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Spare Parts Catalogue

**GAUMONT-KALEE "21"
"PRESIDENT" ARC LAMP**

Operating Data

G. A. McLEOD ENTERPRISES
THEATRE EQUIPMENT SERVICE, RENTALS
258 MERTON ST. TORONTO, ONTARIO, CANADA
M4S 1A7 (416) 485-4828

THE GAUMONT-KALEE "PRESIDENT" ARC LAMP

The lamp is designed for modern High Intensity carbons and has flexibility to cover the full range of manufacturers' recommended carbon-current combinations, with capacity to take an 18" positive carbon and a full 10" positive feed.

Its specified 14" diameter elliptical mirror, of optimum collection angle, assures outstanding optical efficiency. Critical, backlash-free levelling adjustments, together with micrometer mirror focusing, make it easy to adjust the light spot for maximum screen illumination with even light distribution and absence of colour, while carbon guides situated near the arc, and free locating carbon grips, assure maintenance of good crater formation, and hence sustained performance.

A notable feature of the lamp, and largely contributory to the simplicity and reliability of its operation, is the employment of twin feed motors. The positive and negative carbon feeds are quite independent and each powered by its own separately controlled motor, each drive being direct and continuous through a positive reduction gear box. This simple and logical arrangement avoids the complication and weakness of variable ratio mechanisms. Operation of one does not disturb the other. Further, the continuous feed results in maintained uniformity of screen illumination in contrast with the periodic pulsation characteristic of an intermittently fed carbon.

Hand controls on the operating side provide for fine adjustment of carbon position and also for rapid re-setting for a new trim, making it unnecessary for the operator to reach inside the lamp to disengage quick release levers and to handle hot carbon carriages. An external scale shows at a glance the length of run remaining.

The lamphouse doors on each side are full width and open high for easy access, and are held in the open position by safety catches which lock automatically in the open position, and which are readily released for closing. Each door is fitted with a large inspection window and this, together with the window fitted in the rear panel, allow for complete visual inspection of the arc.

The lamphouse chimney has a variable speed D.C. motor drive. Each motor is equipped with rheostats mounted on the side of the box. Each motor is protected by fuses and an "on-off" switch. The variation covers the full range of recommended high intensity carbons.

CARBON DRIVE

Each carbon is driven by a variable speed D.C. motor drive box. Each motor is equipped with rheostats mounted on the side of the box. Each motor is protected by fuses and an "on-off" switch. The variation covers the full range of recommended high intensity carbons.

Each positively driven carbon is held against rotation by a worm wheel keyway. The carbon carriage and extension is held against rotation by a worm wheel keyway. The carbon carriage thus traverses the carbon grip of the clutch and the lead screw like a worm wheel. This also rapid traverse

STRIKER

A sensitive scissor mechanism is located on the operating side.

MIRROR ADJUSTMENT

The mirror is carried by a micrometer levelling mechanism on the rear panel, to be operated from the bottom

MIRROR SCREEN

These are linked to the lamp. The mechanism is a complicated linkage which completely encircles the mirror during the stroke

CARBON GUIDES

Both carbons are

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LEE LAMP

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manufacturers' recommended
to take an 18" positive

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Critical, backlash-free
micrometer mirror focusing,
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vide the lamp to disengage
in carriages. An external
remaining.

full width and open high
position by safety catches
position, and which are
fitted with a large inspec-
window fitted in the rear
of the arc.

The lamphouse chimney is tilted at 15°, allowing for easy connection of vents at all operating rakes. A periscope throws a very clear and enlarged image of the arc on to a screen at the base of the chimney, on the operating side.

CARBON DRIVE

Each carbon is directly and continuously driven from its own variable speed D.C. Motor through a totally enclosed reduction gear box. Each motor speed is independently controlled by means of rheostats mounted on the rear panel and the motor circuit includes fuses and an "on-off" switch controlling both motors. The speed variation covers the full range of carbon manufacturers' recommended high intensity burning combinations.

Each positively driven constantly rotating feed screw meshes with a worm wheel keyed to a shaft carried in its corresponding carbon carriage and extended to a hand knob outside the lamp. Each shaft is held against rotation by a dual friction clutch. Whilst so held, the worm wheel is engaged as a nut by the rotating feed screw which thus traverses the carbon. Turning the knob by hand overcomes the grip of the clutch and rotates the worm wheel, which, working into the lead screw like a rack, provides a simple sensitive hand feed and also rapid traverse for re-setting.

STRIKER

A sensitive scissors-type striker is fitted towards the front end on the operating side.

MIRROR ADJUSTMENT

The mirror is carried in the precision 3-point suspension in which it is retained by a single spring-loaded catch. Sensitive, backlash-free, micrometer levelling adjustments are provided, operated by knobs on the rear panel, together with a micrometer focus adjustment, also operated from the back of the lamp.

MIRROR SCREEN AND DOWSER

These are linked and can be operated from either side of the lamp. The mechanism is simple and robust without springs or complicated linkages and provides a two-piece mirror screen which completely encircles the negative carbon, thus fully protecting the mirror during the striking operation.

CARBON GUIDES

Both carbons are guided near the crater by renewable heat-

resistant crutches. The positive guide is set at the factory to accommodate 8 mm. carbon and incorporates a chute leading to a removable ash tray. The negative guide is adjustable both vertically and horizontally for accurate carbon alignment by micrometer control knobs on the rear panel. An inspection window is also incorporated in the rear panel for visual checking of the alignment.

CARBON GRIPS

These are of heat-resistant material, and are of simple effective screw clamp type, to accept any carbon size. Their insulated clamping knobs are placed out of the glare of the lamp and remain cool to handle. Both grips are self-aligning to the carbon guides.

ARC IMAGE

A periscope throws an enlarged image of the arc on to a screen on the operating side of the lamp at the base of the chimney. The correct crater position is with the end of the positive carbon set at 5" from back of the centre of the mirror and the periscope is set at the factory accordingly, when the mirror is in the mean focusing position. Further adjustment should not be necessary, but the position of the image on the screen can be controlled by turning and, if necessary, tilting the reflector which is carried by the periscope.

INTERIOR ILLUMINATION

A lampholder for standard mains voltage lamp is mounted in the lamphouse roof. An operating switch is incorporated in the rear panel.

ELECTRICAL

All wiring is brought to a terminal panel at the rear of the lamp, accessible by removing a readily detachable cover plate. A detachable entry panel caters for variation in conduit fitting.

The rear panel, which carries the motor control rheostats, motor fuses, switch and associated wiring, also switch and wiring for the internal inspection lamp, is readily detachable as a unit to give easy access to this wiring and to the lamp mechanism. The fuses are of standard "Cartridge" type.

OPERATING AND MAINTENANCE

INSTALLATION

Remove the detachable cover beneath the rear panel, thus exposing the terminal panel. Connect the arc leads to the specified terminals and A.C. leads for inspection lamp to the terminal block.

N.B.—All internal wiring connected as shown.

Set each motor position, i.e., maintaining positive screen and adjust negative formation.

Level the mirror to mirror by means of the screen illumination.

Note.—Do not "crash" positive crater jump out of the

LUBRICATION

Oil sparingly and oil box is fitted with oiler. Oil daily is quite sufficient.

The carbon carrier requires periodical cleaning recommended.

CARBON CARRIER

Undue tightening of movement unnecessary. Tight to ensure that the lamp is burning a little further attention are fed by hand.

REMOVING MOTOR

When disconnected may be removed, releasing the securing

REMOVING THE MIRROR

With the mirror down at the top of the mirror support posts and crutches, taking care not to foul the periscope crutch should be at the knob on the rear

at the factory to accom-
a chute leading to a
adjustable both vertically
nt by micrometer control
dow is also incorporated
alignment.

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Their insulated clamping
nd remain cool to handle.
guides.

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positive carbon set at 5'
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lamp is mounted in the
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at the rear of the lamp,
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control rheostats, motor
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MAINTENANCE

rear panel, thus exposing
o the specified terminals
terminal block.

N.B.—All internal wiring runs from this panel and the motor leads are connected across the main arc feed points.

Set each motor potentiometer to correspond to the carbon feed, i.e., maintaining position of the image of the carbon tips on the screen and adjust negative crutch to maintain correct positive crater formation.

Level the mirror to obtain an even screen and finally focus the mirror by means of the knob on the rear of the lamp to obtain optimum screen illumination.

Note.—Do not "crash" the carbons together when striking, or the positive crater will be damaged and the carbons possibly jump out of their crutches.

LUBRICATION

Oil sparingly and daily all bearings and guides. Note that the gear box is fitted with oilite bearings and consequently a drop or two of oil daily is quite sufficient.

The carbon carriage clutches should be kept free from oil, and periodical cleaning of the friction disc and the metal blades is recommended.

CARBON CARRIAGE DRIVE CLUTCHES

Undue tightening of the drive clutches merely makes the hand feed movement unnecessarily heavy. The clutches should be sufficiently tight to ensure that the carbon carriages are driven at whatever rake the lamp is burning and once these are set they should require very little further attention as the clutch only "slips" whilst the carriages are fed by hand.

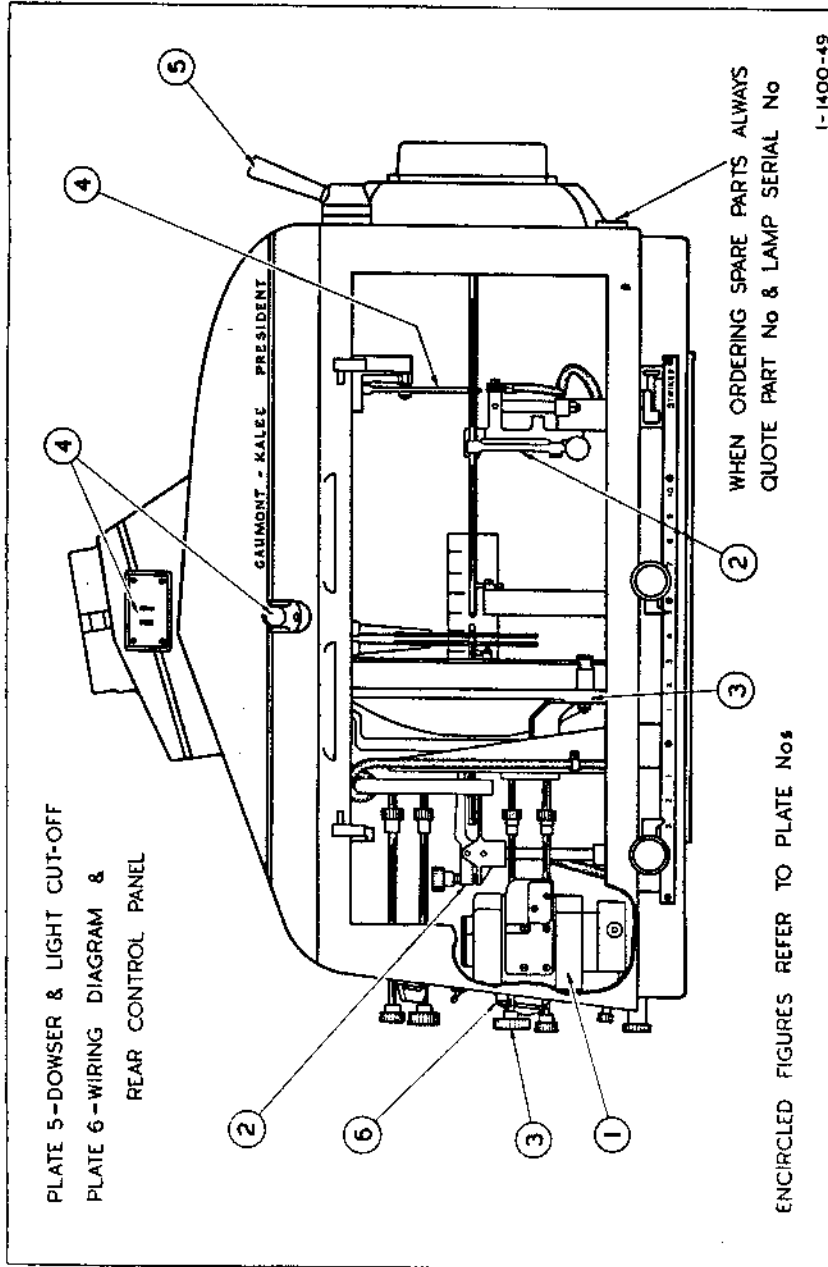
REMOVING MOTOR AND GEAR BOX

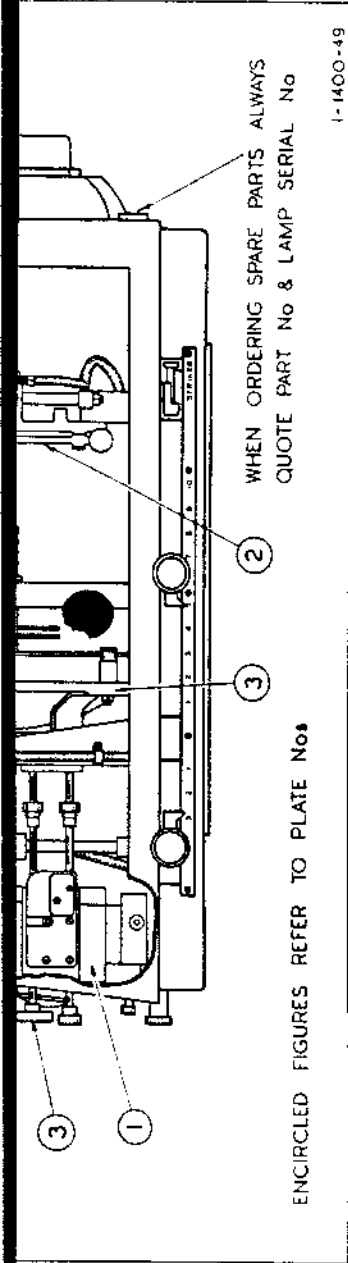
When disconnected at the respective terminal block, either motor may be removed, complete with the top half of its gear box, by releasing the securing screws at the corners of the unit.

REMOVING THE MIRROR

With the mirror dowsel fully open, release the spring loaded catch at the top of the mirror support casting, lift the mirror from the bottom support posts and withdraw between the positive and negative crutches, taking care not to scratch the mirror on the positive crutch or foul the periscope barrel. To facilitate removal, the negative crutch should be at the top of its vertical movement, as controlled by the knob on the rear panel.

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





WHEN ORDERING SPARE PARTS ALWAYS
QUOTE PART No & LAMP SERIAL No

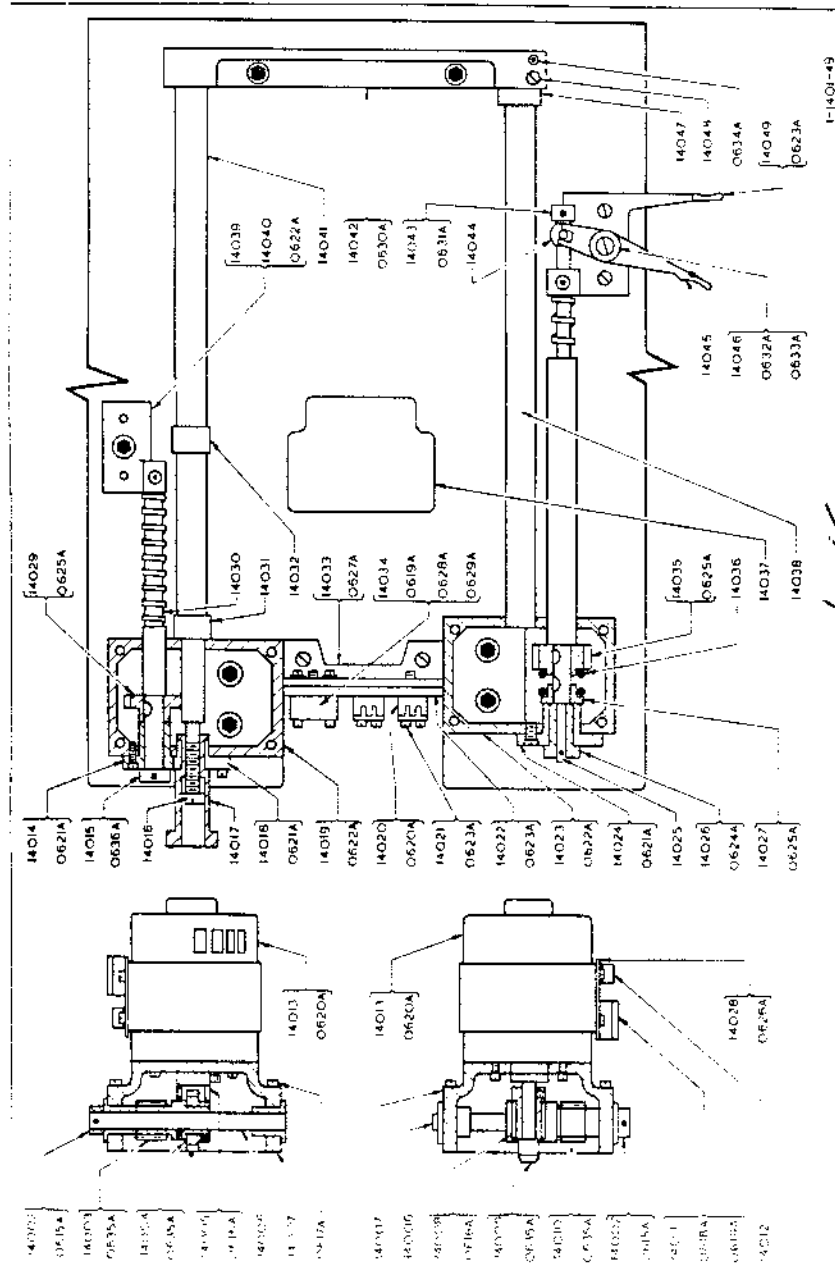
ENCIRCLED FIGURES REFER TO PLATE No.

1-1400-49

PLATE No. 0

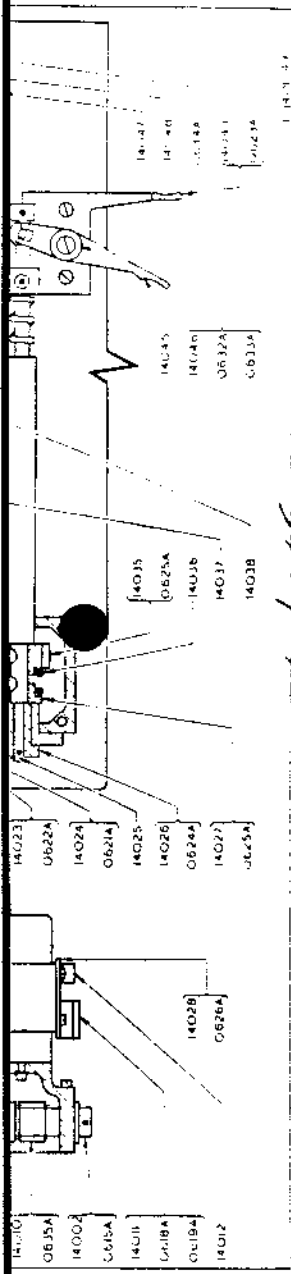
KEY PLATE No.	DESCRIPTION	PAGE No.
1	Complete Burner Feed Mechanism	8-9
2	Complete Negative and Positive Carbon Holders and Crutch	10-11
3	Complete Mirror Holder with Controls including Negative Crutch	12-13
4	Lamphouse Accessories	14-15
5	Dowser and Light Cut-off	16-17
6	Rear Control Panel and Wiring Diagram	18-19

Plate No. 1. COMPLETE BURNER FEED MECHANISM



*Bunches 3/16 x 7/8" L. → G.K. 100/65/745
 " 1/4 x 3/16 x 7/8" L. → G.K. 100/65/569*

PART No.	DESCRIPTION	PART No.	DESCRIPTION
14002	Collar, Gear Box Intermediate Shaft	14026	Bearing, Positive Leadscrew
14003	Worm, Negative Intermediate, Steel	14027	Collar, Spring
14004	Worm Wheel, Negative Intermediate--48 teeth--Steel	14028	Wing, Motor
14005	Worm, Negative Motor--Steel	14029	Gear, Negative Leadscrew--48 teeth--Steel
14006	Shaft, Gear Box Intermediate	14030	Leadscrew, Negative
14007	Top Casting for Gear Box	14031	Collar, Spacing
14008	Worm, Positive Motor--Steel	14032	Collar, Spacing
14009	Worm Wheel, Positive Intermediate--28 teeth--Steel	14033	Bracket, Terminal Panel
14010	Worm, Positive Intermediate--Steel	14034	Block, Terminal, 2-way
14011	Connector, 3-way, Shrouded	14035	Gear, Positive Leadscrew--28 teeth--Steel
14012	Clip, Cable	14036	Spring, Positive Leadscrew
14013	Motor	14037	Tray
14014	Bush for Leadscrew--Negative Gear Box	14038	Guide Bar, Positive
14015	Collar, Negative Intermediate	14039	Bracket, Negative Leadscrew



Branches $3/16 \times 7/16$ Squam $\times 7/8$ L. \rightarrow G.K. 100/65/745
 " $1/4 \times 5/16 \times 7/8$ L. \rightarrow G.K. 100/65/569

PART No.	DESCRIPTION	PART No.	DESCRIPTION
14002	Collar, Gear Box Intermediate Shaft	14028	Bearing, Positive Leadscrew
14003	Worm, Negative Intermediate, Steel	14027	Collar, Spring
14004	Worm Wheel, Negative Intermediate—48 teeth—Steel	14028	Wing, Motor
14006	Worm, Negative Motor—Steel	14029	Gear, Negative Leadscrew—48 teeth—Steel
14007	Shaft, Gear Box Intermediate	14030	Leadscrew, Negative
14008	Top Casting for Gear Box	14031	Collar, Spacing
14009	Worm, Positive Motor—Steel	14032	Collar, Spacing
14010	Worm Wheel, Positive Intermediate—28 teeth—Steel	14033	Bracket, Terminal Panel
14011	Worm, Positive Intermediate—Steel	14034	Block, Terminal, 2-way
14012	Connector, 3-way, Shrouded	14035	Gear, Positive Leadscrew—28 teeth—Steel
14013	Clip, Cable	14036	Spring, Positive Leadscrew
14014	Motor	14037	Tray
14015	Bush for Leadscrew—Negative Gear Box	14038	Guide Bar, Positive
14016	Collar, Negative Leadscrew	14039	Bracket, Negative Leadscrew
14017	Stop Screw, Mirror Focus	14040	Dowel, Negative Leadscrew Bracket
14018	Knob, Focussing	14041	Guide Bar, Negative
14019	Bush, Split	14042	Guide Bridge
14020	Base, Negative Gear Box	14043	Collar, Positive Leadscrew
14021	Block, Terminal	14044	Pivot, Positive Leadscrew Strike
14022	Panel, Terminal	14045	Trigger, Strike
14023	Clip, Cable	14046	Post, Striker
14024	Base, Positive Gear Box	14047	Collar, Spacing
14025	Bush, Positive Leadscrew	14048	Screw, Locating
	Leadscrew, Positive	14049	Bracket, Positive Leadscrew

WASHERS, PINS AND SCREWS

0615A	Taper Pin fixing	14002	Screw	0626A	Screw	14028	fixing
0616A	"	14005, 14008	"	0627A	"	14033	"
0617A	"	14007	"	0628A	"	14034	"
0618A	"	14011	"	0629A	Washer	14034	"
0619A	"	14011, 14034	"	0630A	Screw	14042	"
0620A	"	14013, 14020	"	0631A	Taper Pin	14043	"
0621A	"	14014, 14018, 14024	"	0632A	Nut	14046	"
0622A	"	14023, 14019, 14039	"	0633A	Washer	14046	"
0623A	"	14021, 14022, 14049	"	0634A	Screw	14038	"
0624A	Taper Pin	14026	"	0635A	"	14003, 14004, 14009, 14010	"
0625A	No. 1 Woodruff Key for	14027, 14027, 14035	"	0636A	Taper Pin	14015	"

Plate No. 2. COMPLETE NEGATIVE AND POSITIVE CARBON HOLDERS AND CRUTCH

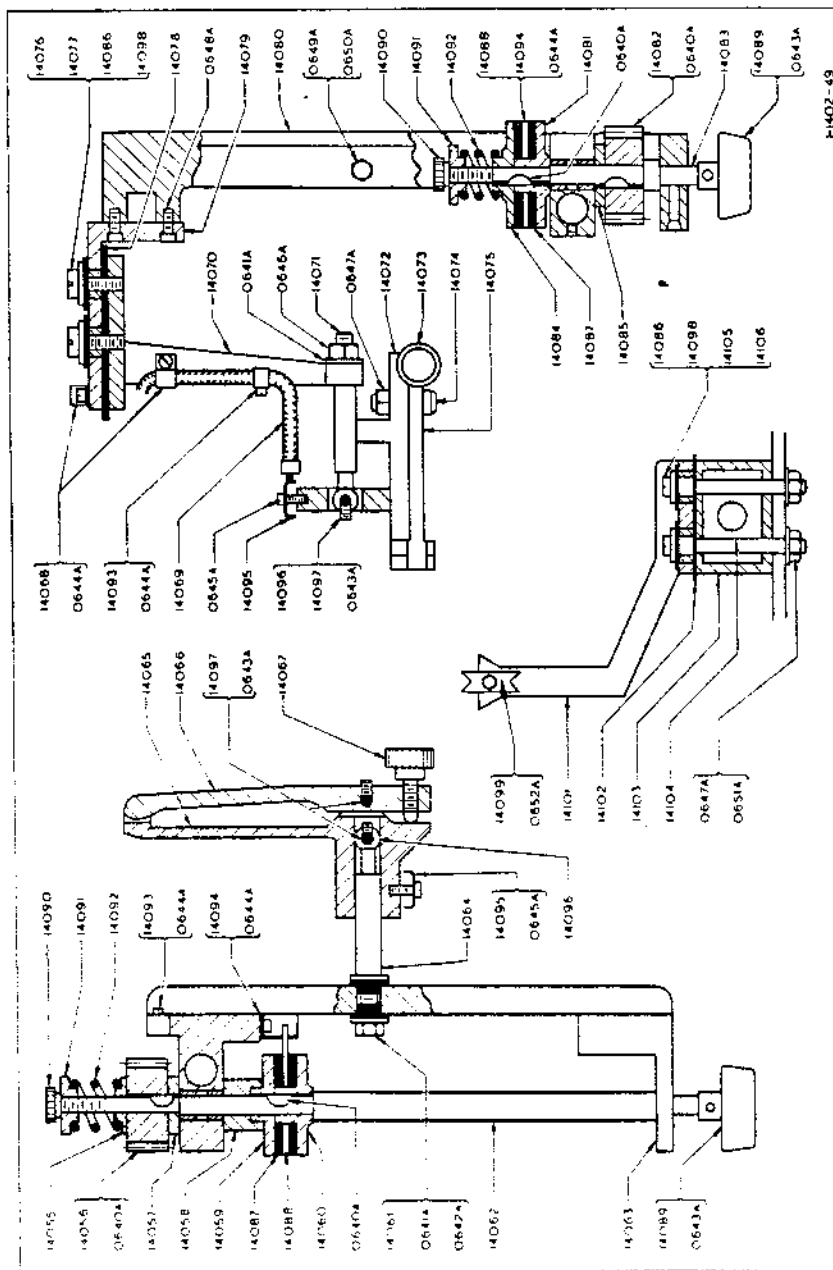


PLATE NO. 2

NEGATIVE

PART No.	DESCRIPTION	PART No.	DESCRIPTION	PART No.	DESCRIPTION
14055	Washer, Spring	14090	Locknut, Clutch Drive	14088	
14056	Gear, Feed, 30 teeth--Steel	14091	Nut, Clutch Drive	14087	
14057	Washer, Feed	14092	Spring, Clutch Drive	14086	
14058	Spacer, Feed	14093	Clip for Cable	14085	
14059	Collar, Friction, Feed	14094	Key for Friction Plate	14084	
14060	Disc, Friction, Feed	14095	Clamp, Terminal, for Carbon Holder	14083	
14061	Bush, Insulating, Carbon Holder	14096	Screw for adjustment of Carbon Holder	14082	
14062	Shaft, Feed	14097	Pin, Fulcrum, for Carbon Holder	14081	
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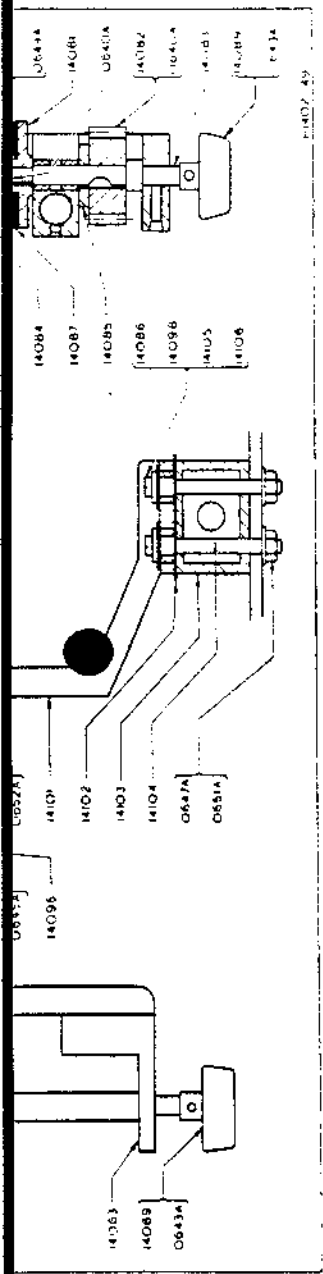


PLATE NO 2

NEGATIVE

PART No.	DESCRIPTION	PART No.	DESCRIPTION
14055	Washer, Spring	14090	Locknut, Clutch Drive
14056	Gear, Feed, 30 teeth—Steel	14091	Nut, Clutch Drive
14057	Washer, Feed	14092	Spring, Clutch Drive
14058	Spacer, Feed	14093	Clip for Cable
14059	Collar, Friction, Feed	14094	Key for Friction Plate
14060	Disc, Friction, Feed	14095	Clamp, Terminal, for Carbon Holder
14061	Bush, Insulating, Carbon Holder	14096	Screw for adjustment of Carbon Holder
14062	Shaft, Feed	14097	Pin, Fulcrum, for Carbon Holder
14063	Carriage, Fabricated	14098	Washer, Insulating

POSITIVE

14078	Insulation, Carriage	14088	Plate, Friction
14079	Bracket, Angle for Carriage	14089	Knob, Moulded, for Drive
14080	Carriage and Bushes	14090	Locknut, Clutch Drive
14081	Disc, Friction	14091	Nut, Clutch Drive
14082	Gear, Feed, 30 teeth—Steel	14092	Spring, Clutch Drive
14083	Shaft, Feed	14093	Clip, for Cable
14084	Collar, Friction	14094	Key, for Friction Plate
14085	Washer	14095	Clamp, Terminal, for Carbon Holder
14086	Bush, Insulating	14096	Screw, for adjustment of Carbon Holder
14087	Pad, Friction (Ferodo)	14097	Pin, Fulcrum, for Carbon Holder
		14098	Washer, Insulating

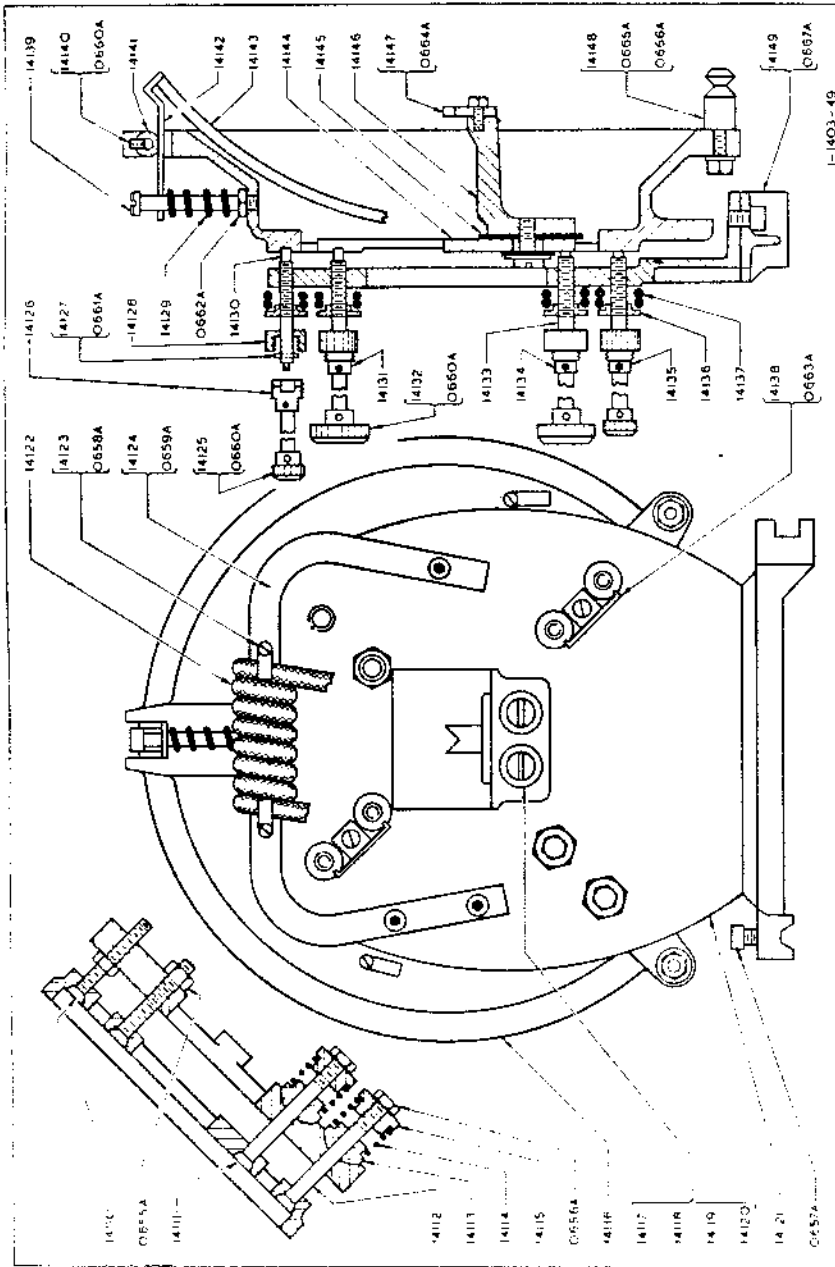
POSITIVE CRUTCH

14102	Insulation, Positive Crutch	14105	Screw, securing Positive Crutch Arm
14103	Packing, Positive Crutch	14106	Washer, Special, Positive Crutch Arm
14104	Bolt, Positive Crutch		

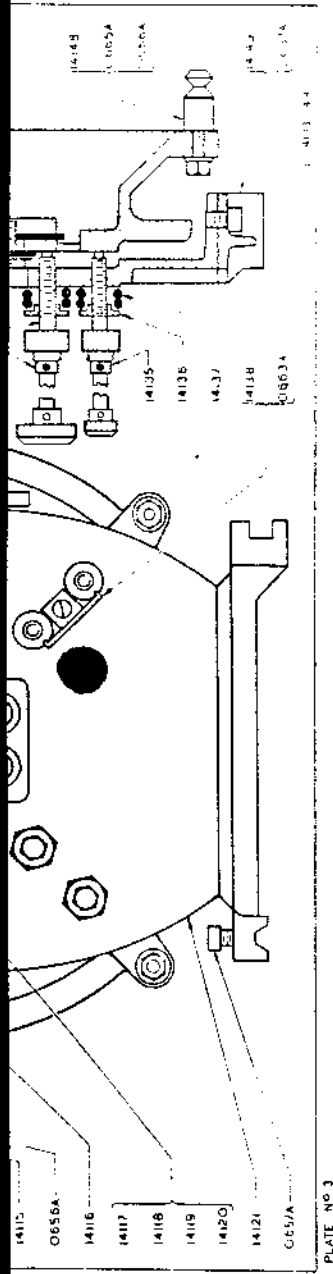
WASHERS, PINS AND SCREWS

06440A	Key for	14056, 14060, 14081, 14082	06494A	Stopscrew for	14080
0641A	Washer for	14064, 14071	0650A	Nut for	0649A
0642A	Nut fixing	14064	0651A	Washer for	14104
0643A	Screw "	14097, 14089	0652A	Screw securing	14089

Plate No. 3. COMPLETE MIRROR HOLDER WITH CONTROLS, INCLUDING NEGATIVE CRUTCH



PART No.	DESCRIPTION	PART No.	DESCRIPTION
14110	Bolt, Adjusting	14130	Screw for Adjustment (Long)
14111	Bolt, Negative Pivot	14131	Rod, Negative Crutch Control (Horizontal)
14112	Bolt, Mirror Pivot	14132	Knob, Negative Crutch Control
14113	Collar, Pivot	14133	Screw, for Adjustment (Short)
14114	Spring, Pivot	14134	Rod, Negative Crutch Control (Vertical)
14115	Nut, Retaining Spring	14135	Rod, Mirror Tilt Control (Vertical)
14116	Holder for Mirror	14136	Nut for Adjustment
14117	Screw, Clamp, Insulation, Negative Crutch Arm	14137	Spring for Tilt Control
14118	Bush, Insulating	14138	Key for Nut
		14139	Pillar for Mirror Spring

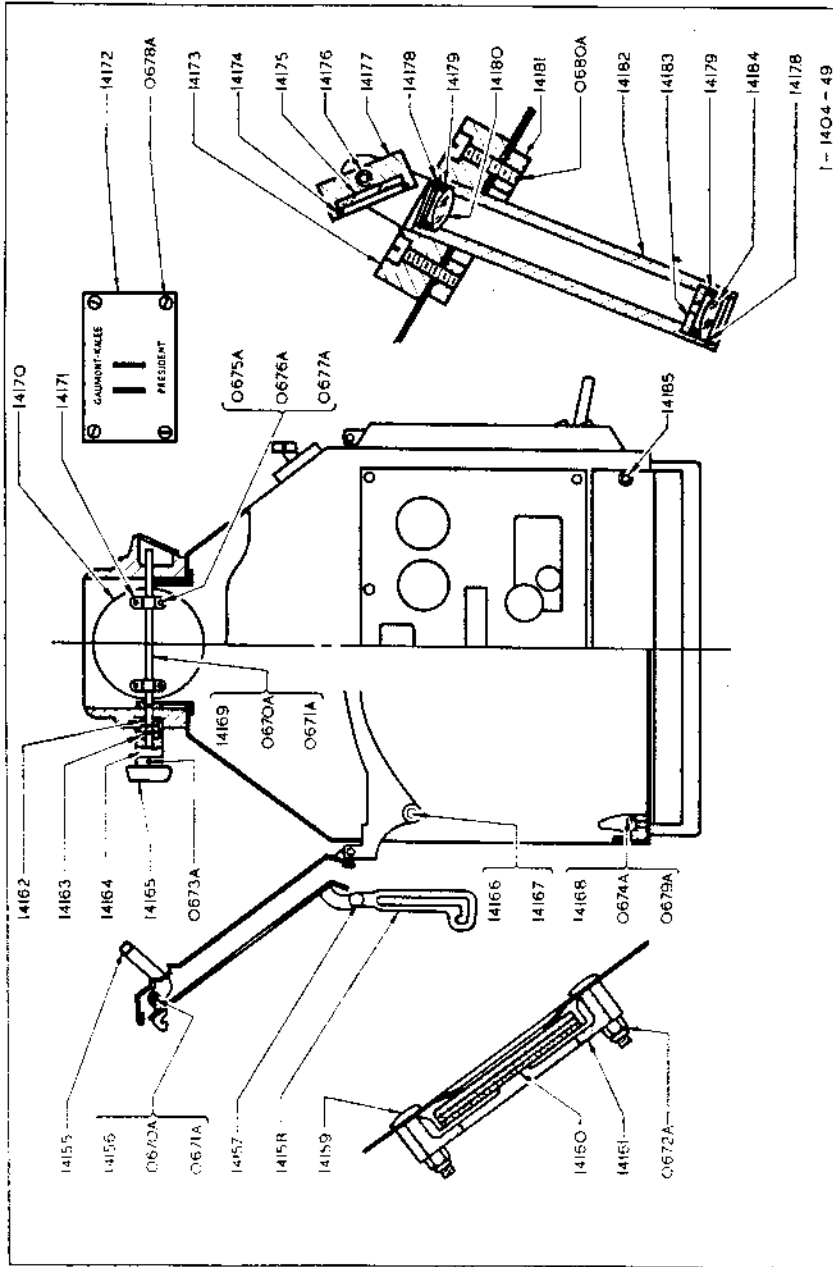


PART No.	DESCRIPTION	PART No.	DESCRIPTION
14110	Bolt, Adjusting	14130	Screw for Adjustment (Long)
14111	Bolt, Negative Pivot	14131	Rod, Negative Crutch Control (Horizontal)
14112	Bolt, Mirror Pivot	14132	Knob, Negative Crutch Control
14113	Collar, Pivot	14133	Screw, for Adjustment (Short)
14114	Spring, Pivot	14134	Rod, Negative Crutch Control (Vertical)
14115	Nut, Retaining Spring	14135	Rod, Mirror Tilt Control (Vertical)
14116	Holder for Mirror	14136	Nut for Adjustment
14117	Screw, Clamp, Insulation, Negative Crutch Arm	14137	Spring for Tilt Control
14118	Bush, Insulating	14138	Key for Nut
14119	Washer, Insulating	14139	Pillar for Mirror Spring
14120	Washer, Special, Negative Crutch Arm	14140	Pin, Fulcrum
14121	Support for Mirror	14141	Spacer for Mirror Catch
14122	Lead, Complete, Negative	14142	Catch for Mirror
14123	Clip for Cable	14143	Mirror, 1 1/2" diameter
14124	Magnet	14144	Holder, Negative Crutch
14125	Knob, Mirror Control	14145	Insulator, Negative Crutch Arm
14126	Rod, Mirror Tilt Control (Horizontal)	14146	Arm for Negative Crutch
14127	Pin, Universal Joint	14147	Crutch, Negative
14128	Nut for Universal Joint	14148	Post for Mirror
14129	Spring, Catch, Mirror	14149	Bridge for Mirror Support

WASHERS, PINS AND SCREWS

0655A	Nut securing	14110	
0656A	Locknut for	14114	
0657A	Screw securing	14149	
0658A	"	14123	
0659A	"	14124	
0660A	"	14140, 14125, 14132	
0661A	"	14127	
0662A	Nut securing	14139	
0663A	Screw	14138	
0664A	"	14147	
0665A	Nut	14148	
0666A	Washer for	14148	
0667A	Screw securing	14121	

Plate No. 4. LAMPHOUSE ACCESSORIES



PART No.	DESCRIPTION	PART No.	DESCRIPTION
14155	Handle for Door	14170	Disc, Butterfly
14156	Hinge Pin for Door Handle	14171	Clip for Chimney Damper
14157	Bolt for Hinge	14172	Screen for Arc Image
14158	Link, Support	14173	Mounting for Periscope
14159	Screw securing 14161	14174	Spring Ring for Mirror
14160	Pack, Window	14175	Mirror, Periscope
14161	Frame, Window	14176	Bolt securing Mirror, Holder

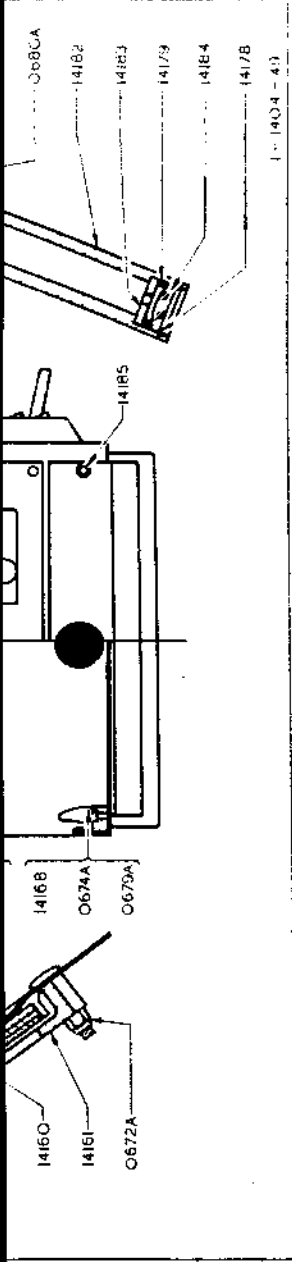


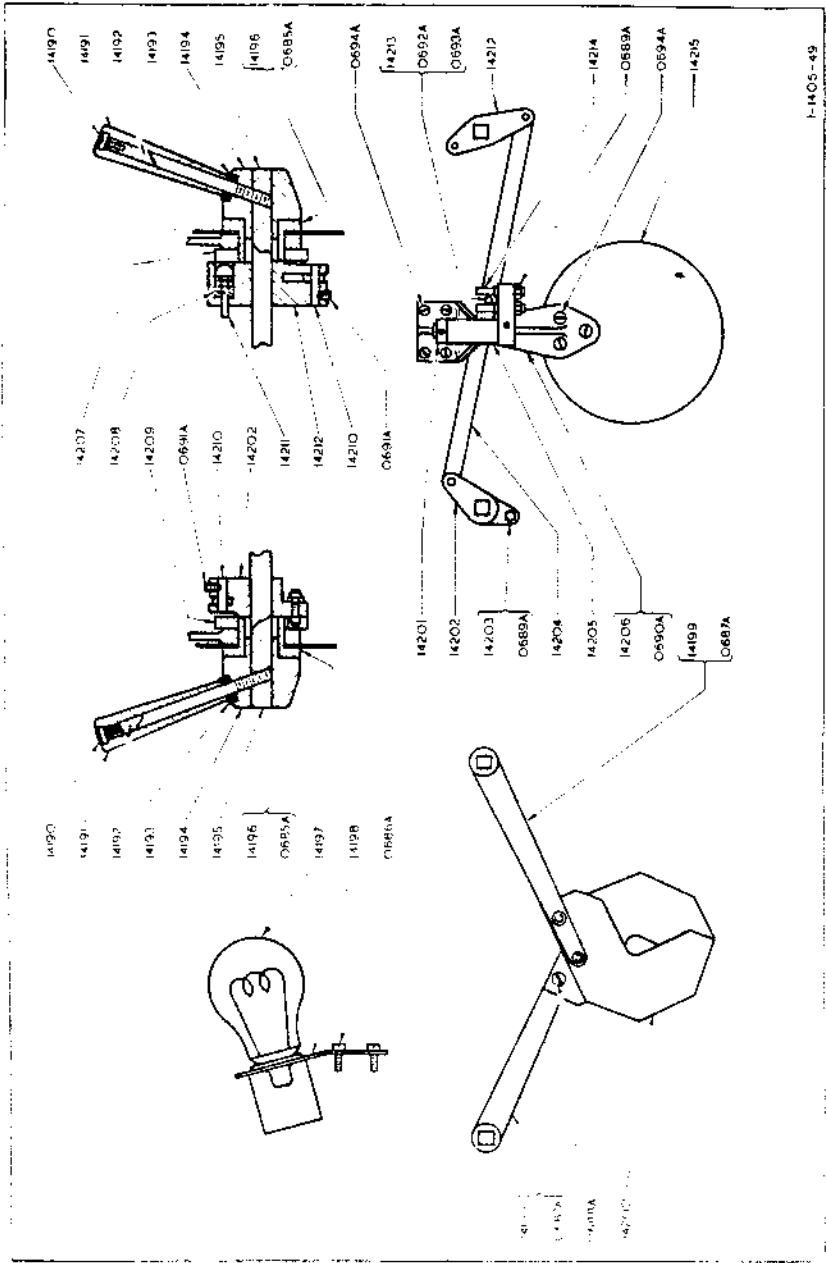
PLATE NO 4

PART No.	DESCRIPTION	PART No.	DESCRIPTION
14155	Handle for Door	14170	Disc, Butterfly
14156	Hinge Pin for Door Handle	14171	Clip for Chimney Damper
14157	Bolt for Hinge	14172	Screen for Arc Image
14158	Link, Support	14173	Mounting for Periscope
14159	Screw securing 14161	14174	Spring Ring for Mirror
14160	Pack, Window	14175	Mirror, Periscope
14161	Frame, Window	14176	Bolt securing Mirror, Holder
14162	Washer for Chimney Damper Spindle	14177	Holder, Mirror
14163	Spring for Chimney Damper Spindle	14178	Spring Ring for Barrel
14164	Housing, Spring, for Chimney Damper Spindle	14179	Washer for Periscope
14165	Knob for Chimney Damper Spindle	14180	Lens, Outer
14166	Stud for 14158	14181	Ring for Nut
14167	Screw securing 14158	14182	Barrel, Periscope
14168	Catch for Door	14183	Washer, Stop
14169	Spindle for 14170	14184	Lens, Inner
		14185	Thumb Screw, securing Loose Panel

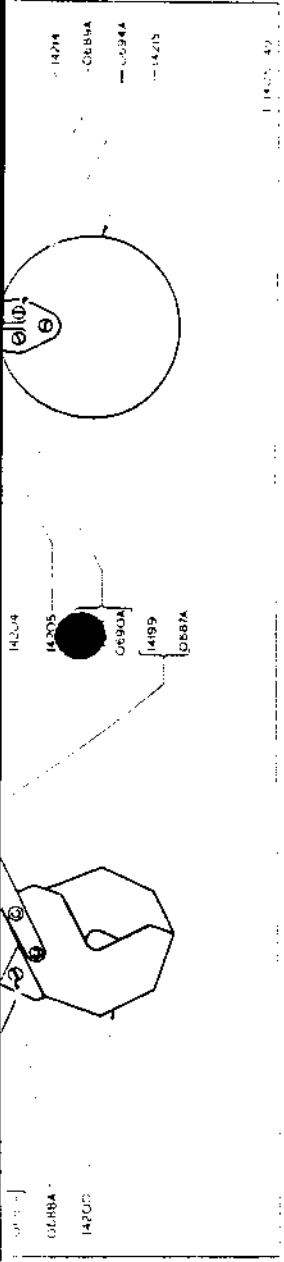
WASHERS, PINS AND SCREWS

0670A	Washer for	14155, 14169	Nut securing	14170
0671A	Split Pin securing	14155, 14169	Washer "	14170
0672A	Nut	14161	Screw "	14172
0673A	Screw	14165	" "	14168 (Op. Side)
0674A	"	14168 (Non-Op. Side)	" "	14173
0675A	Bolt	14170	" "	

Plate No. 5. DOWSER AND LIGHT CUT-OFF



PART No.	DESCRIPTION	PART No.	DESCRIPTION
14190	Screw securing Dowser Handle	14203	Pin, Stop
14191	Handle for Dowser	14204	Link for Coupling
14192	Post for Dowser Handle	14205	Bearing, Pivot
14193	Collar for Dowser Handle	14206	Arm, Radial
14194	Boss for Dowser Handle	14207	Disc, Locating
14195	Shaft, Operating	14208	Spring for Locating Disc



PART No.	DESCRIPTION	PART No.	DESCRIPTION
14190	Screw securing Dowser Handle	14203	Pin, Stop
14191	Handle for Dowser	14204	Link for Coupling
14192	Post for Dowser Handle	14205	Bearing, Pivot
14193	Collar for Dowser Handle	14206	Arm, Radial
14194	Boss for Dowser Handle	14207	Disc, Locating
14195	Shaft, Operating	14208	Spring for Locating Pin
14196	Bearing	14209	Disc, Stop
14197	Lamp, Inspection	14210	Pin for Bearing
14198	Bracket for Inspection Lamp	14211	Pin, Locating
14199	Arm for Dowser Blade	14212	Lever, Operating (Operating Side)
14200	Blade for Dowser	14213	Pin, Driving
14201	Spindle for Light Cut-off	14214	Pin, Guide
14202	Lever, Operating (Non-Operating Side)	14215	Saucer

WASHERS, PINS AND SCREWS

0685A	Screw fixing	14196	0690A	Screw fixing	14201, 14206
0686A	"	14198	0691A	"	14210
0687A	"	14199	0692A	Nut	14213
0688A	"	14200	0693A	Washer for	14213
0689A	Nut for	14203, 14214	0694A	Screw fixing	14205, 14215

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Plate No. 6. REAR CONTROL PANEL AND WIRING DIAGRAM

The diagram illustrates the electrical layout of the rear control panel. On the left, a terminal block contains terminals 14220 through 14238. The panel features two rheostats (R1, R2) with 150 ohms resistance, a 5A fuse, an inspection lamp switch, a motor switch, and a pilot lamp. Wires are color-coded: blue or black for the positive motor, red for the negative motor, green for ground, and red/black for the pilot lamp. The system is powered by a battery with positive and negative leads connected to the terminal block.

PART No.	DESCRIPTION
14220	Block, Terminal
14221	Insulation for Terminal Block
14222	Label, Top
14223	Frame for Windows
Part No.	DESCRIPTION
14228	Fuse, 5 amp.
14229	Dial, Positive Rheostat
14230	Dial, Negative Rheostat
14231	Panel Bottom

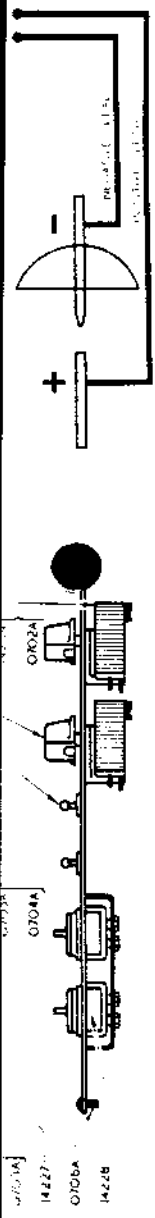


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PART No.	DESCRIPTION	Part No.	DESCRIPTION
14220	Block, Terminal	14228	Fuse, 5 amp.
14221	Insulation for Terminal Block	14229	Dial, Positive Rheostat
14222	Label, Top	14230	Dial, Negative Rheostat
14223	Frame for Window	14231	Panel, Bottom
14224	Glass, Window	14232	Switch, Toggle
14225	Clip, for Cable	14233	Knob for Potentiometer
14226	Panel for Switch	14234	Potentiometer, 190 ohms
14227	Fuseholder		

WASHERS, PINS AND SCREWS

0700A	Screw fixing	14220	Screw fixing	14223-25
0701A	Nut	14220-22-23-25-26-31	"	14225
0702A	Screw	14222-26-31-34	"	Rear Control Panel
0703A	Washer for	14222-23-25-26-31	"	14220
0704A			"	
0705A			"	
0706A			"	
0707A			"	

A GAUMONT-KALEE PRODUCT

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