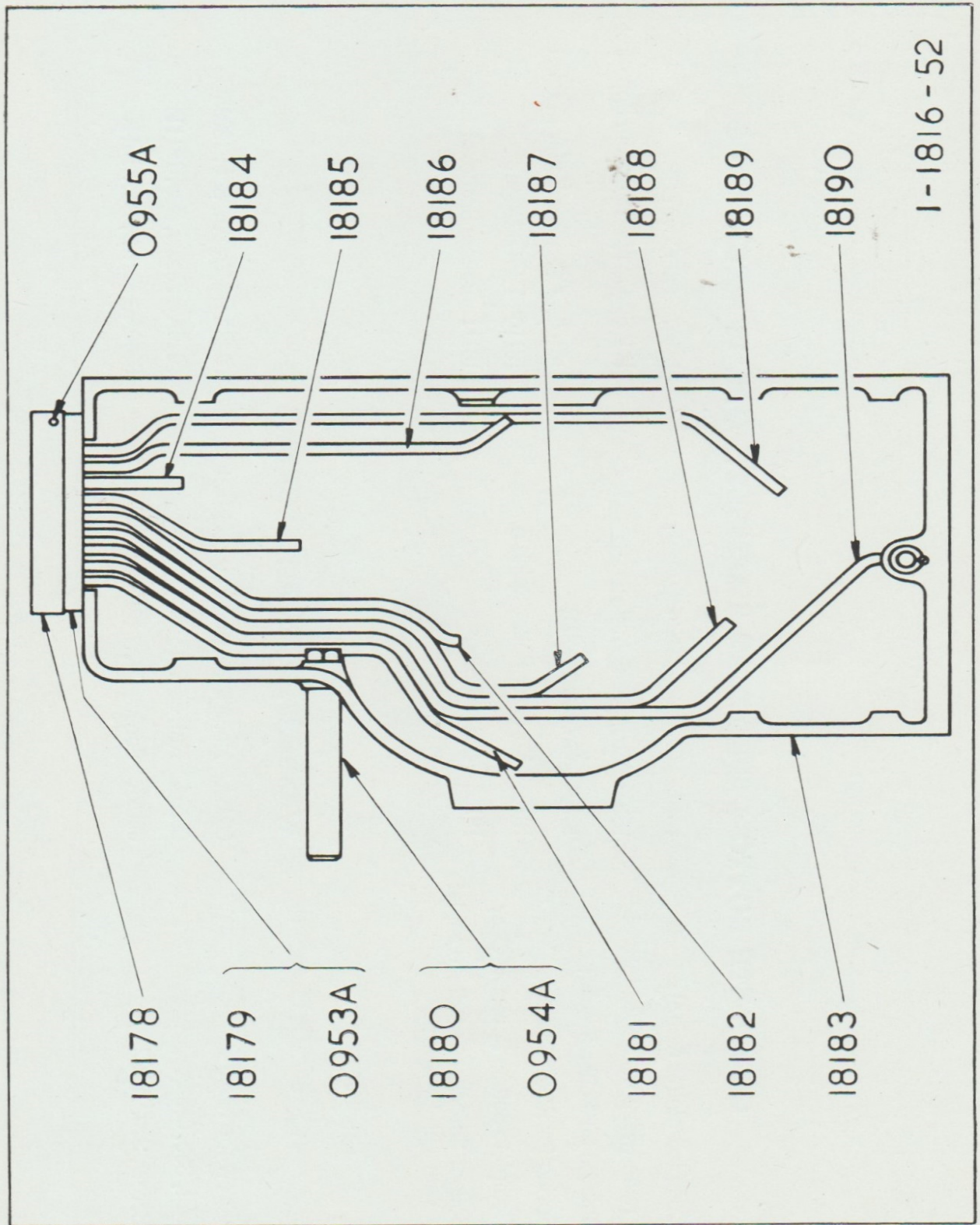
18096	Complete Roller Spindle	18102	Complete Main Bearing	18107	Oil Cover
18097	Frame with Spring Stud	18103	Stripper Spindle	18108	Complete Bottom Sprocket Assembly
18098	Spindle for Roller Bracket	18104	Grooved Roller	18109	Complete Roller Bracket
18099	Spring for Roller Bracket	18105	Knob for Roller Spindle	18110	Film Stripper
18100	Complete Bottom Sprocket Gear	18106	Guide Roller	18111	Bottom Sprocket
18101	Bottom Sprocket Spindle complete with Oil Thrower				

WASHERS, PINS AND SCREWS

0922A	Screw for 18096	0925A	No. 2 Woodruff Key on 18101	0928A	Split Pin, Sec. 18098
0923A	Nut, Sec. 0922A	0926A	Nut, Sec. 18100	0929A	Screw, Sec. 18111
0924A	Screw, Sec. 18102	0927A	Screw, Sec. 18103, 18098	0930A	Screw, Sec. 18110

MAIN FRAME AND OILING SYSTEM (18191)

Plate No. 8



MAIN FRAME AND LUBRICATION SYSTEM. G.K. 18 MECHANISM

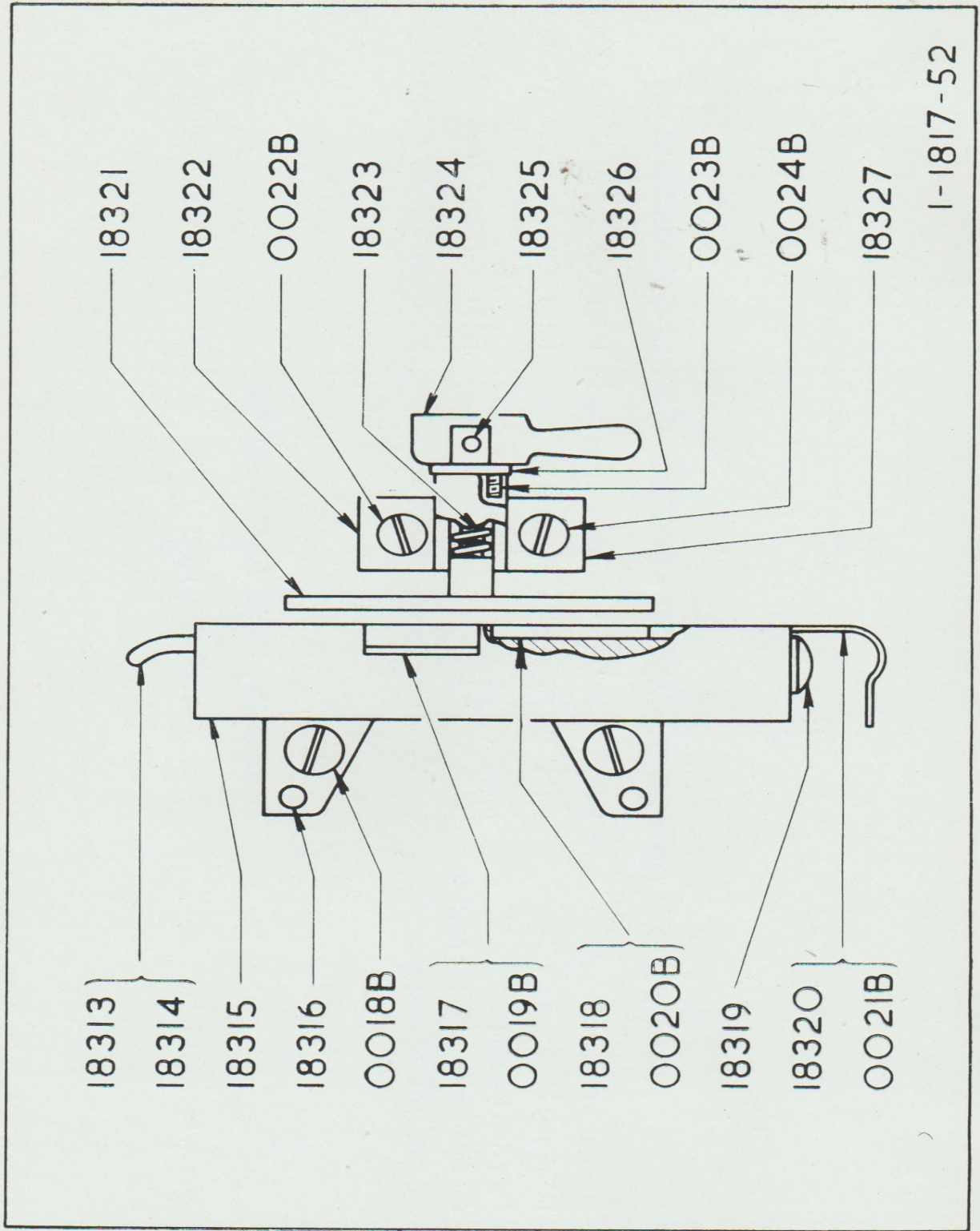
18178	Lubricator Cover	18183	Main Frame with Adaptor Post Bush	18187	Oil Pipe for Shutter Gear Flange
18179	Lubricator Block	18184	Oil Pipe for Top Sprocket Bearing	18188	Oil Pipe for Bottom Compound Gear Flange
18180	Lens Arm Stop Pin	18185	Oil Pipe for Top Compound Gear Flange	18189	Oil Pipe for Bottom Sprocket Bearing
18181	Oil Pipe for Front Shutter Bearing			18190	Oil Pipe for Adaptor Gear Post
18182	Oil Pipe for Idler Gear Flange	18186	Oil Pipe for Rear Shutter Bearing		

WASHERS, PINS AND SCREWS

0953A	Screw, Securing 18179	0954A	Nut, Securing 18180	0955A	Split Pin, Securing 18178
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GATE BRACKET ASSEMBLY (18328)

Plate No. 9



COMPLETE GATE BRACKET. G.K. 18 MECHANISM

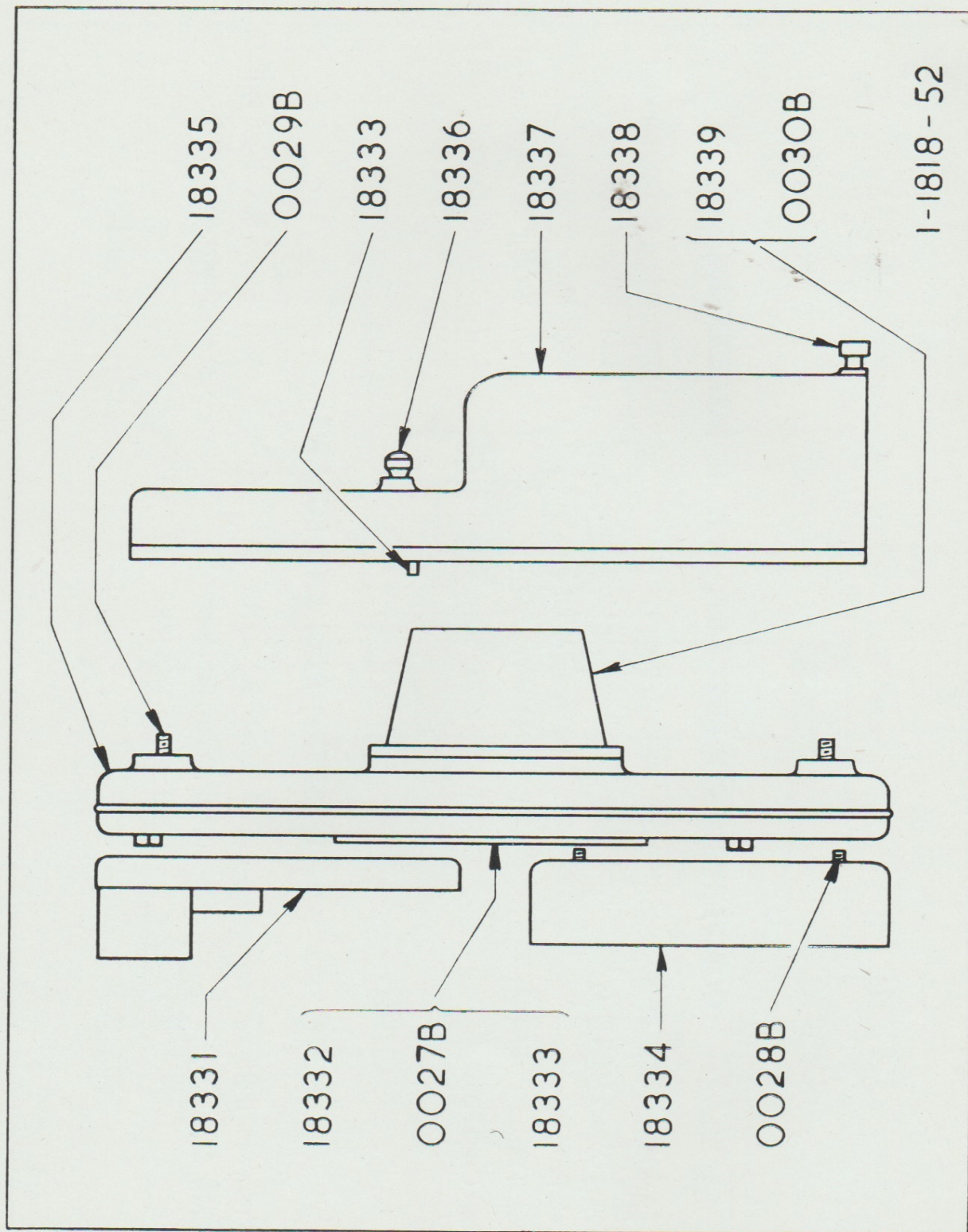
18313	Square Corner Mask Plate	18318	Reflector Plate	18323	Spring for Catch Bracket
18314	Round Corner Mask Plate	18319	Stop Screw for Mask Plate	18324	Release Lever
18315	Gate Bracket	18320	Inter Sprocket Stripper	18325	Lever Pivot Pin
18316	Dowel Pin	18321	Complete Pressure Bar	18326	Washer for Catch Bracket
18317	Gate Catch Plate	18322	Gate Hinge Catch Bracket	18327	Complete Quick Release Bracket

WASHERS, PINS AND SCREWS

0018B	Screw, Sec. 18315	0020B	Screw, Sec. 18318	0023B	Screw, Sec. 18326 to 18322
0019B	Screw, Sec. 18317	0021B	Screw, Sec. 18320	0024B	Screw, Sec. 18322
		0022B	Screw, Sec. 18322		

SHUTTER CASE AND GUARDS (18340)

Plate No. 10



SHUTTER CASE. G.K. 18 MECHANISM

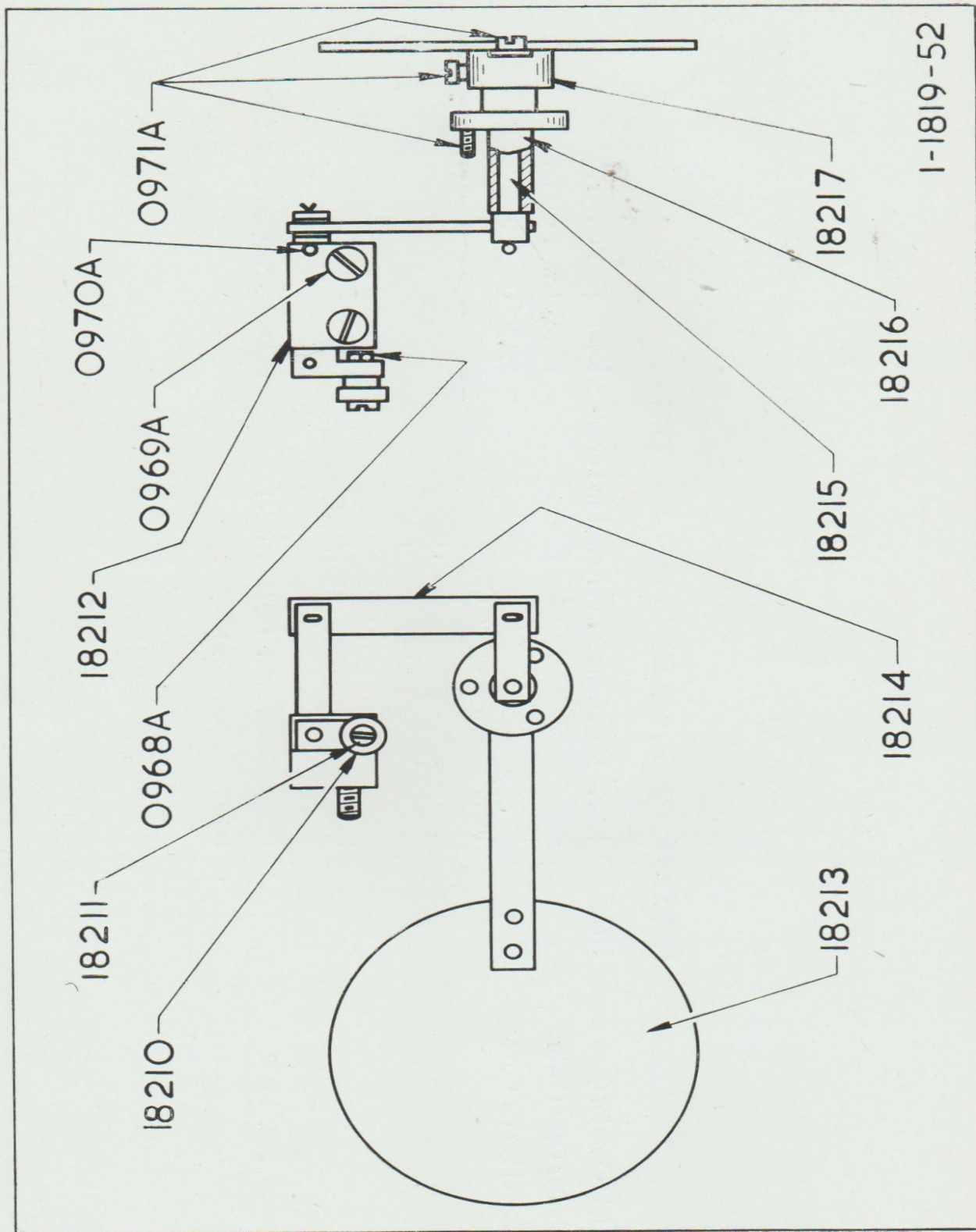
18331	Light Cone for Commander Arcclamp	18334	Light Cone for Universal and President Arcclamps	18337	Rear Cover
18332	Shutter Case Cover	18335	Shutter Case	18338	Lower Clamp
18333	Dowel Pin for Cover	18336	Screw Securing Cover	18339	Gate Cone

WASHERS, PINS AND SCREWS

0027B	Screw, Sec. 18332	0028B	Screw, Sec. 18334 or 18331	0030B	Screw, Sec. 18339
		0029B	Screw, Sec. 18335		

COMPLETE SAFETY SHUTTER (18218)

Plate No. 11



COMPLETE SAFETY SHUTTER. G.K. 18 MECHANISM

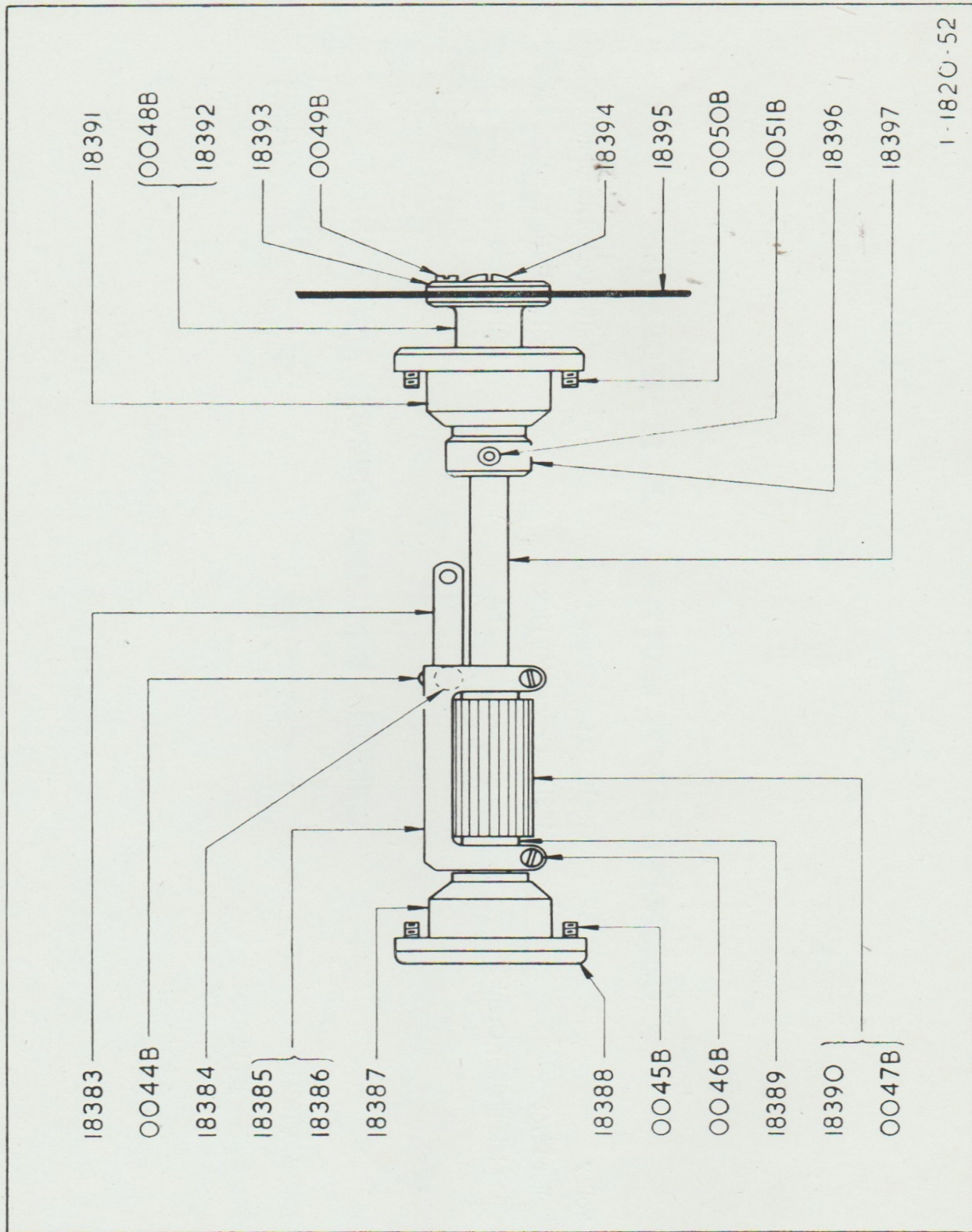
18210	Roller	18213	Safety Shutter Disc	18215	Complete Shutter Pivot
18211	Roller Pivot	18214	Connecting Link	18216	Bearing
18212	Complete Shutter Crank			18217	Boss

WASHERS, PINS AND SCREWS

0968A	Nut, Sec. 18211	0970A	Split Pin P.1118	0971A	Screw, Sec. } 18216
0969A	Screw, Sec. 18212				18217
					18213

COMPLETE SHUTTER YOKE (18398)

Plate No. 12



1-1820-52

COMPLETE YOKE ASSEMBLY

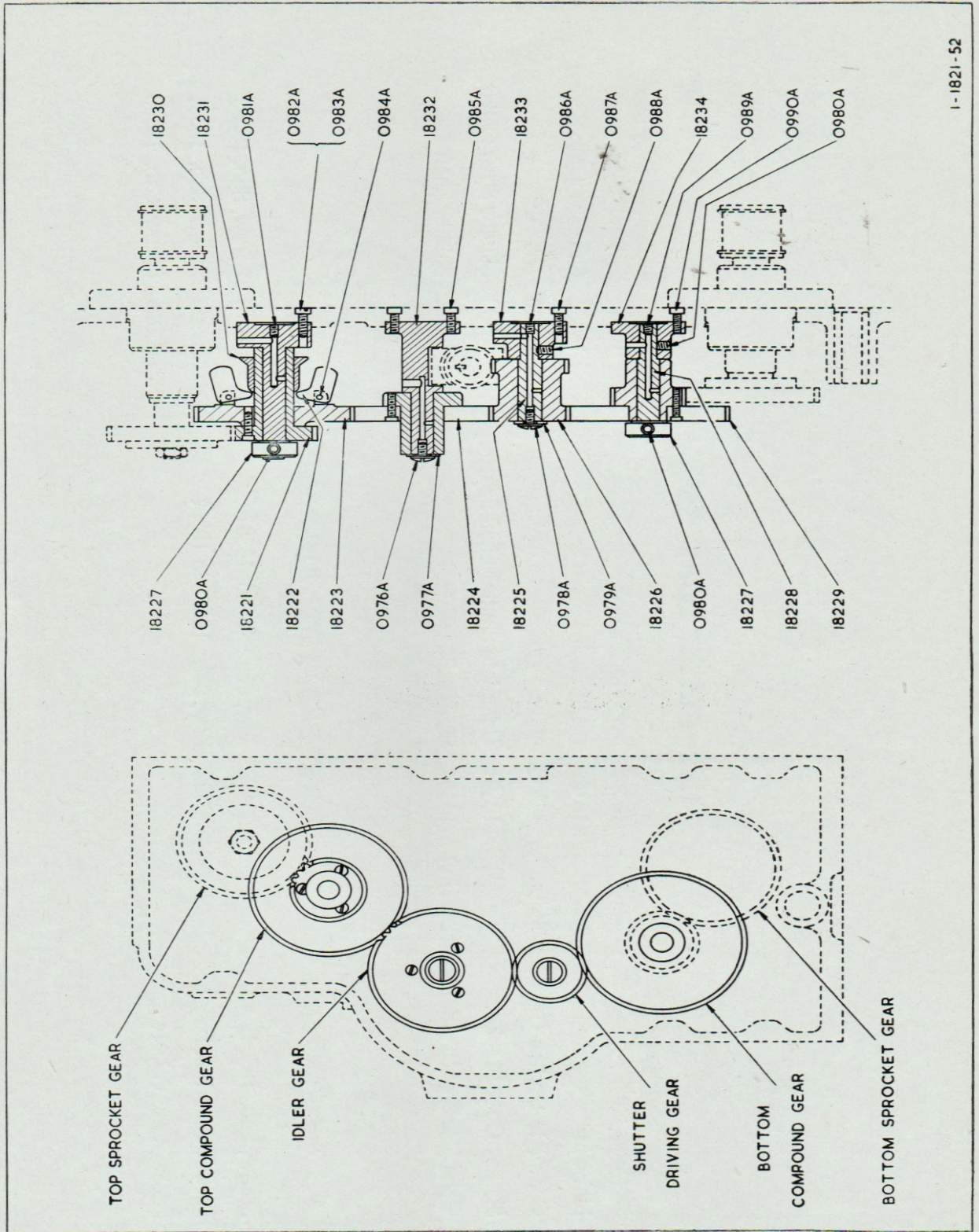
18383	Masking Link	18388	Bearing Cap	18393	Shutter Ring
18384	Link Pin	18389	Oilite Bush	18394	Shutter Clamp Screw
18385	Complete Shutter Gear Bracket	18390	Shutter Gear	18395	Shutter
18386	Shutter Gear Bracket	18391	Complete Shutter Shaft Bearing	18396	Shutter Shaft Collar
18387	Complete Front Shutter Shaft Bearing	18392	Shutter Boss	18397	Shutter Shaft

WASHERS, PINS AND SCREWS

0044B	Screw, Sec. 18384	0047B	Key, Sec. 18390, 18397	0049B	Screw, Sec. 18393
0045B	Screw, Sec. 18387	0048B	Key, Sec. 18392 to 18397	0050B	Screw, Sec. 18391
0046B	Screw, Sec. OP.444			0051B	Screw, Sec. 18396

COMPLETE GEAR TRAIN (18235)

Plate No. 13



COMPLETE GEAR TRAIN. G.K. 18 MECHANISM

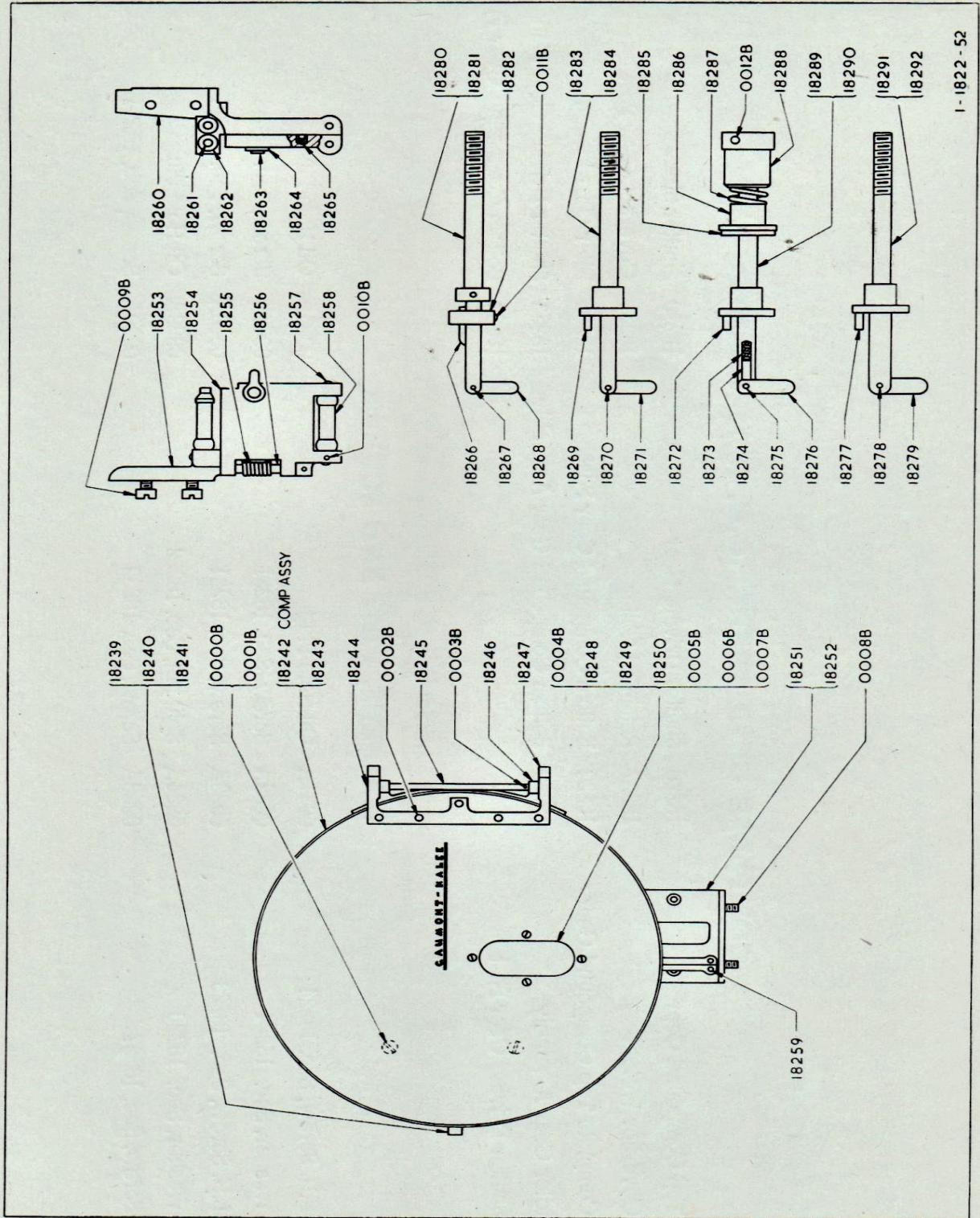
18221	Top Compound Gear	18226	Shutter Driving Gear	18230	Shutter Sleeve
18222	Governor Weight	18227	Retaining Collar	18231	Governor Gear Post
18223	Complete Top Compound Gear	18228	Bottom Compound Gear Post	18232	Idler Gear Flange
18224	Idler Gear Assembly	18229	Bottom Compound Gear Assembly	18233	Shutter Driving Gear Flange
18225	Shutter Driving Gear Post			18234	Bottom Compound Gear Flange

WASHERS, PINS AND SCREWS

0976A	R.H. Screw, Sec. 18224	0981A	Oil Hole Plug	0986A	Oil Hole Plug
0977A	Washer, Sec. 18224	0982A	Screw, Sec. 18231	0987A	Screw, Sec. 18233
0978A	L.H. Screw, Sec. 18226	0983A	Screw, Sec. 18231	0988A	Screw, Sec. 18225
0979A	Washer, Sec. 18226	0984A	Split Pin, Sec. 18222	0989A	Oil Hole Plug
0980A	Screw, Sec. 18227	0985A	Screw, Sec. 18232	0990A	Screw, Sec. 18234

TOP SPOOL BOX (18242)

Plate No. 14



COMPLETE TOP SPOOLBOX. G.K. 18 MECHANISM

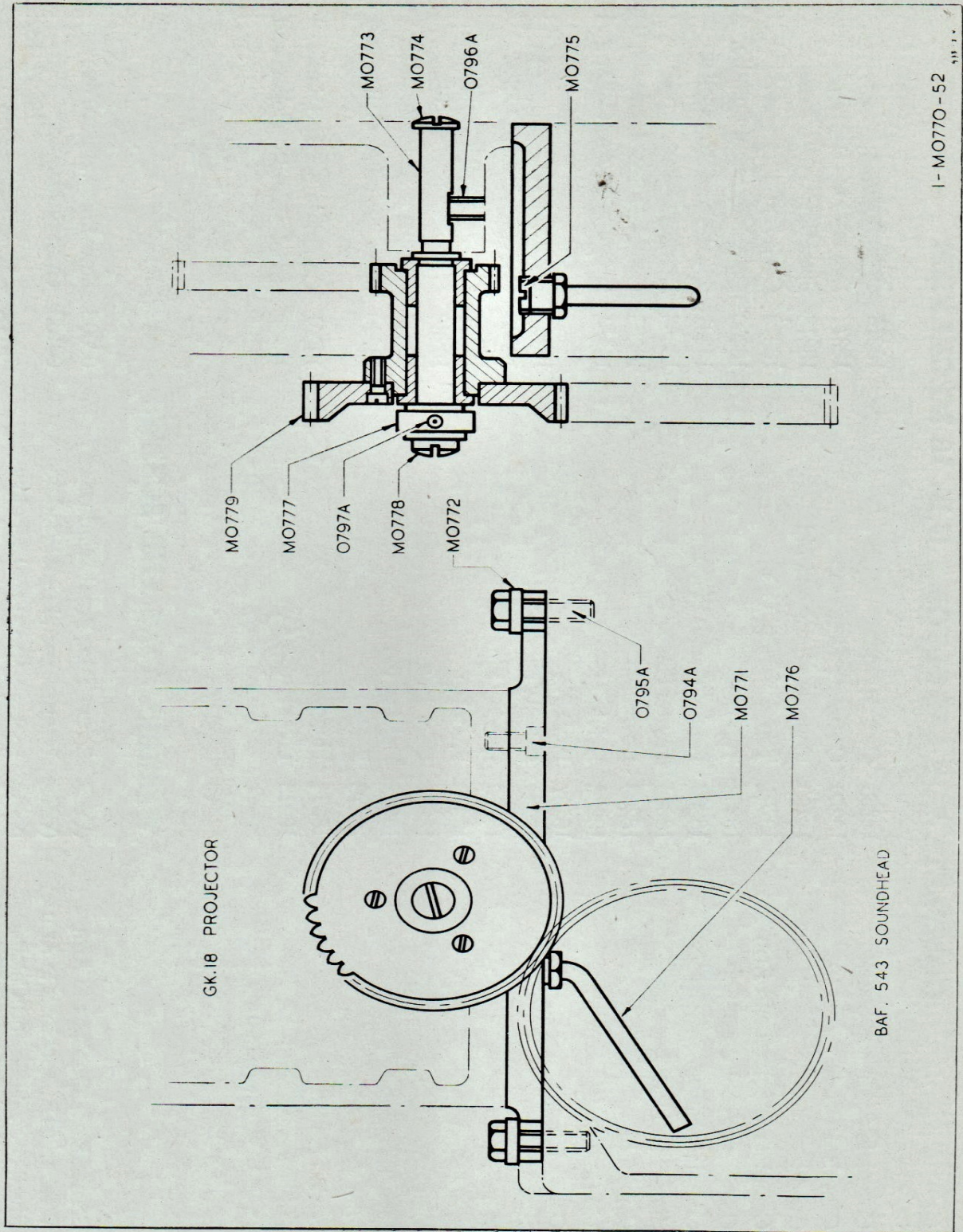
18239	Complete Chain and Sneck	18258	Outside Roller	18276	Click End
18240	Complete Catch	18259	Complete Film Trap	18277	Driving Pin
18241	Sneck	18260	Complete Body and Lid	18278	Pivot Pin
18242	Complete Spoolbox and Arm	18261	Top Roller Spindle	18279	Click End
18243	Complete Spoolbox	18262	Top Roller	18280	Complete Spool Spindle, $\frac{5}{16}$ " dia.
18244	Complete Hinge	18263	Pin for Thumb Piece	18281	Spindle and Stop Collar
18245	Hinge Pivot Pin	18264	Thumb Piece	18282	Driving Collar
18246	Half Hinge	18265	Dowel Pin	18283	Complete Spool Spindle, 9 mm. dia.
18247	Lid Hinge	18266	Driving Key	18284	Spindle, Driving Collar and Driving Pin
18248	Gauze Window	18267	Pivot Pin	18285	Friction Disc
18249	Mica Window	18268	Spindle Click End	18286	Complete Spring Collar
18250	Window Frame	18269	Driving Pin	18287	Compression Spring
18251	Spool-Arm	18270	Pivot Pin	18288	Complete Spring Nut
18252	Oil Cup	18271	Click End	18289	Complete Spool Spindle, $\frac{3}{8}$ " dia.
18253	Film Trap Body	18272	Driving Pin	18290	Spool Spindle, Collar and Driving Pin
18254	Film Trap Lid	18273	Spring	18291	Complete Spool Spindle, $\frac{1}{2}$ " dia.
18255	Spring for Lid	18274	Plunger	18292	Spool Spindle, Collar and Driving Pin
18256	Lid Hinge Pin	18275	Pivot Pin		
18257	Outside Roller Spindle				

WASHERS, PINS AND SCREWS

0000B	Screw, Sec., Spoolbox to Arm	0005B	Screw, Sec., Front Window	0009B	Screw, Sec., Film Trap
0001B	Washer, Sec., Spoolbox to Arm	0006B	Washer, Sec., Front Window	0010B	Grub Screw, Sec. 18256, 18257, 18261
0002B	Rivet, Sec., Hinge and Catch	0007B	Locknut, Sec., Front Window	0011B	Screw, Sec., 18282
0003B	Split Pin, Sec., 18245	0008B	Screw, Sec., Spool Arm	0012B	Screw, Locking 18288
0004B	Screw, Sec., Rear Window				

ADAPTOR GEAR (M0770)

Plate No. 15



COMPLETE ADAPTOR GEAR FOR CINE G.K. 18 PROJECTOR MECHANISM TO BAF. 543 S/HD.

M0770	Gear, Adaptor, Complete	M0774	Screw, Lock	M0777	Collar
M0771	Plate, Adaptor	M0775	Ring, Adjusting	M0778	Screw, Safety
M0772	Clamp	M0776	Pipe, Oil Drain, Complete	M0779	Gear, Adapting, Complete (51T-CI/34T-St.)
M0773	Post, Adaptor				

WASHERS, PINS AND SCREWS

0794A	Screw, Sec., Projector	0796A	Screw, Sec., Adaptor Post (M0773)
0795A	Screw, Sec., Adaptor Plate (M0771)	0797A	Screw, Sec., Collar (M0777)

COMPLETE INTERMITTENT UNIT AND RACKING GEARS (18312)

COMPLETE INTER UNIT, AND RACKING GEARS. G.K. 18. MECHANISM

- 18297 Masking Quadrant
- 18298 Quadrant Pivot
- 18299 Link Screw
- 18300 Complete Intermittent Unit
- 18301 Intermittent Post
- 18302 Inter Hub Cap
- 18303 Spring Washer
- 18304 Plunger Spring
- 18305 Plunger
- 18306 Complete Inter Bracket
- 18307 Intermittent Sprocket
- 18308 Key Washer
- 18309 Packing Ring
- 18310 Clamp Screw
- 18311 Complete Cam Idler Gear

WASHERS, PINS AND SCREWS

- 0015B Nut sec. 18298
- 0016B " " 18301
- 0017B Screw 18306

Plate No. 6

