

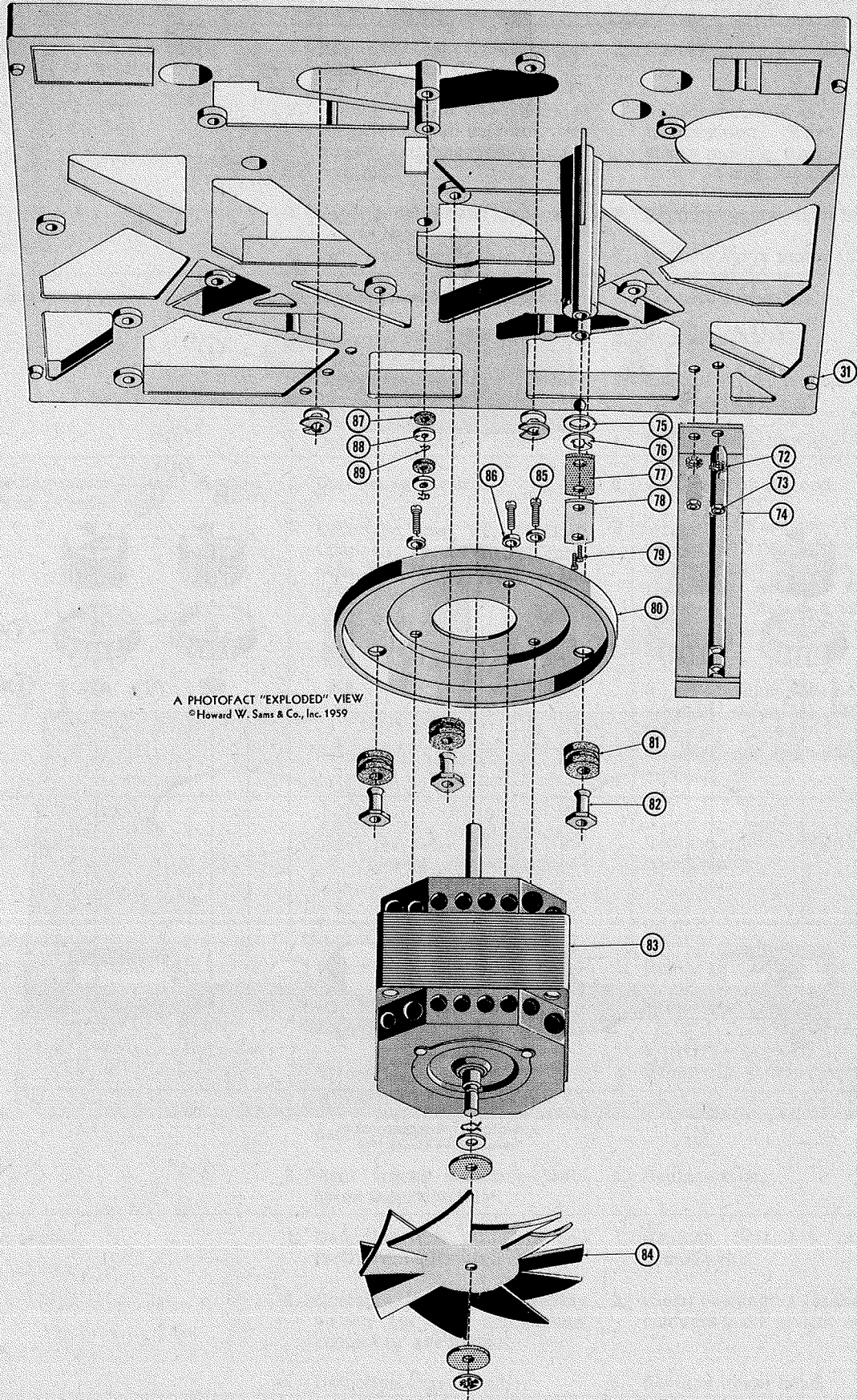
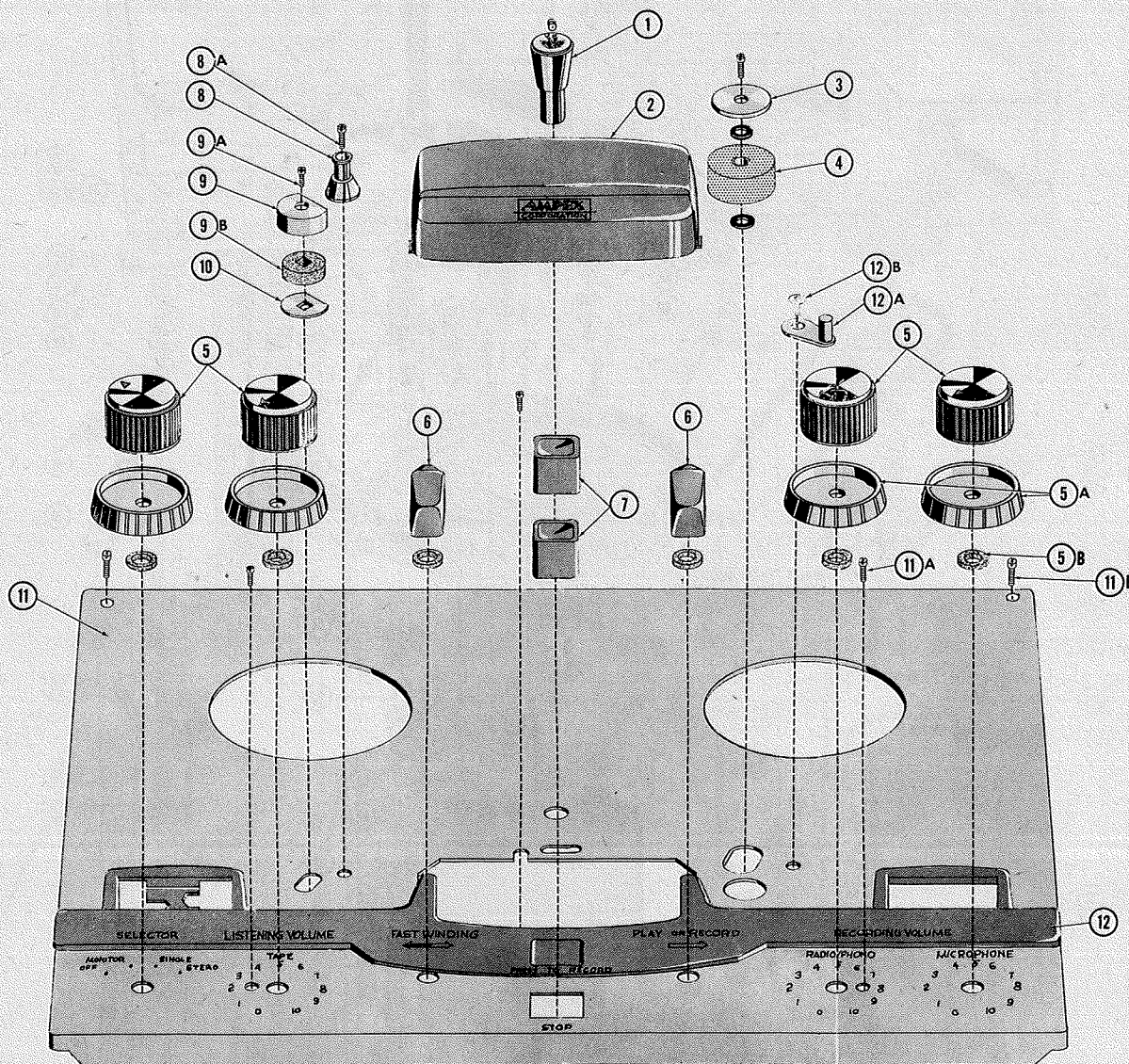


FIG. 4B EXPLODED VIEW OF PARTS BELOW BASEPLATE



A PHOTOFACT "EXPLODED" VIEW
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FIG. 4C EXPLODED VIEW OF PARTS ABOVE COVER ASSEMBLY

TROUBLE CHART(CON'T.)

Symptom	Cause	Remedy
Insufficient braking force. Tape loops when unit is stopped in any mode.	1. Brake lining worn on brake arm assembly (21). 2. Brake arm assembly (21) not free to move with rotation of turntable. Brake de-energizing spring (20) not positioned properly.	1. Replace worn brake lining. 2. Reposition or replace brake de-energizing spring (20).
Wrong take-up tension: tape loops when unit is starting.	1. Take-up "O" ring (24) slips or is broken. 2. Rubber tire on play take-up idler assembly (23) slips or is worn. 3. Defective play take-up spring (27).	1. Clean pulley surfaces; replace "O" ring if necessary. 2. Clean the tire and the take-up turntable; replace play take-up idler assembly (23) if necessary. 3. Replace play take-up spring (27).
Poor high-frequency response.	1. Heads and tape not making proper contact. 2. Improper bias adjustment. 3. Improper head alignment. 4. Faulty reproduce amplifiers. 5. Faulty record amplifier (would be indicated if reproduction is normal).	1. Clean the heads. 2. Adjust the bias. 3. Align the heads. 4. Use standard audio troubleshooting procedures. 5. Use standard audio troubleshooting procedures.
Flutter and wow.	1. Dirt on the components in the tape threading path. 2. Flutter frequency, 21.36 cps at 7 1/2 ips. Flat or dented capstan idler (4). Capstan revolves at 142 rpm. 3. Flutter frequency, 5.7 cps at 7 1/2 ips. Capstan drive belt (33) defective (moves at approximately 343 rpm).	1. Clean these components thoroughly. 2. Replace capstan idler (4). 3. Replace defective capstan drive belt (33). Make sure the drive belt is tracking properly.

AMPEX MODELS
952, 954, 960

MECHANICAL PARTS LIST ABOVE COVER ASSEMBLY

Ref. No.	Part Number		Description
	Grey	Beige	
1	10-0009-1	10-0009-3	Speed Control Button
2	29-0034-3	29-0034-5	Head Cover, With Opening for Head Shift Rod, Universal Playback, Polystyrene
3	29-0032-1	29-0032-3	Capstan Idler Cover
4	04-0020-1	04-0020-1	Capstan Idler Assembly, 1-1/16" dia.

Ref. No.	Part Number		Description
	Grey	Beige	
5	10-0005-5	10-0019	Top Selector Listening; Radio-Phono and Microphone Record Level Control
5A	10-0024	10-0021	Bottom Selector Listening; Radio-Phono and Microphone Record Level Control Knob With Arrow
5B	44-0026-1	44-0026-1	Felt Washer

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MECHANICAL PARTS LIST ABOVE COVER ASSEMBLY (CON'T.)

Ref. No.	Part Number		Description
	Grey	Beige	
6	10-0008-1	10-0008-3	Fast Winding, Play or Record Control Bar Knob With #27-0005 Spring
7	10-0007-1	10-0007-3	Stop and Record Lock Push Buttons
8	21-0004	21-0004	Tape Guide
8A	40-0056	40-0113	4-40 x 3/4" Phillips Screw
9	29-0033-1	29-0033-3	Tape Holdback Cover
9A	40-0055	40-0112	4-40 x 1/4" Phillips Screw
9B	44-0026-2	44-0026-2	Felt Tape Holdback Washer
10	33-0004-1	33-0004-1	Tape Holdback Base

Ref. No.	Part Number		Description
	Grey	Beige	
11			Cover Assembly With Escutcheon Models 952, 954, 960 Stereo Record, Universal Playback With Automatic Stop Assembly
11A			6-32 x 3/8" Screw, Washer #40-0031
11B	40-0080	40-0114	6-32 x 1/4" Rear Cover Plate Screw
12	11-0017-1	11-0017-3	Escutcheon
12A	04-0057-1	04-0057-3	Automatic Stop Arm Assembly
12B			4 x 40 x 1/4" Machine Screw

MECHANICAL PARTS LIST BELOW COVER ASSEMBLY

Ref. No.	Part No.	Description
13	03-0003-1	Fast Wind Pulley Assembly, Includes Pulley, Brake Arm Assembly Fast Wind Holdback Felets
14		"E" Ring Retainer, .187 Shaft
14A	44-0032	Bowed Tension Washer
15	40-0055	4-40 x 1/4" Chrome Screw Turntable Shaft (Grey)
	40-0112	4-40 x 1/4" Brass Screw Turntable Shaft (Beige)
16	31-0001-1	"O" Ring, Fast Forward
17	21-0019-1	Chrome Cap, Turntable Shaft (Grey)
	21-0019-3	Brass Cap, Turntable Shaft (Beige)
18	04-0026-1	Turntable Assembly (Grey)
	04-0026-3	Turntable Assembly (Beige)
19	27-0014-1	Brake Spring, 2 Required
20	27-0016-1	Brake De-energizing Spring
21	04-0030-1	Take-up, Brake Arm Assembly, with #13-0014-1 Lining
22	44-0024-3	Washer
23	03-0005-1	Play Take-up Idler Assembly
24	31-0002	"O" Ring Take-up
25	44-0031	Lock Washer

Ref. No.	Part No.	Description
26	32-0001	Push-on Retainer
27	27-0013-1	Play Take-up Spring
28	40-0054	6-32 x 1/4" Machine Screw
29	14-0001-1	Recording Level Meter (Grey)
	14-0001-4	Recording Level Meter (Beige)
30	27-0010-1	Shuttle Return Spring
31	04-0034-1	Baseplate Subassembly
32	25-0013-1	Pulley, Motor, 60 Cycle, Used with General Industries Motor
	25-0013-2	Pulley, Motor, 50 Cycle, Used with General Industries Motor
	25-0013-3	Pulley, Motor, 60 Cycle, Used with Howard Motor
	25-0013-4	Pulley, Motor, 50 Cycle, Used with Howard Motor
33	31-0004-1	Capstan Drive Belt
34	21-0022-1	Brake Release Control Rod
35	04-0025-1	Capstan Idler Arm
36	27-0025-1	Capstan Idler Spring
37	02-0062-7	Stereo Record, Stereo Erase, Universal Playback (Four-Track Playback)
38	04-0024-1	Capstan Assembly

MECHANICAL PARTS LIST BELOW COVER ASSEMBLY (CON'T.)

Ref. No.	Part No.	Description
39	04-0028-1	Play Control Cam Assembly
40	04-0032-1	Upper Cam Control Arm Assy.
41	04-0031-1	Lower Cam Control Arm Assy.
42	23-0018-1	Shaft Record Cam
43	27-0012-1	Shaft Return Spring
44	03-0004-1	Rewind Idler Assembly
44A	32-0006-1	"E" Ring Retainer, .187 Shaft
45	21-0023-1	Fast Wind Control Rod
46	04-0033-1	Yoke Subassembly, Dual Speed, For Both 60 or 50 Cycle
47	26-0012-1	Detent Bracket
47A	40-0067	Self-Tapping Screw #8-1/4"
48	23-0021-1	Dual Speed Detent and Equalization Wire
49	23-0019-1	Holdback Arm
50	27-0011-1	Holdback Tension Spring
51	23-0020-1	Brake Lever
52	04-0028-1	Play Control, Cam Assembly
53	23-0016-1	Interlock Shuttle
53A	40-0054	6-32 x 1/4 Phillips Machine Screw
53B	44-0029-3	Washer
54		
55	23-0017-1	Shaft Stop Cam
56	31-0003	"O" Ring Position Indicator
57	04-0023	Worm Pulley Assembly
57A	32-0007	Hairpin Retainer Steel
57B	44-0027-3	Cambric Washer
57C	24-0003	Worm Counter Drive Spring
57D	44-0027-3	Cambric Washer
58	27-0004-1	Retainer Spring
59	13-0016-1	Retainer Pad
60	03-0001-1	Counterdrive Jack Shaft Assy.
61	02-0042-2	Position Indicator Assy. (Grey)
	02-0042-4	Position Indicator Assy. (Beige)
62	44-0027-3	Cambric Washer

Ref. No.	Part No.	Description
63	27-0003-1	Position Indicator Latch Spring
64	27-0004-1	Retainer Spring
65	23-0002-1	Latch Escapement
66	04-0021-2	Mu-Metal Head Cover
67	21-0020-1	Play Take-up Control Rod
68	21-0021-1	Holdback Tension Control Rod
69	40-0054	6-32 x 1/4" Screw
70	02-0059-1	Automatic Stop Assembly (Available As a Complete Assembly Only). Does Not Include Shutoff Lever Arm or Screw. See Ref. No. 12A and 12B
71	21-0033-1	Head Shift Rod, Operates Head Shift Post and Plate Assembly #04-0058
72		Washer; Included With Ref. No. 73
73	42-0004	Keyp Nut With Washer
74	26-0013-1	Transport Mounting Bracket
75	44-0027-2	Cambric Washer
76	32-0008	"E" Ring Retainer
77	33-0007-1	Capstan Thrust Retainer, Nylon
78	33-0007-2	Capstan Thrust Retainer, Steel
79	40-0065-1	6-32 x 3/8" Screw, Washer No. 40-0031 Needed
80	33-0005-1	Motor Assembly Mounting Plate
81	13-0017	Motor Shock Mounts
82	42-0016-1	Sleeve Nut
83	59-0001-1	Drive Motor, General Industries
	59-0001-3	Drive Motor, Howard Industries
84	25-0003	Motor Fan
85	40-0063	8-32 x 5/16" Phillips Screw
86	44-0031	Washer
87	44-0030	Rubber Washer
88	44-0029-2	Steel Washer
89	32-0007	Hairpin Retainer

AMPEX MODELS
952, 954, 960

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