MITSUBISHI

SERVICE MANUAL

CASSETTE DECK

24V TRUCK

MODEL:GL-84S

FEATURES

- **Auto Reverse Function**
  Automatically reversed at the end from "A" side to "B" side or from "B" side to "A" side.
- **FF/REW-Locked Function**
  No need to take out the cassette when you off the car.
- **Adoption of Permalloy Head**
  Provides high abrasion resistivity by hard permalloy head.
- **Bass Enhanced Switch**
  Provides powerful bass sound by pressing the switch.

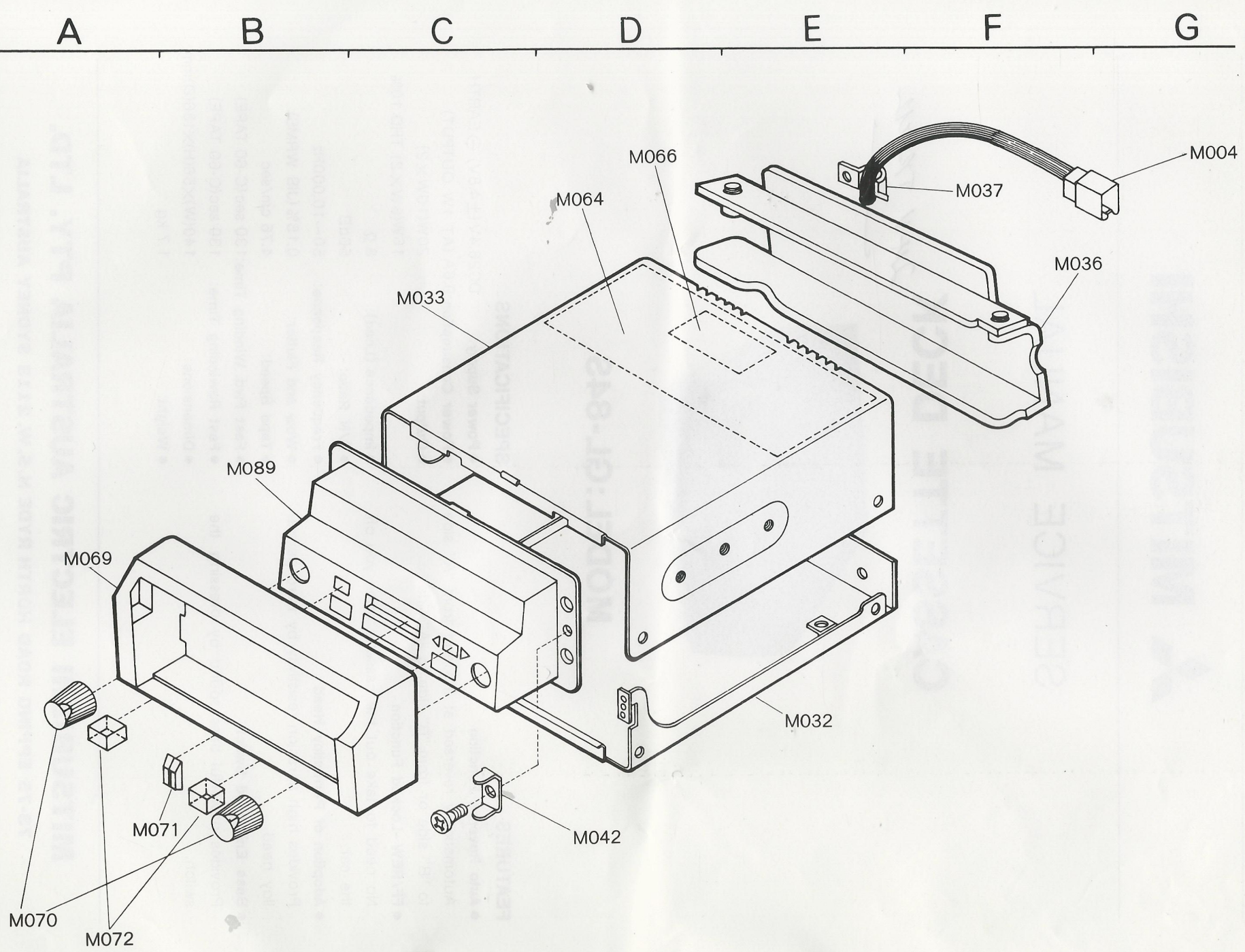
SPECIFICATIONS

- **Power Supply**: DC26.4V(±4.8V) ⊖ EARTH
- **Power Consunption**: 0.6A (AT 1W OUTPUT)
- **Output**: 20W(10W×2)
  16W(8W×2) THD 10%
- **Impedance (Load)**: 8 Ω
- **S/N Ratio**: 50dB
- **Frequency Response**: 50～10,000Hz
- **Wow and Flutter**: 0.15% (JIS WRMS)
- **Tape Speed**: 4.76 cm/sec
- **Fast Fwd. Winding Time**: 130 sec(C-60 TAPE)
- **Fast Rewinding Time**: 130 sec(C-60 TAPE)
- **Dimensions**: 140(W)×56(H)×186(D)mm
- **Weight**: 1.7 kg

MITSUBISHI ELECTRIC AUSTRALIA PTY. LTD.
73-75 EPPING ROAD NORTH RYDE N.S.W. 2113 SYDNEY AUSTRALIA

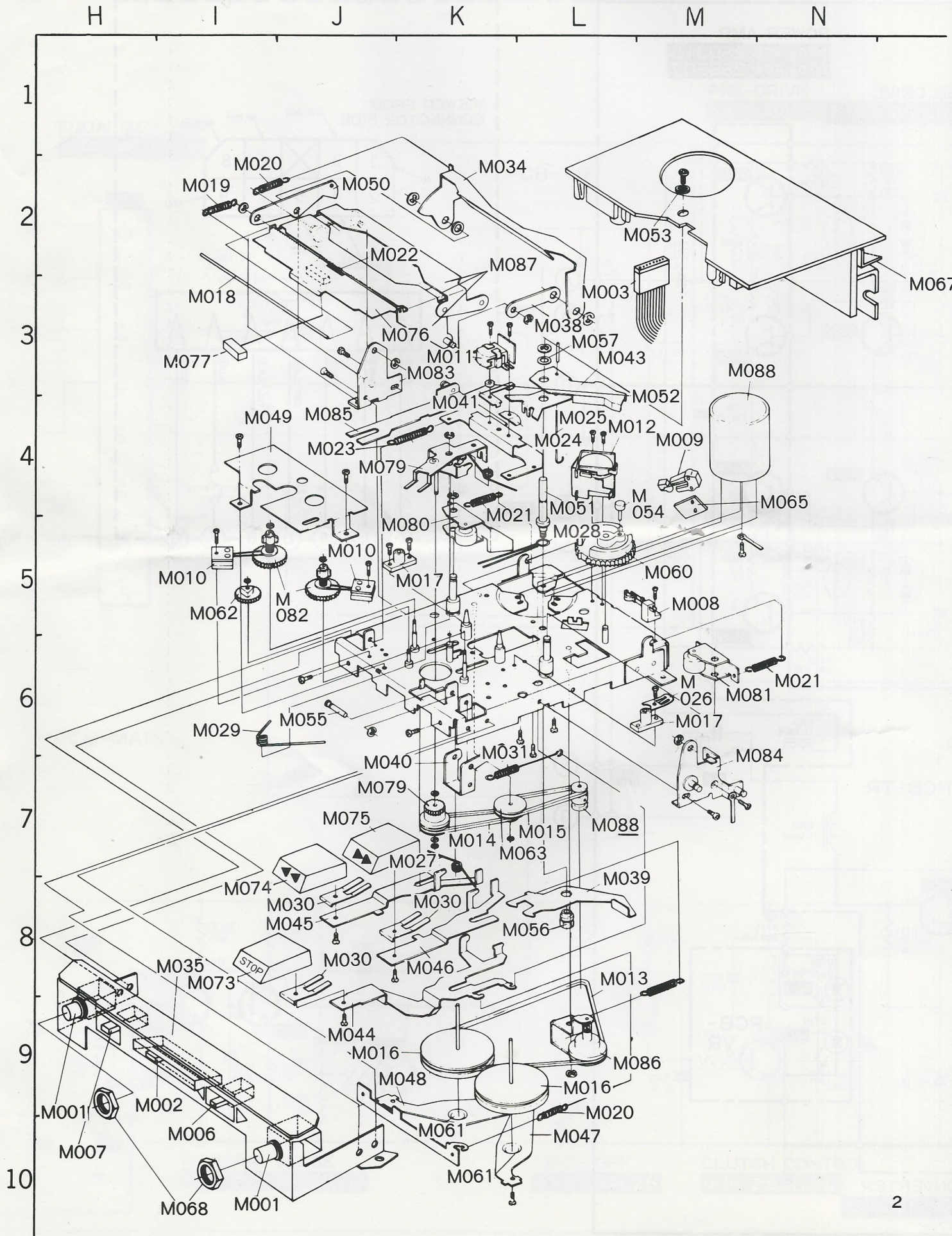
EXPLODED VIEW

Chassis



EXPLODED VIEW

DECK



MECHANICAL PARTS LIST

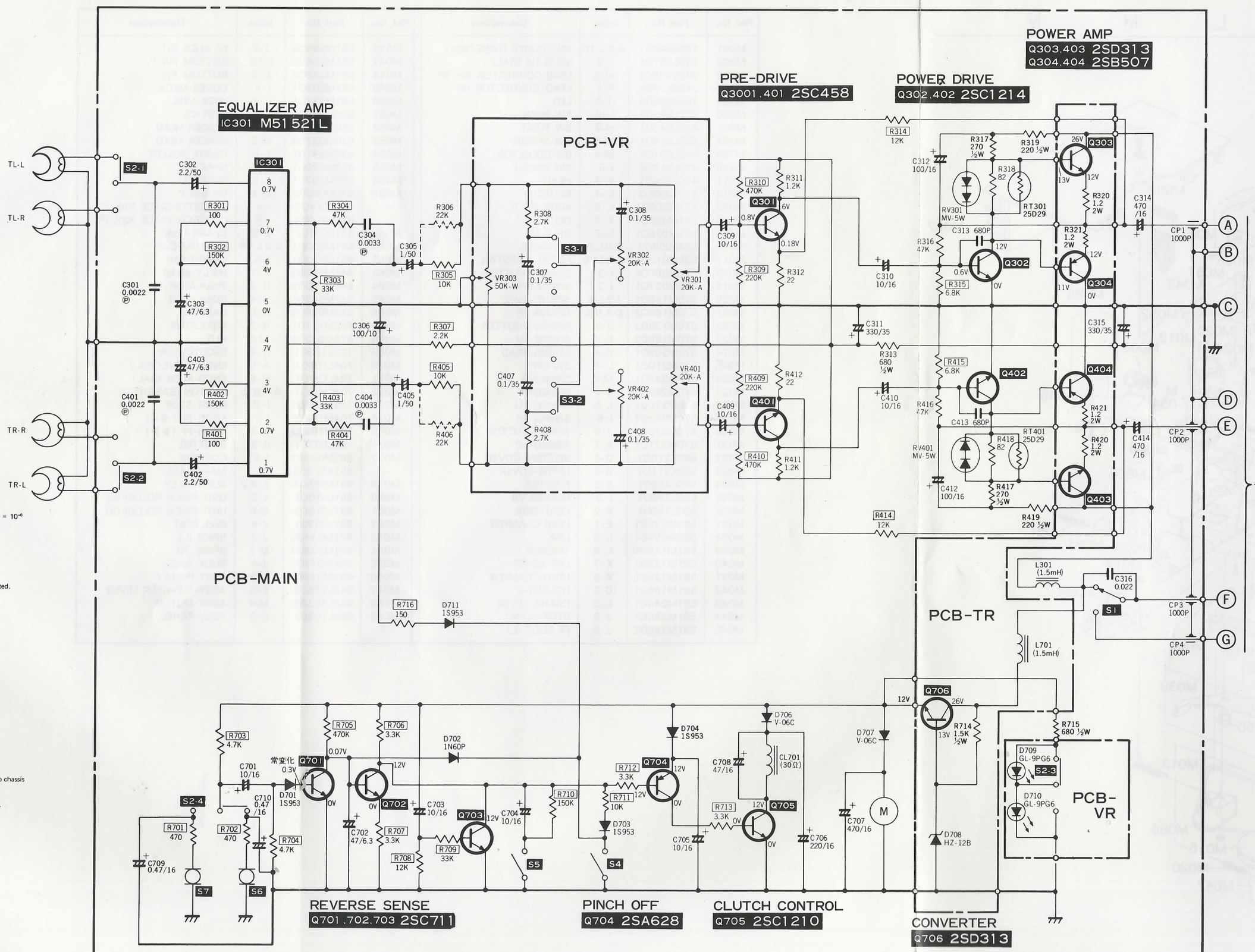
Ref. No.	Part No.	Index	Description
M001	123L048O7	H-9,J-10	VR-DOUBLE (TONE/VOL)
M002	129L097O1	I-9	VR-SLIDE (BAL)
M003	242K038O1	M-3	LEAD-CONNECTOR-NH-9P
M004	242L527O1	F-1	LEAD-CONNECTOR-9P
M005	264P198O3	J-9	LED
M006	432L039O1	I-10	SW-PUSH
M007	432L040O1	H-9	SW-PUSH
M008	435L014O1	M-5	SW-SPRING
M009	439L001O1	M-4	SW-SQUELTON
M010	439L010O2	I-5	SW-BRUSH
M011	460P026O1	K-3	HEAD
M012	479L005O3	L-4	CLUTCH
M013	521M008O1	L-9	MAIN BELT
M014	521M025O1	K-7	BELT-MI
M015	521M026O1	L-7	BELT-SI
M016	524L008O2	K-9,L-9	FLYWHEEL
M017	530M013O1	K-5,M-6	METAL-CAPSTAN
M018	531M060O5	I-3	SHAFT-SHUTTER
M019	570M027O1	I-2	SPRING-TR
M020	570M159O1	I-2,L-9	SPRING-EV-2
M021	570M160O2	K-4,N-6	SPRING-PR
M022	570M173O2	J-2	SPRING-SHUTTER
M023	570M185O2	K-4	SPRING-EV
M024	570M209O1	K-4	SPRING-HEAD
M025	570M210O1	L-4	SW-PIN
M026	570M242O1	M-6	SPRING-S
M027	570M269O3	K-7	SPRING-FF
M028	570M270O1	L-5	SPRING-TU
M029	570M312O1	I-6	SPRING-SP
M030	570M313O2	J-8	SPRING-BUTTON
M031	570M371O1	K-7	SPRING-UP
M032	590K210O1	D-4	BOTTOM-COVER
M033	590K211O1	D-2	UPPER-COVER
M034	590L499O1	K-2	EJECTER
M035	590L748O1	I-9	HOLDER-VR
M036	590L749O1	F-2	HEAT-SINK
M037	590M222O1	E-1	LEAD-CLAMPER
M038	590M698O1	L-3	LINK
M039	591M118O1	L-8	TRIGGER
M040	591M122O1	K-7	LIFT-LEVER
M041	591M125O1	K-3	LEAD-CLAMPER
M042	591M168O1	C-5	HOLDER-E
M043	591M284O1	L-3	CRANK-LEVER
M044	591M285O1	J-9	STOP-SLIDE
M045	591M286O1	J-8	FF SLIDE (L)
M046	591M286O2	J-8	FF SLIDE (R)
M047	591M366O1	L-10	BOTTOM-FW
M048	591M366O2	K-9	BOTTOM-FW
M049	591M605O1	I-4	COVER-MECA
M050	591M731O1	J-2	LOCK-LINK
M051	630M323O2	L-4	POST-CL
M052	630M327O2	M-3	SPACER-HEAD
M053	630M327O3	M-2	SPACER-HEAD
M054	630M361O1	L-5	CRANK ROLLER
M055	630M390O1	J-6	SHAFT-FF
M056	630M392O1	L-6	BOSS-CL
M057	640M002O7	L-3	WASHR-P
—	641L014O1	—	CASSETTE-GUIDE RAIL (L)
—	641L014O2	—	CASSETTE-GUIDE RAIL (R)
M060	641L024O1	L-5	CRANK-GEAR
M061	641M090O1	K-9,L-10	BOTTOM-CAP
M062	641M113O1	I-5	IDLER-GEAR
M063	641M166O2	K-7	PULLY-IDLER
M064	642M050O3	D-2	INSULATOR
M065	642M062O1	N-4	INSULATOR
M066	642M068O3	E-2	DAMPER
M067	642M121O1	N-2	INSULATOR
M068	674M023O1	I-10	NUT
M069	702K165O1	B-4	ESCUTCHEON
M070	704L106O1	A-5	KNOB (TONE/VOL.)
M071	704L107O1	B-5	KNOB-SLIDE (BAL)
M072	704L108O1	A-4,B-5	BUTTON (BASS/PRO)
M073	704M198O1	I-8	KNOB-STOP
M074	704M199O1	I-7	KNOB-FF (◀◀)
M075	704M199O2	J-7	KNOB-FF (▶▶)
M076	768L027O1	J-3	SHUTTER
M077	803M009O1	I-3	CUSHION
—	891K013O2	—	MAIN BASE
M079	891K015O4	K-4	SLIP PULLEY
M080	891L019O1	K-5	UNIT PINCH ROLLER (L)
M081	891L019O2	M-6	UNIT PINCH ROLLER (R)
M082	891L049O1	J-5	REEL REST
M083	891M034O3	J-3	BRIGE (L)
M084	891M035O4	M-7	BRIGE (R)
M085	891M047O1	J-4	SLIDE BASE
M086	891M048O1	L-9	ASSY-PULLEY
M087	943L276O3	K-3	ASSY-ELEVATOR LEVER
M088	943L353O3	M-4	ASSY-MOTOR
M089	963L158O1	C-3	ASSY-PANEL

ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
RESISTORS & CAPACITORS		
R320,420, 321,421	102P033O1	R-WIRE-L 1.2Ω 2W
VR301,401, 302,402	123L048O7	VR-DOUBLE-SHAFT 20K
VR303	129L097O1	VR-SLIDE 50K
CP1,2,3,4	141P020O1	C-CERAMIC 1000PF
SEMICONDUCTORS		
Q301,401	260P045O8	TR 2SC458-CD
Q302,402	260P313O3	TR 2SC1214-C
Q303,403, 706	260P433O2	TR 2SD313-E
Q304,404	260P405O2	TR 2SB507-E
Q701,702, 703	260P175O6	TR 2SC711-G
Q704	260P165O4	TR 2SA628-F
Q705	260P280O5	TR 2SC1210-D
IC301	266P316O1	IC M51521L
D701,703, 704,711	264P117O1	DIODE 1S953
D702	264P013O6	DIODE 1N60P
D706,707	264P088O1	DIODE V-06C
D708	264P093O1	DIODE HZ-12B
D709,710	264P198O3	LED GL-9PG6
RV301,401	265P043O1	VARISTOR MV-5W
RT301,401	265P051O1	THERMISTOR 25D29

Ref. No.	Part No.	Description
TRANSFOMERS & COILS		
L301,701	351P001O5	TRANS-CHOKE 1.5mH
OTHERS		
	242K038O1	LEAD-CONNECTOR-NH-9P
J10	242L527O1	LEAD-CONNECTOR-9P
S2-1～4	431P013O6	SW-SLIDE
S5	432L039O1	SW-PUSH
S3-1～2	432L040O1	SW-PUSH
S4	435L014O1	SW-SPRING
S1	439L001O1	SW-SQUELTON
S6,7	439L010O2	SW-BRUSH
P10	452D079A9	CONNECTOR 9P
	460P026O1	HEAD
CL701	479L005O3	CLUTCH
	943L353O3	ASSY-MOTOR

SCHEMATIC DIAGRAM



NOTICE:

1. **Indication**
   - All resistors are ohms unless otherwise specified. (K = 10^3 ohm, M = 10^6 ohm).
   - All capacitors are microfarads unless otherwise specified. (P = 10^{-6} microfarad)

2. **Resistors**
   - Types: Carbon resistor: No mark
     Solid resistor: (S) mark
     Printed resistor: —〜— mark
     Tip resistor: —▭— mark
   - Wattage: No indication = 1/4W. Other wattage will be indicated.
   - Tolerance

Mark	Tolerance
J	±5%
K	±10%

3. **Capacitors**
   - Types: Ceramic condenser: No mark
     Semiconductor ceramic condenser: (BC) mark
     Polyester film condenser: (P) mark
     Styrol condenser: (S) mark
     Tantalic condenser: (T) mark
     Aluminum electrolytic condenser: (Al) mark
     Tip condenser: —|(|— mark
   - Tolerance

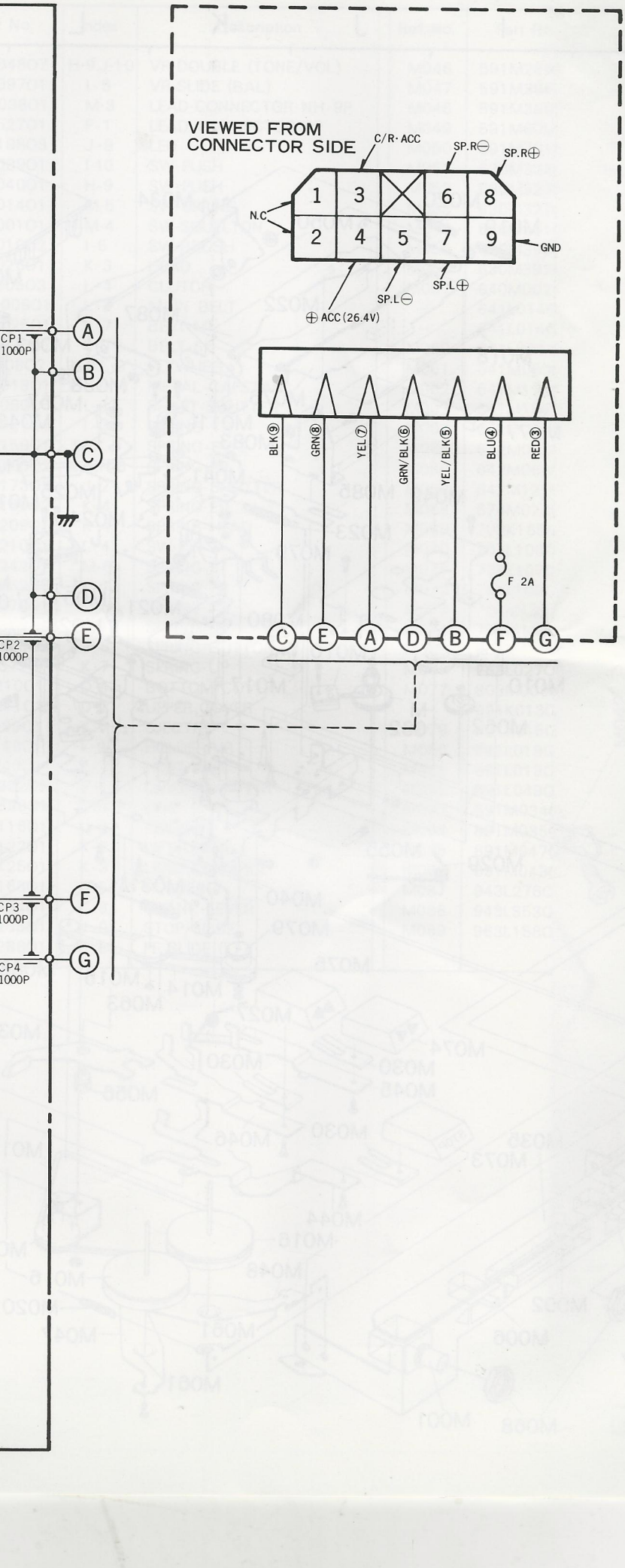
Mark	Tolerance	Mark	Tolerance
C	±0.25PF	M	±20%
D	±0.5PF	Z	+80% −20%
J	±5%	No mark	+100% −0
K	±10%		

4. **Voltage Measurements**
   Voltage measurement made with D.C. voltmeter (20KΩ/V DC) to chassis ground with no signal input **(Source voltage 26.4V)**.

5. **This circuit is subject to change for improvement without notice.**

6. **OTHERS**

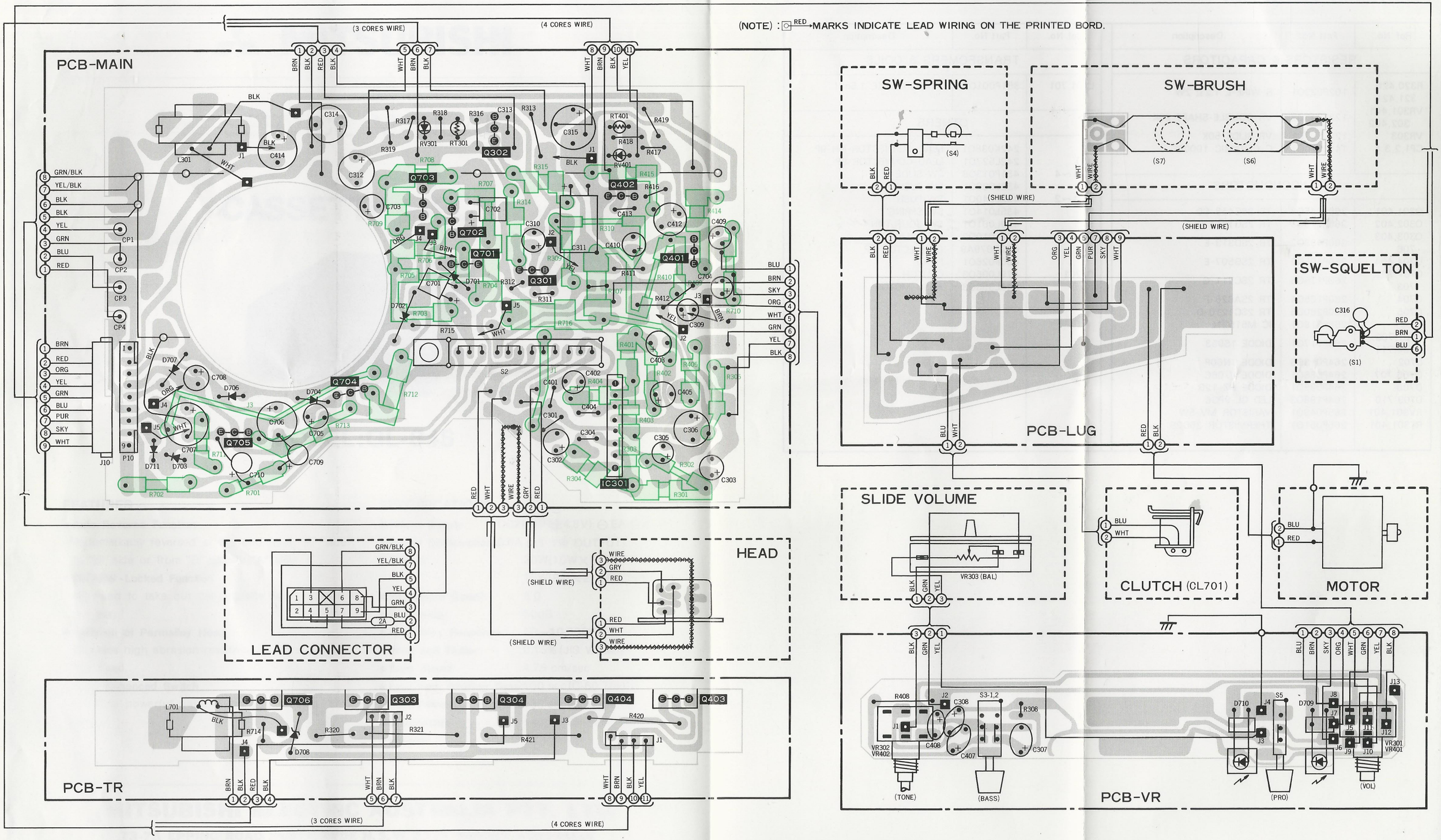
S1:POWER SWITCH
S2:FWD/REV SEL.SWITCH
S3:BASS SWITCH
S4:ERROR PROTECTION SWITCH
S5:PRO SWITCH
S6,S7:TAPE END SENSE SWITCH
R]:INDICATES PRINTE(PRC) RESISTER


VIEWED FROM
CONNECTOR SIDE
C/R·ACC
SP.R⊖
SP.R⊕
1
3
6
8
N.C
2
4
5
7
9
GND
SP.L⊖
SP.L⊕
⊕ ACC (26.4V)
BLK⑨
GRN⑧
YEL⑦
GRN/BLK⑥
YEL/BLK⑤
BLU④
RED③
F 2A
C
E
A
D
B
F
G
A
B
C
D
E
F
G
CP1
1000P
CP2
1000P
CP3
1000P
CP4
1000P

PRINTED CIRCUIT BOARD (Pattern Side)

Dec.'86

(NOTE) : RED → MARKS INDICATE LEAD WIRING ON THE PRINTED BORD.



Printed in Japan