VP-35

3 MODEL VII SOUNDHEAD

BALLANTYNE OF OMAHA, INC.

A SUBSIDIARY OF CANRAD-HANOVIA, INC.
1712 Jackson Street
Omaha, Nebraska 68102
402-342-4444

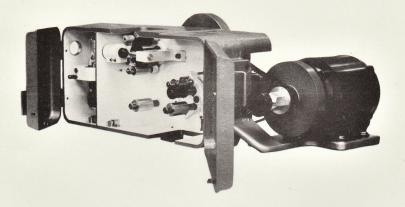
BALLANTYNE MODEL VII SOUNDHEAD

Ballantyne

MODEL WII

SOUNDHEAD

THE FINEST SOUNDHEAD MANUFACTURED DESIGNED FOR THE 70'S & 80'S



- ROOMY EASY TO SERVICE EASY TO THREAD TIGHT LOOP ELIMINATES

 WOW NO GEAR BOX NEVER NEEDS OILING MADE TO RECEIVE AUTOMATION

 EQUIPPED WITH SOLAR CELL OR PHOTO ELECTRIC CELL SPECIFY DOUBLE ACTING

 OIL DAMPENER THE ONLY SOUNDHEAD WITH A PRE-FOCUSED OPTIC
- SIMPLIFIED MOUNTING TO ANY PROJECTOR NO DRIVE GEARS TO ALIGN
- . WILL BELT DRIVE ANY AMERICAN MADE PROJECTOR

AVAILABLE FOR 50 AS WELL AS 60 CYCLE
WHEN ORDERING - SPECIFY MAKE AND MODEL PROJECTOR - MAKE AND MODEL PEDESTAL

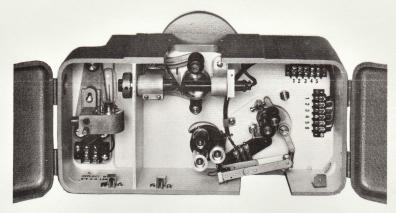
Ballantyne

MODEL



SOUNDHEAD

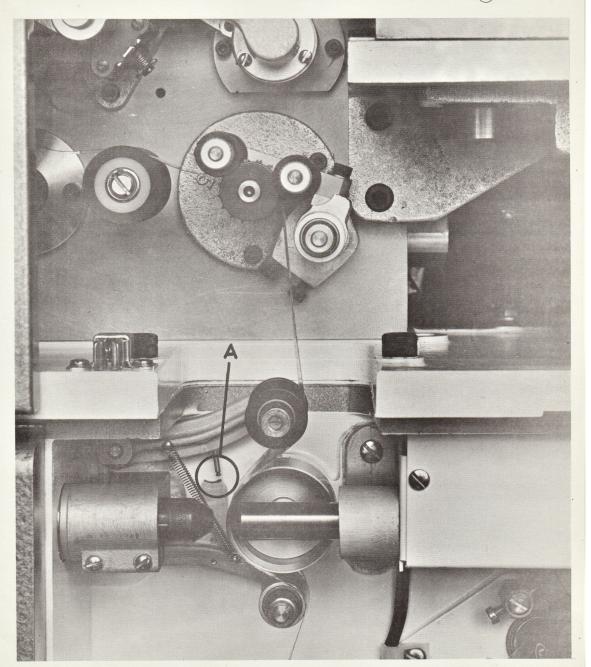
THE FINEST SOUNDHEAD MANUFACTURED DESIGNED FOR THE 70'S & 80'S EQUIPPED TO CONTROL AUTOMATION

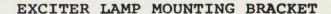


• HAS TWO CIRCUIT SENSOR PROVIDING FULL PROGRAM CONTROL OF AUTOMATED SYSTEMS • RUN OUT SWITCH DESIGNED TO MONITOR BOTH SIDES OF THE FILM SIMULTANIOUSLY • EQUIPPED WITH SOLAR CELL OR PHOTO ELECTRIC CELL • MOUNTINGS DIRECTLY INTERCHANGEABLE

WHEN ORDERING - SPECIFY MAKE & MODEL PROJECTOR - MAKE & MODEL PEDESTAL & PICK-UP DEVICE DESIRED.

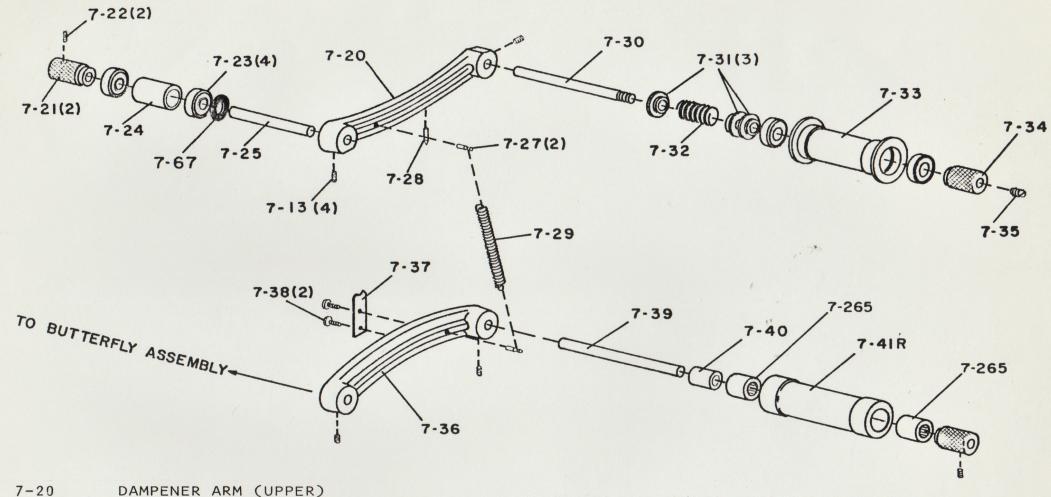
Tension the film around scanning drum from sprocket to sprocket until point of pin rides at level of arc on pointer plate (A)





	7-16
	7-15 (3) 7-14
7-11	7-18 7-19 7-6 7-13 7-17
7-2(3)	7 - 3 (3)
	7-4 7-5(2)

7-1 Exciter Dampening Plate 7-2 Rubber Gromet for Dampening Plate Exciter Lamp Shoulder Screw 7-3 7-4 2 Terminal-Terminal Block 7-5 Terminal Mounting Screw 7-6 Exciter Bracket 7-7 Exciter Lamp Pivot Shaft 7-8 Spring for Pivot Shaft 7-9 Pivot Shaft Fastening Screw 7-10 Spring Fastening Screw 7-11 Exciter Bracket Mounting Screw 7-12 Exciter Mounting Cap 7-13 Exciter Mounting Cap Set Screw 7-14 Exciter Lamp Socket & Pigtails 7-15 Socket Mounting Screw 7-16 Exciter Lamp (Specify Voltage & Amp) 7-17 Exciter Lamp Tip-Out Handle 7-18 Mounting Cup Stop Set Screw 7-19 Stop Set Screw Locking Nut



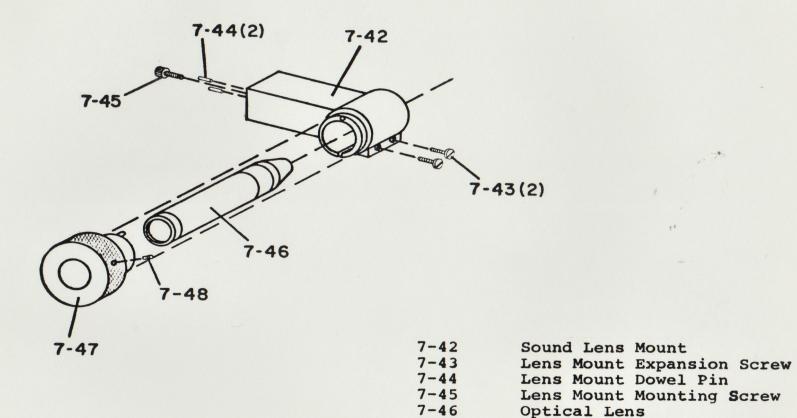
7-20	DAMPENER ARM (UPPER)			
7-21	KNURLED COLLAR	7-31	BUSHING FOR DAMPENER ROLLER	
7-22	SET SCREW	7-32	BUSHING SPRING	
7-265	BEARING	7-33	UPPER FLANGE FILM ROLLER	
7-24	SPACER FOR UPPER DAMPENER ARM BEARING	7-34	KNURLED COLLAR	
7-67	FIBRE WASHER	7-35	ADJUSTMENT SET SCREW	
7-25	UPPER DAMPENER ARM SHAFT	7-36	DAMPENER ARM (LOWER)	
7-13	SET SCREW	7-37	POINTER PLATE	
7-27	DAMPENER ARM SPRING PIN	7-38	POINTER PLATE FASTENING SCREW	
7-28	UPPER DAMPENER SHAFT POINTER PIN	7-39	LOWER DAMPENER ARM SHAFT	
7-29	DAMPENER SPRING	7-40	SPACER FOR PAD ROLLER	
7-30	UPPER DAMPENER ARM PIN THREADED	7-41R	PAD ROLLER	

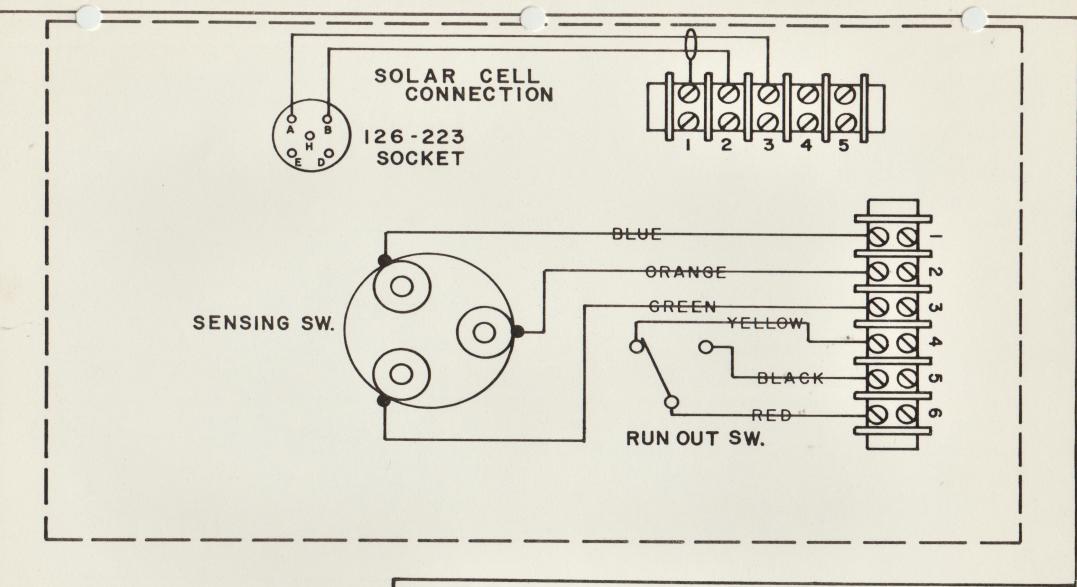
7-47

7-48

Lens Focus Ring

Lens Focus Ring Set Screw





BALLANTYNE OF OMAHA, INC.

TELEPHONE 342-4444

1712 JACKSON STREET

DATE 1/24/72

OMAHA, NEBRASKA

MODEL VII WIRING DIAGRAM

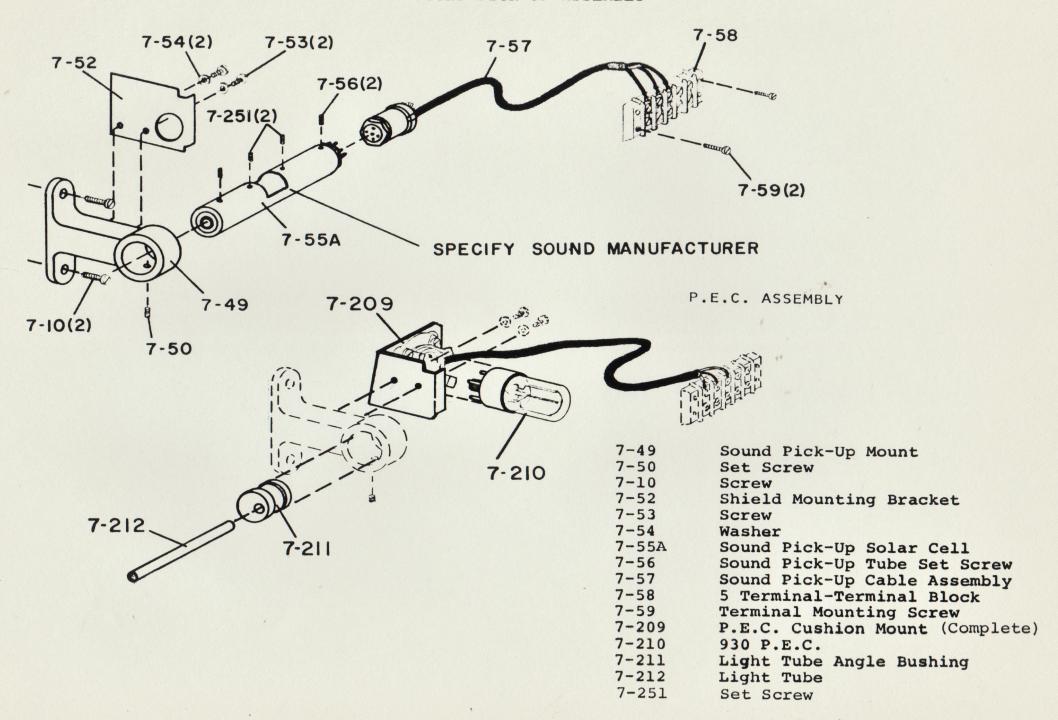
SCALE

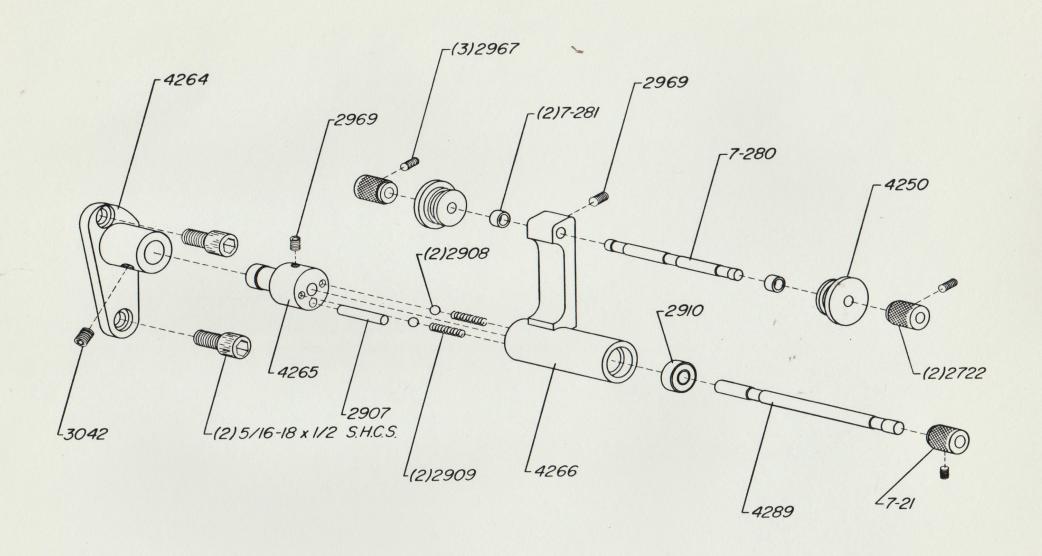
DRAWING NO.

2932

REVISED

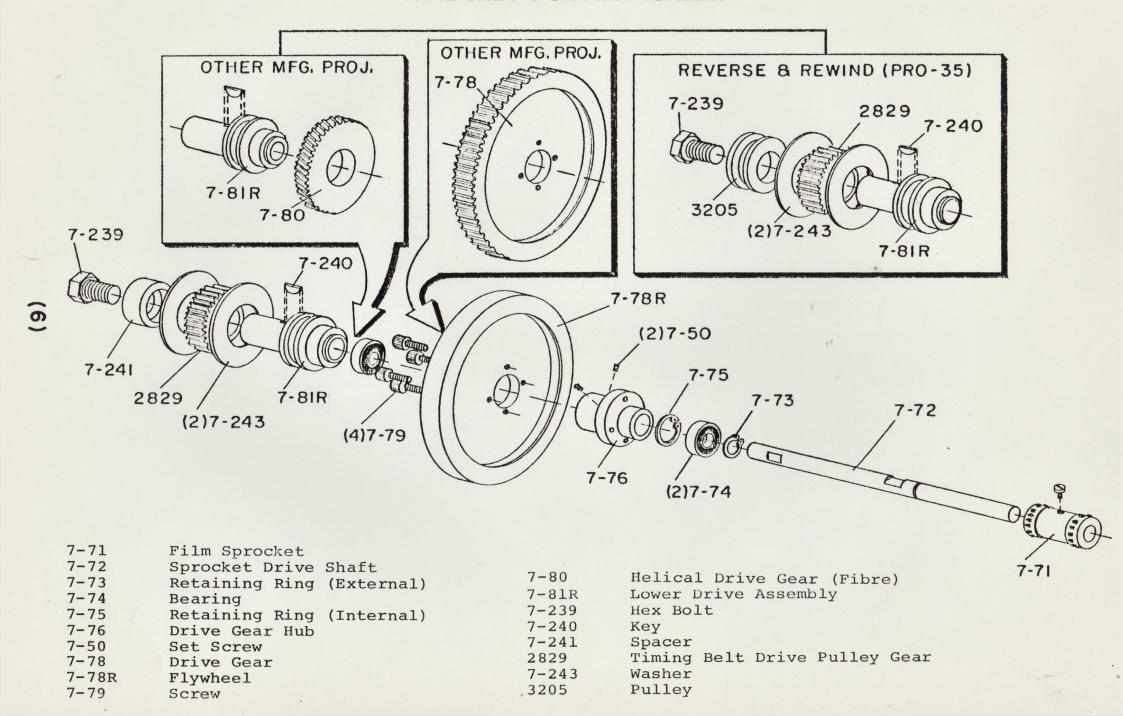
SOUND PICK-UP ASSEMBLY

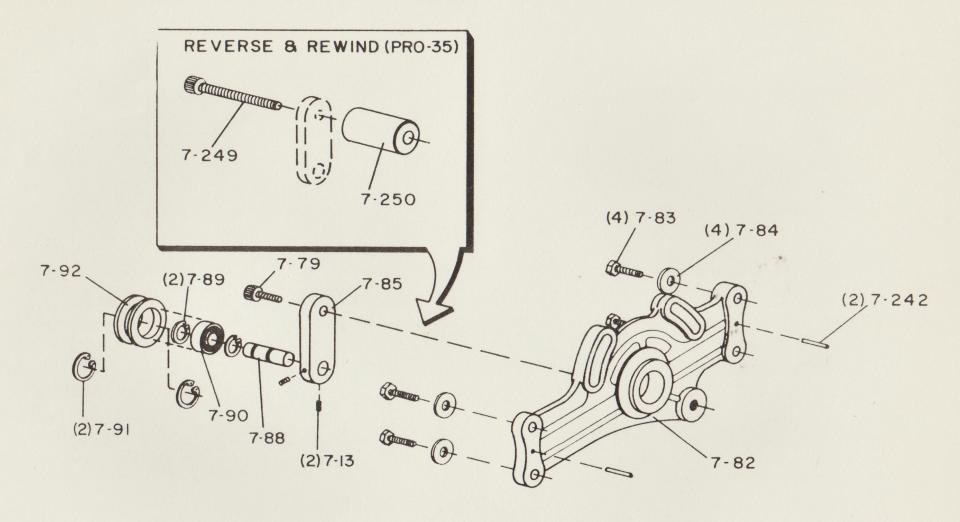




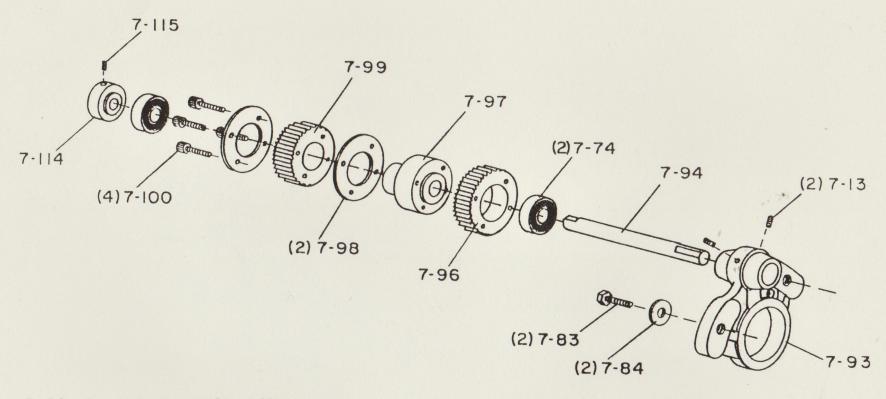
P8/63
35 mm MODEL VII PAD ROLLER ASSEMBLY

DRIVE SHAFT & SPROCKET ASSEMBLY

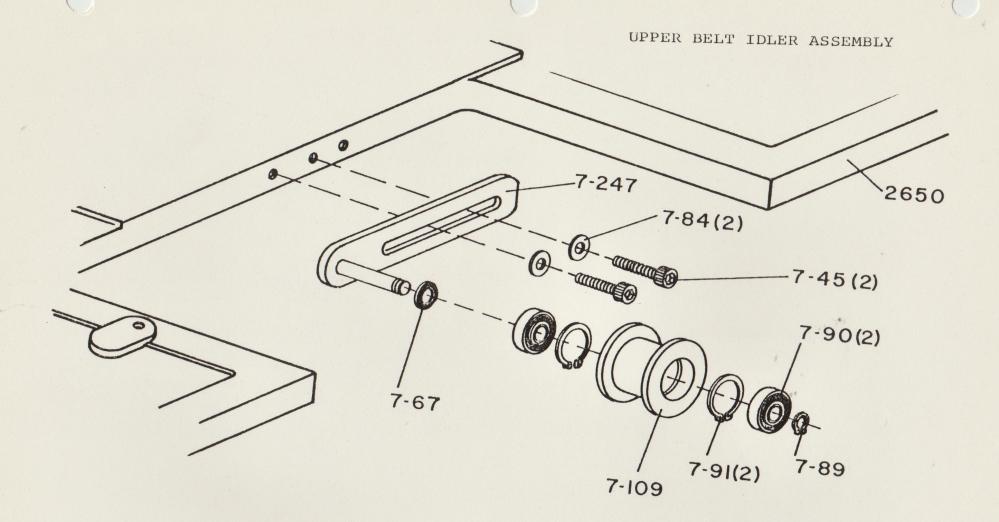




7-32 7-83 7-84 7-85 7-13	Drive Mounting Bracket Bracket & Upper Idler Assembly Bolt Bracket & Upper Idler Assembly Washer V-Belt Idler Bracket Set Screw	7-89 7-90 7-91 7-92 7-249	Retaining Ring (External) Bearing Retaining Ring (Internal) Sheave Idler Pulley Screw
7-79 7-88	Screw Pin for V-Belt Idler Bracket	7-250 7-242	Spacer Roll Pin
7-00	Pin for v-bert faler bracket	1-242	ROII FIII

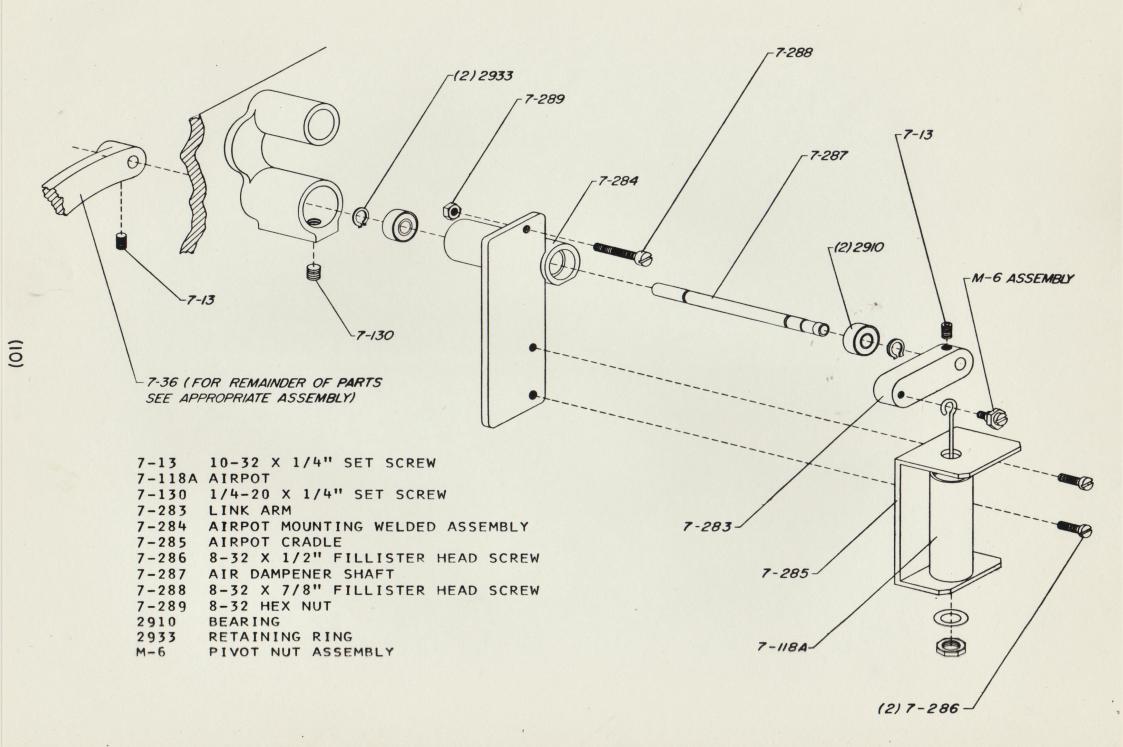


7-93	Upper Belt Idler
7-13	Set Screw
7-83	Hex Bolt
7-84	Washer
7-94	Upper Belt Idler Shaft
7-74	Bearing
7-96	Helical Drive Gear (Steel)
7-97	Upper Drive Spacer
7-98	Washer for Timing Belt Drive Pulley
7-99	Timing Belt Drive Pulley
7-100	Fastening Screw
7-114	Drum Shaft Collar
7-115	Set Screw

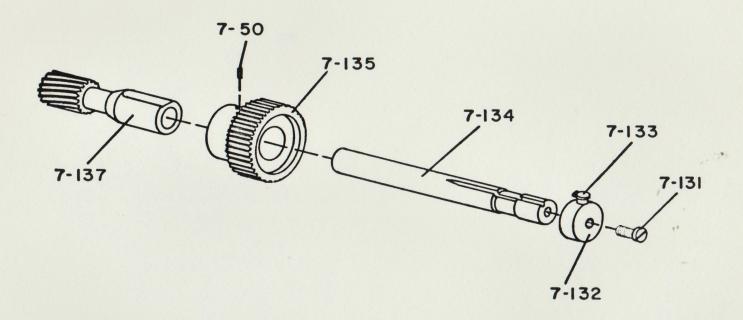


7-89 7-90	Retaining Ring (External)
	Bearing
7-91	Retaining Ringe (Internal)
7-109	XL-Drive Belt Idler Pulley
2650	Bottom Plate (PRO-35)
7-247	Belt Tightener Idler Arm
	Fibre Washer
7-84	Washer
7-45	Screw

7-110	SCANNING DRUM & SHAFT
7-269	BEARING
7-111	FIBRE WASHER
7-75	RETAINING RING (INTERNAL)
7-114	DRUM SHAFT COLLAR
7-115	DRUM SHAFT COLLAR SET SCREW
7-116	"O" RING FOR FILTER FLYWHEEL
7-117	FILTER FLYWHEEL

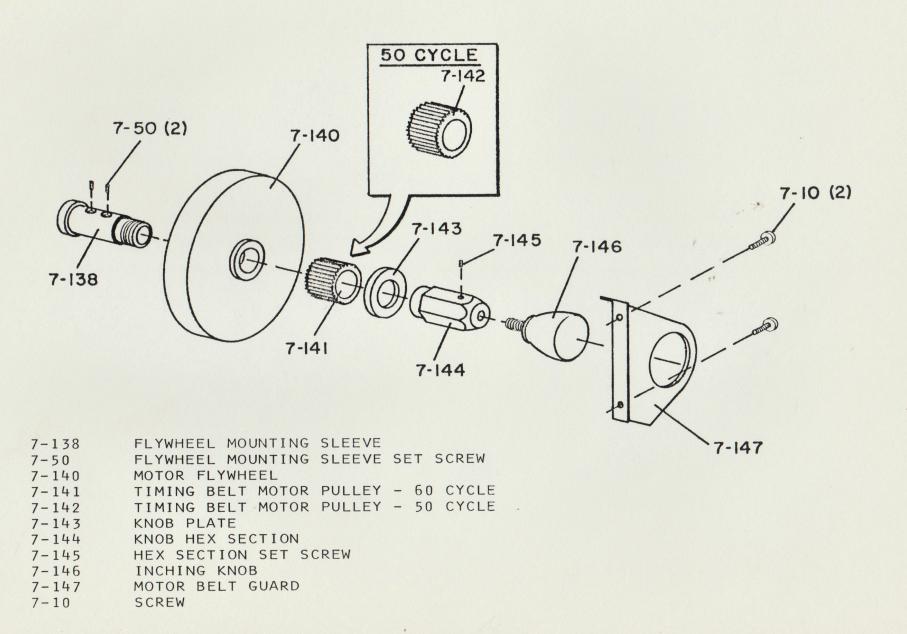


DRIVE PINION ASSEMBLY (FOR BALLANTYNE BW-ALL SIMPLEX EXCEPT XL)

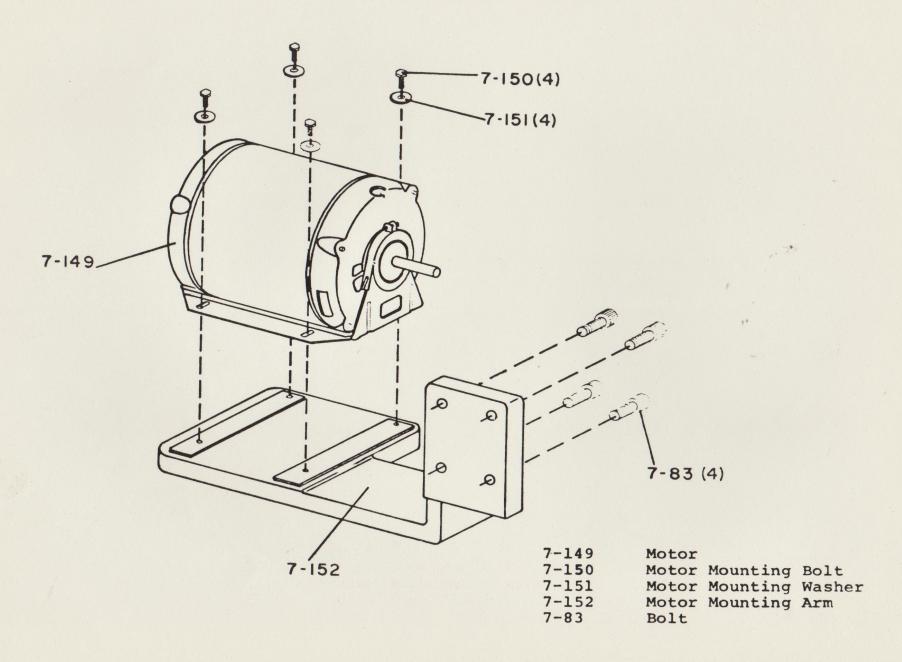


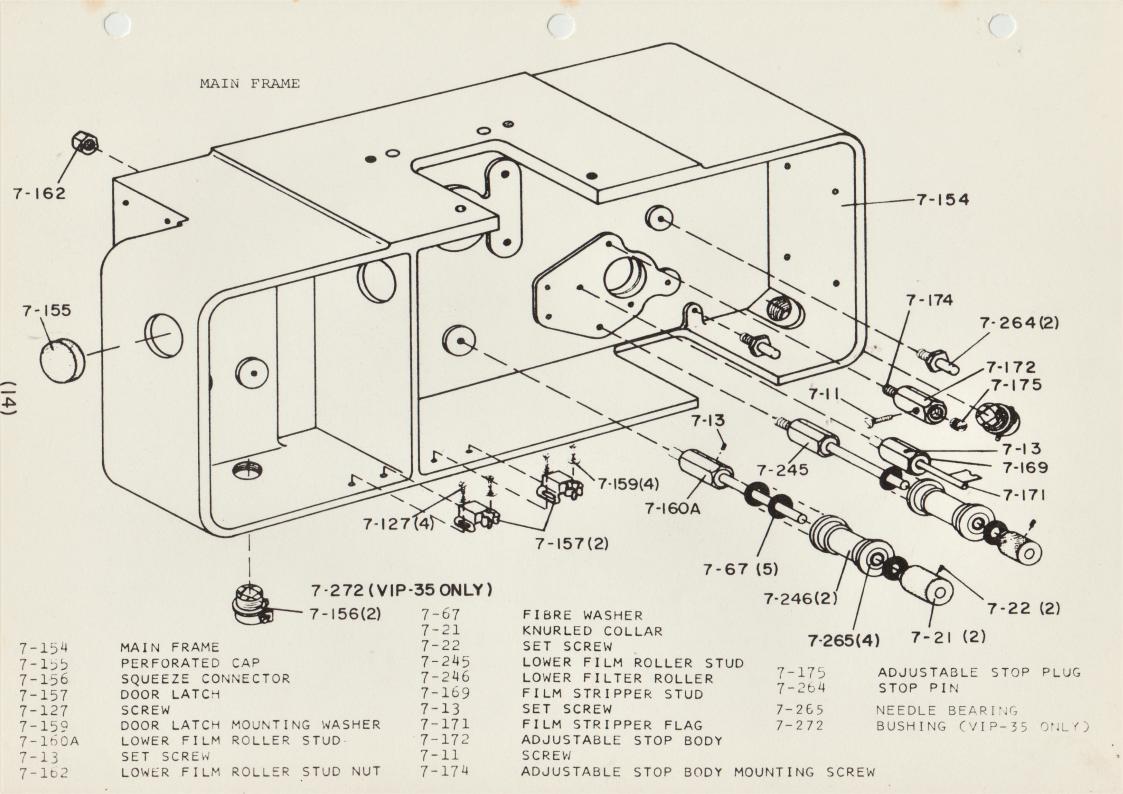
7-131	Drive Attachment Shaft Oiler Washer Screw
7-132	Drive Attachment Shaft Oiler Washer
7-133	Drive Attachment Shaft Oiler Tube
7-134	Drive Attachment Shaft
7-135	Timing Belt Drive Gear - Simplex
7-50	Set Screw
7-137	Projector Drive Pinion

MOTOR FLYWHEEL & INCHING KNOB ASSEMBLY

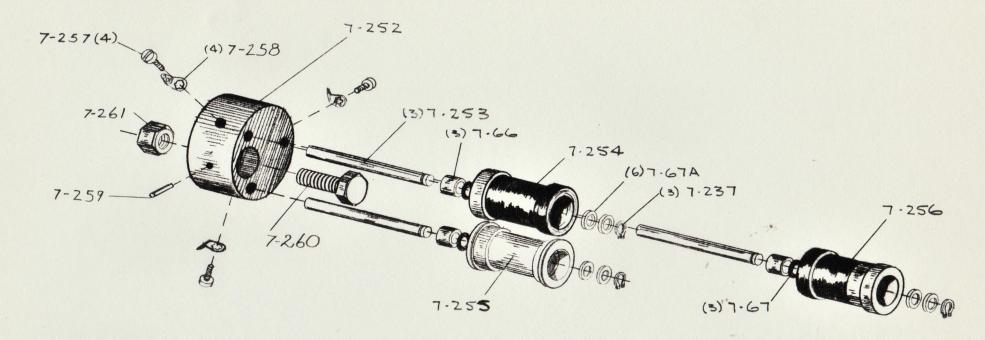


MOTOR MOUNTING BRACKET





7-252A SENSING SWITCH ASSEMBLY (COMPLETE)



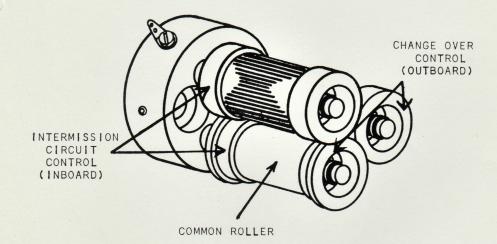
7-66 SPACER
7-67 FIBRE WASHER
7-67A FIBRE WASHER
7-237 RETAINING RING
7-252 SWITCH BODY
7-253 SENSING ROLLER SHAFT
7-254 UPPER SENSING ROLLER
7-255 LOWER SENSING ROLLER
7-256 FORWARD SENSING ROLLER
7-257 6-32 X 1/2" BIND HD. SCREW
7-258 TERMINAL
7-259 3/32" X 9/16" ROLL PIN
7-260 3/8-16 X 1-1/2" HEX HEAD BOLT
7-261 3/8-16 HEX NUT

BALLANTYNE 7-252 A

SENSING SWITCH ASSEMBLY

The above assembly has been designed to serve as a sensing device, to initiate input signals, to the automation panel for proper show control. Basically the switch consists of a mounting block and three rollers. One roller is electrical common. The second and third rollers are composition with metal rings. The common roller with the respective ring, when shorted by a piece of sensing tape, forms a switch and provides the impulse signal. These two circuits give us the capability of intermission as well as normal control functions. Electrically the circuit is completed from the rollers through needle bearings which should NOT be oiled.

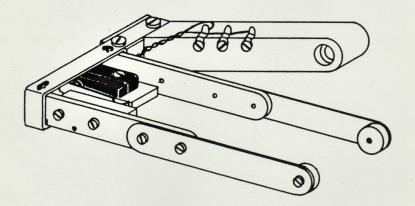
The sensing switch was designed to physically fit into the tight film loop operation of the Ballantyne Model VII Soundhead.

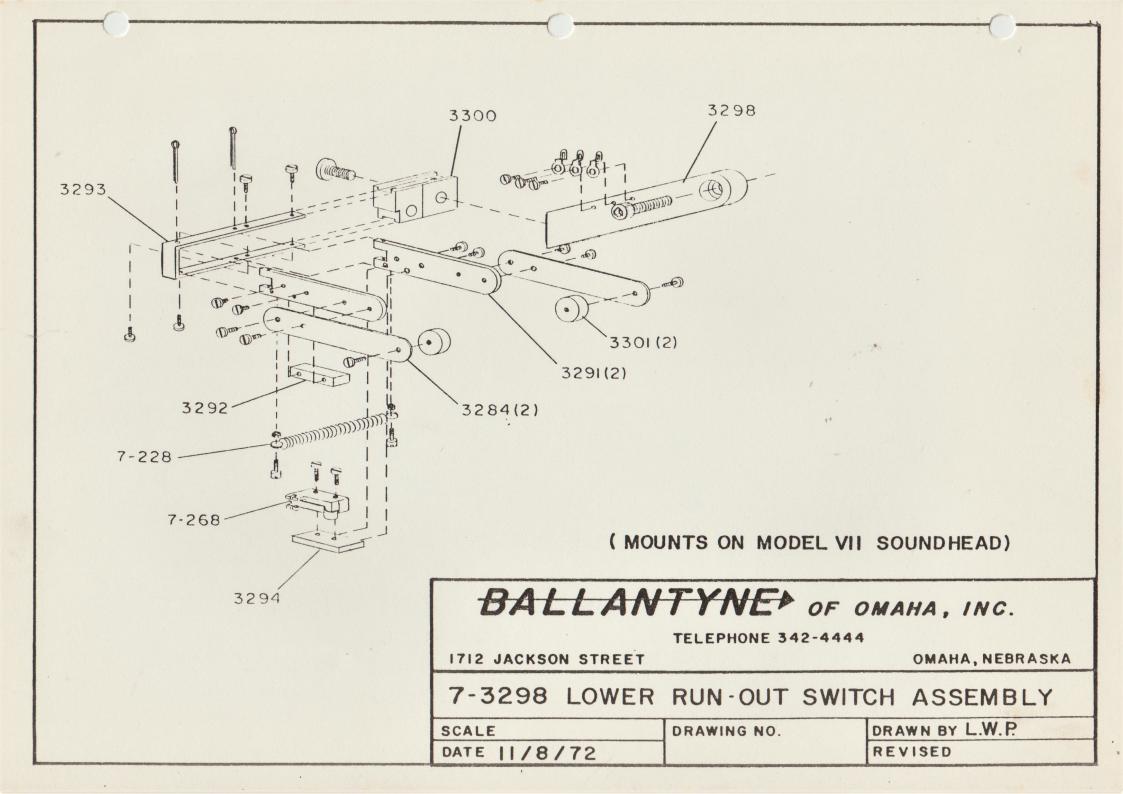


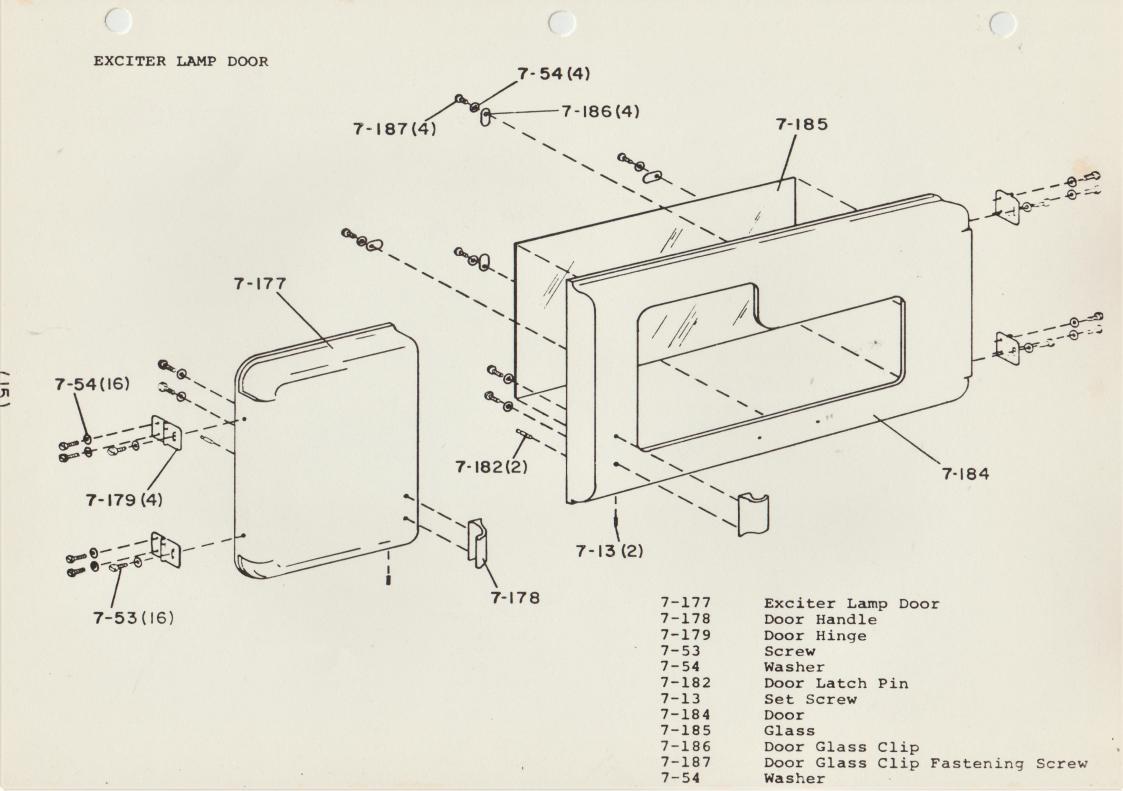
BALLANTYNE 7-3298 A

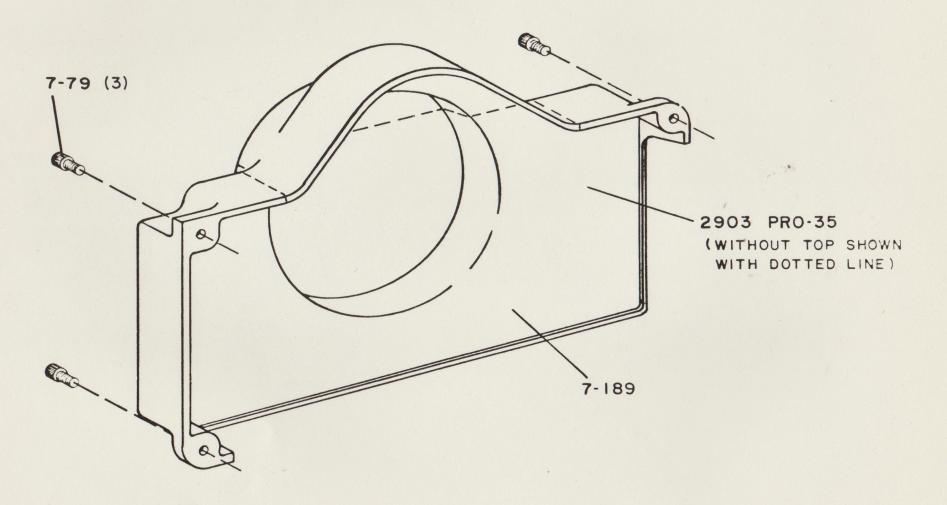
RUNOUT/FAILSAFE SWITCH

Ballantyne has developed the above switch for use with the Model VII Soundhead. It is mounted below the soundhead sprocket and so positioned to sense the film at the film exit slot. The switch design is that of a U-shape with pivoted side arms. A micro-switch is mounted at the base of the U in such a manner that any inward movement of either arm from the normal position of standard film width will cause the circuit to function and shut the system off. Sensing of both sides of the film gives double protection against film stripping or other defects affecting system operation and film damage. The micro-switch is single pole double throw. It can be used in either normally open or normally closed applications. In Ballantyne Systems, the circuit is normally open when film is threaded through the switch. This failsafe is mounted below bottom soundhead sprocket.



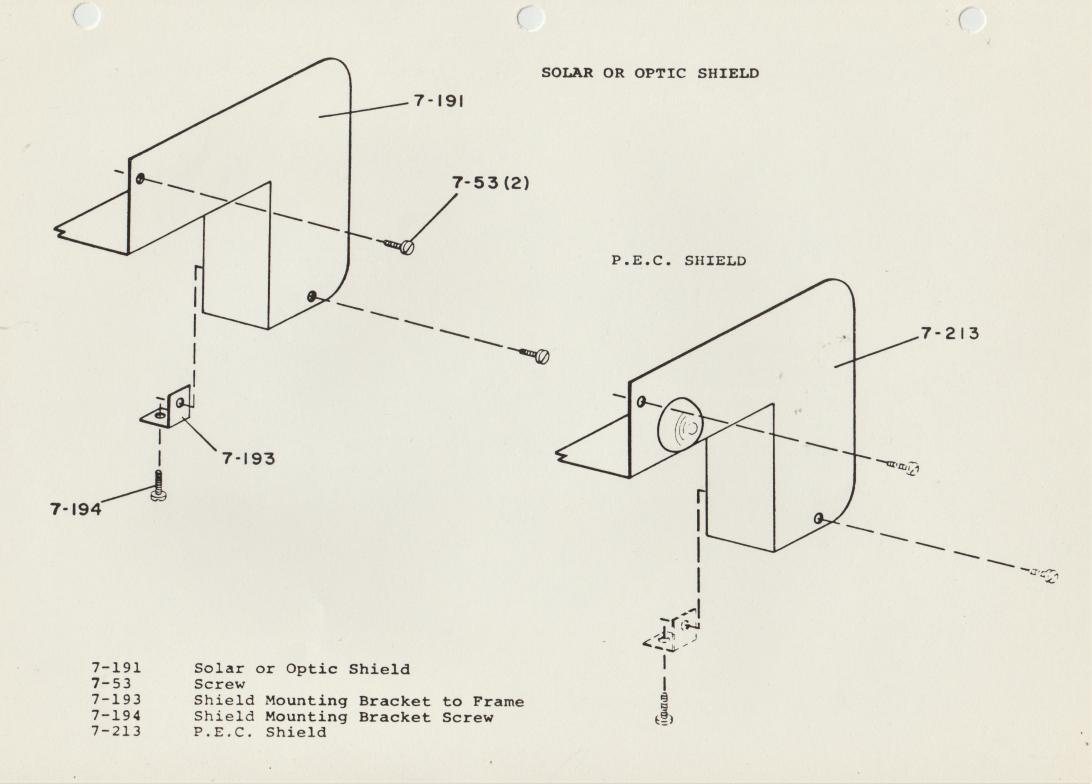


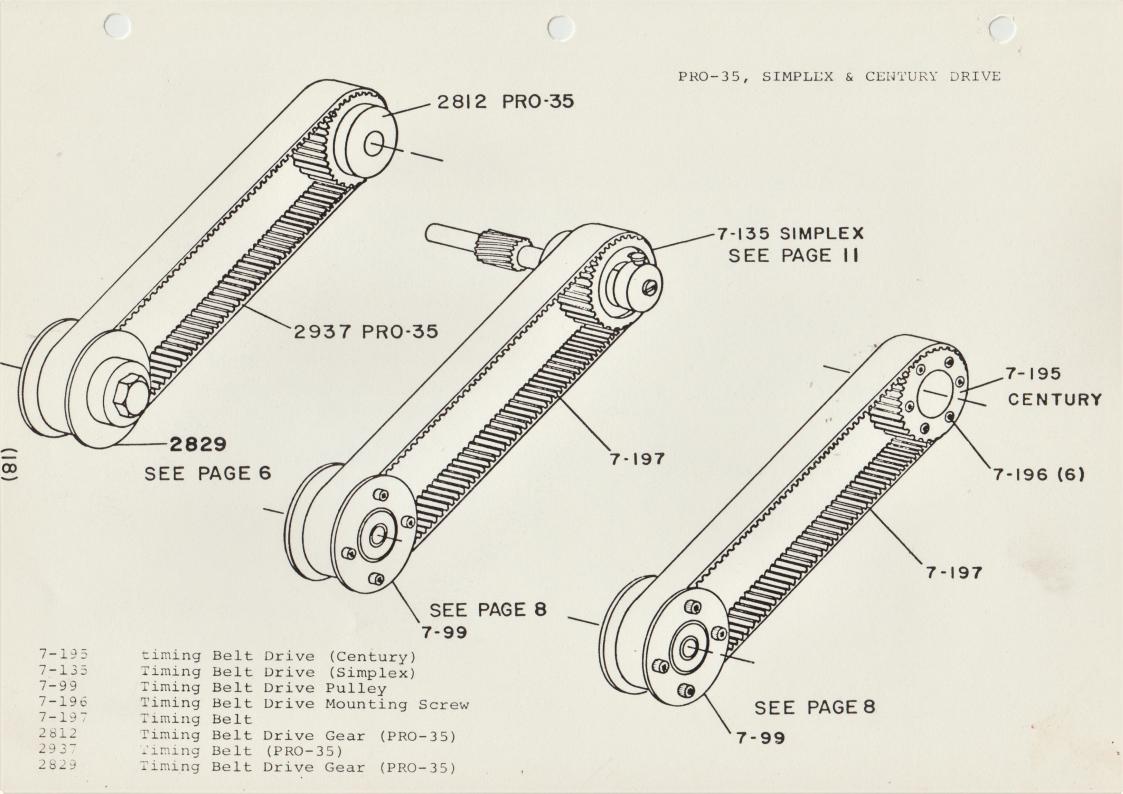


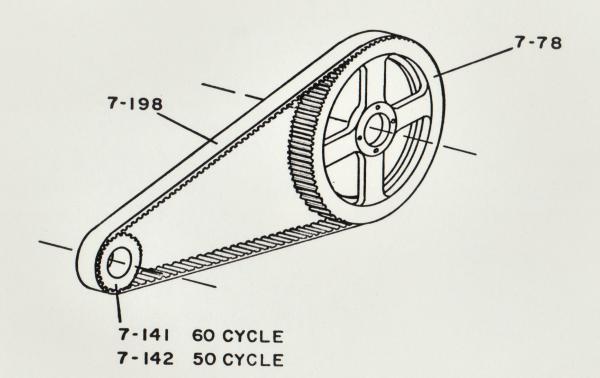


7-189 Back Cover 7-79 Bolt

7-215 Back Cover (Brenkert)







7-78	Drive (Gear					
7-141	Timing	Belt	Motor	Pulley	-	60	Cycle
7-142				Pulley			
7-198	Timing	Belt					

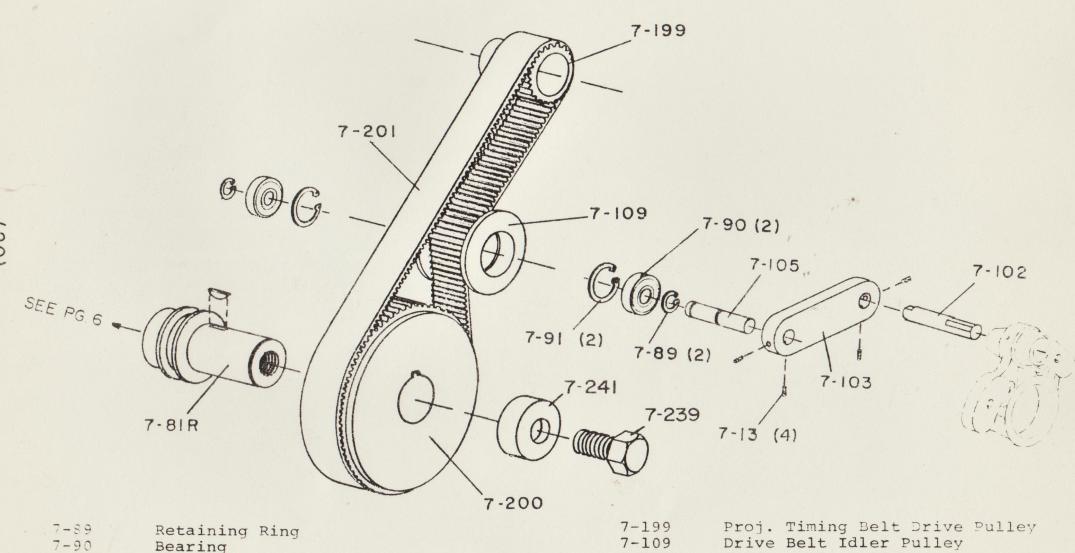
7-91

Retaining Ring

Idler Arm Pin

Idler Arm

Idler Arm Mounting Pin



7-200

7-201

7-81R

7-241

7-239

Timing Belt Pulley

Lower Drive Assembly

Timing Belt

Spacer

Hex Bolt

