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Spare Parts Catalogue

GAUMONT-KALEE

"LIGHTMASTER" ARC LAMP

Operating Data

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THE GAUMONT-KALEE

"LIGHTMASTER"

ARC LAMP

This Arc Lamp employs an elliptical mirror of 16 ins. (406 mm.) diameter, with foci at 6 ins. (152 mm.) and 36 ins. (914 mm.). Experience has shown that important practical advantages of its larger dimensions are that arc focus is less critical, and that the greater mirror-to-crater distance results in substantial freedom from pitting, and reduces the risk of mirror breakage. It has been found quite safe to operate this lamp at tilt-angles of as much as 30°.

It has been possible to maintain the generally-accepted optical centre height with this large diameter mirror by keeping the positive carbon drive to the rear of the lamphouse. This has resulted in a clear unobstructed floor in front of the mirror. The lamp mechanism is of straightforward orthodox type. The positive carbon is driven directly by a variable speed motor connected across the arc gap. The negative carbon is driven from the same motor through a variable-ratio drive comprising a cam-operated, variable-stroke roller-clutch. The complete carbon-driving unit can be withdrawn through the rear of the lamp. The whole of the mechanism and the mirror holder is mounted upon a rigid cast "tray" which forms the base of the lamp. The lamphouse itself is constructed throughout of sheet steel, fabricated and welded into a rigid one-piece shell with flush fitting doors of similar construction.

Control knobs on the operating side of the lamp, below the door line, give independent manual control of positive and negative carbons. These have quick releases for resetting to focus the crater, whilst maintaining the length of the arc gap, and can be "clutched" together by pressing in a push-button on the rear control panel. A periscope system contained inside the lamphouse projects an image of the crater upon a screen in the top of the lamp. The "striking" of the arc is operated by push-button control.

A wedge-operated, quickly released, positive carbon-grip safeguards against excessive clamping force and may be dismantled instantly for cleaning. The actual speed of the feed motor is shown by the tachometer provided.

CARBON DRIVES

Both carbon feeds are driven by the variable-speed D.C. motor connected across the arc gap. A potentiometer mounted in the rear panel of the lamp gives control of motor speed, the actual speed in r.p.m. being shown by the tachometer. The motor circuit includes an "on-off" switch and a fuse.

The positive carbon is driven from the motor through the fixed-ratio reduction-gearing; the negative is driven through a ratchet device of variable stroke which enables adjustment of the feed rate of the negative carbon to be made in relation to that of the positive.

Both carbon holders are provided with quick releases for rapid setting, and with controls for manual adjustment. Friction clutches are employed in both feed-drives so that the manual controls can be used to override the power feeds if necessary.

The screwed threads of the feed screws are relieved at the forward end to avoid possibility of overrunning and jamming. If the carbon carriage is accidentally wound off the screw, press the quick release lever, and slide whole carbon holder back on feed screw.

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A gear train at the rear of the lamp enables the two carbon feeds to be coupled together for manual adjustment of the crater position without changing the length of gap.

The negative feed screw protrudes through the rear panel and is fitted with push button so that it may be pushed forward against a return spring to "strike" the arc.

FEED ADJUSTMENT

1. First set the potentiometer to match the positive feed rate for the carbon and current combination employed.
2. Adjust the negative feed rate to suit by screwing in or out the milled head stop screw projecting through rear control panel. This varies the feed rate by limiting the stroke of the negative feed ratchet.

Mirror and Negative Crutch Adjustments

The mirror is provided with tilts for horizontal and vertical adjustment. These are controlled by slotted milled knobs at the side of the lamphouse near the negative hand feed knob.

The negative carbon crutch has vertical and horizontal adjustments for accurate carbon alignment. These adjustments are controlled through flexible drives and knobs on the right-hand side of the rear panel.

Interior Illumination

A lamp holder for a standard mains voltage E.S. lamp is mounted inside the lamphouse roof. This lamp is controlled by a push button switch operated by the rear hinge of the lamphouse door, on the operating side of the machine. The fuse for this lamp circuit is situated on the rear panel.

Arc Image

A periscope inside the lamphouse focuses an enlarged image of the arc upon a translucent screen on the operating side of the lamphouse. The correct crater position is that in which the end of the positive carbon is 6 in. distant from the back of the centre of the mirror.

The periscope is set to correspond to this position before the lamp leaves the factory. If necessary the position of the image on the screen may be adjusted by turning and tilting the reflector carried by the periscope.

The reflector can be adjusted with the arc burning, but the glare and heat of the arc makes adjustment difficult and dangerous. It is preferable to employ a small flash lamp bulb, lit from a torch battery, and lightly held between the carbons when in their correct burning positions.

Positive Carbon Clamp

This clamp employs a wedge locking action which avoids the risk of carbon breakage and is easily manipulated whilst it is hot. The operative parts are retained in position by a locking latch. To dismantle for cleaning, lift this latch and withdraw the pin which it retains.

To insert the carbon, lift the weighted operating handle, raise the clamping finger with the carbon, and slide the carbon into the V-shaped groove. Slight downward pressure on the weighted lever will then lock the carbon firmly into position. Note that it is neither necessary nor advisable that the carbon be tightly gripped. Adequate electrical contact is assured when the carbon is firmly held and yet may be rotated using finger pressure only.

The carbon is released quickly from the holder by a quick lift of the lever.

To remove the Motor Drive and Negative Carbon Feed

The complete drive unit, including the negative carbon feed and holder, may be detached from the lamp as a unit, as detailed below:—

1. Remove the panel on the rear of the lamphouse by releasing four

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knurled screws, when the panel may be lifted away clear of the various controls. If the panel adheres to the surface to which it is clamped, it may require to be prised off with a thin blade after the retaining screws have been removed.

2. Disconnect the lead from the negative carbon holder and un-plug the motor lead which is connected to a socket inside the back end of the lamphouse.
3. Remove the knurled-headed screw, situated in front of the motor, which clamps the complete drive assembly to the base of the lamphouse.
4. Remove the complete unit by withdrawing it through the rear of the lamphouse.
5. When replacing the unit care must be taken that the bevel gears at the end of the negative feed screw and on the negative hand-drive spindle mesh correctly; also to ensure that the flexible shaft connection, driving the positive feed screw, enters the corresponding socket in the drive mechanism.

Lubrication

All bearings and slides should be oiled sparingly, daily. Note the two oiling points provided for the positive carbon hand feed cross shaft located in the front end of the base casting. Apply a little graphite grease to the motor drive reduction gear and to the face of the cam which rocks the negative feed ratchet.

Take care to prevent oil from reaching the friction surfaces of the positive and negative feed clutches.

Adjustment to Negative Ratchet Drive

This operates on the well-known principle of a roller jamming between a hardened disc and a wedge. Twin ratchets are employed, one rocked by the feed cam and transmitting motion to the negative feed screw, the other a stationary check to assure that the oscillatory motion of the feed ratchet imparts uni-directional rotation only to the feed screw.

The "bite" of the rollers can be altered by adjusting the wedges in and out. This adjustment is effected by loosening one of the opposed screws provided and tightening the other.

The feed ratchet assembly also incorporates the friction clutch necessary to permit hand feeding of the negative carbon. The gripping flanges of this clutch are pressed together by a spring, the tension of which is adjustable. The two flanges are coupled rotationally by a tongue and groove. Should they be accidentally separated the tongue and groove may disengage and fail to re-locate when they come together again, thus preventing the flanges from gripping the clutch friction washers. If this happens, rotate one of them, holding the other firmly, until the tongue snaps into the groove.

Adjustment of Drive Clutches

The clutches must be sufficiently tight to drive without slipping, but not so tight as to bind, otherwise operation of the hand feeds will be unduly stiff. The clutch torque is adjustable by means of the knurled nut and lock-nut provided for carrying the spring tension, and should not be adjusted so tightly that the spring is solid.

Unreliable feeding, or the necessity for running the feed motor at high speed, indicates slipping of the clutches. This may arise from tightness in some of the driven parts, which should be feed immediately, or the clutch friction may have been reduced due to oil on the faces.

IT IS IMPORTANT TO INVESTIGATE AND REMEDY THE CAUSE OF ANY SLIP RATHER THAN TO SEEK TO OVERCOME THIS BY APPLYING EXCESSIVE SPRING LOAD TO THE CLUTCHES.

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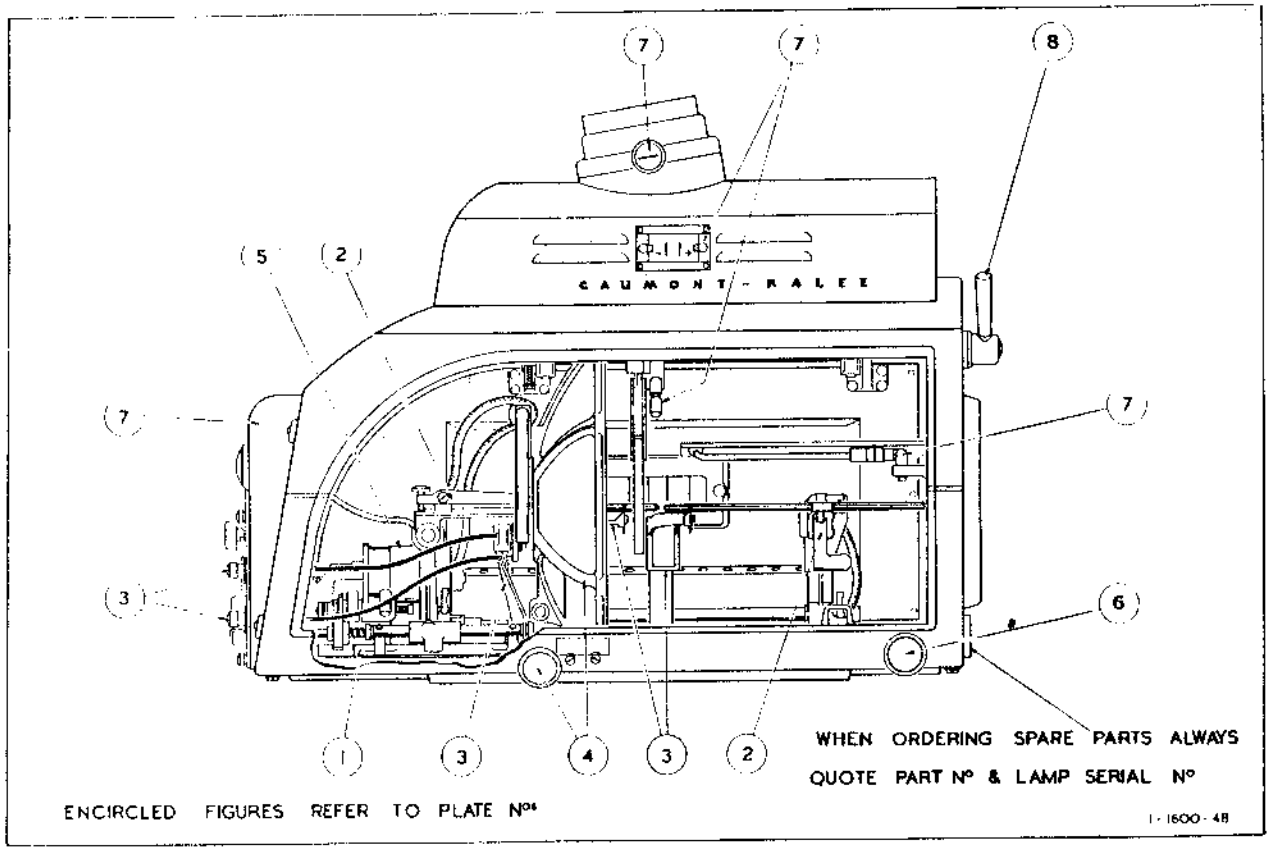
KEY PLATE FOR THE COMPLETE ASSEMBLY
THE GAUMONT-KALEE "LIGHTMASTER" ARC LAMP



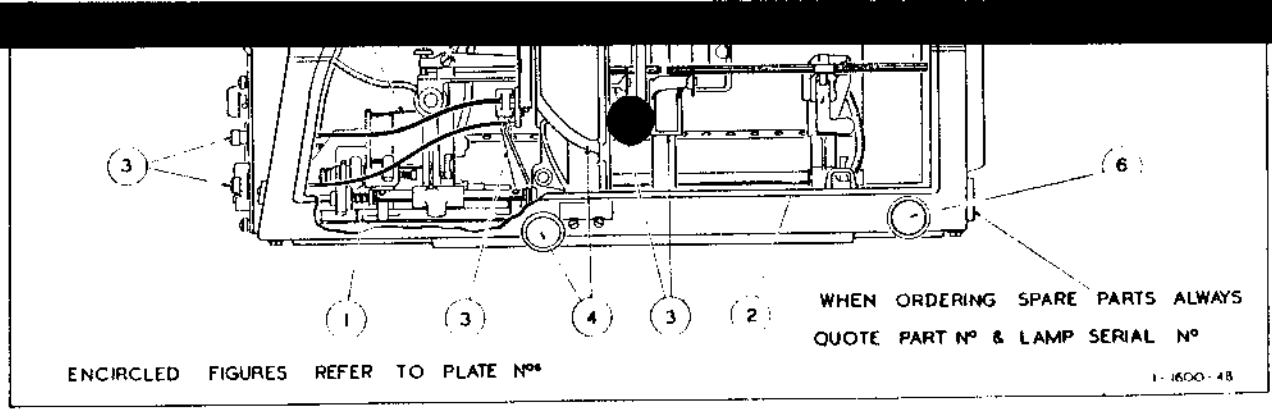


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PLATE No. 1. AUTOMATIC FEED AND TACHOMETER PANEL

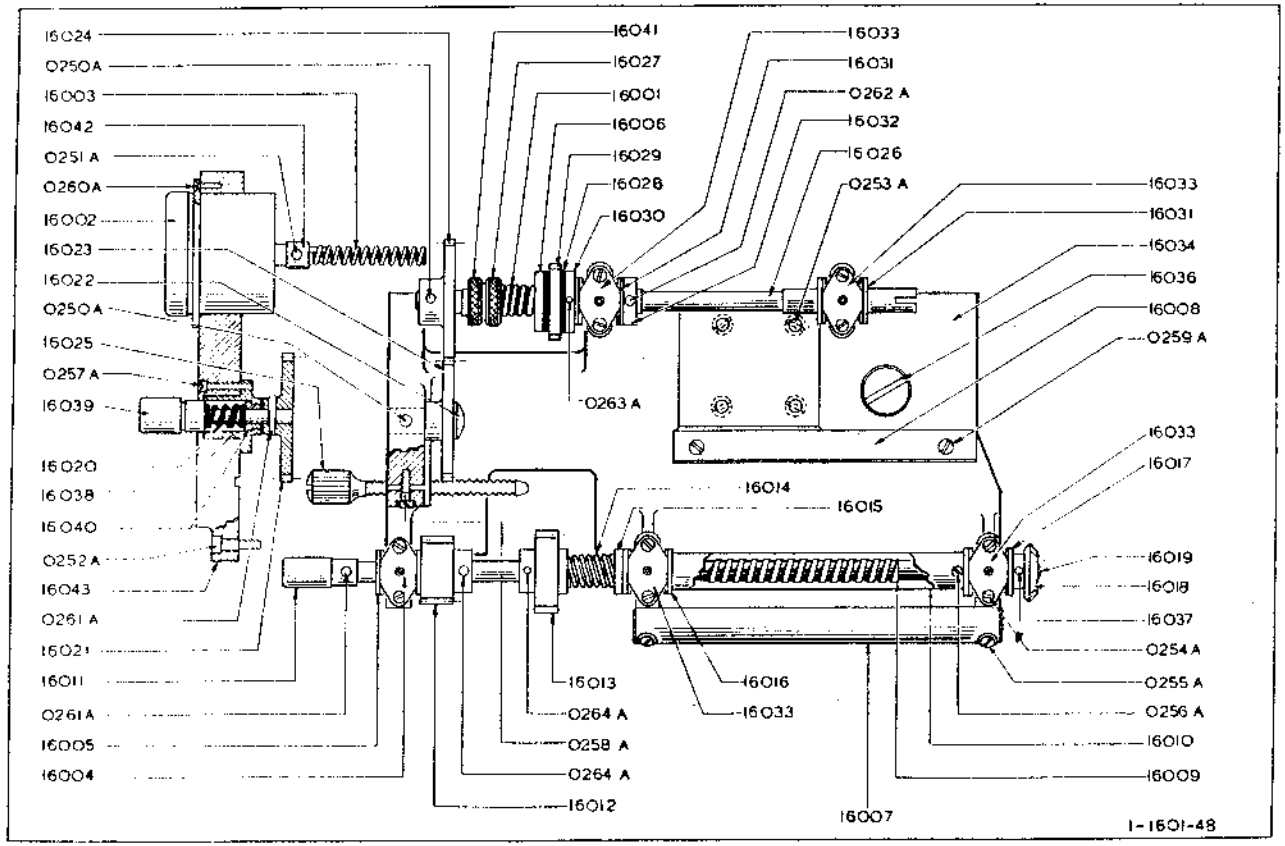

PLATE Nº 1

PART No.	DESCRIPTION
16001	Spring, Compression, Positive Feed
16002	Tachometer
16003	Spring, Tachometer Drive
16004	Plate, Clamping, Negative Feed Rear Bearing
16005	Bush, Negative Lead Screw

PART No.	DESCRIPTION
16015	Collar, Loose, Negative Lead Screw
16016	Bush, Negative Lead Screw
16017	Bush, Negative Lead Screw Front Bearing
16018	Gear, Mitre
16019	Screw, Mitre Gear Stop

PART No.	DESCRIPTION
16029	Gear, Driven, Positive Clutch
16030	Collar, Fixed, Positive Clutch
16031	Bush, Positive Extension Bar
16032	Collar, fixed for 16026
16033	Plate, Clamping, for Bearings

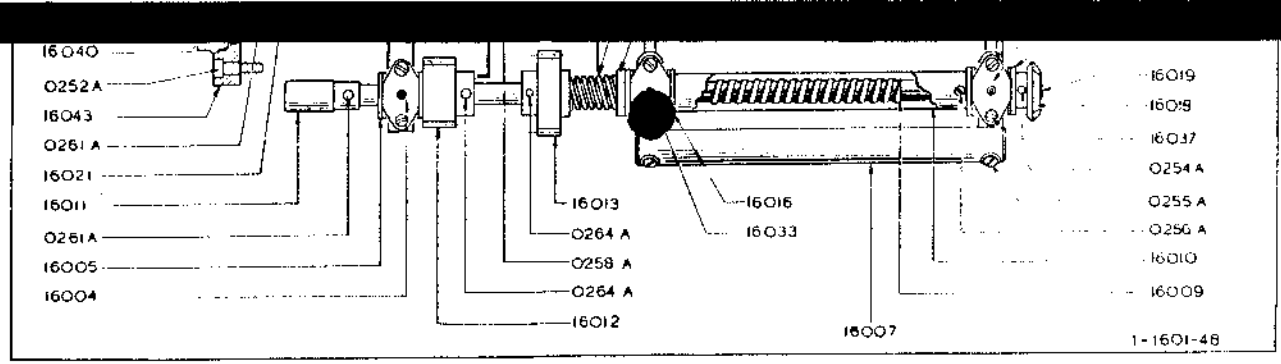

PLATE Nº 1

PART No.	DESCRIPTION
16001	Spring, Compression, Positive Feed
16002	Tachometer
16003	Spring, Tachometer Drive
16004	Plate, Clamping, Negative Feed Rear Bearing
16005	Bush, Negative Lead Screw
16006	Washer, Key, Positive Extension
16007	Tube, Negative Support
16008	Bar, Slide, Negative
16009	Screw, Negative Lead
16010	Cover, Negative Lead Screw
16011	Knob, Striker
16012	Gear, Hand Drive
16013	Gear, Driven, Negative Feed
16014	Spring, Compression, Negative Feed
16015	Collar, Loose, Negative Lead Screw
16016	Bush, Negative Lead Screw
16017	Bush, Negative Lead Screw Front Bearing
16018	Gear, Mitre
16019	Screw, Mitre Gear Stop
16020	Spring, Compression, Hand Drive
16021	Gear, 30 Teeth Spur
16022	Stud, Idler Gear
16023	Gear, Idler, Hand Drive
16024	Gear, Positive Hand Drive
16025	Screw, Adjusting, Negative Feed
16026	Bar, Positive Extension
16027	Nut, Friction Adjusting
16028	Disc, Friction
16029	Gear, Driven, Positive Clutch
16030	Collar, Fixed, Positive Clutch
16031	Bush, Positive Extension Bar
16032	Collar, fixed for 16026
16033	Plate, Clamping, for Bearings
16034	Carriage, Negative, and Motor Drive Platform
16036	Screw, Locating Automatic Feed
16037	Pin, Driving
16038	Bearing, Loose Gear
16039	Spindle, Loose Gear
16040	Bush, Loose
16041	Locknut, Positive Extension
16042	Adapter, Tachometer Drive
16043	Panel, Tachometer

WASHERS, PINS AND SCREWS

0250A	Screw fixing	16022, 16024
0251A	,,	10642
0252A	,,	16043
0253A	,,	Motor Adapter Plate
0254A	Screw fixing	16004, 16033
0255A	,,	16007
0256A	,,	16010
0257A	,,	16038
0258A	,,	16025
0259A	Screw fixing	16008
0260A	,,	16002
0261A	Taper Pin	16011, 16021
0262A	,,	16032
0263A	,,	16030
0264A	,,	16012, 16013

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PLATE No. 2. POSITIVE AND NEGATIVE CARBON HOLDERS

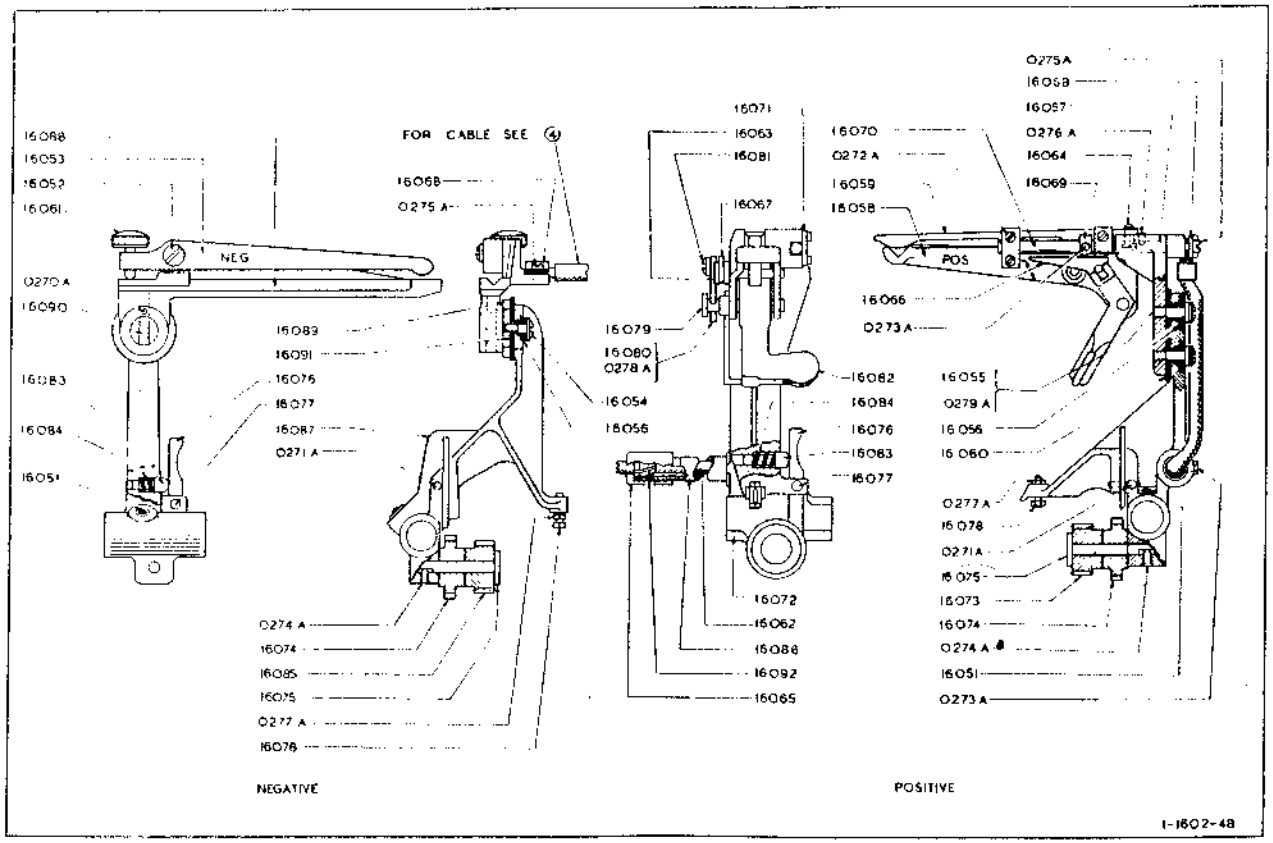

PLATE Nº 2

PART No.	DESCRIPTION
16051	Oiler, ¼" Spring Ball
16052	Pivot, Negative Clamping Arm
16053	Arm, Negative Clamping
16054	Screw, fixing 16088
16055	Screw, fixing 16057
16056	Bush, Insulating

PART No.	DESCRIPTION
16066	Wedge, Assembly
16067	Catch, for 16063
16068	Clamp, Cable
16069	Collar, Pivot Rod
16070	Rod, Pivot

PART No.	DESCRIPTION
16079	Spindle, Trigger
16080	Catch, for 16079
16081	Screw, Pivot
16082	Weight, Bob and Crank
16083	Plunger, Spring
16084	Spring, for 16083

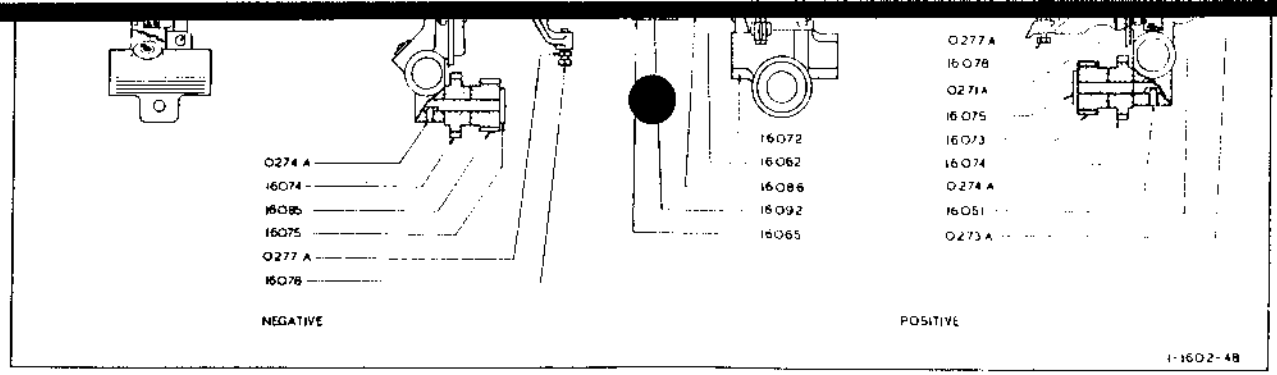

PLATE Nº 2

PART No.	DESCRIPTION
16051	Oiler, ¼" Spring Ball
16052	Pivot, Negative Clamping Arm
16053	Arm, Negative Clamping
16054	Screw, fixing 16088
16055	Screw, fixing 16057
16056	Bush, Insulating
16057	Bracket, Positive Pivot
16058	Arm, Positive Support
16059	Arm, Positive Clamping
16060	Insulation, Positive
16061	Screw, Negative Clamping
16062	Lead, Positive
16063	Spindle, Clamp
16064	Screw, Stop
16065	Bush, Positive Lead Guide

PART No.	DESCRIPTION
16066	Wedge, Assembly
16067	Catch, for 16063
16068	Clamp, Cable
16069	Collar, Pivot Rod
16070	Rod, Pivot
16071	Strip Clamping
16072	Bracket, Positive Slide
16073	Wheel, Worm, Positive
16074	Gear, Locking, Positive and Negative
16075	Spindle, Locking Gear
16076	Lever, Quick Release
16077	Pin, Pivot
16078	Stud, Bearing

PART No.	DESCRIPTION
16079	Spindle, Trigger
16080	Catch, for 16079
16081	Screw, Pivot
16082	Weight, Bob and Crank
16083	Plunger, Spring
16084	Spring, for 16083
16085	Wheel, Worm, Negative
16086	Guide, Positive, Lead
16087	Bracket, Negative
16088	Arm, Negative Support
16089	Base, Negative Support Arm
16090	Stud, Negative Pivot
16091	Insulation, Negative Slide
16092	Collet, Positive Lead

WASHERS, PINS AND SCREWS

0270A	Screw fixing	16090
0271A	,,	16077
0272A	,,	16071
0273A	,,	16069, 16086
0274A	Screw fixing	16075
0275A	,,	16068
0276A	,,	16070
0277A	Locknut for	16078
0278A	Washer for	16081
0279A	,,	16055

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PLATE No. 3. POSITIVE AND NEGATIVE CRUTCHES

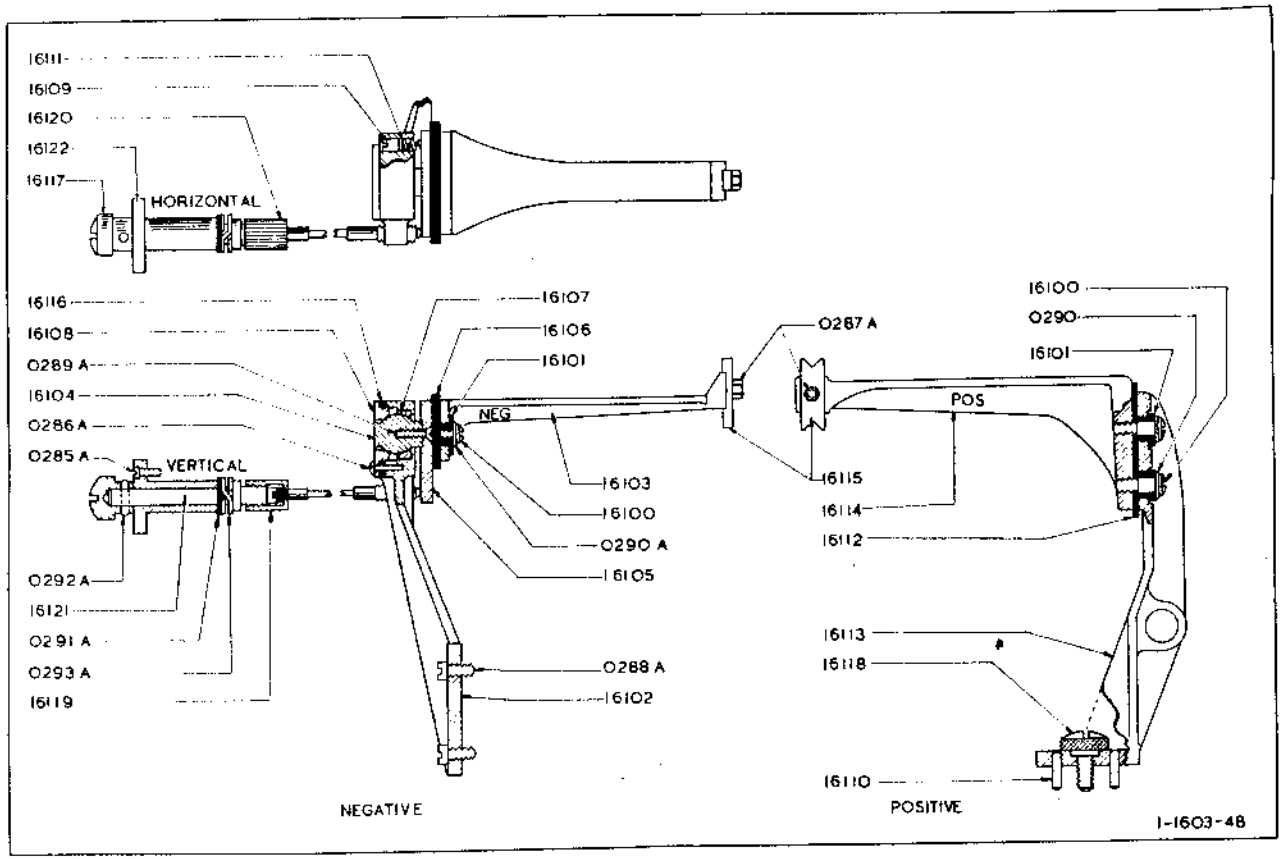

PLATE Nº 3

PART No.	DESCRIPTION
16100	Screw, fixing 16103
16101	Bush, Insulating
16108	Plate, End
16109	Plug for Spring
16116	Shim, Packing
16117	Knob, Control

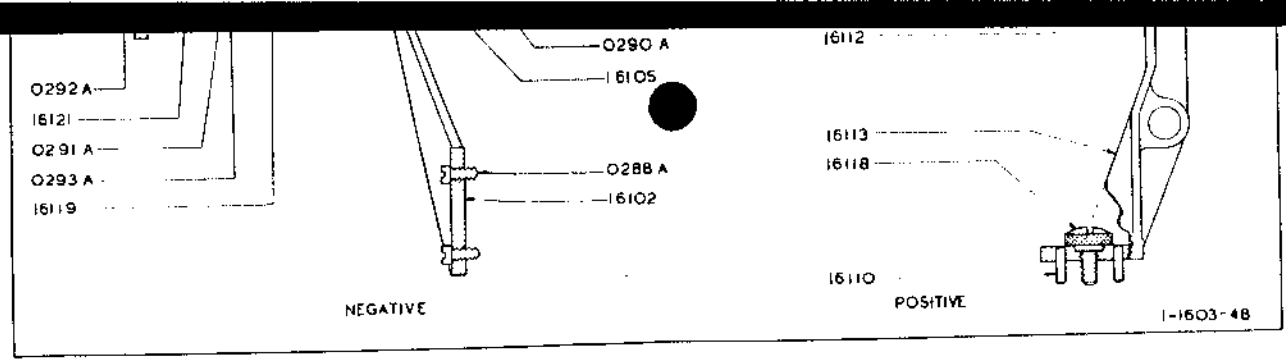

PLATE № 3

PART No.	DESCRIPTION
16100	Screw, fixing 16103
16101	Bush, Insulating
16102	Bracket, Negative Crutch
16103	Arm, Negative Crutch
16104	Swivel, Negative Crutch
16105	Base, Negative Crutch
16106	Insulation, Negative Crutch
16107	Ring, Retaining

PART No.	DESCRIPTION
16108	Plate, End
16109	Plug for Spring
16110	Dowel, fixing 16113
16111	Spring, Negative Crutch
16112	Insulation, Positive
16113	Bracket, Positive Crutch
16114	Arm, Positive Crutch
16115	Fork, Crutch

PART No.	DESCRIPTION
16116	Shim, Packing
16117	Knob, Control
16118	Screw, fixing 16113
16119	Crutch, Negative, Vertical Tilt Assembly
16120	Crutch, Negative, Horizontal Tilt Assembly
16121	Spindle, Negative Crutch Control
16122	Bearing, Negative Alignment

WASHERS, PINS AND SCREWS

0285A	Screw fixing	16112
0286A	,,	16108
0287A	,,	16115
0288A	Screw fixing	16102
0289A	,,	16104
0290A	Washer for	16100
0291A	Washer for	16122
0292A	Taper Pin fixing	16117
0293A	Spring Washer for	16117

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PLATE No. 4. COMPLETE MIRROR HOLDER AND CONTROLS

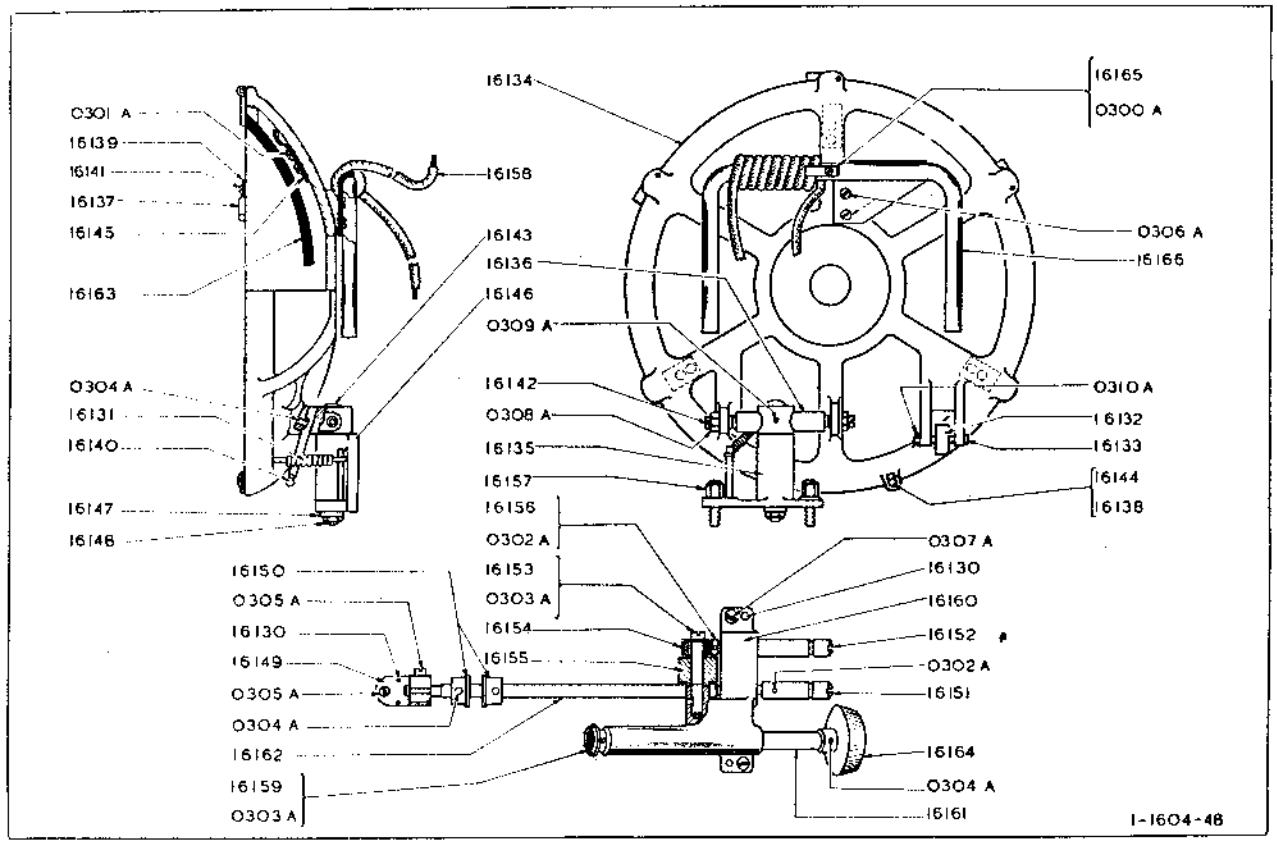

PLATE Nº 4

PART No.	DESCRIPTION
16130	Dowel, fixing 16149, 16160
16131	Spring, Mirror Return
16132	Roller, Mirror Control
16133	Spindle Roller, Mirror Control
16134	Holder, Mirror

PART No.	DESCRIPTION
16143	Pivot, Vertical, Mirror Holder
16144	Clip, Fixed, Mirror Holder
16145	Spring, Mirror Holder
16146	Pin, Mirror Return Spring
16147	Washer, Mirror Pivot

PART No.	DESCRIPTION
16155	Cam, Mirror Control
16156	Worm, Mirror Control
16157	Screw, Locating Mirror
16158	Lead, Negative and Magnet
16159	Gear, Mitre, Negative Hand Feed

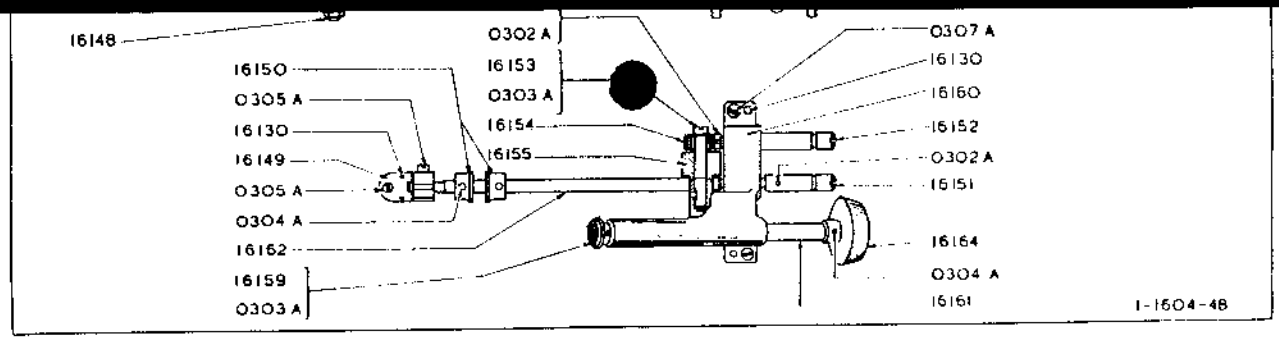

PLATE Nº 4

PART No.	DESCRIPTION
16130	Dowel, fixing 16149, 16160
16131	Spring, Mirror Return
16132	Roller, Mirror Control
16133	Spindle Roller, Mirror Control
16134	Holder, Mirror
16135	Bracket, Mirror Holder
16136	Pivot, Mirror Holder
16137	Clip Spring, Mirror Holder
16138	Screw, fixing 16144
16139	Washer for 16137
16140	Pin, Stop, Mirror Pivot
16141	Screw, fixing 16137
16142	Screw, Mirror Pivot

PART No.	DESCRIPTION
16143	Pivot, Vertical, Mirror Holder
16144	Clip, Fixed, Mirror Holder
16145	Spring, Mirror Holder
16146	Pin, Mirror Return Spring
16147	Washer, Mirror Pivot
16148	Screw, Mirror, Pivot Washer
16149	Bracket, Support, Mirror Control
16150	Collar, Fixed, Mirror Control
16151	Knob, Mirror Control
16152	Spindle, Mirror Control Worm
16153	Spindle, Mirror, Control Cam
16154	Wheel, Worm, Mirror Control

PART No.	DESCRIPTION
16155	Cam, Mirror Control
16156	Worm, Mirror Control
16157	Screw, Locating Mirror
16158	Lead, Negative and Magnet
16159	Gear, Mitre, Negative Hand Feed
16160	Bracket, Mirror Control
16161	Spindle, Negative Hand Feed
16162	Screw, Adjusting, Mirror
16163	Mirror, 16" diameter
16164	Knob, Negative Hand Feed
16165	Clip, Cable
16166	Magnet, Core, complete

WASHERS, PINS AND SCREWS

0300A	Screw fixing	16165
0301A	,,	16145
0302A	,,	16151, 16156
0303A	,,	16153, 16159
0304A	Screw fixing	16140, 16150, 16164
0305A	,,	16149, 16162
0306A	,,	16166
0307A	Screw fixing	16160
0308A	Locknut fixing	16142
0309A	Taper Pin fixing	16136
0310A	Split Pin fixing	16133

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PLATE No. 5. MOTOR DRIVE ASSEMBLY

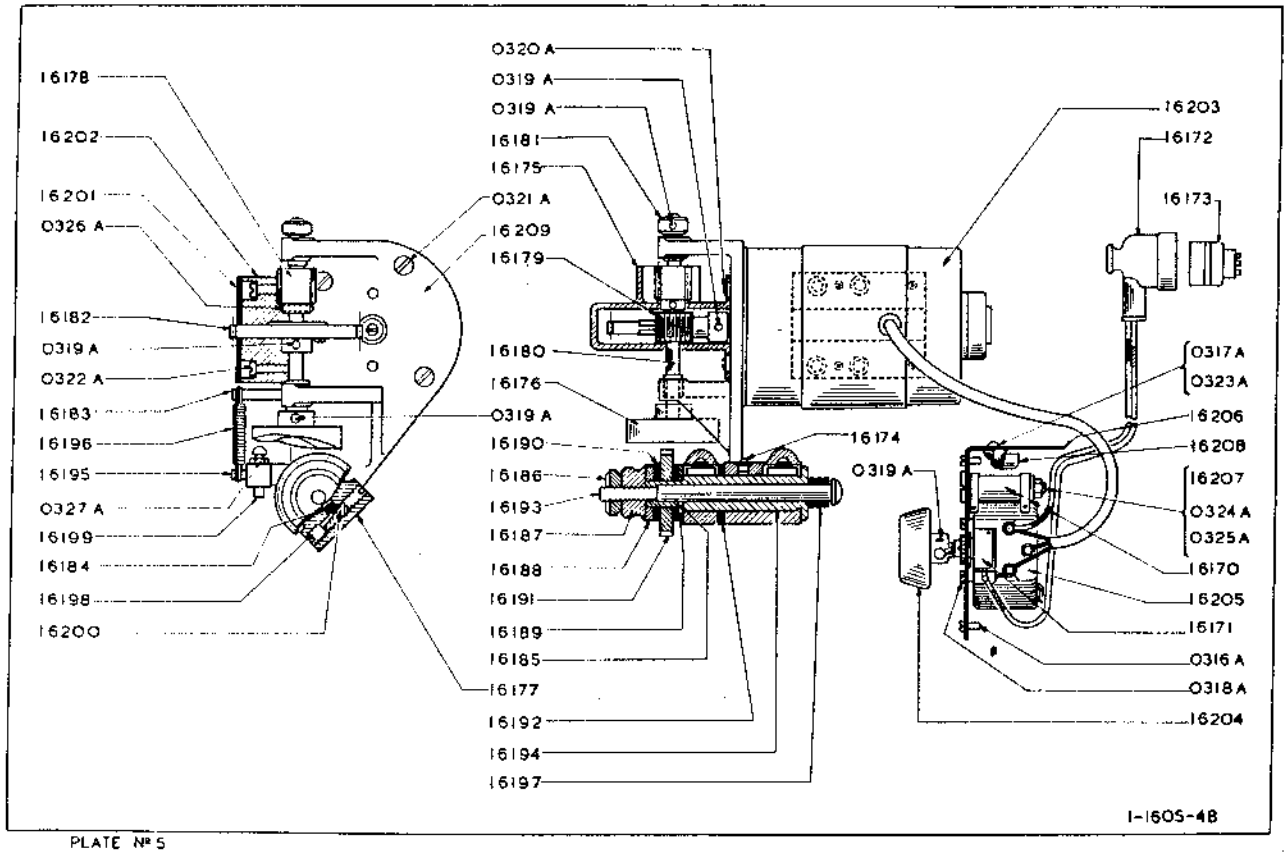

PLATE Nº 5

PART No.	DESCRIPTION
16170	Resistance, Fixed
16171	Switch, Motor
16172	Plug, 3-pin
16173	Socket, 3-pin
16174	Oiler, ¼" Spring Ball
16175	Guard, Worm and Wheel

PART No.	DESCRIPTION
16184	Roller, Feed Arm
16185	Pin, Driving
16186	Locknut, Tension
16187	Nut, Tension
16188	Ring, Thrust
16189	Washer, Thrust

PART No.	DESCRIPTION
16197	Spring, Compression
16198	Plug for Wedge
16199	Tappet, Feed Arm
16200	Wedge, Feed Arm
16201	Shim, Packing
16202	Plate, Adapter

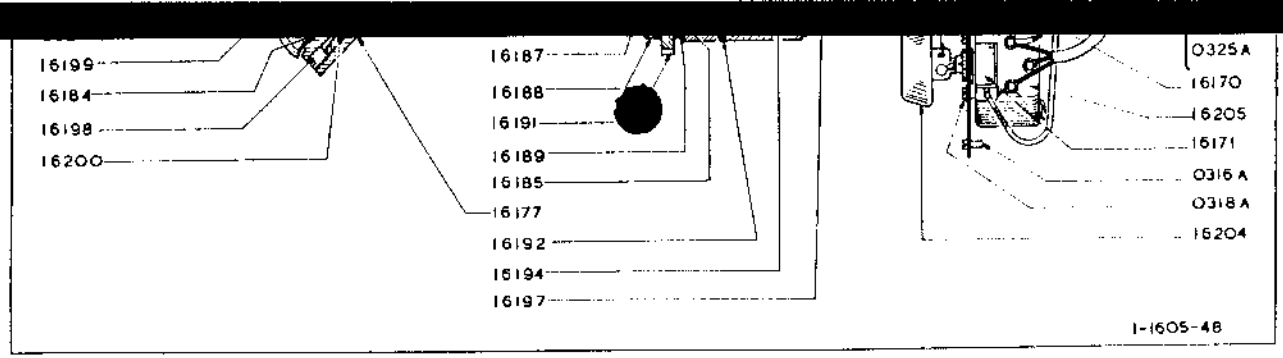

PLATE Nº 5

PART No.	DESCRIPTION
16170	Resistance, Fixed
16171	Switch, Motor
16172	Plug, 3-pin
16173	Socket, 3-pin
16174	Oiler, ¼" Spring Ball
16175	Guard, Worm and Wheel
16176	Cam, Single Throw
16177	Arm, Negative Feed
16178	Worm, Positive Feed
16179	Worm, Motor
16180	Shaft, Cam
16181	Collar, Camshaft
16182	Wheel, Worm, and Boss
16183	Pin for Spring, Motor Bracket

PART No.	DESCRIPTION
16184	Roller, Feed Arm
16185	Pin, Driving
16186	Locknut, Tension
16187	Nut, Tension
16188	Ring, Thrust
16189	Washer, Thrust
16190	Disc, Friction
16191	Gear, Negative Driving
16192	Ring, Bearing
16193	Rod, Tension
16194	Sleeve, Feed Arm
16195	Pin for Spring, Feed Arm
16196	Spring, Tension

PART No.	DESCRIPTION
16197	Spring, Compression
16198	Plug for Wedge
16199	Tappet, Feed Arm
16200	Wedge, Feed Arm
16201	Shim, Packing
16202	Plate, Adapter
16203	Motor and Cable
16204	Knob, Moulded
16205	Potentiometer
16206	Panel, Potentiometer
16207	Screw, fixing, for 16170
16208	Clip, Cable
16209	Bracket, Worm and Motor

WASHERS, PINS AND SCREWS

0316A	Screw fixing	16206
0317A	,,	16208
0318A	,,	16205
0319A	,,	16176, 16179, 16181, 16182, 16204
0320A	Screw fixing	16175
0321A	,,	16203
0322A	,,	16202
0323A	Nut for	16208
0324A	Nut for	16170
0325A	Washer for	16170
0326A	Taper Pin fixing	16178
0327A	Locknut for	16199

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PLATE No. 6. POSITIVE LEADSCREW AND DETAILS

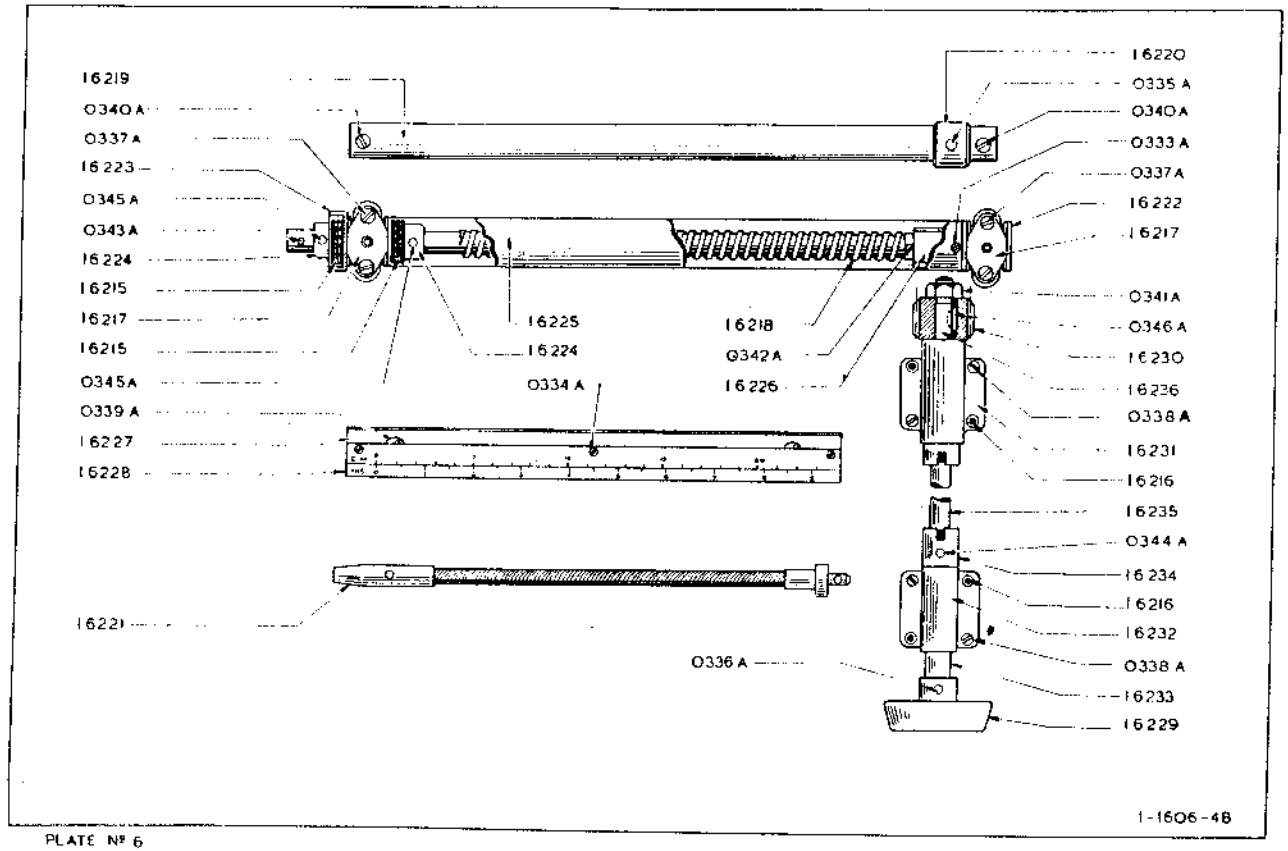

PLATE Nº 6

PART No.	DESCRIPTION
16215	Bearing, Thrust
16216	Dowel, fixing 16231 and 16232
16217	Plate, Clamping Bearing

PART No.	DESCRIPTION
16223	Bearing, Rear, Positive Lead Screw
16224	Collar, Positive Lead Screw
16225	Cover, Positive Lead Screw

PART No.	DESCRIPTION
16231	Bearing, Positive Hand Feed
16232	Bearing, Rear, Positive Hand Feed
16233	Spindle, Rear Bearing, Positive

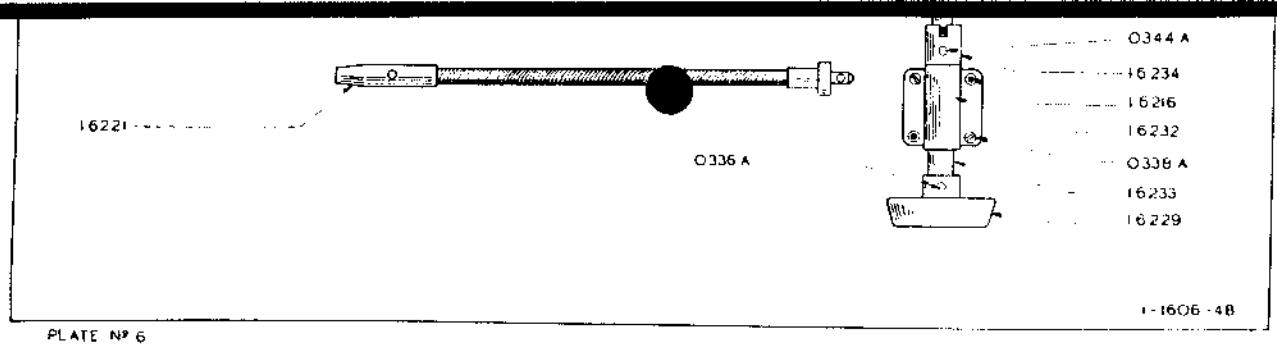

PLATE Nº 6

PART No.	DESCRIPTION
16215	Bearing, Thrust
16216	Dowel, fixing 16231 and 16232
16217	Plate, Clamping Bearing
16218	Screw, Positive Lead
16219	Tube, Positive Support
16220	Collar, Positive Stop
16221	Drive, Flexible, Positive Lead Screw
16222	Bearing, Front, Positive Lead Screw

PART No.	DESCRIPTION
16223	Bearing, Rear, Positive Lead Screw
16224	Collar, Positive Lead Screw
16225	Cover, Positive Lead Screw
16226	Gear, Spiral, Positive Lead Screw
16227	Plate, Positive Support
16228	Strip, Positive Carbon, Indicator
16229	Knob, Moulded, 2¼" diameter
16230	Gear, Spiral, Positive Hand Feed

PART No.	DESCRIPTION
16231	Bearing, Positive Hand Feed
16232	Bearing, Rear, Positive Hand Feed
16233	Spindle, Rear Bearing, Positive Hand Feed
16234	Collar, Retaining Rear Bearing Spindle
16235	Shaft, Drive, Positive Hand Feed
16236	Shaft, Pinion, Positive Hand Feed

WASHERS, PINS AND NUTS

0333A	Screw fixing	16225
0334A	,,	16228
0335A	,,	16220
0336A	,,	16229
0337A	,,	16217
0338A	Screw fixing	16231, 16232
0339A	,,	16227
0340A	,,	16219
0341A	Nut fixing	16230
0342A	Taper Pin for	16226
0343A	Taper Pin fixing	16221
0344A	,,	16234
0345A	Taper Pin for	16224
0346A	Key fixing	16230, 16236

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PLATE No. 7. LAMPHOUSE DETAILS

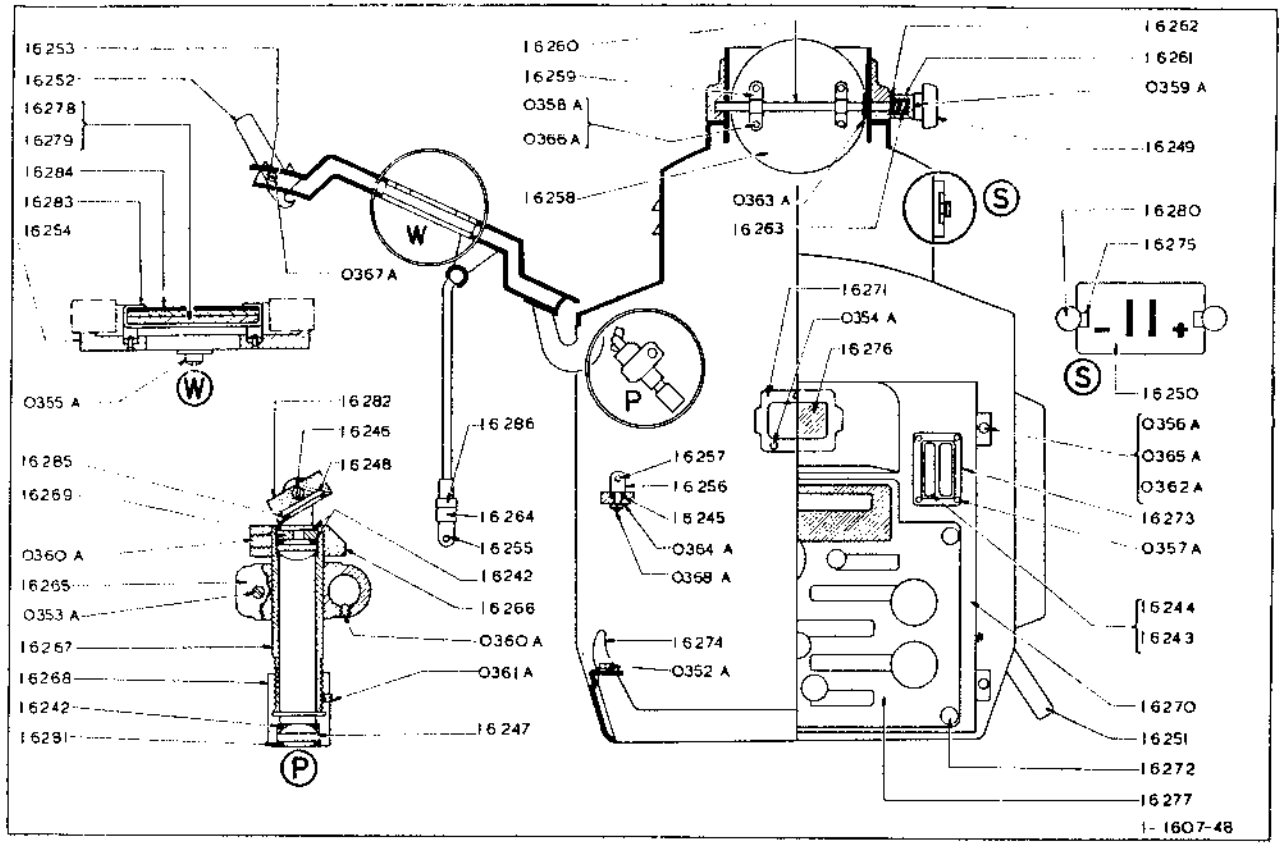

PLATE N° 7

PART No.	DESCRIPTION
16242	Washer, Packing for 16247
16243	Fuse, 2-ampere Cartridge
16244	Fuseholder
16245	Race, Thrust, Door Support Rod
16246	Screw, fixing 16282
16247	Lens, Periscope, Front and Rear
16248	Mirror, Periscope

PART No.	DESCRIPTION
16258	Damper, Chimney
16259	Clip, Chimney Damper
16260	Spindle, Chimney Damper
16261	Housing for Spring
16262	Washer, Special, for Damper Spindle
16263	Spring for Damper

PART No.	DESCRIPTION
16273	Panel, Fuse
16274	Catch, Door
16275	Clip, Spring, Arc Image
16276	Glass, Rear Window
16277	Panel, Loose, complete
16278	Glass, Wide Window, Lamphouse Door

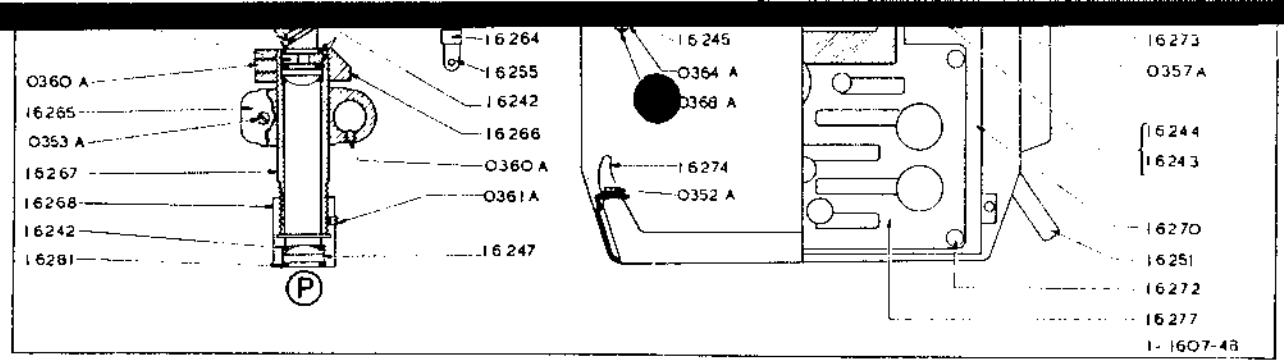

PLATE N° 7

PART No.	DESCRIPTION
16242	Washer, Packing for 16247
16243	Fuse, 2-ampere Cartridge
16244	Fuseholder
16245	Race, Thrust, Door Support Rod
16246	Screw, fixing 16282
16247	Lens, Periscope, Front and Rear
16248	Mirror, Periscope
16249	Knob, Moulded, 1¼" diameter
16250	Screen, Arc Image
16251	Handle, Door, Right Hand
16252	Handle, Door, Left Hand
16253	Pin, Door Handle
16254	Plate, Back, and Spring Window
16255	Fork, End, Door Support Rod
16256	Pivot for Door, Support Rod
16257	Pin for Pivot, Door Support Rod

PART No.	DESCRIPTION
16258	Damper, Chimney
16259	Clip, Chimney Damper
16260	Spindle, Chimney Damper
16261	Housing for Spring
16262	Washer, Special, for Damper Spindle
16263	Spring for Damper
16264	Locknut, Door Support Rod
16265	Block, Support, Periscope
16266	Bracket, for Periscope
16267	Barrel, Periscope, Male
16268	Barrel, Periscope, Female
16269	Washer for 16247
16270	Panel, Fixed, Rear
16271	Frame, Window, Rear
16272	Screw securing 16277

PART No.	DESCRIPTION
16273	Panel, Fuse
16274	Catch, Door
16275	Clip, Spring, Arc Image
16276	Glass, Rear Window
16277	Panel, Loose, complete
16278	Glass, Wide Window, Lamphouse Door
16279	Glass, Narrow Window, Lamphouse Door
16280	Screw, Securing 16275
16281	Ring, Spring, for Barrel
16282	Holder, Mirror
16283	Slide, Window
16284	Gauze, Window
16285	Ring, Spring, Mirror Holder
16286	Rod, Ball, and Collar, complete

WASHERS, PINS AND SCREWS

0352A	Screw fixing	16274
0353A	,,	16265
0354A	,,	16276
0355A	,,	16254
0356A	,,	16270
0357A	,,	16273

0358A	Screw fixing	16259
0359A	,,	16249
0360A	,,	16265, 16267
0361A	,,	16268
0362A	Nut fixing	16270
0363A	Washer for	16258

0364A	Washer for	16256
0365A	Spring Washer for	16270
0366A	Nut fixing	16259
0367A	Split Pin fixing	16253
0368A	Nut retaining	16256

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PLATE No. 8. DOWSER AND LIGHT CUT-OFF ASSEMBLIES

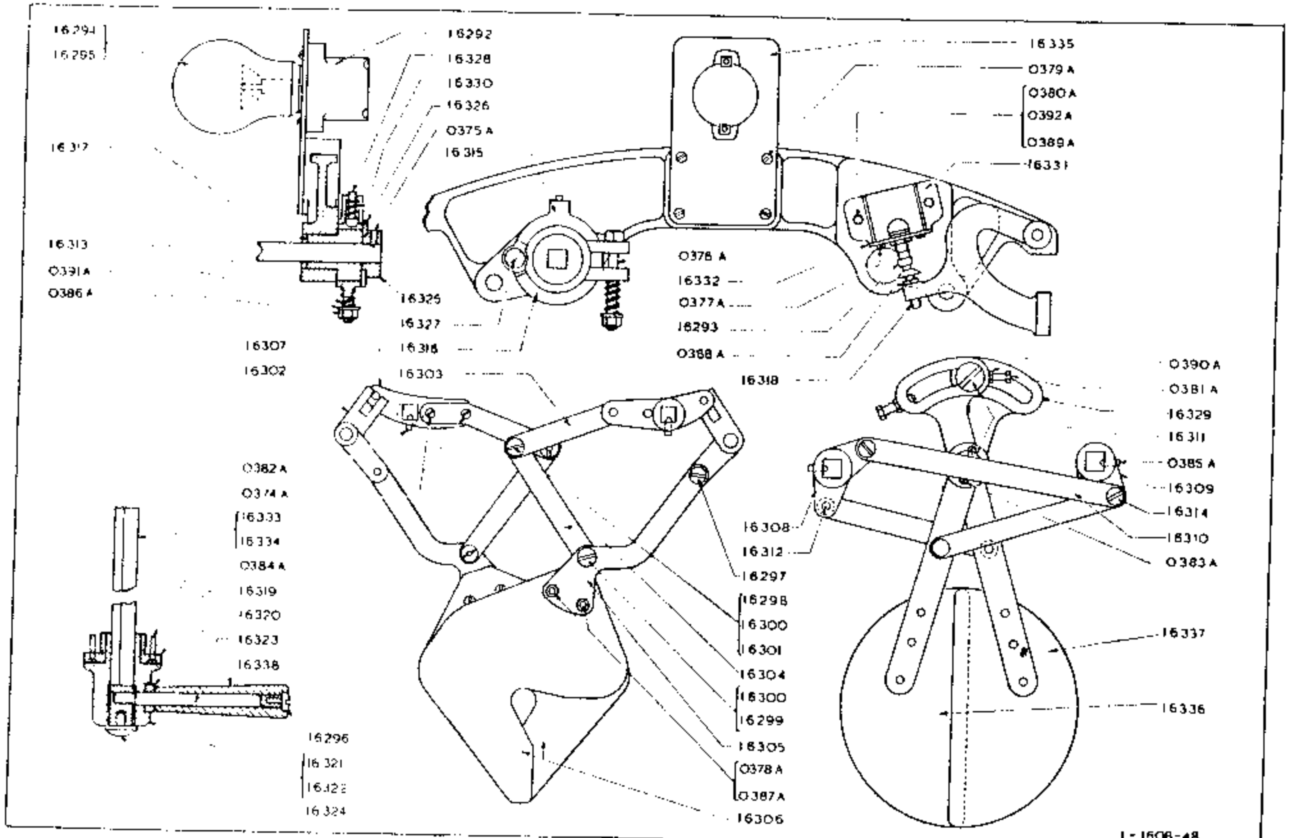

PLATE No 8

PART No.	DESCRIPTION
16292	Lampholder Seecol, Type E.S.
16293	Switch, Push-off
16294	Lamp, Pilot, 210 volts, 60 watts
16295	Lamp, Pilot, 115 volts, 5 watts
16296	Screw, fixing 16338
16297	Screw, Pivot, Dowser Crank
16298	Nut, Pivot (Short), Dowser
16299	Nut, Pivot (Long), Dowser

PART No.	DESCRIPTION
16309	Pivot, Light Cut-off, Non-operating Side
16310	Link, Connecting Pivots 16308, 16309
16311	Screw, Pivot
16312	Screw, Pivot, for 16308
16313	Spring, Brake
16314	Screw, Pivot, for 16309

PART No.	DESCRIPTION
16324	Screw, Cap, Dowser Handle
16325	Collar, Dowser Rod
16326	Washer, Retaining Brake Mechanism
16327	Pin, Pivot, for Brake Shoes
16328	Pin, Locating, 16317
16329	Housing, Blade Arm
16330	Pin, Locating Spring, Brake Mechanism

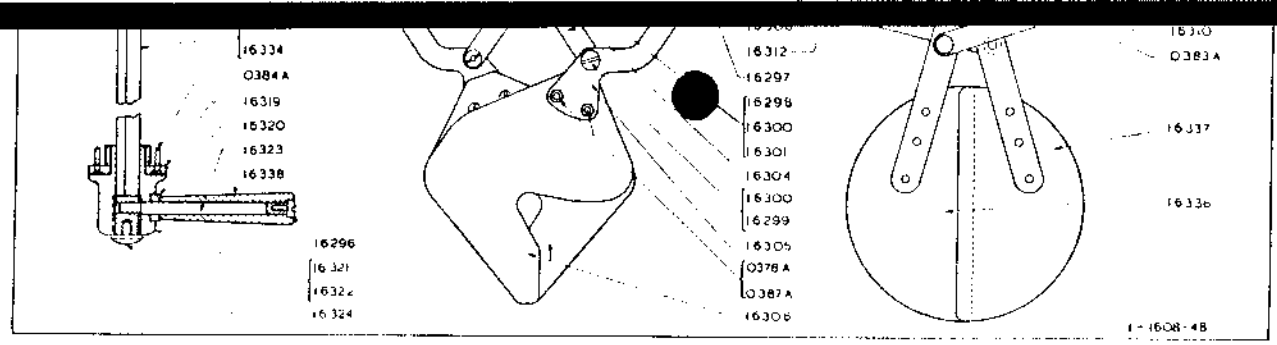

PLATE Nº8

PART No.	DESCRIPTION
16292	Lampholder Seecol, Type E.S.
16293	Switch, Push-off
16294	Lamp, Pilot, 210 volts, 60 watts
16295	Lamp, Pilot, 115 volts, 5 watts
16296	Screw, fixing 16338
16297	Screw, Pivot, Dowser Crank
16298	Nut, Pivot (Short), Dowser
16299	Nut, Pivot (Long), Dowser
16300	Screw, Pivot, Dowser
16301	Tube, Spacing, Dowser
16302	Crank, Slotted, Dowser
16303	Arm, Actuating, Dowser
16304	Link, Dowser
16305	Arm, Blade, Dowser
16306	Blade, Dowser
16307	Crank, Actuating, and Pin, Dowser
16308	Pivot, Light Cut-off, Operating Side
16309	Pivot, Light Cut-off, Non-operating Side
16310	Link, Connecting Pivots 16308, 16309
16311	Screw, Pivot
16312	Screw, Pivot, for 16308
16313	Spring, Brake
16314	Screw, Pivot, for 16309
16315	Shoe, Top Brake
16316	Shoe, Bottom Brake
16317	Bush, Locating, Dowser Rod
16318	Screw, Adjusting, Switch Crank
16319	Bearing, Front, Dowser Rod
16320	Washer, Dowser Handle Boss
16321	Boss, Dowser Handle, Operating
16322	Boss, Dowser Handle, Non-operating Side
16323	Spindle, Dowser Handle
16324	Screw, Cap, Dowser Handle
16325	Collar, Dowser Rod
16326	Washer, Retaining Brake Mechanism
16327	Pin, Pivot, for Brake Shoes
16328	Pin, Locating, 16317
16329	Housing, Blade Arm
16330	Pin, Locating Spring, Brake Mechanism
16331	Switchbox
16332	Plate, Switch
16333	Rod, Dowser, Operating Side
16334	Rod, Dowser, Non-operating Side
16335	Bracket, Lampholder
16336	Blade, Assembly Arm and Link, Non-operating Side
16337	Blade, Assembly Arm and Link, Operating Side
16338	Handle, Cut-off

WASHERS, PINS AND SCREWS

0374A	Screw fixing	16303
0375A	,,	16325
0376A	Bolt for	16315, 16316
0377A	Screw fixing	16332
0378A	,,	16305
0379A	,,	16335
0380A	Bolt for	16331
0381A	Adjusting Screw for	16329
0382A	Screw fixing	16307
0383A	,,	16336, 16337
0384A	,,	16319
0385A	,,	16309
0386A	Nut fixing	0376A
0387A	Nut fixing	16305
0388A	,,	16318
0389A	,,	16331
0390A	,,	0381A
0391A	Washer for	0376A
0392A	Spring Washer for	16331

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PLATE No. 9. WIRING DETAILS

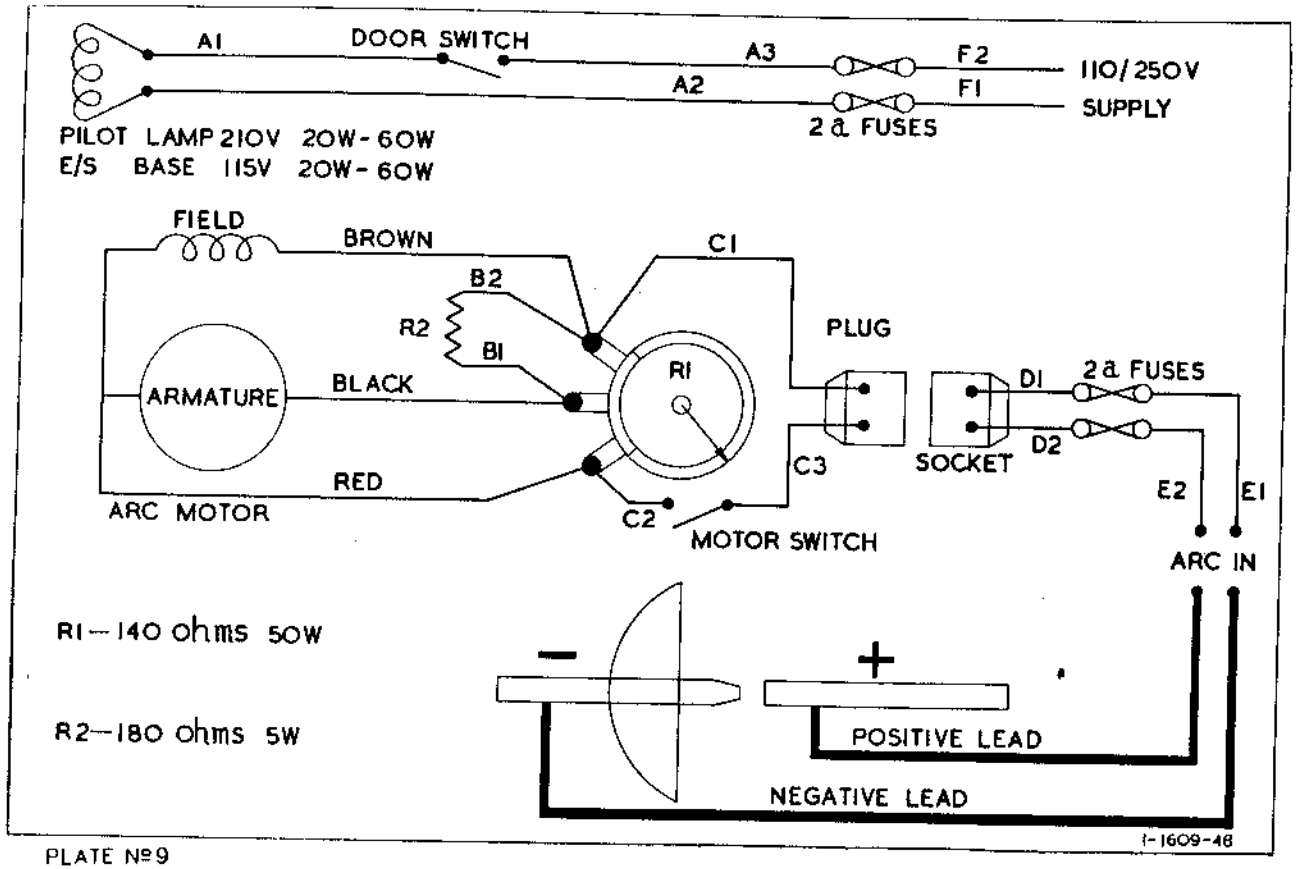

PLATE Nº9

A GAUMONT-KALEE PRODUCT

by

GB-KALEE

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