

JOHN MANGAN
EXT 375

SERVICE MANUAL

FOR

**Stereo Cassette Tape Player
with
AM/FM Stereo
Push button Radio**

ASI MODEL DB-9300



**audio systems
incorporated**

909 E. Broadway / Louisville, Ky. 40204 / (502) 583-1761

http://www.triumphwedgeweavers.org
Courtesy John Mangan

SPECIFICATIONS

AM RADIO SECTION

Frequency Range	535 kHz ~ 1605 kHz
Maximum Sensitivity	10 μ V
Signal to Noise Ratio	45 dB
Image Rejection	65 dB
Intermediate Frequency	455 kHz

FM RADIO SECTION

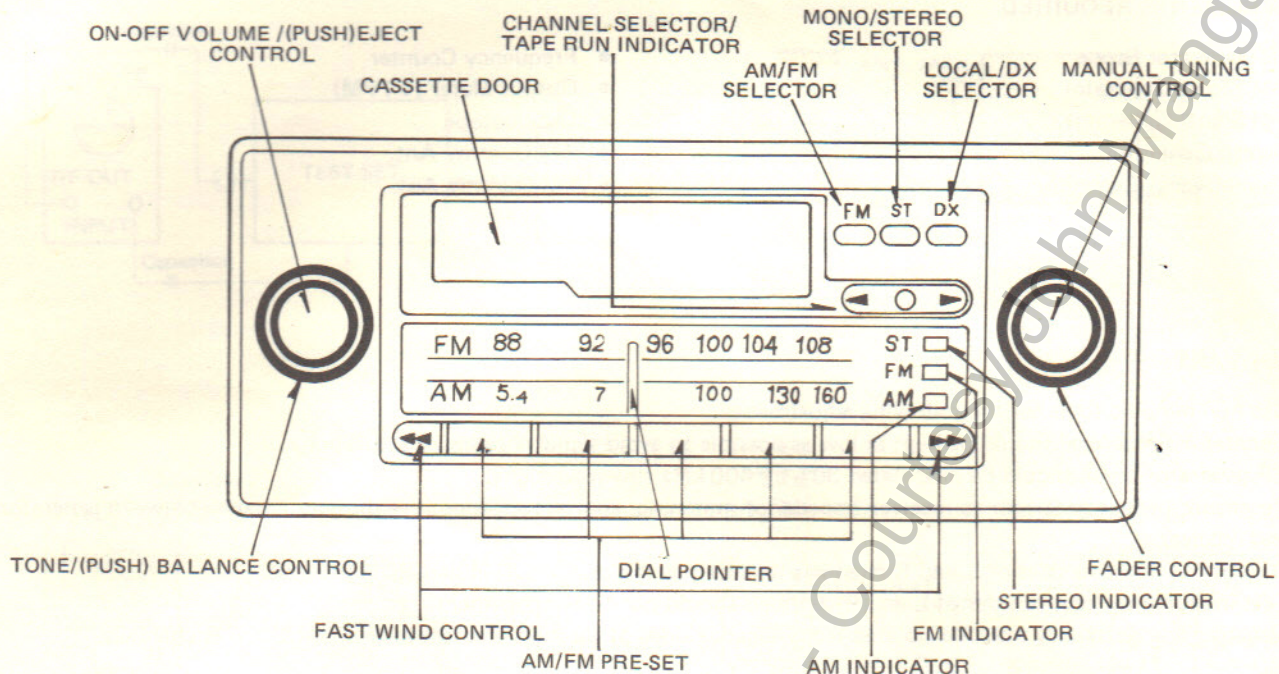
Frequency Range	88 MHz ~ 108 MHz
Limiting Sensitivity	6 μ V
Sensitivity at S/N 30 db	3 μ V
Signal to Noise Ratio	60 dB
Image Rejection	50 dB
FM MPX Separation	30 dB (400 Hz)
Intermediate Frequency	10.7 MHz
Output Power	4 W + 4 W (5% T.H.D)
Power Consumption	28 W max.
Power Supply Required	DC14.4 V (11 V ~ 16 V) NEG BND

FEATURES

- On-Off Volume Control
- Tone Control
- Four Way Balance: Fader Front to Rear
Balance Left to Right
- 5 x 10 Pushbutton Tuning: Preset 5 FM Stations
Preset 5 AM Stations
- Mono/Stereo Switch
- Local/Distant Switch
- AM/FM Switch
- Stereo Indicator
- Auto-reverse tape play
- Locking fast winding
- Tape run indicator
- AM indicator
- FM indicator
- Stereo indicator

NOTE: Specifications and design subject to possible modification without notice due to improvements.

OPERATING INSTRUCTIONS



ON-OFF VOLUME/(PUSH)EJECT CONTROL

Rotate the knob clockwise to turn on the unit. Rotate the knob further to increase the volume of left and right speaker. On tape operation, push the knob to stop the playback and/or eject the cassette.

TONE/(PUSH) BALANCE CONTROL

Turn clockwise to increase treble, counterclockwise to increase bass.

PUSH—Balance:

Push and turn left to increase volume of left speaker, and vice versa.

FADER CONTROL

Rotate the knob to adjust relative volume of front and rear speakers.

MANUAL TUNING CONTROL

Turn to select a desired AM or FM broadcast.

CASSETTE DOOR

Insert a cassette through the door with the tape side to the right, and the tape starts playing.

AM/FM SELECTOR

Push the selector for FM, release for AM.

MONO/STEREO SELECTOR

Push and lock the button for stereo; push the button again to release for mono mode reception, when a stereo broadcast is noisy and meager to listen.

STEREO INDICATOR

Stereo indicator lights when in the FM stereo mode.

LOCAL/DISTANT SWITCH

Push and lock the button for reception of weak signal station (Distant); push the button again to release for nearby station (Local) or to reduce interference from adjacent stations.

CHANNEL SELECTOR/TAPE RUN INDICATOR

Push the selector to change the direction of tape travel. Tape run indicator lights to show the direction of tape travel when in the tape operation.

FAST WIND CONTROL

Push and lock the fast wind button on the side indicated by illuminated arrow of the tape run indicator to rapidly advance the tape. To rewind the tape, depress the opposite side button. In either case, push the opposite button half-way to return the unit to normal play mode.

DIAL POINTER

Shows the station being received.

AM/FM PRESET

Pull one of the five buttons out to neutral, select a desired station with the Manual Tuning Control knob, and push the button back to preset a station. Follow the same procedures for the rest of the pushbuttons to preset up to five AM and five FM stations.

FM INDICATOR

FM indicator lights when an FM broadcast is being received.

AM INDICATOR

AM indicator lights when an AM broadcast is being received.

ALIGNMENT PROCEDURE

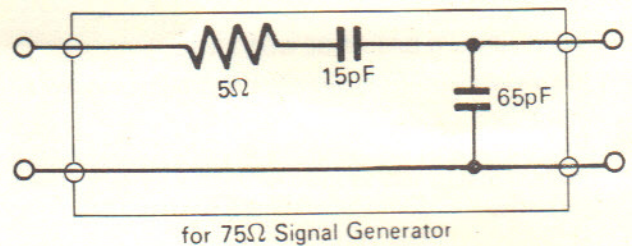
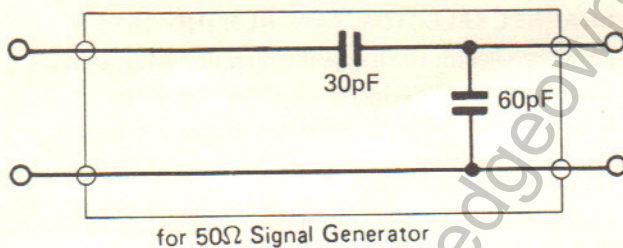
INSTRUMENTS REQUIRED

- IF Generator Scope
- AM Signal Generator
- FM Signal Generator
- Sweep Generator
- Stereo Signal Generator
- Frequency Counter
- Output Meter (VTVM)
- Oscilloscope
- AM Dummy Ant.
- FM Dummy Ant.

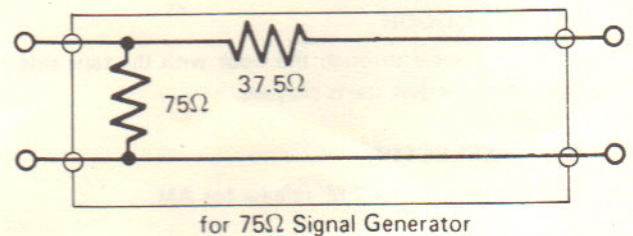
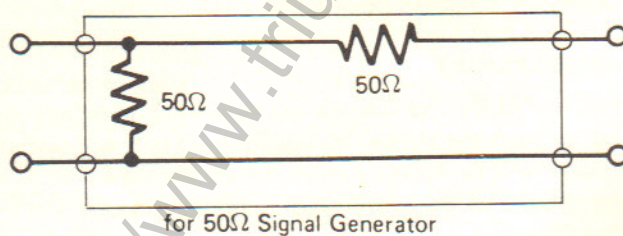
IMPORTANT

- Use non-metallic tools for the following adjustments.
- Generator signal level should be kept as low as possible to avoid signal clipping or saturation.
- RF generator signal should be modulated 30% by 400 kHz sine-wave signal.
- To ensure proper generator-to-receiver impedance matching, connect appropriate dummy antenna between generator and receiver.
- Do not put negative sides of L and R channels together, as this may result in damaging the unit. Test instrument negative sides of L and R channels should not be put together.
- Negative side of battery must be isolated from negative sides of speakers and test instrument L and R channels.

AM Dummy Antenna



FM Dummy Antenna



TEST HOOKUP DIAGRAM

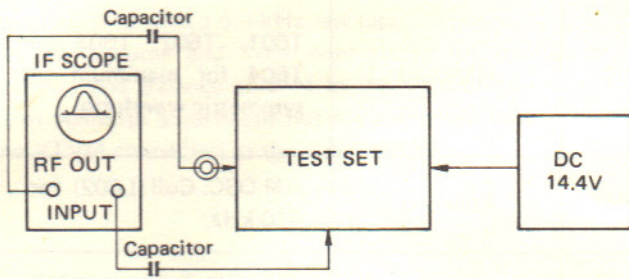


Fig. 1

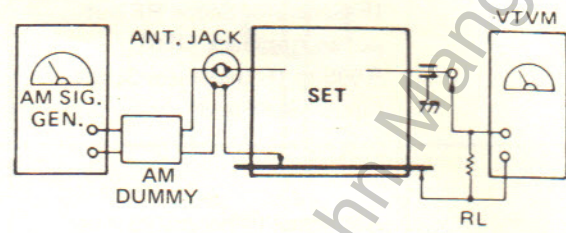


Fig. 2

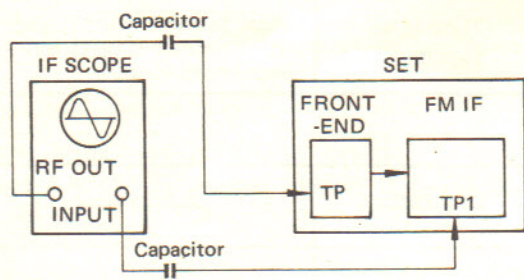


Fig. 3

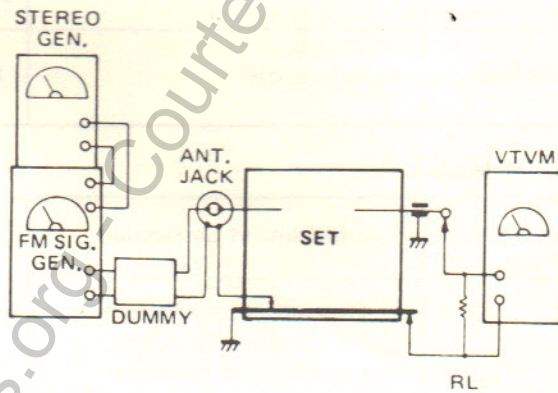


Fig. 4

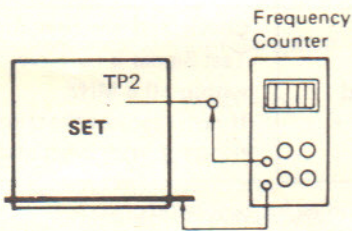


Fig. 5

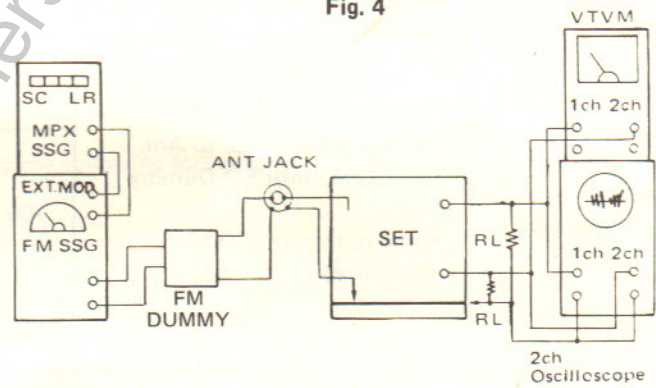


Fig. 6

ALIGNMENT POINTS ON IF P.C. BOARD

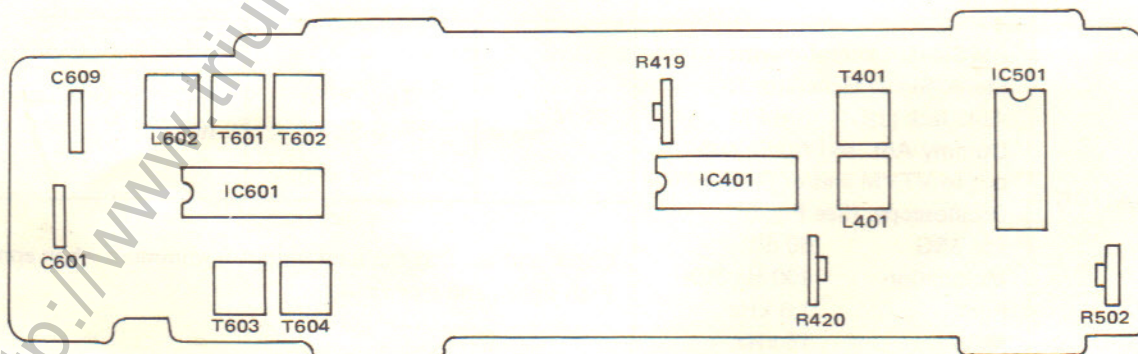


Fig. 7

AM ALIGNMENT

Alignment	Instrument Connection	Generator Frequency	Dial Setting	Adjustment	Step
IF	IF Generator Scope RF output to Ant. Jack (J301) R605 to IF Generator Scope input. (See Fig. 1)	455 kHz	High end	T601, T602, T603 and T604 for maximum and symmetric waveform.	1
BAND COVER	AM Signal Generator to Ant. Jack (J301) thru AM Dummy Ant. Audio output to VTVM. (See Fig. 2)	510 kHz	Low end	AM OSC. Coil (L602) for 510 kHz.	2
		1640 kHz	High end	AM OSC. Trimmer (C609) for 1640 kHz	3
		Repeat Steps 2 and 3 two or three times for best result to cover 510 ~ 1640 kHz.			
TRACKING	Same as above.	1400 kHz	Tune in to Test Signal	Ant. Trimmer (C631) and RF Trimmer (C601) for maximum output.	5

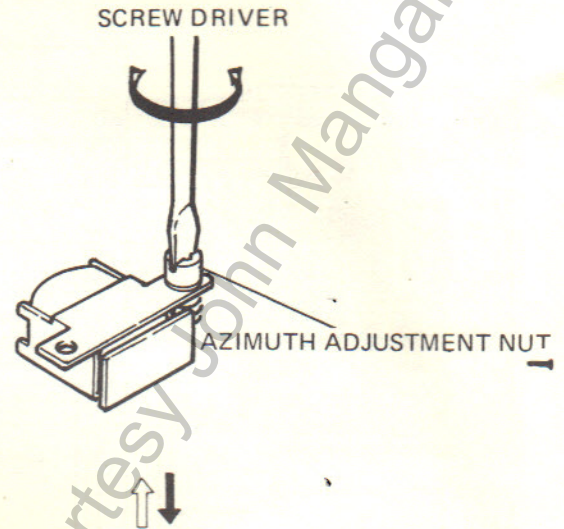
FM ALIGNMENT

Alignment	Instrument Connection	Generator Frequency	Dial Setting	Adjustment	Step
IF	IF Generator Scope RF output to TP in the Front-end. FM IF TP1 to IF Generator Scope input. (See Fig. 3)	10.7 MHz	Quiet area near high end	T401 for maximum and best symmetric waveform	1
BAND COVERAGE	FM Signal Generator to Ant. Jack (J301) thru FM Dummy Ant. Audio output to VTVM. (See Fig. 4)	87.3 MHz	Low end	FM OSC. Trimmer for 87.3 MHz.	2
		109.5 MHz	High end	Check and see that the Test Signal is received within ± 0.5 MHz. If not, readjust the trimmer for 87.3 +0.2, -0.3 MHz.	3
		Repeat Step 2 two or three times for best band coverage.			
19 kHz FREQ.	FM TP2 to Frequency Counter. (See Fig. 5)	No input signal is required. Use a Frequency Counter with the impedance greater than 100 k Ω .		R502 for 19,000 Hz ± 50 Hz.	4
SEPARATION	FM Signal Generator with Stereo Signal Generator to Ant. Jack (J301) thru FM Dummy Ant. and Audio output to VTVM and/or Oscilloscope. (See Fig. 6) FM SSG Modulation 60 dB 400 Hz 30% Pilot 7.5 kHz Main 15 kHz	98 MHz	Tune in to Test Signal	R420 for best Separation.	5
		Check and see that the L-ch output is minimum when applying R-ch signal, and vice versa.			

TAPE DRIVE ADJUSTMENT

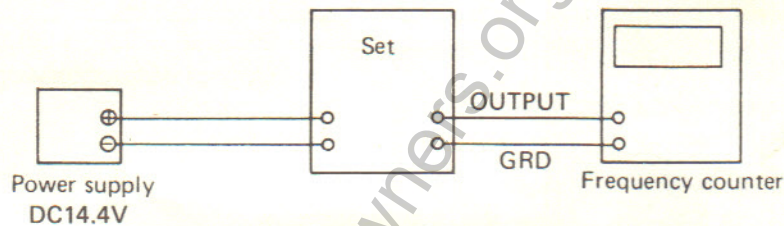
Head Azimuth Adjustment

Load the unit with a 6.3 kHz test tape.
Set the Volume and Tone controls to the maximum position and Balance control to the mechanical center.
Turn Azimuth adjustment nut for maximum output on the VTVM connected to the audio output.



Tape Speed Adjustment

Load the unit with a 3 kHz test cassette.
Take a frequency counter reading. It should be 3 kHz.
If not, adjust the R358.



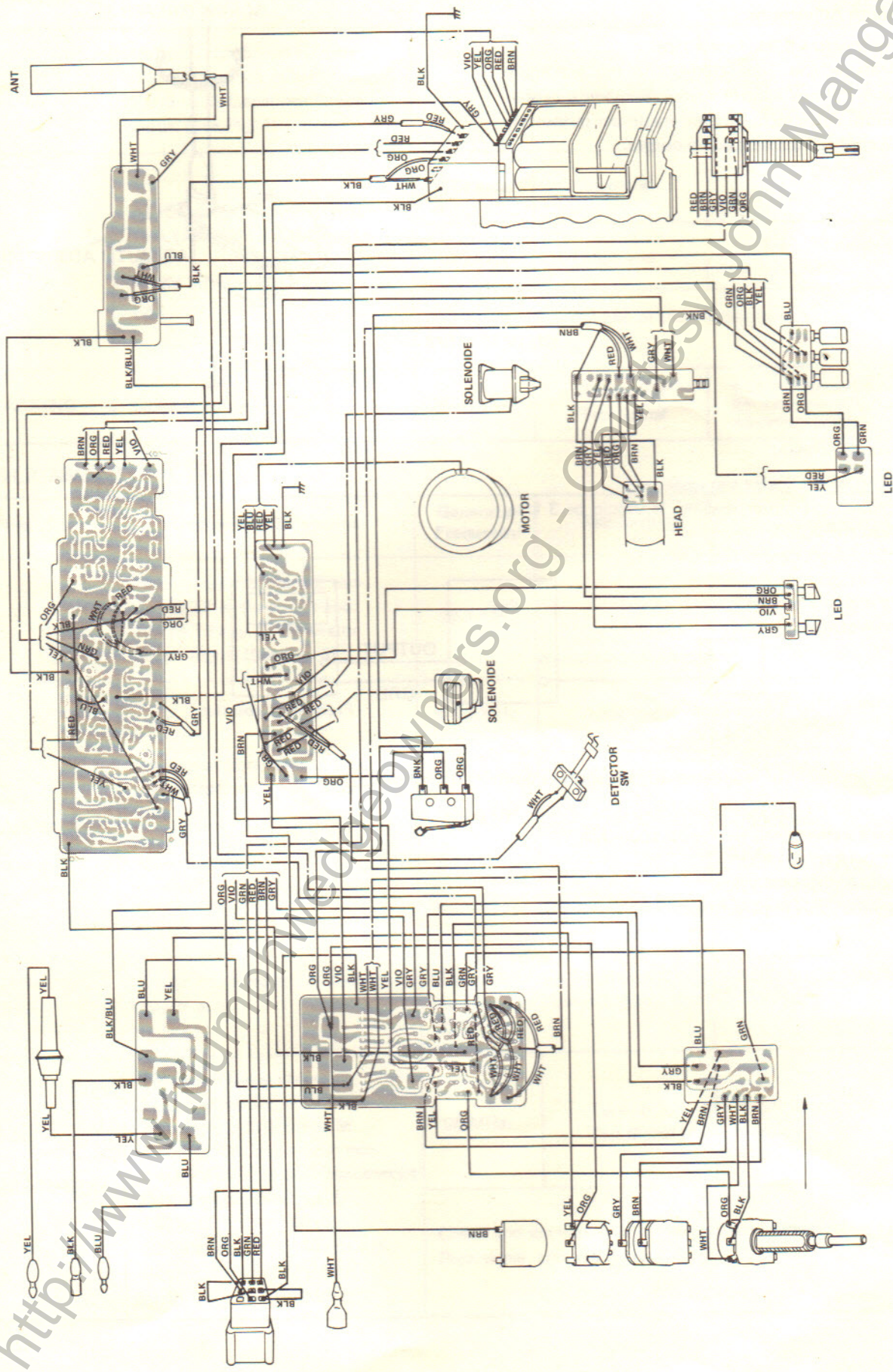
Required advancement or retardation of tape speed is given by the following formula.

$$\frac{3000 - fx}{3000} \times 100 = X\%$$

fx = counter displayed value.

X = required value in percentage.

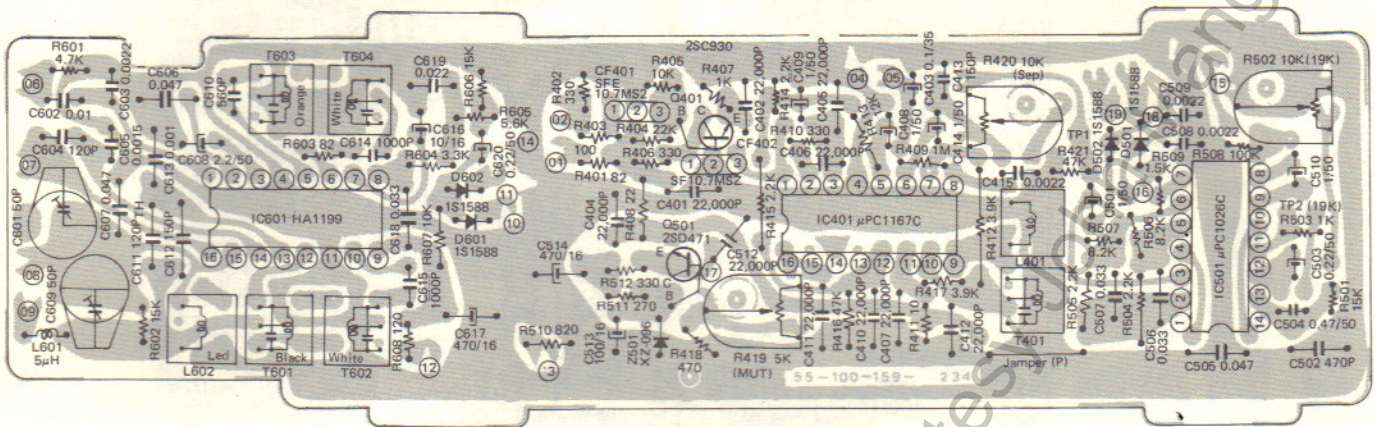
LEAD CONNECTION



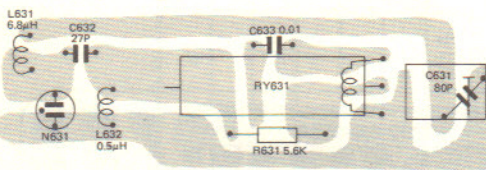
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WIRING BOARD LAYOUT

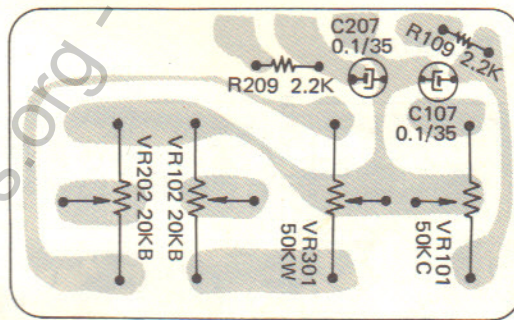
IF P.C. BOARD



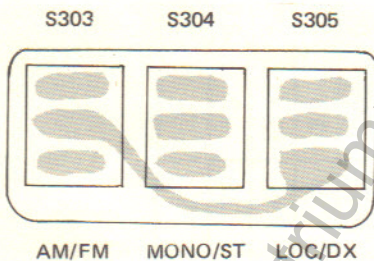
ANT. P.C. BOARD



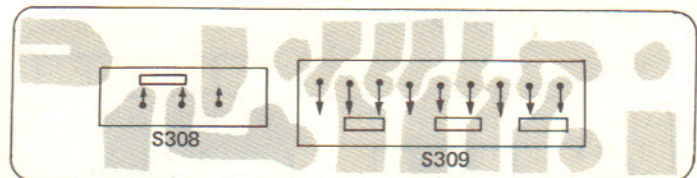
VOLUME P.C. BOARD



SW. P.C. BOARD

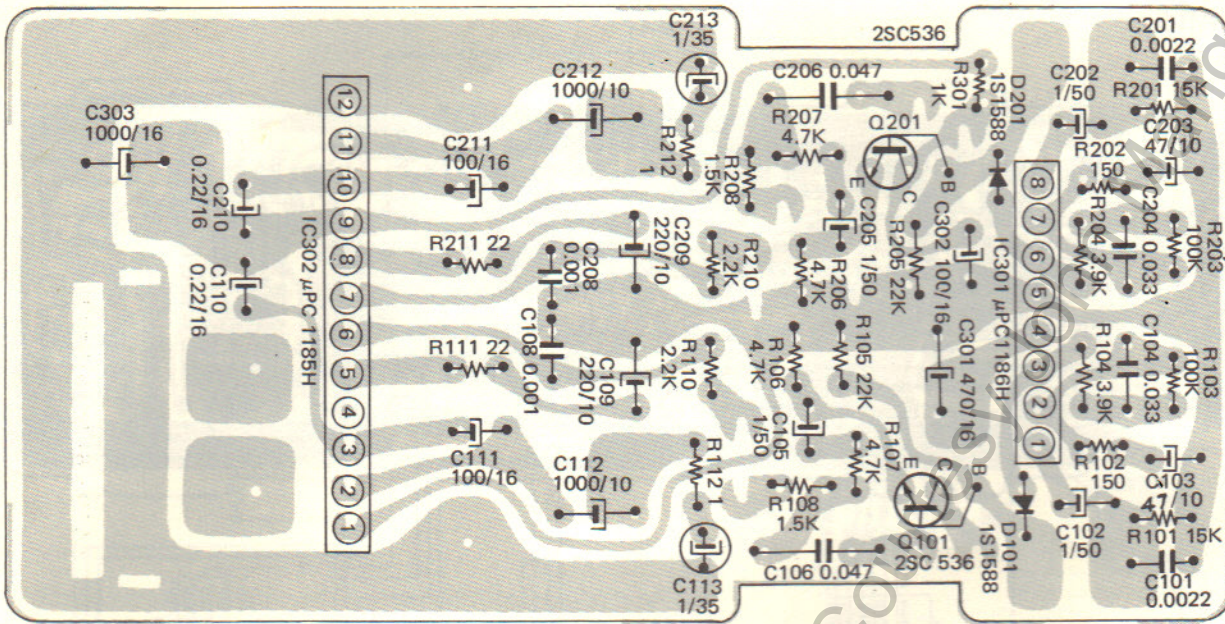


SW. P.C. BOARD

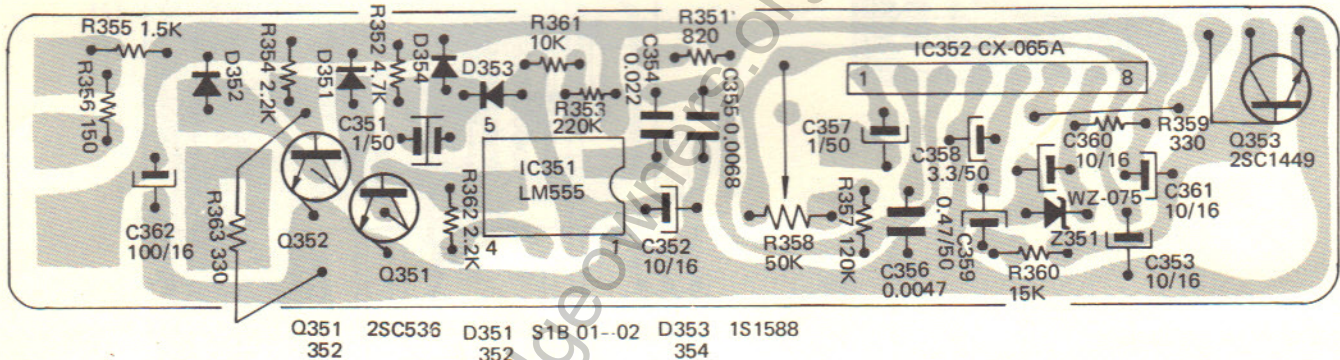


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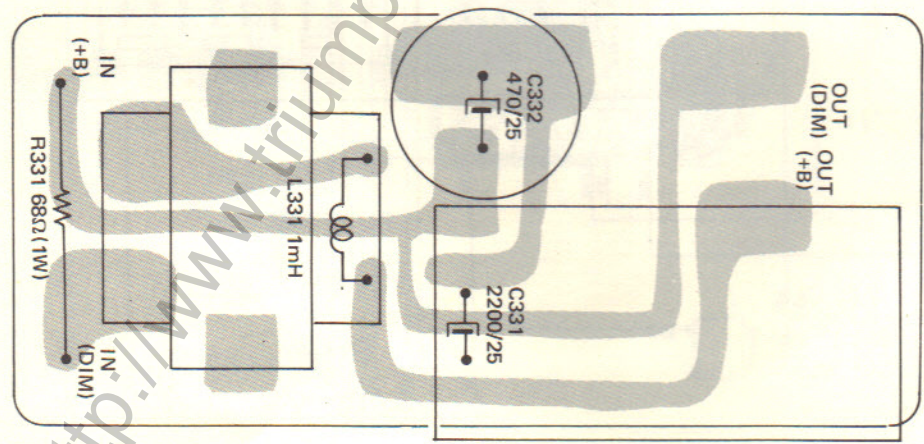
AMP P.C. BOARD



CONTROL P.C. BOARD



FILTER P.C. BOARD



IC	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC301		1.25	0.75	7.0	9.0	0	7.3	0.75	1.25								
IC302		0	0.4	13.2	2.0	1.2	0	0	1.2	14.4	13.2	7.2z	0				
IC351		0	4.35	13.0	1.0	9.6	4.35	4.8	14.4								
IC352		0.7	0.55	1.05	0	1.8	0.6	8	4.75								
IC401		2.1	2.1	2.1	0	1.48	5.3	5	5	5	5	8.7	5.4	0.75	0	5	3.9
IC501		9.0	2.1	4.8	6.8	6.8	13.0	0	2.15	2.15	1.6	2.15	2.15	2.15	2.8		
IC601		2.2	0.92	0.3	0	8.0	0.7	1.6	1.7	12.7	2.1	0	11.8	3.5	1.35	11.8	11.8

NOTE: These voltage measured with V.T.V.M at no signal input.

TR	PIN	E	B	C
Q351		0	0.84	0.12
Q352		0	0.85	0.15
Q401		0.95	1.65	8.5
Q501		9.0	9.6	14.4

REPLACEMENT PARTS LIST

Ref. No.	Part No.	ASI Part No.	Description	Q'ty	Ref. No.	Part No.	ASI Part No.	Description	Q'ty
101	12-131-022	5121101-003	Nosepiece	1		38-141-112-0	5120903-001	(Used After ID#15000)	
102	20-121-022	5120606-005	Cabinet - top	1	137	38-141-068	5120607-032	Holder - SW	2
103	20-121-023	5120606-006	Cabinet - bottom	1	138	20-010-012	5120607-033	Clamp - lead wire	4
104	20-121-025	5120606-007	Main Frame	1	139	34-141-462-0	5122508-001	Holder - lamp	1
105	20-131-102	5120606-008	Back Plate	1				(Used After ID#15000)	
106	20-131-103		Bracket - dial scale	1	140	34-131-111	5120607-041	Light Disseminating Plate	1
		5120607-020	(Used Before ID#15000)		301	52-056-033-0	5120102-001	LED (green)	1
		5120612-001	(Used After ID#15000)					(Used Before ID#15000)	
107	20-141-360	5120801-001	Cassette Door	1		65-101-263-0	5122501-002	Lamp No. 263	3
108	20-141-361	5123601-002	Heat Sink	1				(Used After ID#15000)	
109	20-141-362	5120607-021	Bracket - SW	1	302	52-056-034-0	5120102-002	LED (yellow)	1
110	20-141-363	5120607-022	Back Screen	1	303	52-056-072-0	5120102-003	LED (green)	2
					304	52-056-073-0	5120102-004	LED (orange)	1
111	20-141-366	5122101-002	Dial Pointer	1	305	58-010-237-0	5122412-001	Push Switch No. 237	3
112	20-141-391	5120607-023	Bracket - transistor	1	306	59-010-045-1	5121601-002	ANT Jack W/cable	1
113	20-499-023	5120603-004	Tab Washer - control shaft	2	307	62-010-428-0	5120304-001	9P Connector	1
114	20-883-015	5120607-024	Clamp - power harness	2	308	65-010-248-0	5122501-001	Lamp No. 248	1
115	25-141-121	5120605-001	Shaft A - door	1	309	76-010-075-1	5121804-002	AM/FM 5-Button Tuner	1
116	25-141-122	5120605-002	Shaft B - door	1	310	86-910-087-0		Vol-BAL Tone Control	1
117	25-141-199	5120607-025	Stud - back panel/main frame	2			5121901-003	(Used Before ID#13000)	
118	26-141-075	5120603-005	Washer - door shaft	1			5121901-004	(Used After ID#13000)	
119	34-010-006	5120607-026	Tuning Coupling	1	311	87-030-028-1		Fader Control	1
120			Dial Scale	1			5122002-003	(Used Before ID#13000)	
	34-141-354	5120901-004	(Used Before ID#15000)				5122004-004	(Used After ID#13000)	
	34-141-463	5120901-005	(Used After ID#15000)		312	96-501-008-0	5120501-005	Trimmer 80PF	1
121	34-141-355	5120704-001	Button - F.F.	2	313	97-100-138-0	5123902-011	P.C. Board (AMP) - complete	1
122	34-141-356	5120711-001	Button - FM/ST/DX	3	314	97-100-139-0	5123902-012	P.C. Board (VOL) - complete	1
123	34-141-357	5121001-003	Preset Button	5	315	97-100-142-1	5123902-013	P.C. Board (ANT) - complete	1
124	34-141-358	5120607-027	Frame - LED	1	316	97-100-143-0	5123902-014	P.C. Board (SW) - complete	1
125	34-141-359	5120607-028	Coupling - ANT. trimmer	1	317	97-100-145-1	5123902-015	P.C. Board (LED) - complete	1
								(Used Before ID#15000)	
126	34-595-018	5120607-029	Tuning Coupling	2		55-100-148-0	5123901-002	P.C. Board (Lamp) - complete	1
127	34-710-010	5122507-001	Lamp Holder	1				(Used After ID#15000)	
128	38-931-550	5120607-030	Vinyl Tube	1	318	97-100-146-0	5123902-016	P.C. Board (SW) - complete	1
129	36-141-157	5013704-007	Label - lead indicator	1	319	97-100-147-1	5123902-017	P.C. Board (Filter) - complete	1
130	36-141-248	5013702-027	Label - serial	1	320	97-100-159-1	5123902-018	P.C. Board (IF) - complete	1
					321	97-100-177-0	5123902-019	P.C. Board (control) - complete	1
131	36-141-268	5013701-017	Label - ANT trimmer	1	322		5120302-001	Power Lead Ass'y (Yellow)	1
132	36-141-269	5013701-018	Label - ID	1	323		5120306-001	Ground Lead Ass'y (Black)	1
133	37-141-031	5120604-003	Spring No. 31	1	324		5120303-001	Pilot Light Lead (Blue)	1
134	37-141-032	5120604-004	Spring No. 32	2	325		5120305-001	Power Antenna Lead (White)	1
135	38-141-062	5120607-031	Fiber Sheet	1					
136	38-141-067	5120606-009	Back Plate - dial scale	1					
			(Used Before ID#15000)						

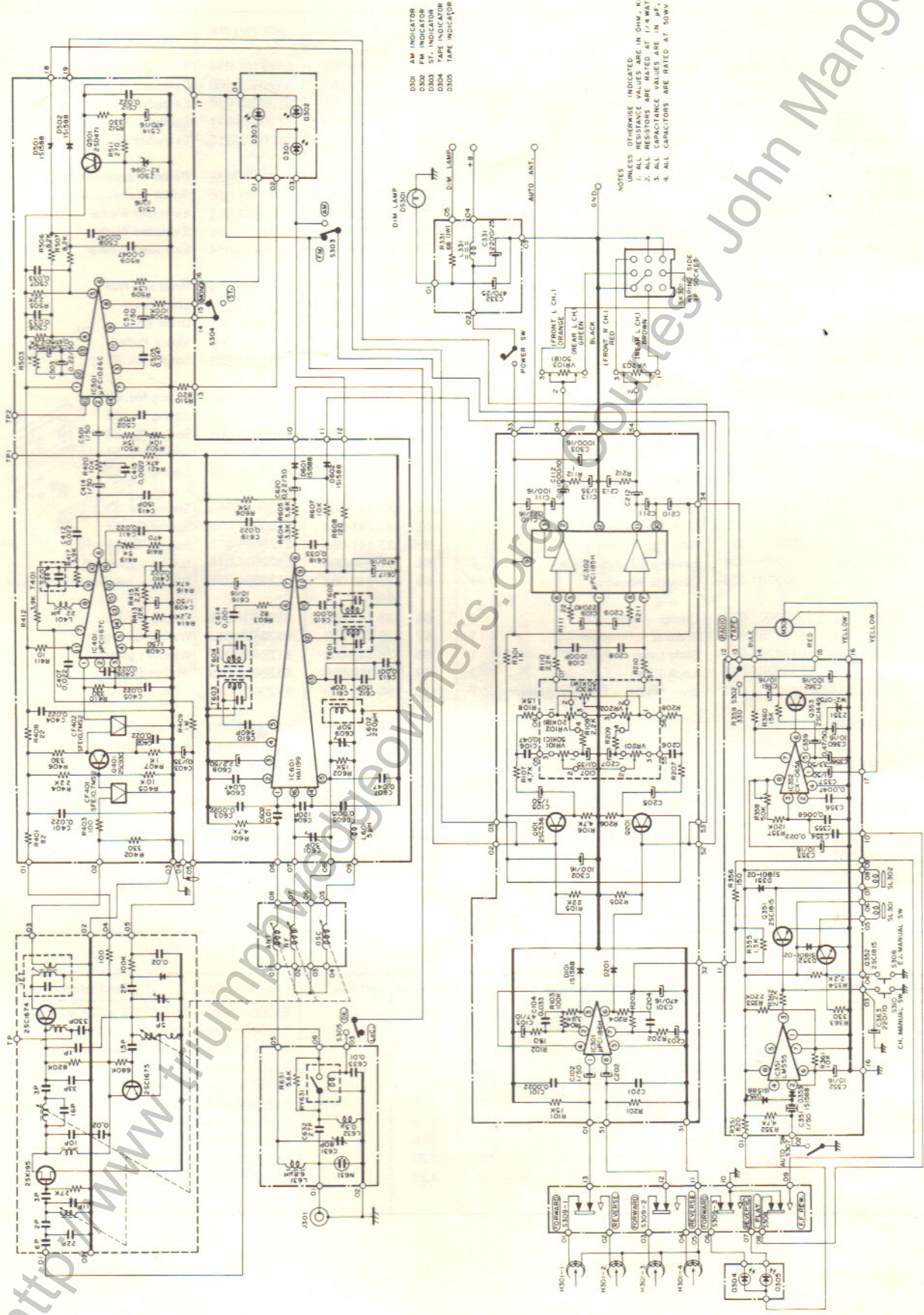
Ref. No.	Part No.	ASI Part No.	Description	Q'ty	Ref. No.	Part No.	ASI Part No.	Description	Q'ty
X101		5120601-019	Screw BMS M2.6 x 4	9	X108		5120601-025	Screw PTS-3 M2.6 x 5	2
X102		5120601-020	Screw BMS M2.6 x 5	3	X109		5120601-026	Screw PMS w/SW M2.6 x 4	4
X103		5120601-019	Screw BMS M2.6 x 4	3	X110		5120601-027	Screw w/SW M2.6 x 5	3
X104		5120601-021	Screw FMS M2.6 x 4	3	X111		5120601-028	Screw PMS w/SW M3 x 6	2
X105		5120601-022	Screw FMS M3 x 5	1	X112		5120601-029	Screw PMS w/SW M3 x 8	3
X106		5120601-023	Screw PTS-2 M2 x 4	3	X113		5120601-020	Washer ϕ 3	2
X107		5120601-024	Screw PTS-3 M2.6 x 3	2					

REPLACEMENT PARTS LIST

Ref. No.	Part No.	ASI Part No.	Description	Q'ty	Ref. No.	Part No.	ASI Part No.	Description	Q'ty
1	12-121-007	5122701-001	Main Chassis	1	41	26-141-059	5122701-034	Roller - REW lever	1
2	12-131-024	5122701-002	Bracket - gear	1	42	26-141-060	5120603-009	Extruded Washer	1
3	12-131-026	5122701-003	Bracket - slide plate	1	43	26-141-061	5120603-010	Extruded Washer	3
4	12-131-027	5122701-004	Slide Plate	1	44	26-141-062	5120603-011	Extruded Washer	2
5	12-131-028	5122701-005	Slide Plate - cassette	1	45	26-141-063	5120603-012	Extruded Washer	1
6	12-131-029	5122701-006	Bracket - cassette arm	1	46	26-141-066	5122701-035	Roller - cassette slider	1
7	12-141-220	5122701-007	Lever - F.F.	1	47	26-141-069	5122701-036	Roller - slide plate	2
8	12-141-221	5122701-008	Lever - REW	1	48	26-141-070	5120603-013	Extruded Washer	4
9	12-141-222	5122701-009	Head Chassis	1	49	26-141-071	5120603-014	Extruded Washer	1
10	12-141-223	5122701-010	Reel Base - forward	1	50	26-141-072	5120603-015	Extruded Washer	2
11	12-141-226	5122701-011	Pinch Roller - reverse	1	51	29-595-001	5120602-001	Head adj. Nut	1
12	12-141-227	5122701-012	Pinch Roller - forward	1	52	34-131-054	5122701-037	Lock Lever	1
13	12-141-228	5122701-013	Flywheel - forward	1	53	34-141-348	5121401-001	Drive Belt	1
14	12-141-229	5122701-014	Flywheel - reverse	1	54	34-141-349	5122704-001	Motor Pulley	1
15	12-141-230	5122701-015	Cam Gear	1	55	37-141-037	5120604-005	Spring No. 37	1
16	12-141-231	5122701-016	Lever - reverse	1	56	37-141-038	5120604-006	Spring No. 38	1
17	12-141-232	5122701-017	Lock Plate - cam gear	1	57	37-141-042	5120604-007	Spring No. 42	1
18	12-141-233	5122701-018	Bracket - head switch	1	58	37-141-050	5120604-008	Spring No. 50	1
19	12-141-234	5122701-019	Slide Plate - solenoid plunger	1	59	37-141-051	5120604-009	Spring No. 51	1
20	12-141-237	5122701-020	Arm - F.F.	1	60	37-141-052	5120604-010	Spring No. 52	1
21	12-141-240	5122701-021	Lever - solenoid plunger	1	61	37-141-053	5120604-011	Spring No. 53	1
22	12-141-247	5122701-022	Slide Plate - eject	1	62	37-141-054	5120604-012	Spring No. 54	1
23	12-141-250	5122701-023	Reel Base - reverse	1	63	37-141-055	5120604-013	Spring No. 55	1
24	12-141-256	5122701-024	Lever - E.J. slide plate	1	64	37-595-008	5120604-014	Spring - head adj.	1
25	12-141-261	5122701-025	Cassette Housing	1	65	37-840-005	5120604-015	Spring - head chassis pressure	1
26	20-010-012	5120607-033	Clamp - lead wire	2	66	37-141-035	5120604-016	Spring No. 35	1
27	20-131-097	5122701-026	Bracket - flywheel	1	67	38-010-005	5120603-016	Washer (orange)	2
28	20-141-340	5122701-027	Slide Lever - F.F.	1	68	38-010-006	5120603-017	Washer (green)	5
29	20-141-341	5122701-028	Lock Lever - F.F.	1	69	38-010-008	5120603-018	Washer (red)	2
30	20-141-343	5122701-029	Guide Plate - F.F./REW lever	1	70	38-141-060	5120607-038	Fiber	1
31	20-141-381	5122701-030	Lever - E.J. lock	1	71	38-223-406	5120603-019	Thrust Washer	2
32	20-141-383	5122701-031	Lever - tape/radio selector SW	1	72	38-595-004	5120607-039	Motor Sheet	1
33	20-141-384	5122701-032	Bracket - tape/radio selector SW	1	201	53-010-012-0	5122801-001	Head No. 72	1
34	20-141-388	5122701-033	Lever - head chassis	1	202	54-020-067-0	5122901-001	Motor No. 67	1
35	25-141-123	5120607-035	Stud - mechanism	1	203	70-010-037-0	5122701-038	Solenoid Plunger	2
36	25-141-175	5120607-036	Shaft - spring	1	204	73-010-002-0	5122416-001	Detector SW	1
37	25-141-201	5120607-037	Spacer	2	205	55-100-144-0	5123901-001	P.C. Board (head)	1
38	26-141-055	5120603-006	Extruded Washer	1	206	58-020-022-0	5122405-001	Micro Switch No. 22	1
39	26-141-057	5120603-007	Extruded Washer	2	207	58-010-239-0	5122412-002	Push Switch No. 239	1
40	26-141-058	5120603-008	Extruded Washer	1					

Ref. No.	Part No.	ASI Part No.	Description	Q'ty	Ref. No.	Part No.	ASI Part No.	Description	Q'ty
X1		5120601-030	Screw BMS M2 x 3	2	X12		5120601-038	Screw PMS w/SW M2 x 10	1
X2		5120601-031	Screw BMS M2 x 5	1	X13		5120601-026	Screw PMS w/SW M2.6 x 4	2
X3		5120601-032	Screw BMS M2 x 6	1	X14		5120601-039	Screw PMS w/SW M2.6 x 5	2
X4		5120601-033	Screw BMS M2.6 x 3	2	X15		5120603-021	Washer φ2	3
X5		5120601-019	Screw BMS M2.6 x 4	1	X16		5120603-020	Washer φ3	1
X6		5120601-021	Screw FMS M2.6 x 4	6	X17		5120603-022	Washer φ3 x T0.3	2
X7		5120601-034	Screw PTS-3 M2.6 x 4	2	X18		5120603-023	Washer φ3 x φ8 x T0.5	1
X8		5120601-025	Screw PTS-3 M2.6 x 5	1	X19		5120603-024	Washer φ1.5	13
X9		5120601-035	Screw PMS w/SW M2 x 4	1	X20		5120603-025	Washer φ2	5
X10		5120601-036	Screw PMS w/SW M2 x 5	2	X21		5120607-040	Lug φ2	1
X11		5120601-031	Screw PMS w/SW M2 x 8	1					

SCHEMATIC DIAGRAM



REPLACEMENT PARTS LIST

Symbol No.	Part No.	ASI Part No.	Description	Q'ty	Symbol No.	Part No.	ASI Part No.	Description	Q'ty
Semi-Conductors									
IC301	52-040-068-0	5012212-001	IC μ PC1186H	1	R301	81-110-213-2	5013202-072	1K ohm	1
IC302	52-040-067-0	5012202-005	IC μ PC1185H	1	R331	81-468-003-4	5013205-044	68 ohm 1W	1
IC351	52-040-096-0	5122201-002	IC LM555	1	R351	81-182-123-2	5013202-070	820 ohm 1/4W	1
IC352	52-040-082-0	5122201-003	IC CX-065A	1	R352	81-147-213-2	5013202-088	4.7K ohm	1
IC401	52-040-088-0	5122207-002	IC μ PC1167C	1	R353	81-122-413-2	5013202-128	220K ohm	1
IC501	52-040-055-0	5012207-001	IC μ PC1026C	1	R354	81-122-213-2	5013202-080	2.2K ohm	1
IC601	52-040-051-0	5122205-001	IC HA1199	1	R355	81-115-213-2	5013202-076	1.5K ohm	1
Q101,201	52-020-021-0	5010203-060	Transistor 2SC536	2	R356	81-115-113-2	5013202-052	150 ohm	1
Q351,352	52-020-209-2	5010203-062	Transistor 2SC1815	2	R357	81-112-413-2	5013202-122	120K ohm	1
Q353	52-020-186-1	5010203-027	Transistor 2SC1449	1	R358	87-100-278-0	5123210-002	Semi-fixed 50K ohm	1
Q401	52-020-115-1	5010203-047	Transistor 2SC930	1	R359	81-133-113-2	5013202-060	330 ohm	1
Q501	52-025-012-2	5010204-005	Transistor 2SD471	1	R360	81-115-313-2	5013202-100	15K ohm	1
D101,201	52-051-009-0	5120101-001	Diode IS1588	2	R361	81-110-313-2	5013202-096	10K ohm	1
D351,352	52-054-009-0	5120101-002	Diode S1B01 - 02	2	R362	81-122-213-2	5013202-080	2.2K ohm	1
D353,354	52-051-009-0	5120101-001	Diode IS1588	2	R363	81-133-113-1	5013202-060	330 ohm	1
D501,502	52-051-009-0	5120101-001	Diode IS1588	2	R401	81-182-013-2	5013202-046	82 ohm	1
D601,602	52-051-009-0	5120101-001	Diode IS1588	2	R402	81-133-113-2	5013202-060	330 ohm	1
Z351	52-053-135-0	5120103-001	Zener Diode WZ075	1	R403	81-110-113-2	5013202-048	100 ohm	1
Z501	52-053-030-0	5120103-002	Zener Diode XZ-096	1	R404	81-122-313-2	5013202-104	22K ohm	1
D301	52-056-034-0	5120102-002	LED (yellow)	1	R405	81-110-313-2	5013202-096	10K ohm	1
D302	52-056-033-0	5120102-001	LED (green)	1	R406	81-133-113-2	5013202-060	330 ohm	1
D303	52-056-073-0	5120102-004	LED (orange)	1	R407	81-110-213-2	5013202-072	1K ohm	1
D304,305	52-056-072-0	5120102-003	LED (green)	2	R408	81-122-013-2	5013202-032	22 ohm	1
Coils and other Components									
L331	56-050-037-0	5120401-007	Choke Coil No. 37	1	R409	81-110-513-2	5013202-144	1M ohm	1
L401	56-050-643-0	5120401-008	Phase Coil 22 μ H	1	R410	81-133-113-2	5013202-060	330 ohm	1
L601	56-050-610-0	5120401-001	Peaking Coil 5 μ H	1	R411	81-110-013-2	5013202-024	10 ohm	1
L602	56-050-611-0	5120401-002	AM OSC Coil 220 μ H	1	R412	81-139-213-1	5013202-086	3.9K ohm	1
L631	56-050-609-0	5120401-003	Peaking Coil 6.8 μ H	1	R413	81-112-313-2	5013202-098	12K ohm	1
L632	56-050-673-0	5120401-009	Filter Coil 0.5 μ F	1	R414,415	81-122-213-2	5013202-080	2.2K ohm	2
T401	56-050-645-0	5120402-008	FM IFT Coil No. 645	1	R416	81-142-313-2	5013202-112	47K ohm	1
T601	56-050-612-0	5120402-001	AM IFT (black)	1	R417	81-139-213-2	5013202-086	3.9K ohm	1
T602	56-050-613-0	5120402-002	AM IFT (white)	1	R418	81-147-113-2	5013202-064	470 ohm	1
T603	56-050-614-0	5120402-003	AM IFT (orange)	1	R419	87-100-256-0	5123210-003	Semi-fixed 5K ohm	1
T604	56-050-613-0	5120402-002	AM IFT (white)	1	R420	87-100-257-0	5123210-004	Semi-fixed 10K ohm	1
CF401,402	75-030-019-1	5120403-001	Ceramic Filter SFE10.7MS2	2	R421	81-147-313-2	5013202-112	47K ohm	1
C601	96-601-005-0	5120501-002	Ceramic Trimmer 50PF	1	R501	81-115-313-2	5013202-100	15K ohm	1
C609	96-601-005-0	5120501-002	Ceramic Trimmer 50PF	1	R502	87-100-257-0	5123210-004	Semi-fixed 10K ohm	1
C631	96-501-008-0	5120501-001	Trimmer 80PF	1	R503	81-110-213-2	5013202-072	1K ohm	1
RY631			Relay	1	R504,505	81-122-213-2	5013202-080	2.2K ohm	2
N631			Neon Lamp	1	R506,507	81-182-213-2	5013202-094	8.2K ohm	2
Resistors; all are 1/8 watt 5% tolerance unless otherwise specified									
R101	81-115-313-2	5013202-100	15K ohm	1	R508	81-110-413-2	5013202-120	100K ohm	1
R102	81-115-113-2	5013202-052	150 ohm	1	R509	81-115-213-2	5013202-076	1.5K ohm	1
R103	81-110-413-2	5013202-120	100K ohm	1	R510	81-182-123-2	5013202-070	820 ohm 1/4W	1
R104	81-139-213-2	5013202-086	3.9K ohm	1	R511	81-127-113-2	5013202-058	270 ohm	1
R105	81-122-313-2	5013202-104	22K ohm	1	R512	81-133-113-2	5013202-060	330 ohm	1
R106,107	81-147-213-2	5013202-088	4.7K ohm	2	R601	81-147-213-2	5013202-088	4.7K ohm	1
R108	81-115-213-2	5013202-076	1.5K ohm	1	R602	81-115-313-2	5013202-100	15K ohm	1
R109,110	81-122-213-2	5013202-080	2.2K ohm	2	R603	81-182-013-2	5013202-046	82 ohm	1
R111	81-122-013-2	5013202-032	22 ohm	1	R604	81-133-213-2	5013202-084	3.3K ohm	1
R112	81-110-713-2	5013202-001	1 ohm	1	R605	81-156-213-2	5013202-090	5.6K ohm	1
R201	81-115-313-2	5013202-100	15K ohm	1	R606	81-115-313-2	5013202-100	15K ohm	1
R202	81-115-113-2	5013202-052	150 ohm	1	R607	81-110-313-2	5013202-096	10K ohm	1
R203	81-110-413-2	5013202-120	100K ohm	1	R608	81-112-123-2	5013202-050	120 ohm 1/4W	1
R204	81-139-213-2	5013202-086	3.9K ohm	1	R631	81-156-213-1	5013202-090	5.6K ohm	1
R205	81-122-313-2	5013202-104	22K ohm	1					
R206,207	81-147-213-2	5013202-088	4.7K ohm	2					
R208	81-115-213-2	5013202-076	1.5K ohm	1					
R209,210	81-122-213-2	5013202-080	2.2K ohm	2					
R211	81-122-013-2	5013202-032	22 ohm	1					
R212	81-110-713-2	5013202-001	1 ohm	1					

Symbol No.	Part No.	ASI Part No.	Description	Q'ty	Symbol No.	Part No.	ASI Part No.	Description	Q'ty
Capacitors; all are in 50 working voltage unless otherwise specified.									
C101	93-632-222-4	5013368-286	Polyester 0.0022 μ F	1	C362	93-524-10103	5013362-672	Electrolytic 100 μ F 16WV	1
C102	93-527-10701	5013362-474	Electrolytic 1 μ F	1	C363	93-523-22102	5013362-717	Electrolytic 220 μ F 10WV	1
C103	93-523-47001	5013362-627	Electrolytic 47 μ F 10WV	1	C401,402	95-352-223-7	5013337-356	Ceramic 0.022 μ F	2
C104	93-632-333-4	5013368-366	Polyester 0.033 μ F	1	C403	93-820-101-0	5013352-401	Tantalum 0.1 μ F 35WV	1
C105	93-527-10701	5013362-474	Electrolytic 1 μ F	1	C404-407	95-352-223-7	5013337-356	Ceramic 0.022 μ F	4
C106	93-632-473-4	5013368-376	Polyester 0.047 μ F	1	C408,409	93-527-10701	5013362-474	Electrolytic 1 μ F	2
C107	93-820-101-0	5013352-401	Tantalum 0.1 μ F 35WV	1	C410-412	95-352-223-7	5013337-356	Ceramic 0.022 μ F	3
C108	93-632-102-4	5013368-201	Polyester 0.001 μ F	1	C413	95-322-151-4	5013337-176	Ceramic 150pF	1
C109	93-523-22102	5013362-717	Electrolytic 220 μ F 10WV	1	C414	93-527-10701	5013362-474	Electrolytic 1 μ F	1
C110	93-840-033-0	5013362-426	Aluminium 0.22 μ F 16WV	1	C415	93-632-222-4	5013368-286	Polyester 0.0022 μ F	1
C111	93-524-10103	5013362-627	Electrolytic 100 μ F 16WV	1	C501	93-527-10701	5013362-474	Electrolytic 1 μ F	1
C112	93-523-10203	5013362-797	Electrolytic 1000 μ F 10WV	1	C502	93-724-471-4	5013370-236	Styrol 470pF 125WV	1
C113	93-820-107-0	5013352-474	Tantalum 1 μ F 35WV	1	C503	93-527-22801	5013362-426	Electrolytic 0.22 μ F	1
C201	93-632-222-4	5013368-286	Polyester 0.0022 μ F	1	C504	93-527-47801	5013362-446	Electrolytic 0.47 μ F	1
C202	93-527-10701	5013362-474	Electrolytic 1 μ F	1	C505	93-632-473-4	5013368-376	Polyester 0.047 μ F	1
C203	93-523-47001	5013362-627	Electrolytic 47 μ F 10WV	1	C506,507	93-632-333-4	5013368-366	Polyester 0.033 μ F	2
C204	93-632-333-4	5013368-366	Polyester 0.033 μ F	1	C508,509	93-632-222-4	5013368-286	Polyester 0.0022 μ F	2
C205	93-527-10701	5013362-474	Electrolytic 1 μ F	1	C510	93-527-10701	5013362-474	Electrolytic 1 μ F	1
C206	93-632-473-4	5013368-376	Polyester 0.047 μ F	1	C512	95-352-223-7	5013337-356	Ceramic 0.022 μ F	1
C207	93-820-101-0	5013352-401	Tantalum 0.1 μ F 35WV	1	C513	93-524-10103	5013362-672	Electrolytic 100 μ F 16WV	1
C208	93-632-102-4	5013368-201	Polyester 0.001 μ F	1	C514	93-524-47104	5013362-767	Electrolytic 470 μ F 16WV	1
C209	93-523-22102	5013362-717	Electrolytic 220 μ F 10WV	1	C602	93-632-103-4	5013368-331	Polyester 0.01 μ F	1
C210	93-840-033-0	5013362-426	Aluminium 0.22 μ F 16WV	1	C603	93-632-222-4	5013368-286	Polyester 0.0022 μ F	1
C211	93-524-10103	5013362-672	Electrolytic 100 μ F 16WV	1	C604	93-335-120-4	5013347-166	Silvered 120pF	1
C212	93-523-10203	5013362-797	Electrolytic 1000 μ F 10WV	1	C605	93-632-152-4	5013368-271	Polyester 0.0015 μ F	1
C213	93-820-107-0	5013352-474	Tantalum 1 μ F 35WV	1	C606,607	93-632-473-4	5013368-376	Polyester 0.047 μ F	2
C301	93-524-47104	5013362-767	Electrolytic 470 μ F 16WV	1	C608	93-527-22701	5013362-500	Electrolytic 2.2 μ F 50WV	1
C302	93-524-10103	5013362-672	Electrolytic 100 μ F 16WV	1	C610	95-322-561-4	5013337-246	Ceramic 560pF	1
C303	93-524-10204	5013362-797	Electrolytic 1000 μ F 16WV	1	C611	94-393-121-3	5013337-166	Ceramic 120pF	1
C331	93-525-22202	5013362-823	Electrolytic 2200 μ F 25WV	1	C612	94-393-151-3	5013337-176	Ceramic 150pF	1
C332	93-525-47103	5013362-768	Electrolytic 470 μ F 25WV	1	C613	93-632-102-4	5013368-201	Polyester 0.001 μ F	1
C351	93-810-070-0	5013379-471	Non-pola 1 μ F	1	C614,615	95-322-102-4	5013337-262	Ceramic 0.001 μ F	2
C352,353	93-524-10001	5013362-562	Electrolytic 10 μ F 16WV	2	C616	93-524-10001	5013362-562	Electrolytic 10 μ F 16WV	1
C354	93-632-223-4	5013368-356	Polyester 0.022 μ F	1	C617	93-524-47104	5013362-767	Electrolytic 470 μ F 16WV	1
C355	93-632-682-4	5013368-321	Polyester 0.0068 μ F	1	C618	93-632-333-4	5013368-366	Polyester 0.033 μ F	1
C356	93-632-472-4	5013368-306	Polyester 0.0047 μ F	1	C619	93-632-223-4	5013368-356	Polyester 0.022 μ F	1
C357	93-527-10701	5013362-474	Electrolytic 1 μ F	1	C620	93-527-22801	5013362-426	Electrolytic 0.22 μ F	1
C358	93-527-33701	5013362-512	Electrolytic 3.3 μ F	1	C632	94-333-270-3	5013337-091	Ceramic 27pF	1
C359	93-527-47801	5013362-446	Electrolytic 0.47 μ F	1	C633	95-352-103-7	5013337-331	Ceramic 0.01 μ F	1
C360,361	93-524-10001	5013362-472	Electrolytic 1.0 μ F 16WV	2					

NOTES _____

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