L. 88/XI-59 in.

VICTORIA X - 70/35

SPARE PARTS CATALOGUE

CINEMECCANICA MILANO

ASSEMBLING THE PROJECTOR

Place the base column upside down on the floor, upon a dust sheet or other means of protection against scratches.

Place the base frame on the inverted column, and insert the two 30mm bolts which secure the frame to the column, lock these two bolts with the two knurled nuts supplied.

In the base frame are 8 tapped holes for Allen cap bolts (10mm dia.) Two of such holes (one for each side of the base) have a correspondent hole in the column to allow the fastening of the column to the base during the mounting of the projector. The column and base may be now stood the right way up and roughly positioned in the projection room.

The Lamphouse beam is secured to the rear of the column by 5 Allen cap bolts : -3 - 10mm x 40mm long; 2 - 10mm x 25mm long. The beam cable harness must be carried through the hole in the column, and connected to the terminal strip on the insie wall of the column.

The steel strip included with the tool kit is fastened to the top of the projector by two of the top spool - box securing bolts, thus providing an easy means of litfing and handling the mechanism. Place the mechanism on the column, and from the inside of the column, screw in, but do not tighten, the four Allen cap bolts (8mm x 25mm long). Insert the two short alignment pins from inside the column, when these are located in the projector base the four bolts may be tightened.

After the mechanism and beam are aligned and secured, but before fitting any other components, the cable harness should be fitted and connected as detailed in drawing No. 10C-1920.

The following parts may now be mounted in the column, and connected to the terminal board :

- Take-up motor with clutch
- Exciter lamp supply unit
- Cooling fan assembly.
- change over supply unit (on the projector No.1 only)

The connections for these items are clearly shown in the wiring diagram No. 10C-1920 but it is essential to take great care when connecting the threephase motors to ensure that all motors have the correct rotation.

The top spool-box is bolted to the top of the mechanism, alignment is provided by two dowel pins in the base of the spool-box arm.

A small flexible conduit protudes from the bottom of the spool-arm, this contains the two wires which supply the top spool-box arm, these wires should be connected to the 2 pole terminal board at the rear of the mechanism.

The top and bottom fire-traps are each secured by two screws (5mm x 8mm long).

The rear cover of the magnetic soundhead should be removed to fix the magnetic soundhead to the front of the mechanism. The magnetic soundhead is aligned by two pins attached to it, and is fixed to the projector by three hexagon headed bolts (8mm x 20mm long). In the rear of the magnetic soundhead are two terminal boards to which the leads from the magnetic cluster should be connected to the magnetic Preamplifier input. After these connections are made the flywheel may be fitted and secured by the "spider" spring and hexagon nut.

The Optical Pre-amplifier should be mounted in the square recess at the front of the column. This unit has a cable with a concentric plug which should be plugged into the socket located at the rear of the optical soundhead. On the Preamplifier, a 4 pole plug is provided for a cable to be connected at the free end as shown in the drawing No. 5111.

LUBRICATION

Remove the dip-stick from the take-up gear box and fill with oil until the top mark on the dip-stick is reached.

Fill the projector with oil through the filler plug at the top of the mechanism, until the oil reached the Red Spot on the lower oil sight window (near the inching knob). Using the inching knob, turn the projector by hand to make sure that the projector runs smoothly and freely. Switch on the motors and check that they run in the correct direction. The projector should be run at 24 f.p.s., abd topped up with oil until the oil level is steady on the upper oil sight window.

Referring to Drawing No.107-1908, fill the dash pots of the oil dampers for both magnetic and optical soundheads, thread some test film through the projector, and adjust the control springs of the filter rollers as detailed in Drawing No. 107-1908.

The take-up clutch should be adjusted so that the take-up spool winds on at the start of the film without excessive snatch or strain on the film.

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PICTURE AND SOUND CHANGEOVER

The VICTORIA X 70/35 - 6 1/4" model - is fitted with an electrically actuated change-over for picture and sound (drawing No. 5228).

The picture change-over is performed by the safety shutter mounted on the mechanism on the back of the rotary shutter. The sound change-over is performed in the change-over box by means of a relais energized by a microswitch mounted on the projector mechanism.

The opening of the safety shutter is electrically actuated by means of a rotary solenoid energized through a foot switch. In the opening and closing travel, the shutter - through a microswitch - energizes the sound relais in the change-over box, performing the sound change-over.

The wiring in between the projectors and to the foot-switches is clearly indicated in the drawings Nos. 5258 and 10C-1920. The parts of the electrically actuated change-over are clearly showed in the drawing No. 5230.

PICTURE AND SOUND CHANGE-OVER OPERATION

The light shutter is retained in the open position by a latch which is controlled by the governor mechanism, consequently the shutter will remain open only when the projector is running at normal speed. This latch may be tripped :

1) by the governor (i.e. on reduction speed);

2) by the top loop trip mechanism (i.e. a film breakage in the projector);

3) by the action of the change-over solenoid.

The picture and sound change-over operate as follows :

From the Projector No. 2 to the Projector No. 1 :

With the Projector No. 2 running, the pushing of the foot switch FS1 causes the following sequences of operations :

1) Energizes the rotary solenoid RS.1 opening the light path on the Projector No. 1.

2) Energizes the solenoid R.12 tripping the latch of the Projector No.2 shutter, cutting off the light beam of the projector No. 2

3) The shutter of the Projector No. 2 in the closing travel opens permanently the microswitch I.26, de-energizing the sound relais in the change-over box and performing the sound change-over.

From the Projector No. 1 to the Projector No. 2 :

With the Projector No. 1 running, the pushing of the foot switch FS.2 causes the following sequence of operations :

1) Energizes the rotary solenoid RS.2 opening the light path on Projector No. 2;

2) Energizes the solenoid R.11 tripping the latch on the shutter of the Projector No. 1, cutting off the light beam on the Projector No. 1.

3) The shutter of the Projector No. 2, in the opening travel closes permanently the microswitch I.26 energizing the sound relais in the change-over box and performing the sound change-over.

TILTING THE PROJECTOR

The tilting device is sketched on the Drawing No. 5232 and it is mounted in the back of the projector column.

For low tilting degrees (7° max.), insert the spacing plate 10C-1127b in between the socket bracket 10C-1127a and the socket body. For high tilting degrees, the aforementioned spacing plate is not to be used.

Loose the two screws (Allen cap, 10mm dia.) which fasten the column to the socket; the column can now rotate on the central 30mm bolts. The right tilting can easily be obtained by means of the two nuts 10C-1128a by which is possible to fasten the projector in the wanted tilting. When the right tilting is obtained, the column can be best fastened to the socket by means of screws mounted on the base frame.

Note No. 1

When the rotary switches I_{13} and I_{14} inside of the column are set to AUT and the main switch I_1 is closed, an external starter has to be used. When the rotary switches I_{13} and I_{14} inside of the column are set on MAN, the projector is started through the main switch I_1.

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Note No.2

The safety shutter mounted behind the rotary shutter and used as picture change-over is of polished alluminium.
It is mandatory to keep such alluminium disk very clean to avoid excessive heating and also the melting of the disk when stricken by the Arc lamp light flow.
It is also strongly recommended, during the change-over operation, to reduce at the minimum the time such disk is stricken by the full arc lamp light.

Note No. 3

When replacing gears and particularly the Intermittent star it may be necessary to adjust slightly the shafts. The shafts dia. is generally grinded one mil. more than the corresponding hole.

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Disegnato da

Controllato da

Data 13/4/60

Modifiche

CINEMECCANICA MILANO

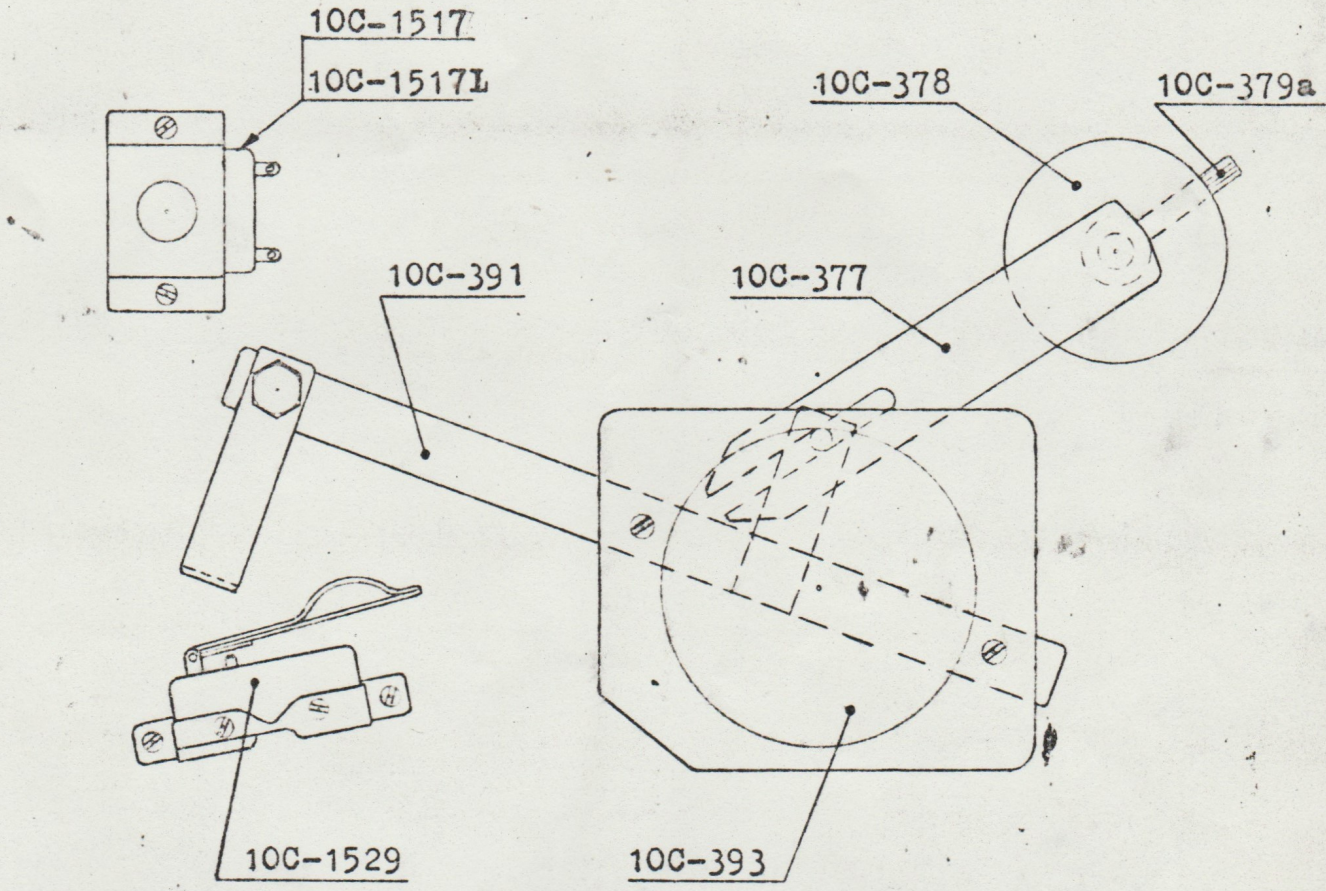
VICTORIA X - 70/35

Type America 6 1/4"

Change-over spare parts lists

Tabella

5230



10C-377 Dowser linkage

10C-378 Rotary solenoid

10C-379a Hand lever

10C-391 Dowser main lever

10C-393 Dowser plate

10C-1517 Unlatching solenoid coil (0,3 Ω)

10C-1517L Unlatching solenoid coil (630 Ω for Ledex)

10C-1529 Sound change-over microswitch

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Data 6/5/60
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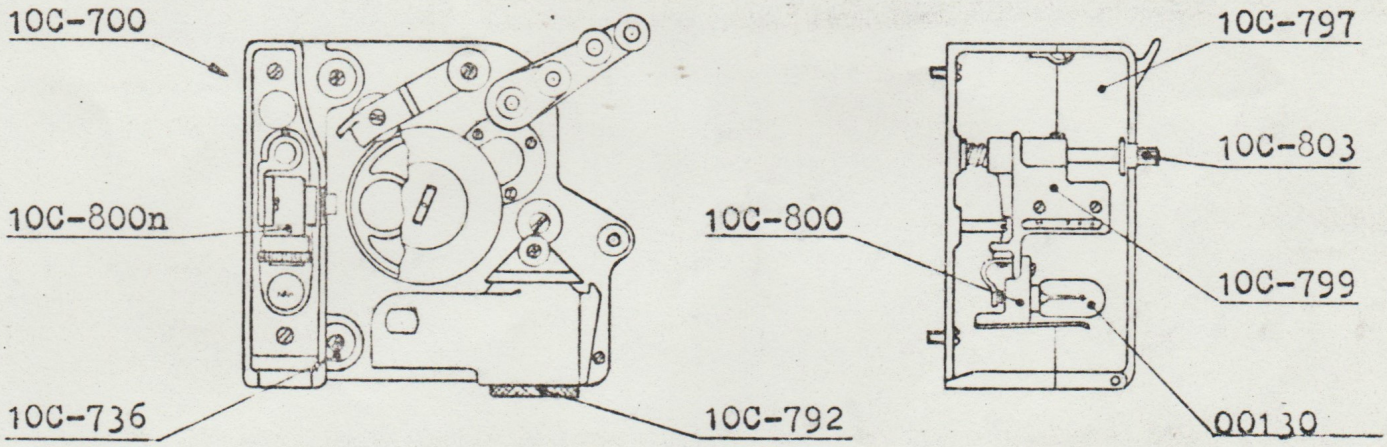


10C-700	Complete optical sound head
10C-736	Anti vibration mounting for scanning unit
10C-792	Oil damper
10C-797	Exciter lamphouse cover
10C-799	Objective lens mount
10C-800	Exciter lamp holder and support bracket assembly
00130	Exciter Lamp
10C-800n	Objective lens
10C-803	Tracking adjustment knob

Disegnato da

Controllato da

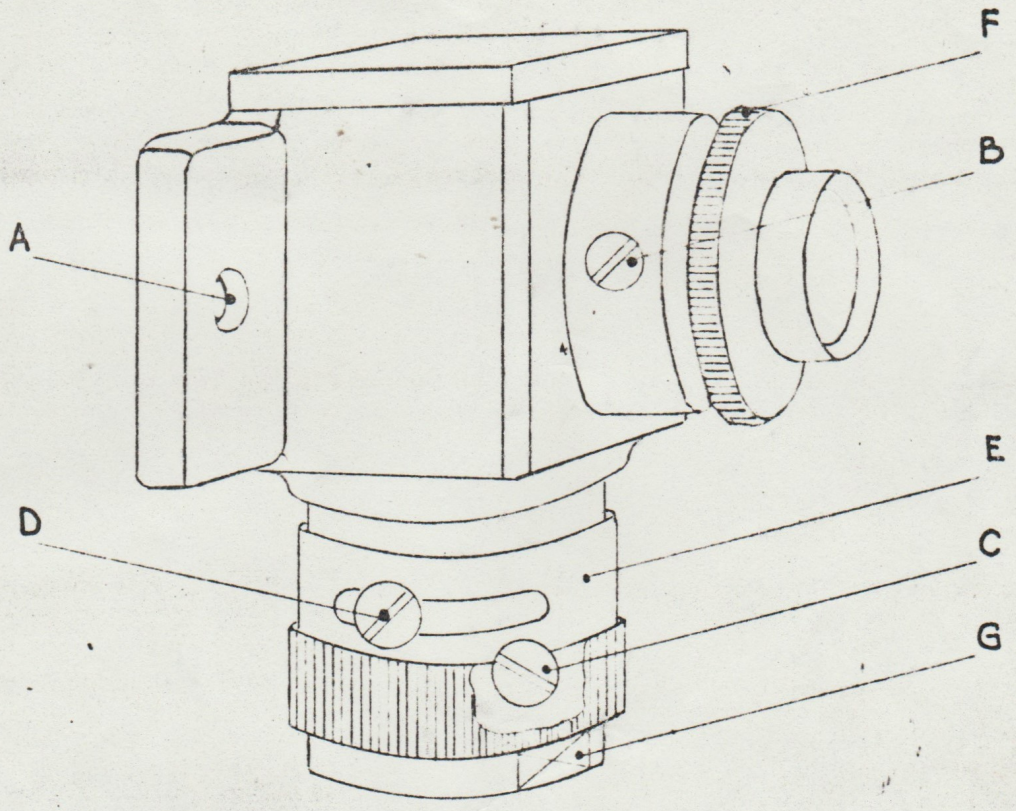
Data 5/7/60

Modifiche

CINEMECCANICA MILANO

PRISM OBJECTIVE LENS
Adjusting instructions
VICTORIA X 70/35 · 6 1/4" PROJECTOR

Tabella 5250



1) Mounting the lens assembly. Turn the tracking adjustment knob counterclockwise to free the lens slide mount from the bracket. Mount the objective lens on the removed slide with the two screws A and, before tightening the screws, take care that the objective lens supporting lug stand against the slide back guide.
2) Insert the slide and turn the tracking adjustment to set the objective lens roughly in the right position. Such positioning can be easier if the exciter lamp is on and looking at the spot on the drum.
3) Loose the screw B and C. If the screw head C does not face the corresponding hole on the sleeve E, loose the screw D and turn the sleeve E till the screw head C is accessible.
   Now the knurled ring F (focus control) and the bottom ring G (azimuth control) are free and can be set for the best high frequency response. Thread a 9000 cycles optical film loop on the optical head and branch some meter at the output of the optical preamplifier.
   Set the focus control F for the maximum output. With a wrench turn the azimuth control G till obtaining the maximum output. As known, the azimuth control presents three maximum output positions, and the central setting is the right one.
   Reset the focus and azimuth control till the true output maximum is reached and fasten the screws B and C.
4) The rotation of the sleeve E controls the slit wideness. Thread a buzz track film on the optical head, set the sleeve E for the right slit wideness and the tracking adjustment knob for the right slit position. Fasten the screw D.

CINEMECCANICA MILANO

VICTORIA X PROJECTOR

INTERMITTENT MOVEMENT ASSEMBLY REPLACEMENT

Tabella 5290

Remove the intermittent sprocket and the central disk of the mechanism enclosure plate (non operator side), through the round opening the bolt fastening the intermittent assembly is now accessible and can be unscrewed and removed, and the assembly disengaged through the opening.
The new intermittent assembly fits the mechanism without any adjustement and can be remounted very easily, the only care being the one of reestablishing the correct shutter phasing.
To reach the approximately correct shutter phasing, turn the shutter in the operating direction till the barrel light cutting rim is half way on the aperture and insert the intermittent assembly so phased that turning the drive shaft in the operating direction, the intermittent sprocket just starts its travel.
Such relative positioning of the shutter and intermittent assembly assure a rough phasing and the phase setting will be reached with the usual procedure with proper test film loop and shifting the shutter body on its driving support.
The shutter is made accessible removing Cinemeccanica escutcheon or the sight window and the screws bolting the shutter body to the support are accessible on the bottom of the barrel.

CINEMECCANICA MILANO

VICTORIA X PROJECTOR

INTERMITTENT MOVEMENT ADJUSTEMENTS

Tabella 5291

If the intermittent movement presents a play in the sprocket rest positions after having removed the intermittent assembly from the mechanisms as explained on "Intermittent movement replacement", remove the sprocket and the cap from the sprocket shaft bushing. The cap must be unscrewed with a proper tool.
From the sprocket side, in the recess, the excentric bushing of the sprocket shaft is now accessible and can be turned with a proper tool.
The turning of the bushing will deplace the sprocket shaft and the aforementioned play can in such a way be nullified.
The right positioning of the sprocket shaft will be reached when the play just disappear; be very careful that the locking ring does not force against the maltese cross, such forcing will cause in a very short time the complete wearing of the intermittent movement.

If the intermittent sprocket presents a play in the running conditions, the reason can probably be some play of the roller on the maltese cross slits.
If such play remains approximately unchanged for the four cross slits the cause of the play is probably the roller which must be replaced.
The replacement of the roller can be performed removing from the mechanism the complete intermittent movement as explained on "Intermittent movement replacement" and removing the cover plate on the opposite side of the sprocket.
The spare rollers are delivered each with the proper pin, to be sure that no play exist between the pin and the roller, and the complete unit roller and pin must be replaced.
Due to the possible wear of the cross slits, the replacement rollers are delivered with a slightly overdimentioned o.d..
Some adjustement of the roller o.d. will be necessary till obtaining the free entrance of the roller on the cross slits.
The pin has an excentric bolting collar and the exact position of the roller in respect of the cross slits is reached turning in the proper position the pin.
The right pin position must be carefully controlled turning the drive shaft till the entrance of the pin is free and soft in each one of the four slits.
The remounting of the intermittent movement can be very easily made as already explained on "Intermittent movement assembly replacement".
The adjustment of the intermittent movement assembly can only be performed with the proper tooling and by skilled technician.
If such is not the case, we recommend the intermittent assembly replacement, keeping however in mind that it is very uncommon that the intermittent movement could be responsible of film jump at least in the first years of the projector operation.
Before getting the conclusion that the intermittent movement is responsible of some defective operation of the projector, we suggest to carefully look after all other reasons that can cause projection unsteadiness like: unproper loops, wrong gate pressure, defective or not clean film runner, very green print etc.

How to remove the main motor

- Remove with a proper punch the pin and take away the bakelite inching knob.
- Turn the lock washer, now accessible around the shaft, to make free the aluminium knurled disk engraved "30 - 24".
- Remove the disk.
- Remove the two bolts of the ball race bushing and remove the complete bushing.
- Unscrew the bottom screw bolting the motor to the mechanism; after having removed the bottom screw, hold the motor body at the non operating side of the mechanism and unscrew the top bolt bolting the motor to the mechanism.
- During the unscrewing of the top screw, and till the motor is completely removed, it will be necessary to hold the motor to avoid damnages to the gears.
- After the bottom and top screws removal, displace the motor now completely free towards the front of the mechanism to disengage the gears and remove the motor.

How to mount the main motor

- Remove from the unmounted motor the inching knob, the knurled aluminium disk and the ball race bushing.
- Introduce the motor in the mechanism from the non operating side, having care of keeping the motor displaced towards the front of the mechanism for not damnaging the gears.
- Insert the top bolt bolting the motor to the mechanism, but not tighten it.
- Having care of setting properly the lock washer, mount the aluminium knurled knob and, using such a knob, turn the motor shaft till a regular engagement of the gears is obtained.
- Insert the bottom bolt and tighten the top and bottom bolts having care of setting the motor in a right position to obtain the proper gear engagement, not too tight and not too loose.
- Remove the aluminium disk, and insert the ball race bushing.
- The ball race bushing is to be mounted with the oil drain outlet of the bushing downwards, and properly tightened keeping the motor shaft rotation completely free.
- Remount the aluminium knurled disk and the inching knob.

If the mounting operation has been properly performed, the rotation of the motor has to be completely free without an excessive play of the meshed gears.

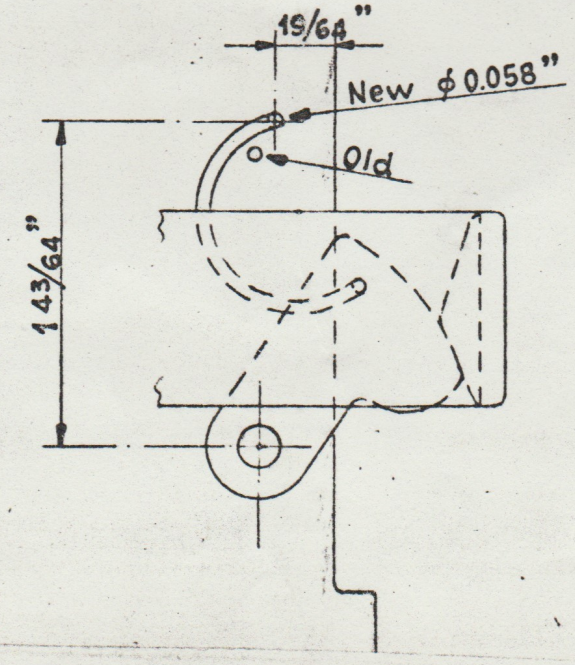
CINE-TECNICA MILANO

VICTORIA X PROJECTOR

GATE LEVER SPRING REPLACEMENT

Tabella 5289

Unscrew the three screws bolting the shutter cover to the mechanism (operator side). The shutter cover can now be very easily removed having care of properly disengaging the change over lever from the dowser. In the mechanisms fitted with the Ledex solenoid for the remote change over operation, before removing the shutter cover, disconnect the two Ledex wires from the terminal board.
Disconnect the watercooling tubing at the bottom of the mechanism and remove the cooling air duct;
Unscrew the two screws bolting the gate assembly to the mechanism (operator side). The gate assembly can now be disengaged from the positioning pins and removed.
From the side facing the mechanism of the gate assembly, the torsion spring will now be partially accessible. Remove the old spring and replace the new one.
Take care that the spring insertion pins are not of the same lenght and that the short one must be inserted in the came lever.
For replacing the spring it is not necessary to remove any part of the gate assembly, with a screw driver it is easy to remove the old spring, insert the short pin terminal of the spring in the came lever, push with a finger the spring till the longer terminal is inserted in the hole of the gate assembly.
In the projector having serial number lower than 301, it is suggested to drill a new hole on the gate assembly for reaching a better operating condition for the spring. The position of the new hole is not critical and with the help of the enclosed drawing the position of the new hole can be very easily established with reference to the old one.
Remount the gate assembly, the positioning pins will assure the exact positioning on the mechanism.
Remount the shutter cover having care of properly engaging the change over lever. On the projectors fitted with Ledex change over solenoid reconnect the Ledex wire to the terminal board.
Rejoint the watercooling tubing and remount the air cooling duct.



Remove the intermittent sprocket and the central disk of the mechanism enclosure plate (non operator side), through the round opening the bolt fastening the intermittent assembly is now accessible and can be unscrewed and removed, and the assembly disengaged through the opening.

The new intermittent assembly fits the mechanism without any adjustement and can be remounted very easily, the only care being the one of reestablishing the correct shutter phasing.

To reach the approximately correct shutter phasing, turn the shutter in the operating direction till the barrel light cutting rim is half way on the aperture and insert the intermittent assembly so phased that turning the drive shaft in the operating direction, the intermittent sprocket just starts its travel.

Such relative positioning of the shutter and intermittent assembly assure a rough phasing and the phase setting will be reached with the usual procedure with proper test film loop and shifting the shutter body on its driving support.

The shutter is made accessible removing Cinemeccanica escutcheon or the sight window and the screws bolting the shutter body to the support are accessible on the bottom of the barrel.

If the intermittent movement presents a play in the sprocket rest positions after having removed the intermittent assembly from the mechanisms as explained on "Intermittent movement replacement", remove the sprocket and the cap from the sprocket shaft bushing. The cap must be unscrewed with a proper tool.
From the sprocket side, in the recess, the excentric bushing of the sprocket shaft is now accessible and can be turned with a proper tool.
The turning of the bushing will deplace the sprocket shaft and the aforementioned play can in such a way be nullified.
The right positioning of the sprocket shaft will be reached when the play just disappear; be very careful that the locking ring does not force against the maltese cross, such forcing will cause in a very short time the complete wearing of the intermittent movement.

If the intermittent sprocket presents a play in the running conditions, the reason can probably be some play of the roller on the maltese cross slits.
If such play remains approximately unchanged for the four cross slits the cause of the play is probably the roller which must be replaced.
The replacement of the roller can be performed removing from the mechanism the complete intermittent movement as explained on "Intermittent movement replacement" and removing the cover plate on the opposite side of the sprocket.
The spare rollers are delivered each with the proper pin, to be sure that no play exist between the pin and the roller, and the complete unit roller and pin must be replaced.
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The pin has an excentric bolting collar and the exact position of the roller in respect of the cross slits is reached turning in the proper position the pin.
The right pin position must be carefully controlled turning the drive shaft till the entrance of the pin is free and soft in each one of the four slits.
The remounting of the intermittent movement can be very easily made as already explained on "Intermittent movement assembly replacement".
The adjustment of the intermittent movement assembly can only be performed with the proper tooling and by skilled technician.
If such is not the case, we recommend the intermittent assembly replacement, keeping however in mind that it is very uncommon that the intermittent movement could be responsible of film jump at least in the first years of the projector operation.
Before getting the conclusion that the intermittent movement is responsible of some defective operation of the projector, we suggest to carefully look after all other reasons that can [illegible] like: unproper loops, wrong gate

VICTORIA X 70/35

Spare Parts Catalogue

VICTORIA X 70/35

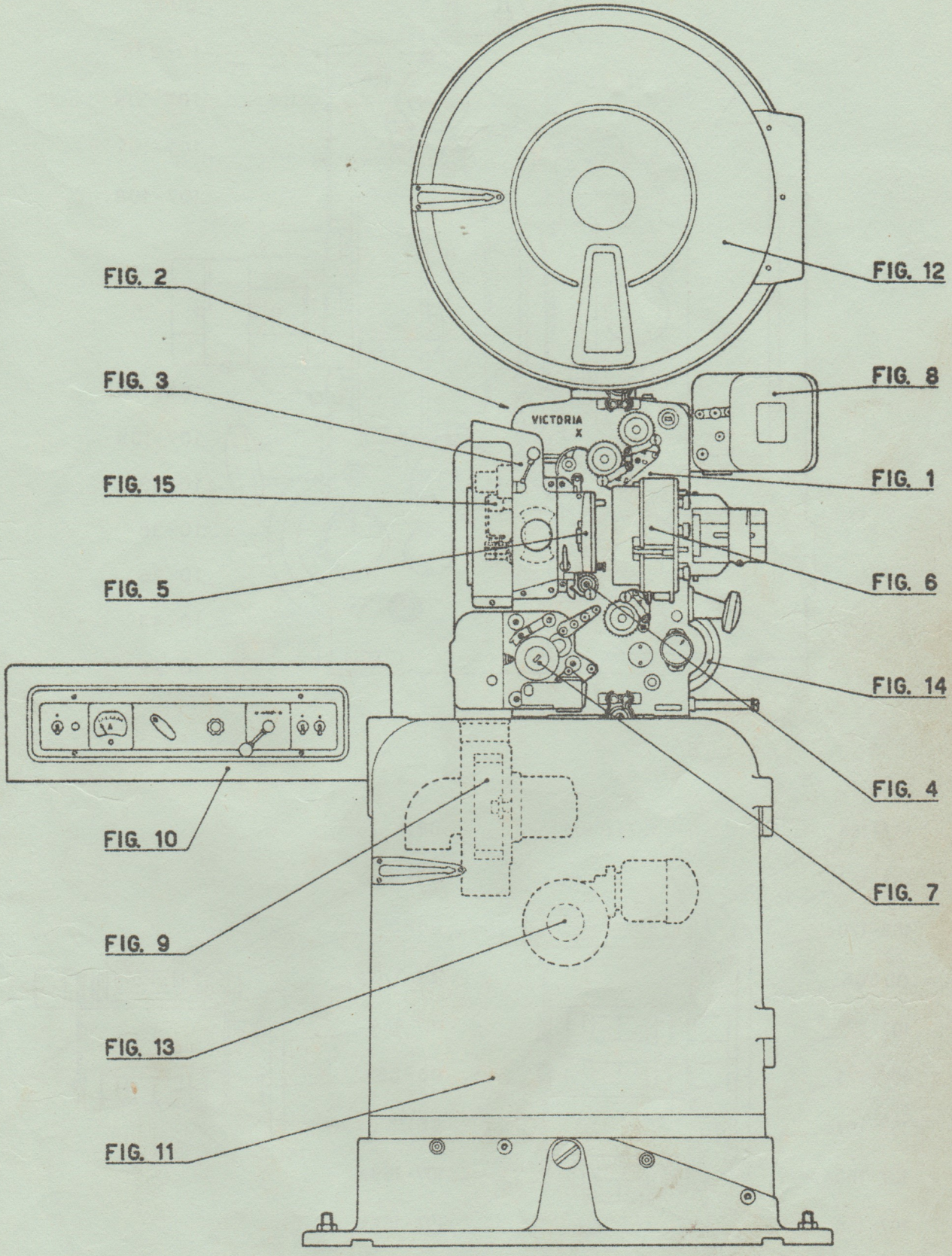
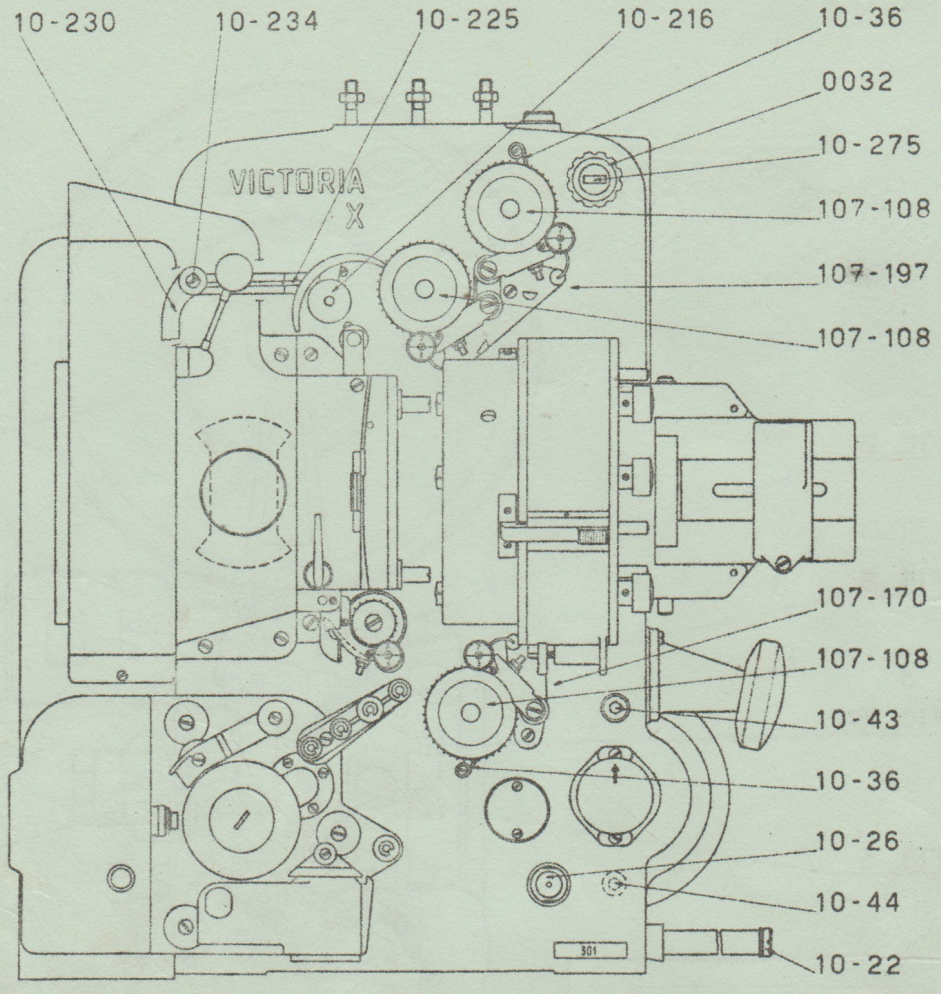


FIG. 2
FIG. 3
FIG. 15
FIG. 5
FIG. 10
FIG. 9
FIG. 13
FIG. 11
FIG. 12
FIG. 8
FIG. 1
FIG. 6
FIG. 14
FIG. 4
FIG. 7
VICTORIA
X


10-230
10-234
10-225
10-216
10-36
0032
10-275
107-108
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107-170
107-108
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10-36
10-26
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10-22
VICTORIA
X

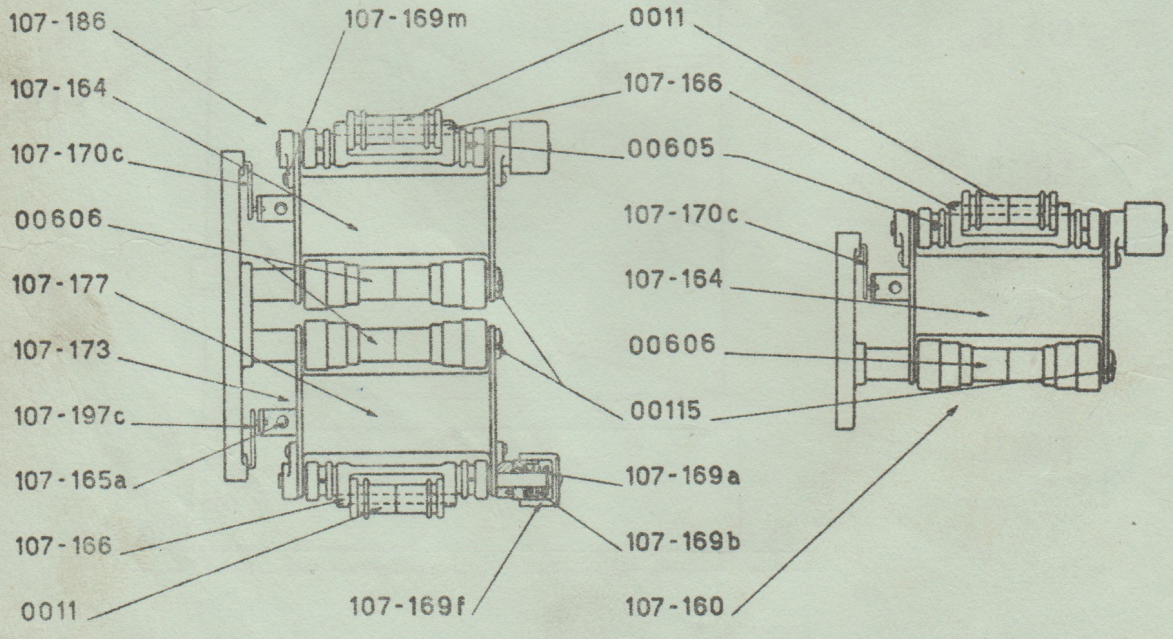

107-186
107-164
107-170c
00606
107-177
107-173
107-197c
107-165a
107-166
0011
107-169m
0011
107-166
00605
107-170c
107-164
00606
00115
107-169a
107-169b
107-169f
107-160

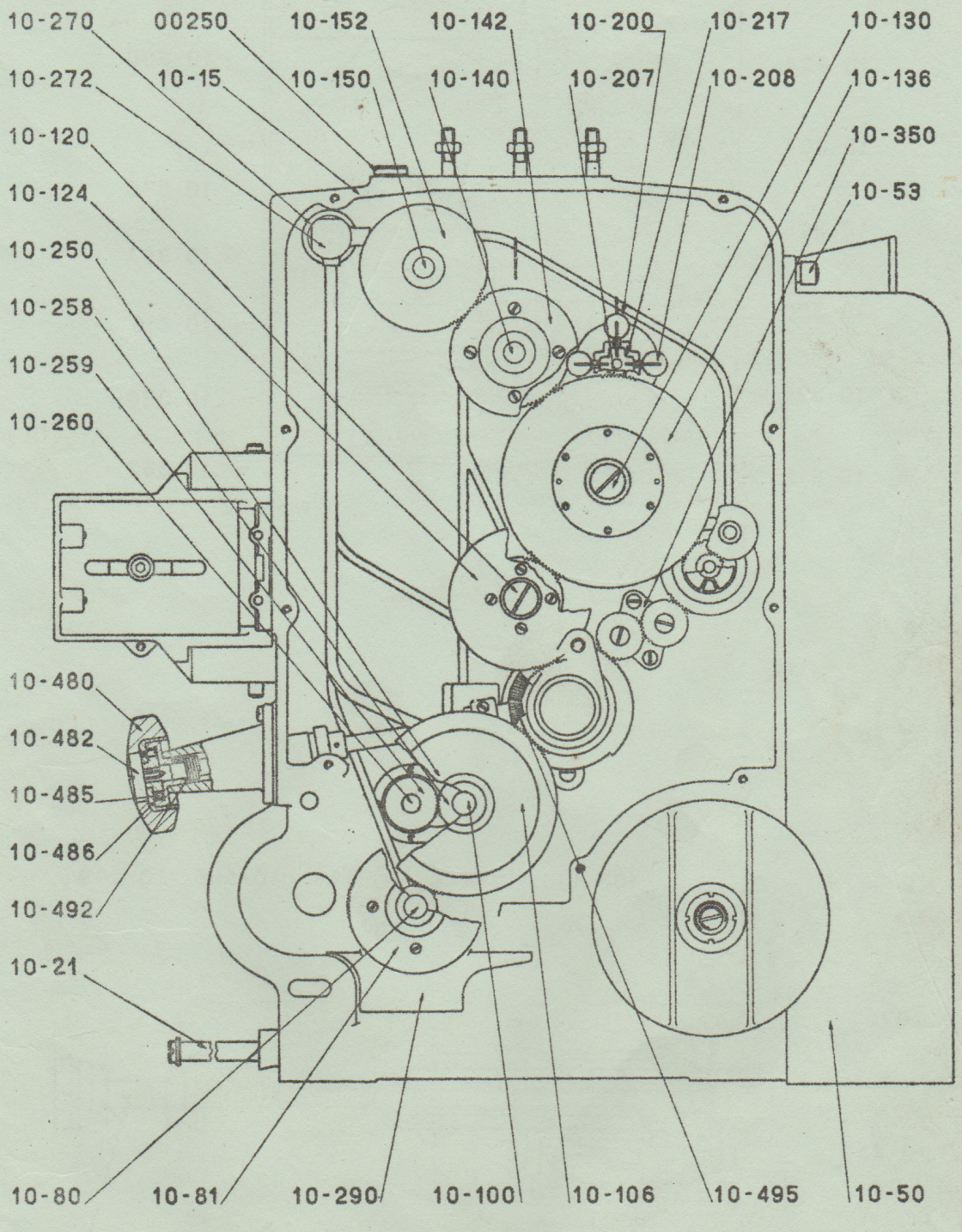
FIG. 1

FIG. 1 - VICTORIA X 70/35 MECHANISM, operating side

0011	- Grooved roller, 15mm. O.D. for 35mm
0032	- Upper oil sight window with bezel and gasket
00115	- Roller arm locking screw
00605	- Grooved roller, 14,5mm. O.D. for 70mm
00606	- Roller 19mm. outside dia.
10-22	- Oil drain plug with gasket
10-26	- Lower sight window with Gasket
10-36	- Stripper and post (Top and bottom sprockets)
10-43	- Upper fixing screw for motor
10-44	- Lower fixing screw for motor
107-108	- Sprockets, 40-32 teeth
107-160	- Bottom sprocket roller arm assembly
107-164	- Top and bottom sprocket roller arm only
107-165a	- Sprocket roller arm setting screw
107-166	- Spindle for 0011 grooved roller
107-169a	- Sprocket Roller arm knob
107-169b	- Sprocket Roller arm knob spring
107-169f	- Sprocket Roller arm knob cover indicator
107-169m	- Sprocket arm bush retaining screw
107-170	- Bottom sprocket roller arm assembly with base
107-170c	- Top and bottom sprocket roller arm pressure spring
107-173	- Intermediate sprocket roller arm assembly
107-177	- Intermediate sprocket roller arm only
107-186	- Top sprocket roller arm assembly
107-197	- Intermediate and top sprocket roller arm assembly with base
107-197c	- Intermediate sprocket roller arm pressure spring
10-216	- Disc with shaft (Top loop trip)
10-225	- Mascarini safety lever with film trip plate
10-230	- Latch for light cut-off
10-234	- Spindle for 10-230
10-275	- Filter magnet

FIG. 2 - VICTORIA X 70/35 MECHANISM INTERIOR

00250	- Oil filler plug
10-15	- Projector cover Gasket (non operating side)
10-21	- Oil draining tube with gasket
10-50	- Cover (non-op. side)
10-53	- Rear cover securing screw
10-80	- Spindle for motor reduction gear
10-81	- Motor reduction gear (24-60 and 75 teeth) mains frequency to be specified
10-100	- Bottom sprocket shaft
10-106	- Bottom sprocket Gear (104 teeth)
10-120	- Spindle and screw for double intermediate gear (10-124)
10-124	- Intermediate reduction gear (45 and 78 teeth)
10-130	- Spindle and screw for intermediate gear (10-136)
10-136	- Intermediate gear (120 teeth)
10-140	- Intermediate sprocket shaft
10-142	- Double gear driving intermediate sprocket (60 and 70 teeth)
10-150	- Top sprocket shaft
10-152	- Top sprocket gear (70 teeth)
10-200	- Governor assembly
10-207	- 13 teeth governor pinion
10-208	- Governor ball with lever
10-217	- Governor spring
10-250	- Oil pump assembly
10-258	- Drive gear for oil pump (24 teeth)
10-259	- Driven gear for oil pump (24 teeth)
10-260	- Spindle for drive gear (10-259)
10-270	- Oil filter body
10-272	- Oil filter
10-290	- Oil bath for motor reduction gear (10-81)
10-350	- Bracket with intermediate masking gears (28 teeth)
10-480	- Masking (Framing) knob
10-482	- Screw for masking knob (10-480)
10-485	- Friction rollers for masking assembly
10-486	- Spring for friction rollers
10-492	- Spring for masking assembly
10-495	- Masking pinion (23 teeth)


10-270
00250
10-152
10-142
10-200
10-217
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10-208
10-136
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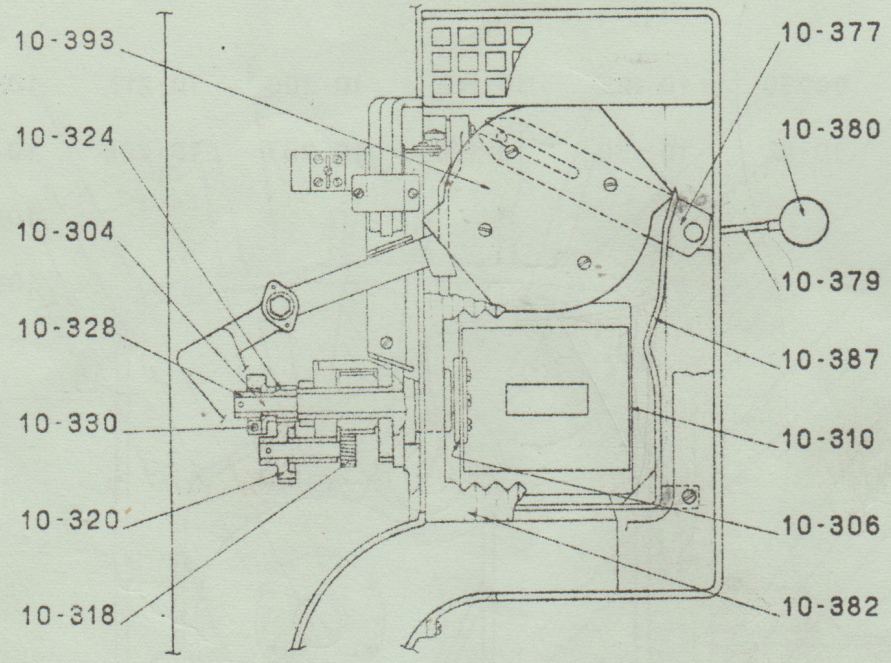
10-53
10-250
10-258
10-259
10-260
10-480
10-482
10-485
10-486
10-492
10-21
10-80
10-81
10-290
10-100
10-106
10-495
10-50

FIG. 2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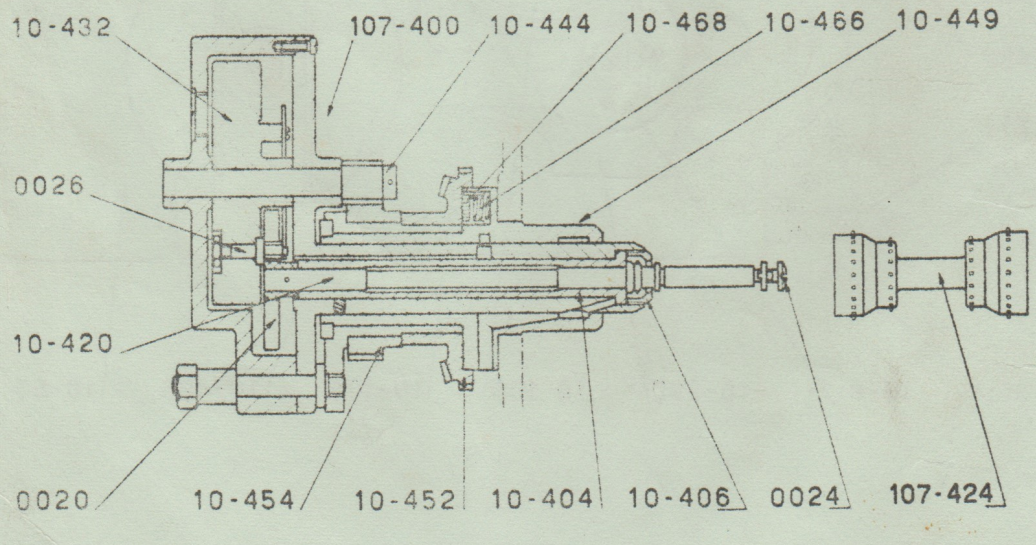
10-306
10-382

FIG. 3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10-444
10-468
10-466
10-449
0026
10-420
0020
10-454
10-452
10-404
10-406
0024
107-424

FIG. 4

FIG. 3 - DRUM SHUTTER AND SAFETY SHUTTER

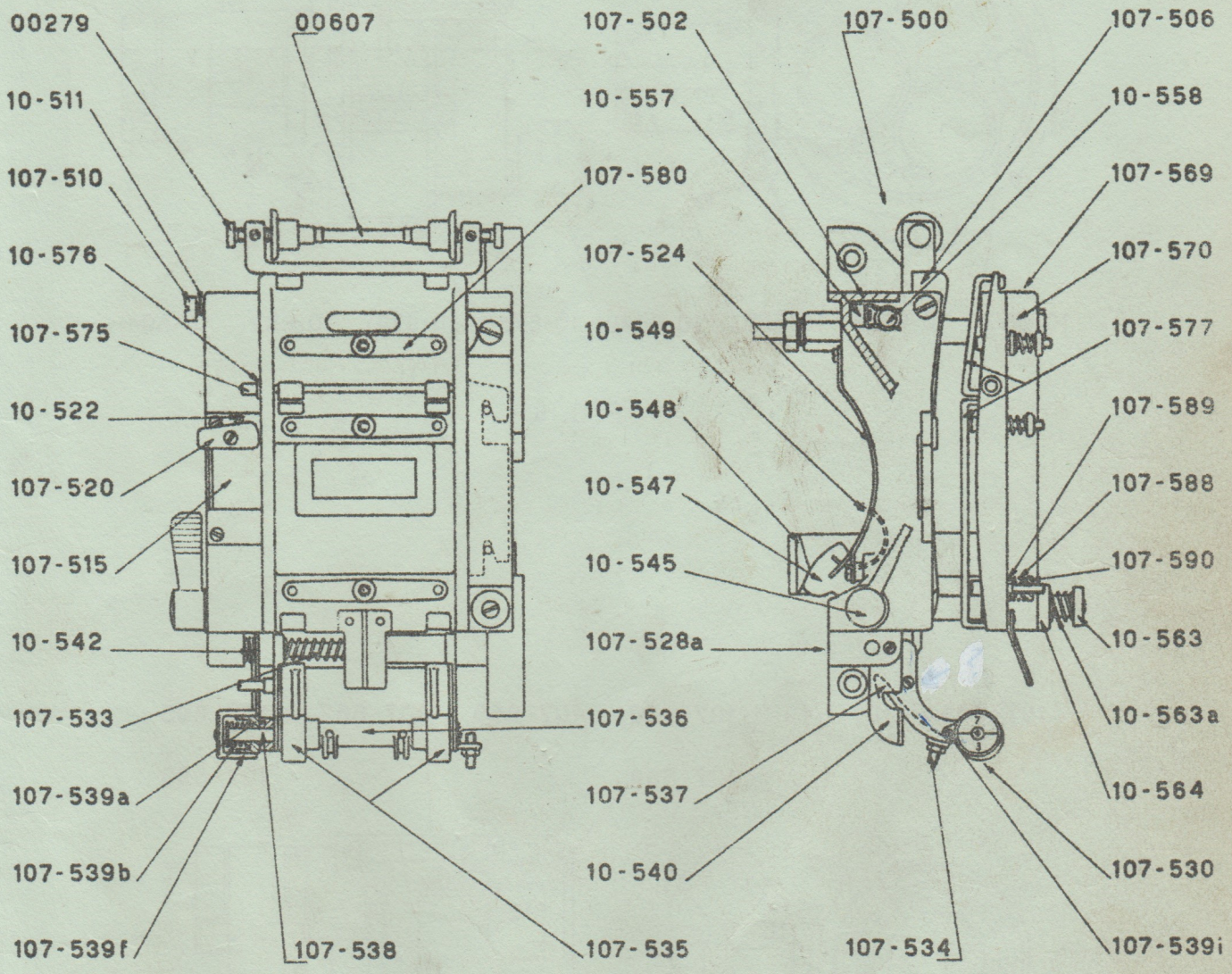
10-304 - Shaft for drum shutter
10-306 - Flange for drum shutter
10-310 - Drum shutter
10-318 - 15 teeth idler gear
10-320 - 30 teeth idler gear
10-324 - 15 teeth shutter shaft pinion with Torque collar
10-328 - Torque assembly for drum shutter
10-330 - Spring for Torque drive
10-377 - Operating arm and spindle for light cut-off disc.
10-379 - Light cut-off disc lever
10-380 - Knob for light cut-off disc lever
10-382 - Cooling fins
10-387 - Latch for light cu-off disc
10-393 - Light cut-off disc with arm and counterweight

FIG. 4 - VICTORIA X PROJECTOR 70/35 Intermittent Unit

0020 - Maltese cross with cam pin and roller
0024 - Screw and washer securing intermittent sprocket
0026 - Cam pin and roller
107-400 - Intermittent unit complete with sprocket
10-404 - Eccentric bush
10-406 - Oil seal
10-420 - Intermittent sprocket shaft
107-424 - Intermittent sprocket, 20 - 16 teeth
10-432 - Flywheel with cam, shaft and cam gear
10-444 - 13 teeth cam gear
10-449 - Intermittent unit bearing housing
10-452 - Masking (Framing) gear (76 and 80 teeth)
10-454 - Intermittent unit driving gear (52 teeth)
10-466 - Clutch spring for masking control
10-468 - Clutch disc for masking control

FIG. 5 - GATE BRACKET AND GATE FRAME

00279	-	Adjusting screw for spring guide roller
00607	-	Spring guide roller assembly
107-500	-	Gate bracket assembly for 70 mm
107-502	-	Gate bracket body for 70mm
107-506	-	Gate plate with guide roller for 70mm
107-506a	-	Gate plate with velvet for 70mm
107-510	-	Screw locking gate plate
10-511	-	Spring for 107-510
107-515	-	70mm standard aperture plate (47mmx20mm) from n. 301
107-515a	-	70mm undersized aperture plate (43mmx16mm) from n.301
107-520	-	Latch for aperture plate
10-522	-	Spring for aperture plate latch
107-524	-	Cooling fins
107-528a	-	Roller arm assembly for intermittent sprocket with base
107-530	-	Roller arm assembly for intermittent sprocket only
107-533	-	Spring for roller arm
107-534	-	Intermittent roller arm setting screw
107-535	-	Left and right intermittent sprocket roller arm pads
107-536	-	Intermittent sprocket roller
107-537	-	Intermittent sprocket roller arm pressure spring
107-538	-	Spacer and roller spindle
107-539a	-	Intermittent sprocket arm knob
107-539b	-	Intermittent sprocket arm knob spring
107-539f	-	Intermittent sprocket arm knob cover indicator
107-539i	-	Intermittent sprocket arm bush retaining screw
10-540	-	Lever for roller assembly
10-542	-	Spring for 10-540
10-545	-	Gate opening lever
10-547	-	Gate latch lever
10-548	-	Gate latch arm
10-549	-	Gate lever spring
10-557	-	Threading lampholder assembly
10-558	-	Threading lamp
10-563	-	Gate frame support spring retaining knob
10-563a	-	Gate frame support spring
10-564	-	Gate frame support
107-569	-	70mm gate frame assembly
107-570	-	70mm gate frame
107-575	-	Upper pressure plates retaining screws
10-576	-	Spring washer for 107-575
107-577	-	70mm pair of pressure plates (4 pieces)
107-580	-	Pressure pads
107-588	-	Pressure pads spring control
107-589	-	Pressure pads spring bush
107-590	-	Pressure pads spring knob
107-515f	-	70mm standard fixed aperture plate (47mmx20mm) till n.300
107-515g	-	70mm undersized fixed aperture plate (43mmx16mm) till n.300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107-539f
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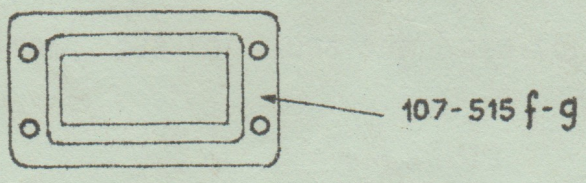
107-530
107-534
107-539i

FIG. 5


107-515 f-g

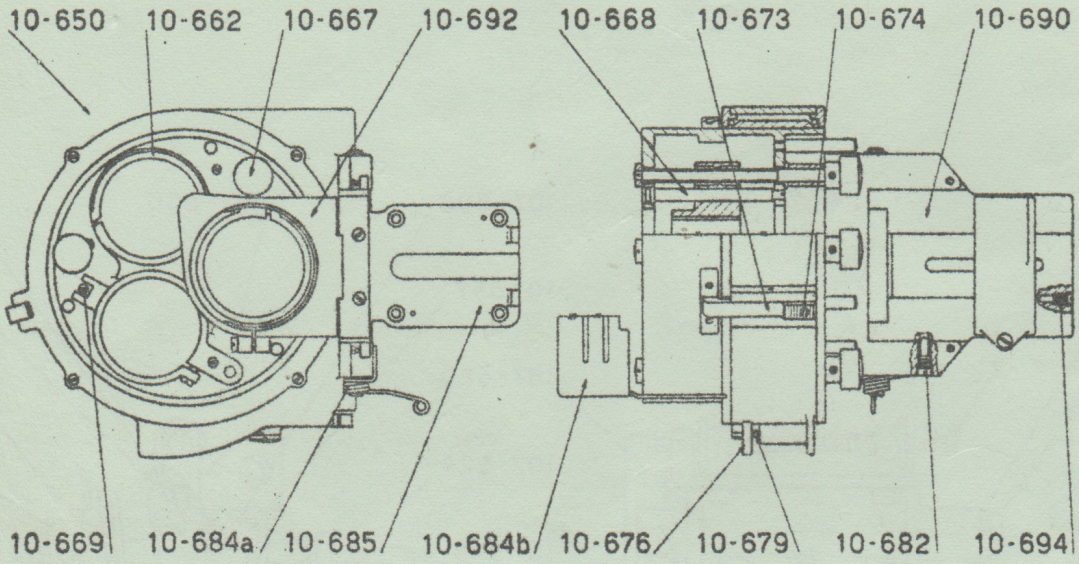


FIG. 6

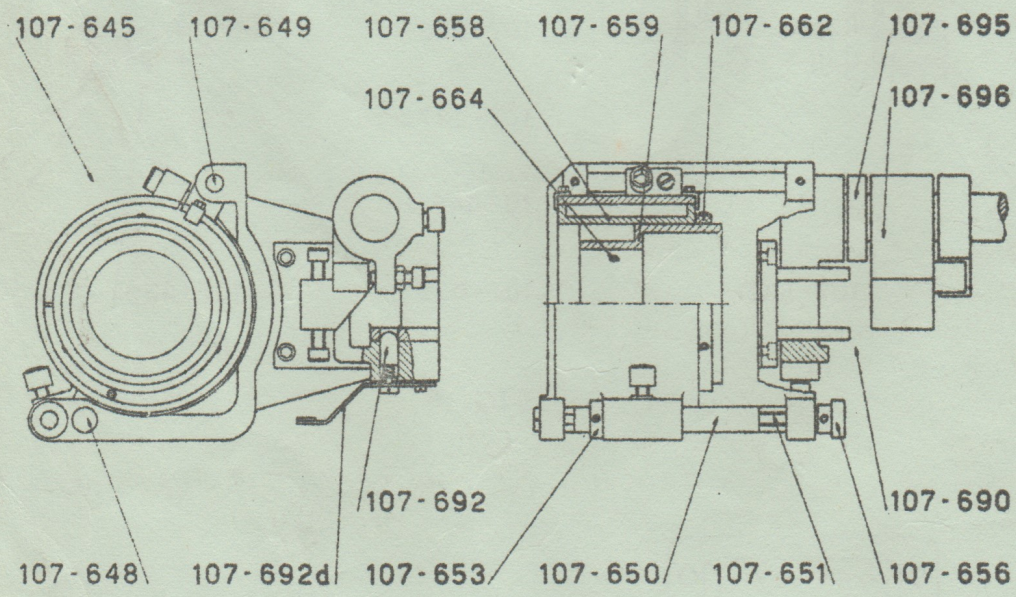


FIG. 6 bis

FIG. 6 - LENS TURRET

10-650	- Three Lens turret assembly
10-662	- Holding lens sleeve with focusing screw (62,5 mm)
10-662 s	- Holding lens sleeve with focusing screw (70,6 mm)
10-667	- Focusing knob
10-668	- Focusing knob spindle
10-669	- Stop for eccentric mount
10-673	- Spring latch
10-674	- Spring for 10-673
10-676	- Lever locating turret
10-679	- Spring lever (for 10-676)
10-682	- Spring plunger (for 10-676)
10-684a	- Spring for pivoting turret bracket
10-684b	- Light shield
10-685	- Turret mounting bracket
10-690	- Bracket for anamorphic lens-holder
10-692	- Anamorphic lens-holder
10-694	- Spring plunger for 10-692

FIG. 6/bis - SINGLE LENS-HOLDER AND ANAMORPHIC LENS BRACKET

107-645	- 5" Single lens-holder assembly
107-648	- Lens sleeve guide
107-649	- Lens sleeve guide shaft
107-650	- Focusing screw bush
107-651	- Focusing screw
107-653	- Sleeve stop ring
107-656	- Focusing knob
107-658	- 5" to 4" eccentric adaptor
107-659	- 4" to 70,6mm adaptor
107-660	- 4" to 62,5mm adaptor
107-661	- 4" to 52,5mm adaptor
107-662	- Adaptor stop ring with screws
107-664	- Lens fixing screw
107-690	- Anamorphic lens bracket assembly
107-692	- Spring plunger
107-692d	- Spring plunger lever
107-695	- Anamorphic lens stop ring
107-696	- Anamorphic lens-holder only (anamorphic lens type to be specified)

FIG. 7 - OPTICAL SOUND HEAD

up-to-date 12/12/60

008 - Filter (Dash pot) roller, 15mm o.d.
0035 - Reproducer drum with shaft and cover screw
0040/3 - Exciter lamp holder and support bracket assembly
0040/4 - Insulating bush and washer
0040/10 - Exciter lamp locating spring with stud
0092 - p.E.Cell connector
00261 - p.E.Cell housing
*00337 - Plain roller (15mm dia.)
00338 - Circlips (lock washers) securing roller (6mm i.d.)
00339 - Circlips (lock washers) securing roller (8mm i.d.)
*00603 - Flanged roller (18mm o.d.)
00606 - Plain roller (19mm o.d.)
10-707 - Cover screw (for P.E.Cell)
10-708 - Ball race
10-727 - Anti-static contact brush and spring
10-736 - Anti vibration mounting for scanning unit
10-743 - Bracket for P.E.C. housing
0080 - Exciter lamp
0081 - Objective lens
10-756 - Lay-on pressure roller arm
10-750a - Lay-on pressure roller arm and bracket assembly
10-752 - Lay-on pressure roller spring housing
10-754 - Spring for lay-on pressure roller
10-757 - Spindle and screw for lay-on pressure roller
10-760 - Lay-on roller
10-769 - Roller sprindle (6mm. dia.)
107-770 - Roller bracket
107-770a - Roller spindle (8mm dia.)
107-770d - Roller bracket assembly
10-792 - Oil damper
10-797 - Exciter lamphouse cover
10-798 - Bracket for exciter lamp-holder and lens
10-799 - Objective lens mount
10-803 - Tracking adjustment knob
107-700 - Complete Optical sound head.

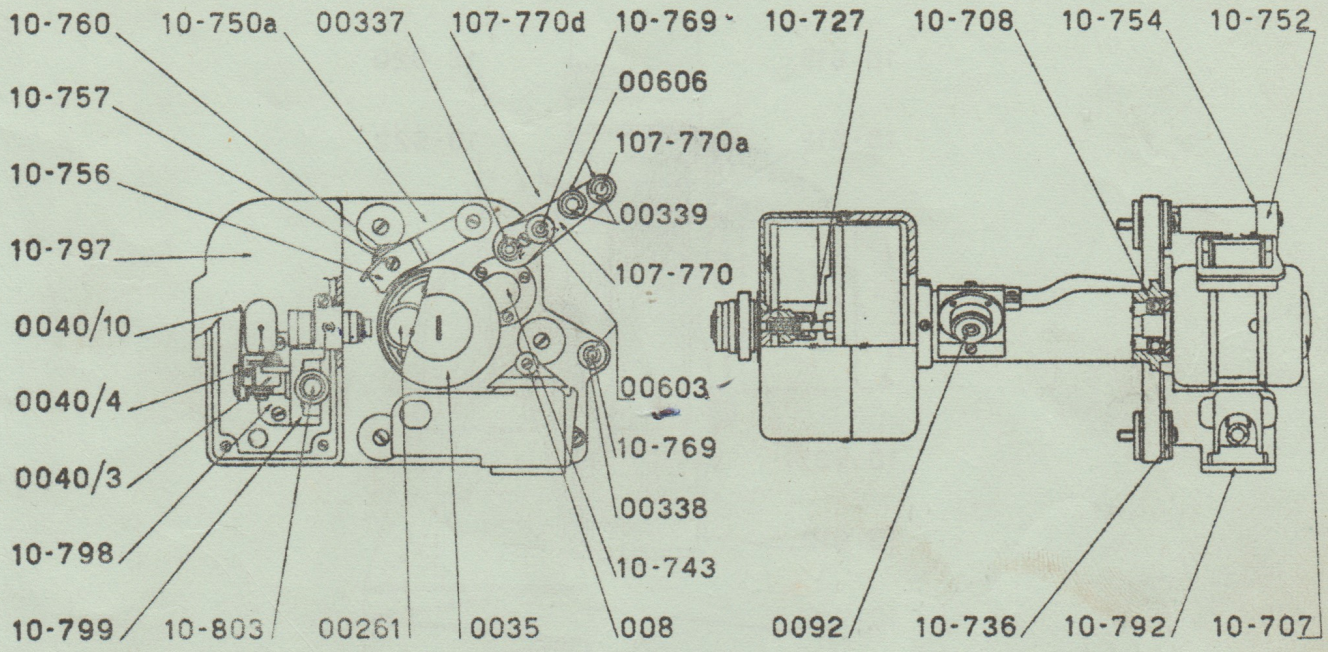
FIG. 8 - MAGNETIC SOUNDHEAD

00339 - Circlips (lock washers) securing roller (8mm dia.)
00606 - Plain roller (19mm o.d.)
00608 - Flanged roller (22mm o.d.)
00609 - Lay-on pressure roller for 70mm (24mm O.d.) - till n. 329 (°)
00610 - Lay-on pressure roller for 35mm (26mm o.d.) - till n. 329 (°°)
107-830- Sound drum with shaft and flywheel
10-832 - Ball race
10-835 - Spring coupling for flywheel
107-838- Spindle for flanged rollers
107-840- Lay-on pressure roller assembly
10-842 - Lay-on pressure roller spring housing
10-844 - spring for lay-on pressure roller
107-846- Lay-on pressure roller arm
107-848c- Circlips (lock washers) securing roller (14mm i.d.)
107-849 - Eccentric spindle
107-850 - lay-on pressure roller arm knob
107-851 - lay-on pressure roller arm spring
107-851f - lay-on pressure roller arm knob cover indicator
10-854 - Filter roller arm
107-856 - Filter roller spindle
10-858 - Filter roller spring
10-859 - Filter roller tension screw
10-862 - Oil damper for filter roller
107-865 - Roller arm
107-865a - Roller arm assembly
107-866 - Roller arm spindle
107-870 - Magnetic head revolving base assembly
107-871 - 10 elements magnetic cluster
10-878a - Terminal board (for 35mm)
107-878a - Terminal board (for 70mm)
(•) 107-825 - Complete magnetic soundhead

(°°) 00604 - from n. 330

(°) 00619 - from n. 330

(•) New number: old number 107-800 (20-10-1960)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0040/4
00603
0040/3
10-769
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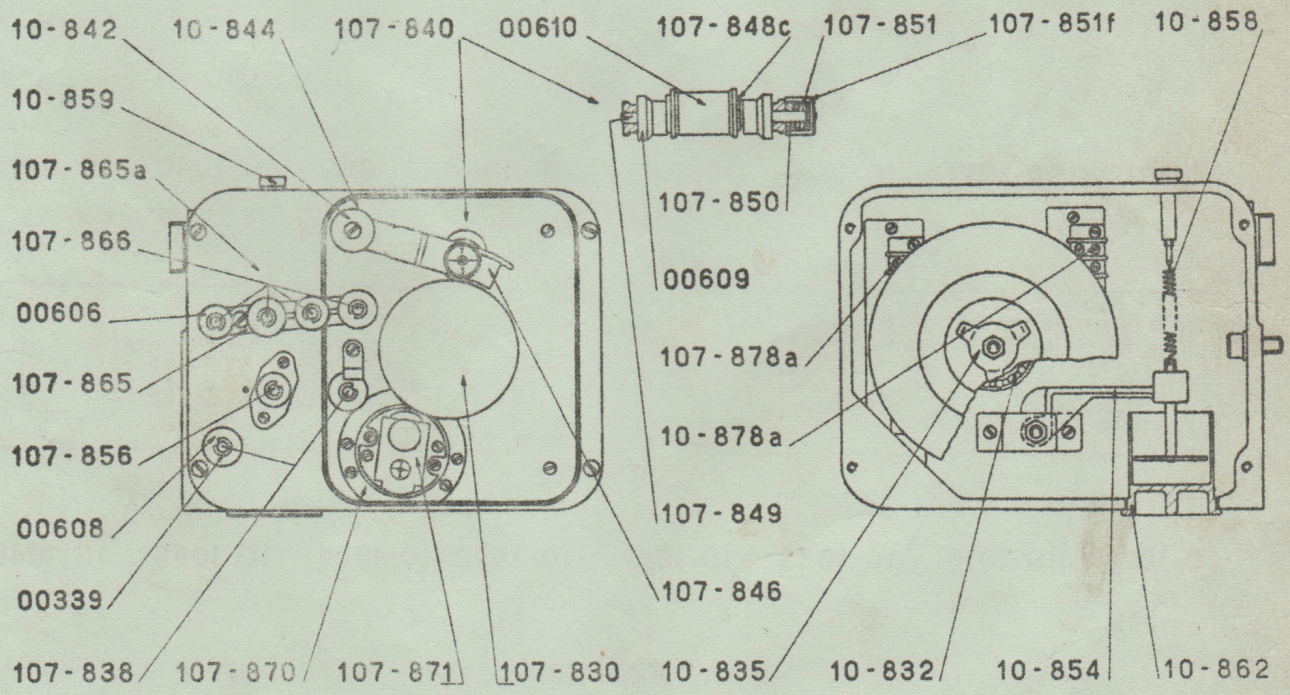
FIG. 7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107-856
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107-830
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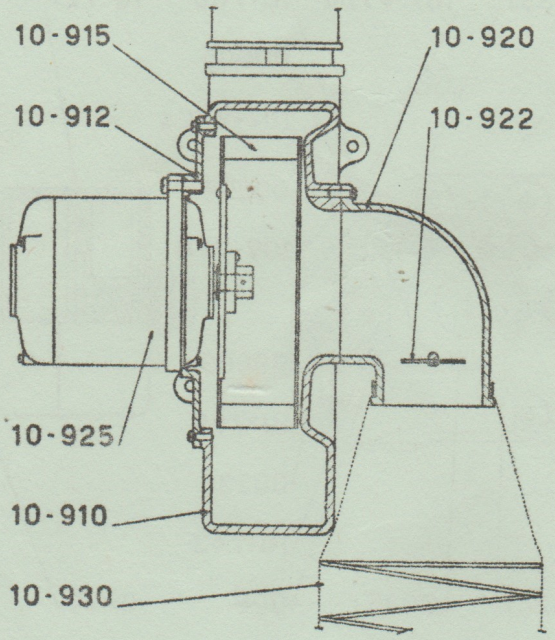
10-832
10-854
10-862

FIG. 8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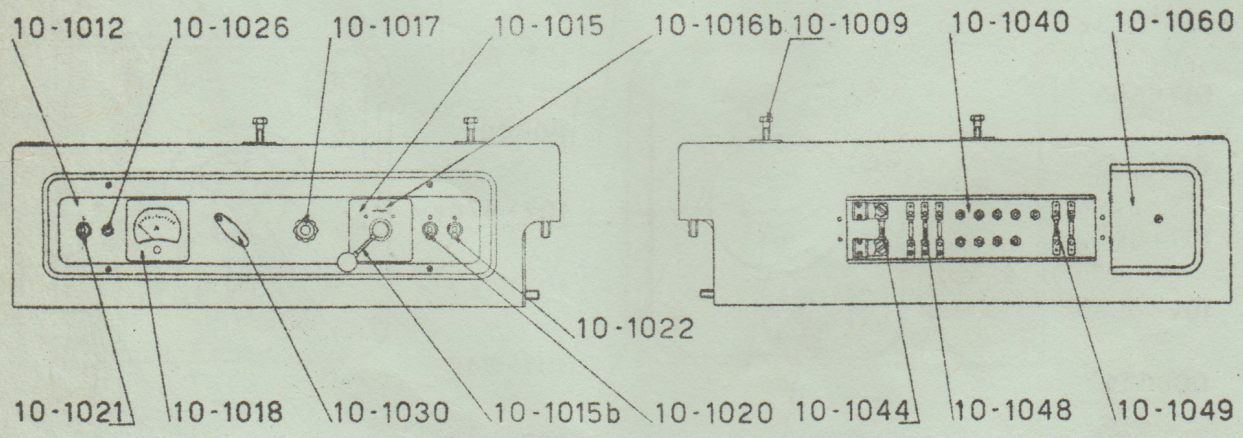
10-925
10-910
10-930

FIG. 9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10-1018
10-1030
10-1015b
10-1020
10-1044
10-1048
10-1049

FIG. 10

FIG. 9 - AIR COOLING UNIT

10-910 - Fan housing
10-912 - Motor flange
10-915 - Fan
10-920 - Air inlet
10-922 - Butterfly valve with spindle
10-925 - Fan motor (mains voltage and frequency to be specified)
10-930 - Air filter

FIG. 10 - ARC SUPPORT

10-1009 - Bolts securing arc lamp
10-1012 - Control panel
10-1015 - Motor switch with resistors
10-1015b - Switch lever with spindle
10-1016b - Motor start resistors (value in ohms to be specified)
10-1017 - Exciter lamp resistor with knob
10-1018 - Ammeter for exciter lamp
10-1020 - Exciter lamp switch
10-1021 - Arc supply control switch
10-1022 - Masking (Framing) lamp switch
10-1026 - Arc supply pilot lamp
10-1030 - Mascarini master switch
10-1040 - Terminal board complete
10-1044 - Arc fuse (Amperage to be specified).
10-1048 - 5 ampers Fuse
10-1049 - 1 ampere Fuse
10-1060 - Terminal board cover

FIG. 11 - STAND COLUMN

10-1108 - Spoolbox (Magazine) door handle
10-1112 - Spring cover
10-1115 - Rear cover complete
10-1120b - Base Column
10-1162 - Exciter supply unit
10-1170 - Terminal board
10-1127b - spacing plate
10-1128 - taped shaft
10-1128n - tilting assembly

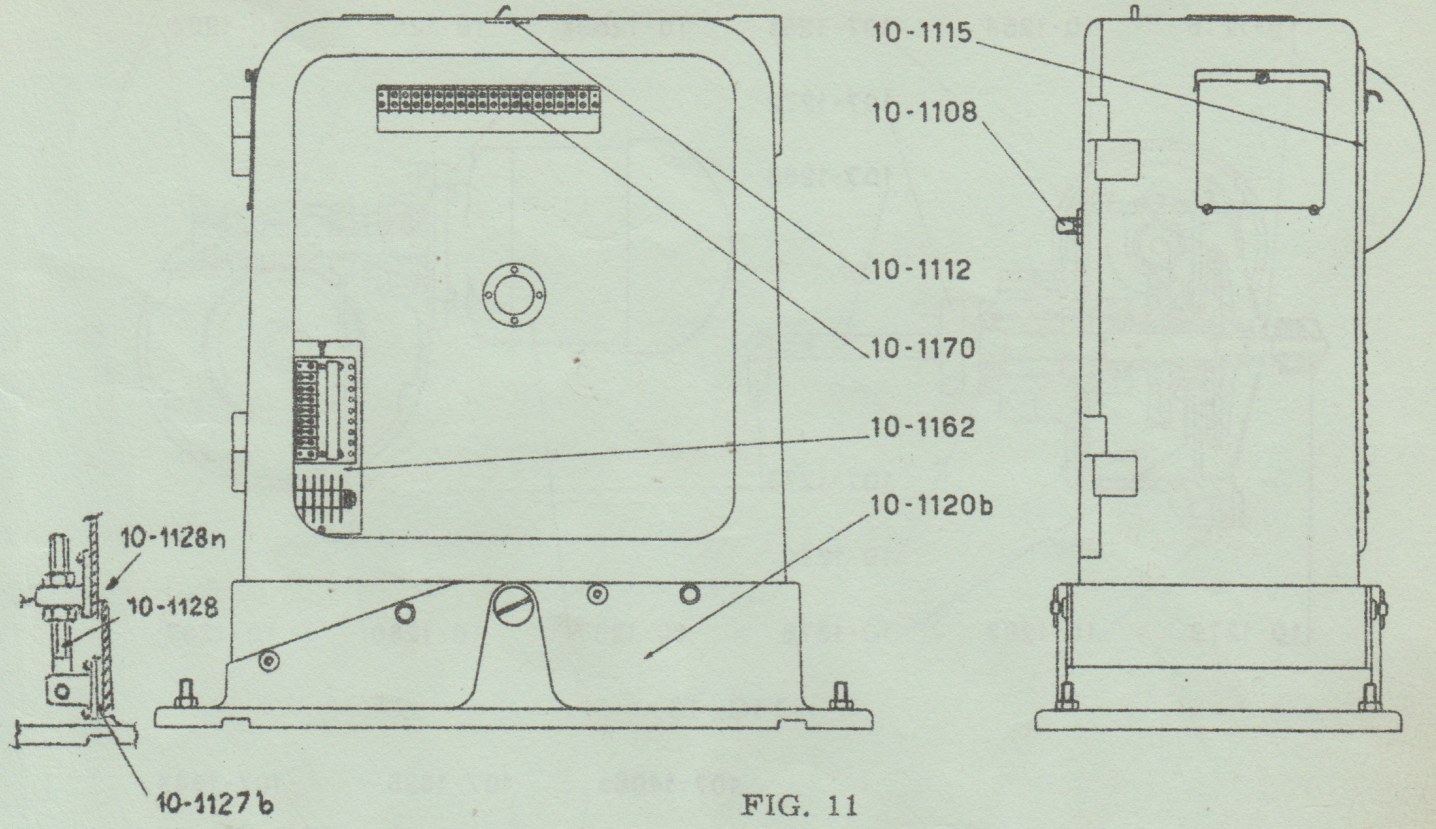
FIG.12 - TOP-SPOOL-BOX (MAGAZINE) AND TOP AND BOTTOM FIRE TRAPS

Top spool-box

107-1200 - Top spool arm and spool-box (magazine) assembly (1800m-5400)
107-1214 - Top spool-box door
10-1217 - Inspection window-front
10-1219 - Inspection window-rear
10-1226 - Spoolbox (magazine) door handle
107-1230 - Complete clutch assembly
107-1231 - Top spoolbox (magazine) spindle (1/2" dia.) with collar
107-1231b - Ball race
107-1232a - Felt clutch disc
107-1232c - Clutch spring
107-1232d - Clutch control knob
107-1233 - Spool drive collar
107-1234 - Double Sneck assembly (70/35mm)
10-1242 - Inspection lampholder
10-1244b - Inspection lamp

Top and bottom firetraps

00115 - Roller securing screw
00117 - Central roller securing screw
00606 - Plain roller (19mm. o.d.)
00611 - Flanged roller (19mm o.d.)
107-1235 - Top fire trap assembly
107-1238a - Ball Race
107-1238b - Circlips (lock washers) securing roller (30mm. o.d.)
107-1239 - Plain roller spindle
107-1239c - Top and bottom fire trap stop
107-1239e - Flanged roller spindle
107-1285 - Bottom fire trap assembly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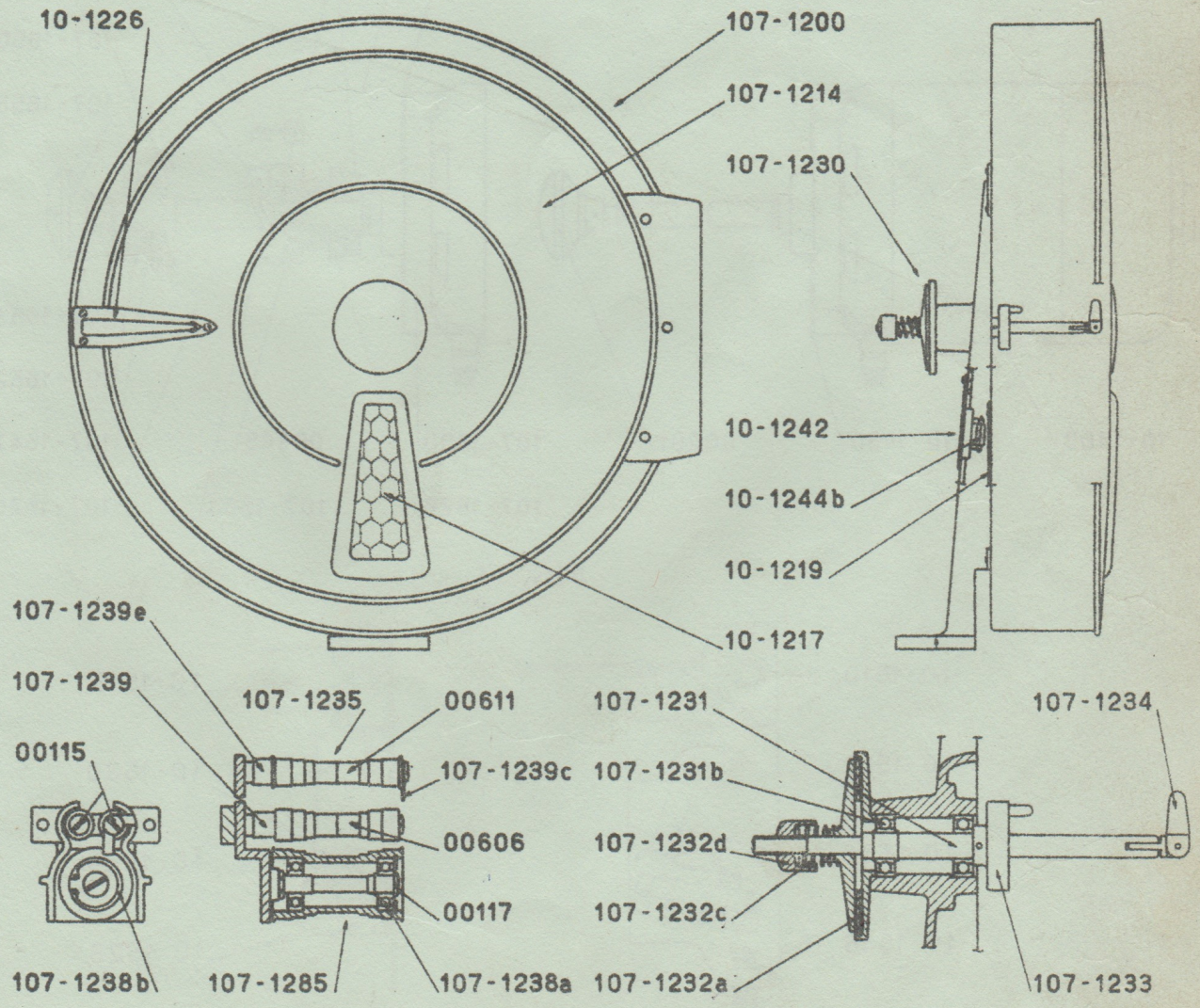
10-1112
10-1170
10-1162
10-1120b
10-1128n
10-1128
10-1127b

FIG. 11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10-1244b
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10-1217
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00115
107-1235
00611
107-1239c
00606
00117
107-1238b
107-1285
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107-1231b
107-1232d
107-1232c
107-1232a
107-1234
107-1233

FIG. 12

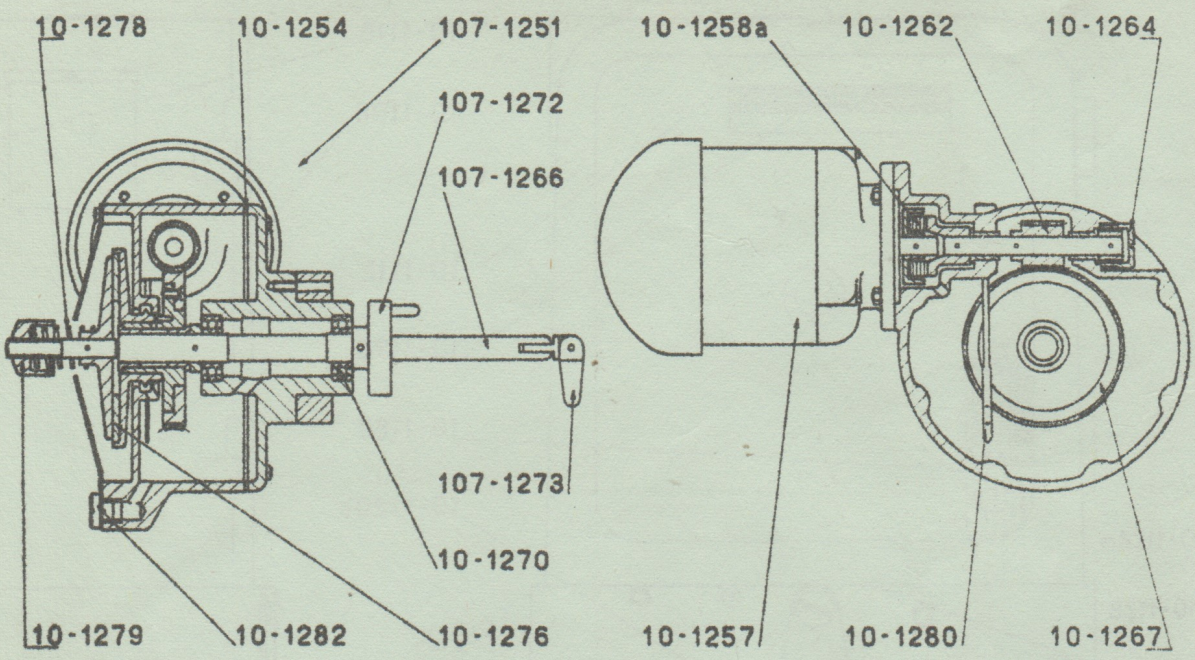


FIG. 13

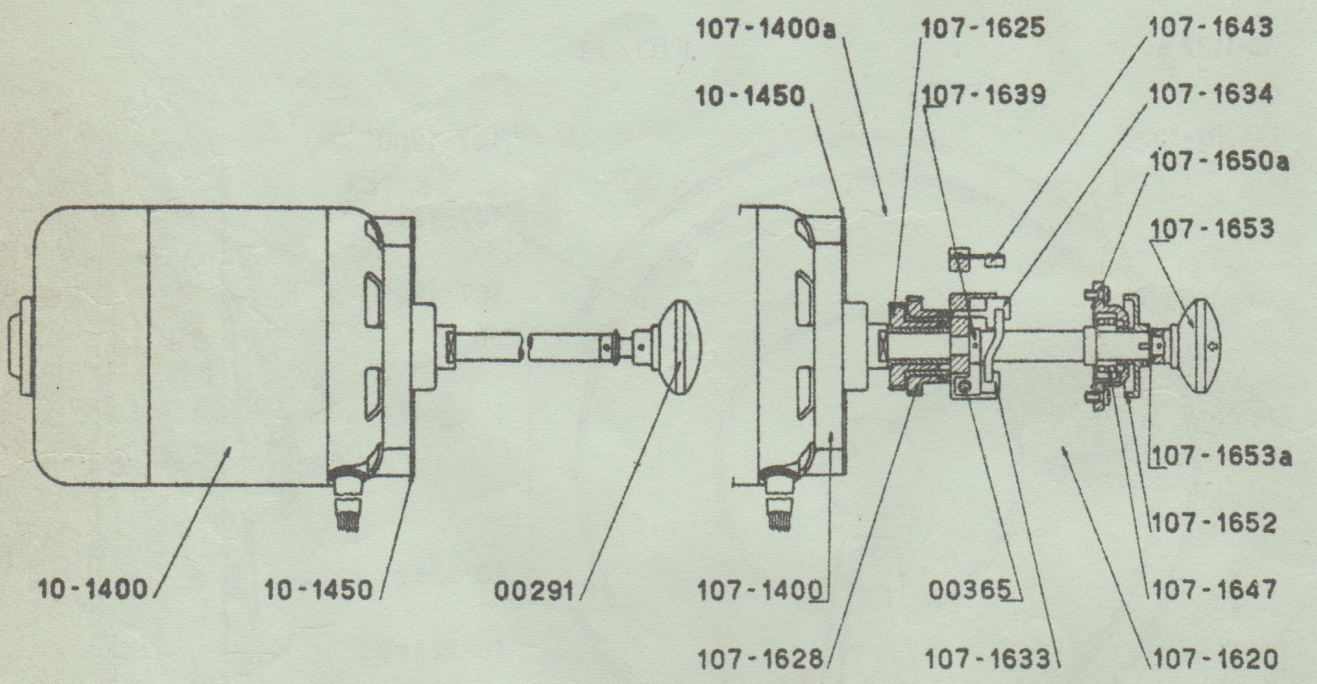


FIG. 14

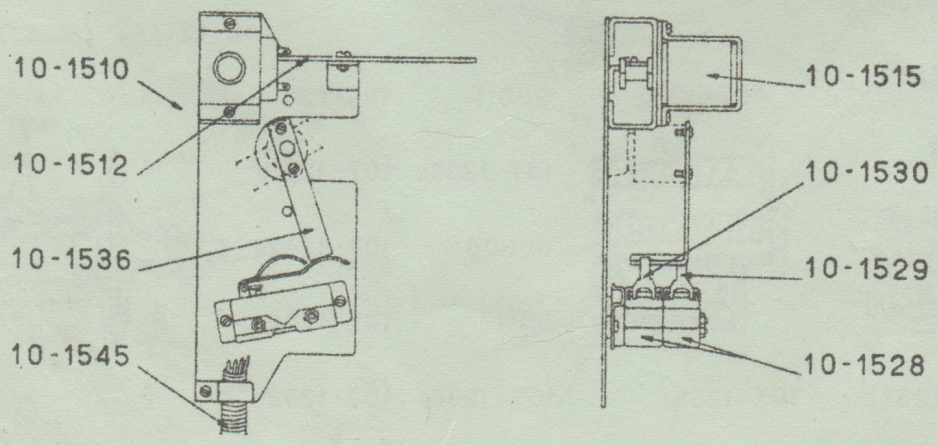


FIG. 15

FIG. 13 - TAKE-UP MOTOR AND GEAR BOX

107-1251 - Complete take-up drive assembly (mains voltage and frequency to be specified)
10-1254 - Gear box housing gasket
10-1257 - Take-up drive motor (Mains voltage and frequency to be spec.)
10-1258a - Torque coupling
10-1262 -Worm drive with 10-1267 gear (supply frequency to be spec.)
10-1264 - End cap for worm drive shaft
107-1266 - Spool spindle with driving collar (1/2")
10-1267 - See 10-1262
10-1270 - Ball-race
107-1272 - Spool driving collar
107-1273 - Double Sneck assembly (70mm.35mm)
10-1276 - Clutch disc
10-1278 - Clutch spring
10-1279 - Tension nut
10-1280 - Combined oil filler plug and dipstick
10-1282 - Oil drain plug

FIG. 14 - DRIVE MOTOR AND SPEED CHANGE (SHIFT)

Drive motor (for 24 frames only)

00291 - Inching knob
10-1400 - Drive motor (Main voltage and frequency to be specified)
10-1450 - Motor mounting plate

Drive Motor with speed change (shift) for 24 and 30 frames

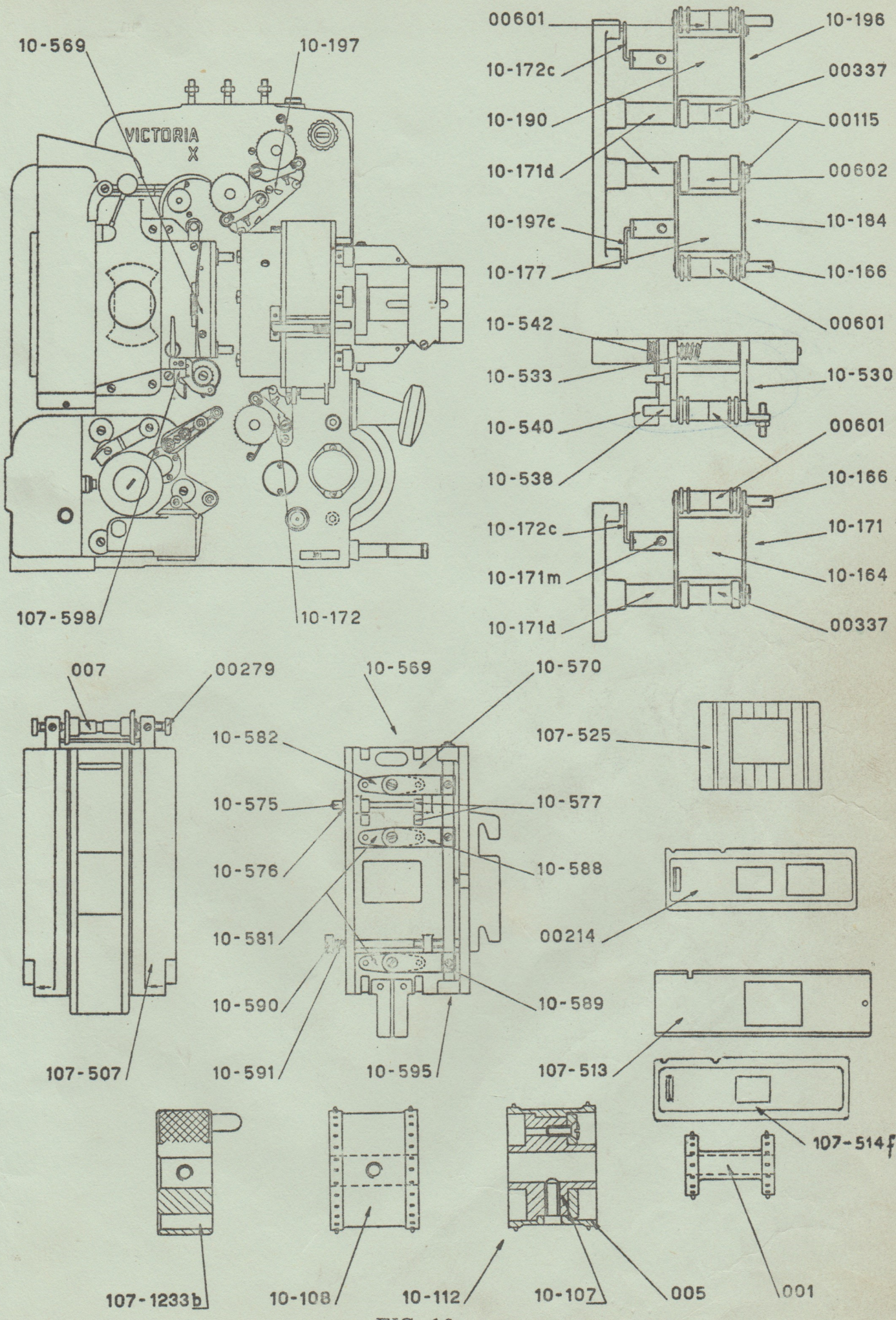
00365 - Spring for Torque assembly
107-1400 - Drive Motor only (mains voltage and frequency to be specified)
107-1400a - Drive motor with speed change (shift) assembly (idem)
107-1620 - Speed change (shift) assembly (frequency to be specified)
107-1625 - Speed shift driving gear for 24 f. (supply frequency to be spec.)
107-1628 - Speed shift driving gear for 30 f. (supply frequency to be spec.)
107-1633 - 24 f. driving gear plunger
107-1634 - 30 f. driving gear plunger
107-1639 - Plate for Torque assembly
107-1643 - Speed shift positioning dog with spring
107-1647 - Ball Race
107-1650a - Ball Race gasket
107-1652 - Speed shift setting and indicator disc
107-1653 - Inching knob
107-1653a - Circlips (lock washers), 10mm i.d.

FIG. 15 - PICTURE CHANGE-OVER MECHANISM

10-1510 - Complete sound and picture change-over unit
10-1512 - Trip lever for light cut-off disc (dowser)
10-1515 - Solenoid assembly
10-1528 - Micro-switch
10-1529 - Operating arm for sound change-over switch
10-1530 - Operating arm for picture change-over switch
10-1536 - Trip lever for microswitch
10-1545 - Cable form

FIG. 16 - PARTS KIT FOR INTERCHANGE BETWEEN 70mm and 35mm

C01	- Intermittent sprocket - 16 teeth
C05	- 32 teeth sprocket
C07	- Spring guide roller assembly
C0115	- Roller arm locking screw
C0214	- Double aperture plate (aspect ratios to be specified) for 35 (from No.301)
C0279	- Adjusting screw for sping guide roller
C0337	- Roller 15mm o.d.
C0601	- Grooved roller 20mm o.d.
C0602	- Roller 20mm o.d .
10-107	- Mounting bushing washer and screws for 32 teeth sprocket
10-108	- Sprocket - 32 teeth (solid type, mounted till No. 399) Fox hole
10-112	- Sprocket - 32 teeth ring type complete assembly (from No. 400)
10-164	- Bottom sprocket roller arm only -
10-166	- Spindle for C0601 grooved roller
10-171	- Bottom sprocket roller arm assembly
10-171d	- Sprocket roller arm shaft
10-171m	- Sprocket roller arm setting screw
10-172	- Bottom sprocket roller arm assembly with base
10-172c	- Bottom and top roller arm torsion spring
10-177	- Intermediate sprocket roller arm only
10-184	- Intermediate sprocket roller arm assembly
10-190	- Top sprocket roller arm only
10-196	- Top sprocket roller arm assembly
10-197	- Top and intermediate sprocket roller arms with base
10-197c	- Intermediate roller arm torsion spring
107-507	- Gate plate with guide roller for 35mm
107-507a	- Gate plate with guide roller for 35mm with velvet
107-525	- Corrugated framing screen
10-530	- Intermittent sprocket roller arm assembly -
10-533	- Intermittent sprocket roller arm spring
10-538	- Intermittent sprocket roller spindle
10-540	- Lever for roller assembly
10-542	- Spring for 10-540
10-569	- 35mm gate frame assembly
10-570	- 35mm gate frame
10-575	- Upper pressure plates retaining screw
10-576	- Spring washer for 10-575
10-577	- 35mm pair of pressure plates (4 pieces)
10-581	- Pressure pad for top plates
10-582	- Pressure pad for bottom plates
10-588	- Pressure pads control spring
10-589	- Pressure pads spring
10-590	- Pressure pads control screw
10-591	- Pressure pads control screw spring
10-595	- Gate frame cover
107-598	- Intermittent sprocket roller arm assembly with base
107-1233b	- Magazines shaft adaptor for 35mm spools
107-513	- 35mm aperture mask removable guide
107-514f	- Single aperture plate (aspect ratios to be specified) for 35 (till No.300)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10-197
VICTORIA X
107-598
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00337
00115
00602
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10-172c
10-171m
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10-171
10-164
00337
007
00279
10-569
10-570
10-582
10-575
10-576
10-581
10-590
10-591
10-595
10-577
10-588
10-589
107-507
107-525
00214
107-513
107-514f
107-1233b
10-108
10-112
10-107
005
001

FIG. 16

V I C T O R I A X 70/35

Spare parts Catalogue

- Enclosed type model
- American type

C I N E M E C C A N I C A s.p.a. - Viale Campania, 23 - M I L A N

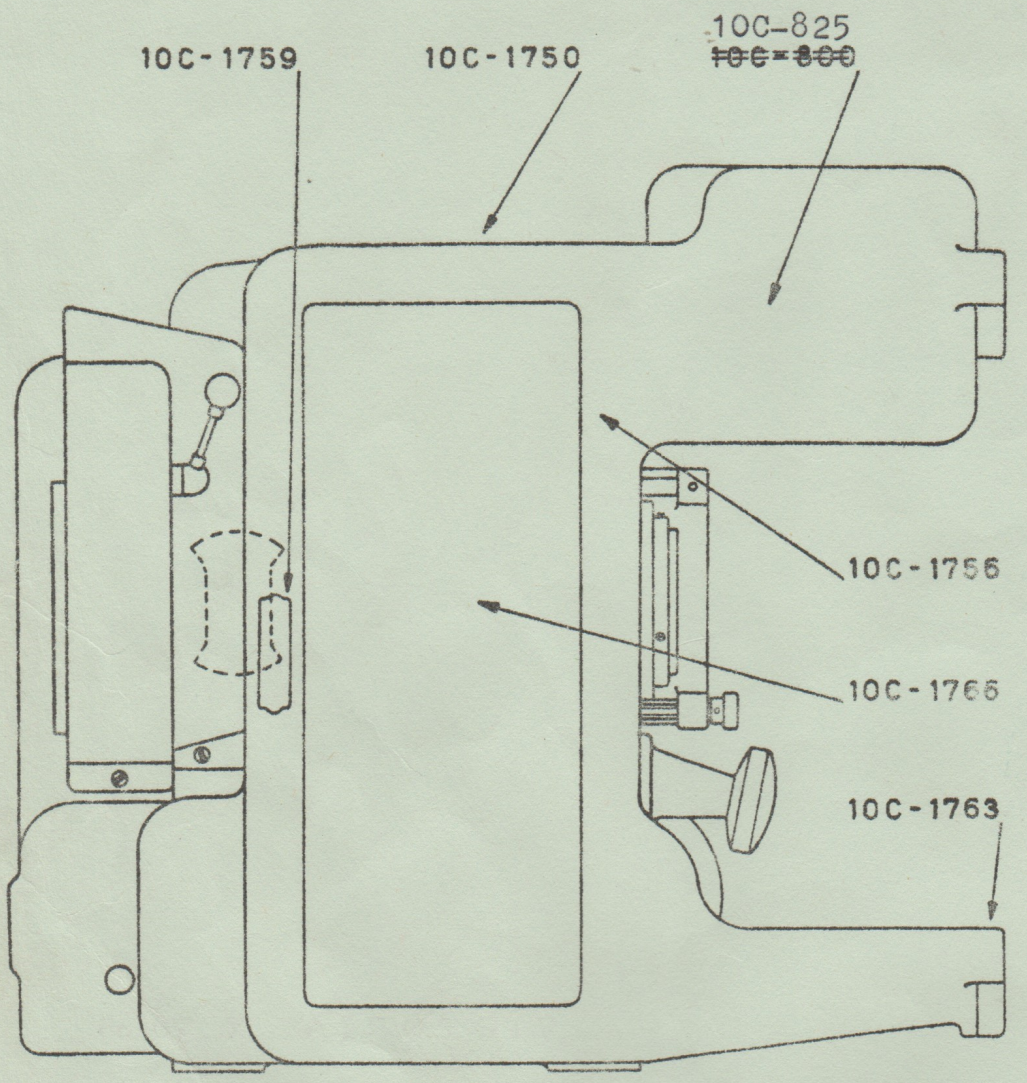

FIG. 17

FIG. 17 - VICTORIA X 70/35 ENCLOSED TYPE MECHANISM

10C-825
~~10C-800~~ - Magnetic sound head, complete for the enclosed model
10C-1750 - Enclosure, complete
10C-1756 - Door, complete
10C-1759 - Door latch
10C-1763 - Door hinge stud
10C-1766 - Door inspection glass

For all other parts of the enclosed mechanism, please see the correspondent List of the open model.

FIG. 18 - LAMPHOUSE BEAM, AMERICAN TYPE

10C-1001 - Lamphouse Beam, American type, complete assembly
10C-1012 - Control panel
10-1015 - Motor switch with resistor
10-1015b - Switch lever with shaft
10-1016b - Motor start resistors (value in Ohms to be specified)
10C-1017 - Exciter lamp resistor with knob
10-1018 - Ammeter for exciter lamp
10-1020 - Exciter lamp switch
10-1021 - Arc supply control switch
10-1022 - Masking (framing) lamp switch
10-1026 - Arc supply pilot lamp
10C-1041 - Fuses panel
10C-1051 - Fuse holder
10C-1052 - Fuse, 1 Amp.
10C-1052b - Fuse, 5 Amp.
10-1060 - Terminal board cover
10C-1080 - Beam bottom cover

FIG. 19 - STAND COLUMN, AMERICAN TYPE

10-1108 - Magazine door handle
10-1112 - Plug with spring
10-1115 - Rear-cover complete
10-1120b - Column base
10C-1162 - Exciter lamp supply unit
10-1162a - Selenium rectifier stack
10-1162b - Threephase transformer
10C-1174 - Nine lugs terminal board
10C-1174a - Eleven lugs terminal board
10C-1176 - Auto Manual rotary switch (3P. DT)
10C-1177 - Auto Manual rotary switch (3P. ST)
10C-1179 - Auto Manual complete switching assembly
10C-1189 - Exciter lamp emergency A.C. supply assembly
10C-1190 - Exciter lamp A.C supply transformer only
10C-1193 - Exciter lamp supply toggle switch