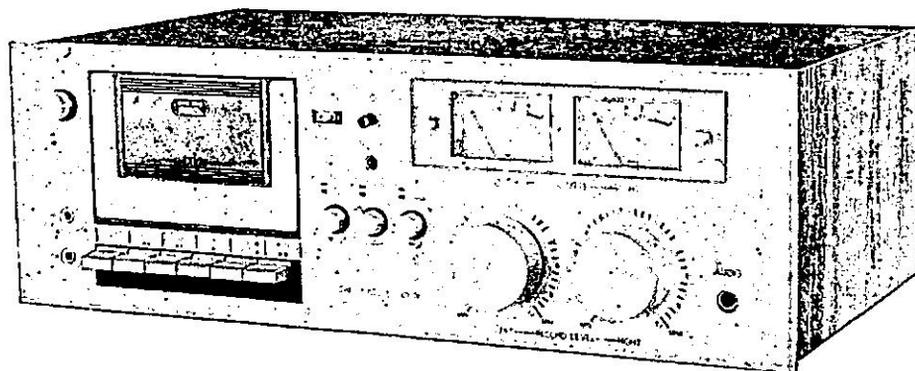


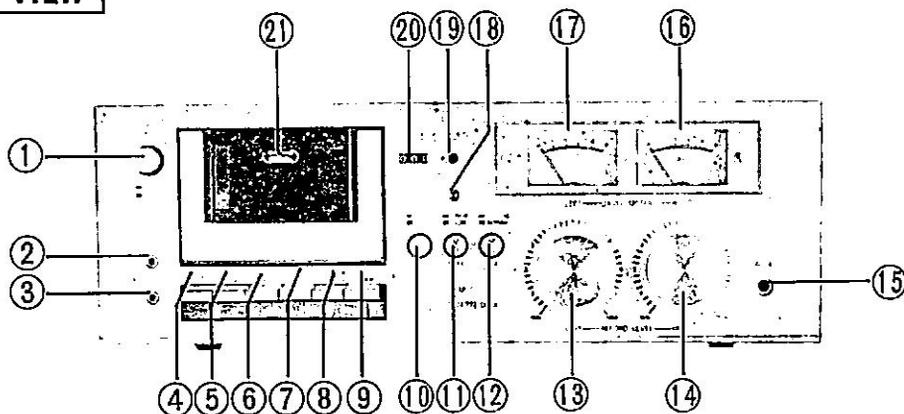
OPERATION MANUAL
VERTICAL
LOADING STEREO
CASSETTE PLAYER
RECORDER DECK

model **PSD-1080**



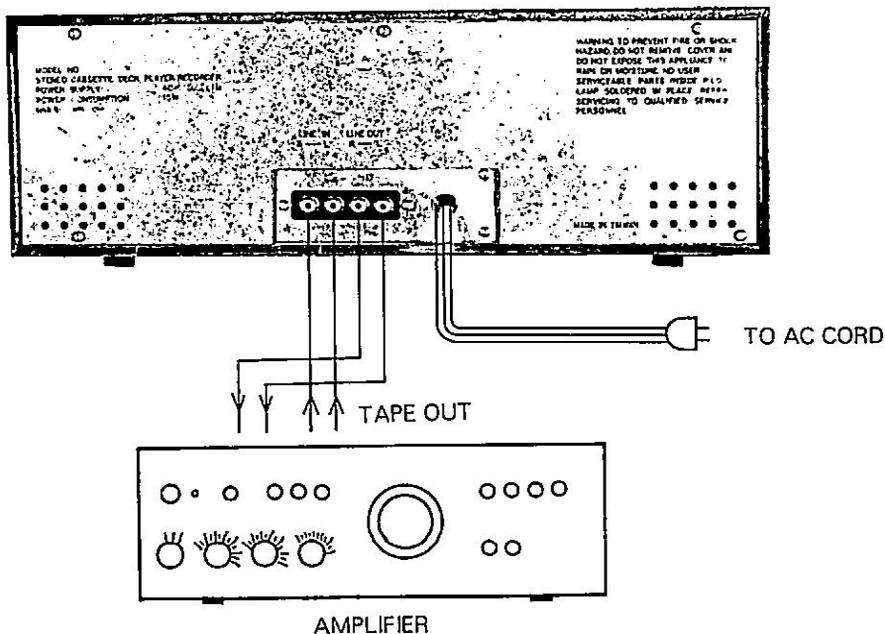
PRO QUALITY INTERNATIONAL LTD.

FRONT VIEW



- | | |
|--------------------------|------------------------------------|
| 1 POWER SWITCH | 11 TAPE BIAS SWITCH |
| 2 LEFT MICROPHONE JACK | 12 TAPE EQUALIZER SWITCH |
| 3 RIGHT MICROPHONE JACK | 13 LEFT RECORD LEVEL CONTROL |
| 4 RECORD BUTTON | 14 RIGHT RECORD LEVEL CONTROL KNOB |
| 5 REWIND BUTTON | 15 HEAD PHONE JACK |
| 6 FAST FORWARD BUTTON | 16 RIGHT VU METER |
| 7 PLAY BUTTON | 17 LEFT VU METER |
| 8 STOP/EJECT BUTTON | 18 RECORDING INDICATOR |
| 9 PAUSE BUTTON | 19 RESET BUTTON |
| 10 INPUT SELECTOR SWITCH | 20 TAPE COUNTER |
| | 21 CASSETTE DOOR |

REAR VIEW AND CONNECTION OF AMPLIFIER



NOTE: Before operating your new DECK please read this manual carefully. It will inform you as to the proper connections, use of controls and other useful information for maximum enjoyment.

CAUTION

1. Do not put your cassette deck near a source of heat and direct sunshine for a long time. Otherwise it may damage the set.
2. Do not use alcohol, thinner or gasoline when cleaning the cassette deck surface. Use a silicon cloth or a soft dry cloth.

A. DESCRIPTION OF FUNCTIONS

- (1) Power Switch (POWER) — Press button in to turn power on. To shut off power, again press the power switch button to release it to the out position.
- (2, 3) Microphone Jacks (MIC) — Plug in two microphones into LEFT and RIGHT microphone jacks if using microphones for recording.
- (4) Recording Button (RECORD) — Depress this button to lock the set in the recording mode — then depress "PLAY" button to start actual recording.
- (5) Rewind Button (REW) — When you want to rewind tape, depress this button and tape will rewind very rapidly from the right hub to the left hub of the cassette tape.
- (6) Fast Forward Button (F. FWD) — When you want to quickly reach any desired point on the tape from where recording or playback should be started, depress this button and tape will run forward at a faster speed.
- (7) Play Button (PLAY) — Depress this button to play tape. This button must also be used when recording a cassette tape. (When recording, depress "RECORD" button first-then the "PLAY" button.)
- (8) Stop and Eject Button (STOP/EJECT) — Depress this button to stop tape from play-back or recording. To eject tape, depress this button again — then tape will be ejected.
- (9) Pause Button (PAUSE) — To interrupt playback or recording, depress the pause button to the down position. To restart playback or recording, again depress the pasue button to release the pause-hold to upper position.
- (10) Input Selector Switch (INPUT) — When you want to using microphones for recording, depress this button.
- (11) Tape Bias Switch (BIAS) — Depress to the HIGH position when using CrO₂ or FeCr tape. But using the other kind tapes, again press this button to release it to the out LOW position.
- (12) Tape Equalizer Switch (E. Q) — Depress to the CrO₂/FeCr position when using CrO₂ or FeCr tape. But using the other kind tapes, again press this button to release it to the out (NORMAL) position.
- (13, 14) Record Level Control Knob — To get proper recording levels for RIGHT (14) and LEFT (13) channels, adjust these two level controls.
- (15) Headphone Jack (PHONES) — Plug in headphone (optional equipment) into this jack for, monitor.
- (16, 17) Right and Left VU Meter — Indicates recording and playback level.
- (18) Recording Indicator (REC) — The red recording indicator will light when the set is in recording position.

(19,20) Tape Counter and Reset Button — Convenient for easily locate any desired part of the tape quickly. The digits will be returned to "000" by pushing the reset button.

(21) Cassette Door — Insert cassette tape into this opening for playback or recording (The exposed portion of cassette tape should be down).

B. PLAYBACK OF TAPE

(1) Connect the output terminal to tape input jack of amplifier (Check the specifications list of the amplifier carefully).

(2) Depress the Power Switch (1) to "ON".

(3) Depress the STOP/EJECT button (8) to open the cassette door (21) Insert a recorded cassette tape into cassette case properly. (exposed tape side down)

(4) Depress the play button (7). The tape will start operating for playback and the recorded sound will be reproduced.

C. TO RECORD FROM LINE INPUT

(1) Connect the line output of auxiliary unit to tape input jack. If using the tape out terminal of amplifier, depress the amplifier selector switch to "MAGNETIC PHONO", "CERAMIC PHONO", "TUNER", OR "AUX" which you want to record. (Check the specification list of the auxiliary carefully. Because, the line output voltage of the auxiliary unit needs 100 mV at least for precise operation.)

(2) Depress the power switch of this set and the auxiliary unit or amplifier to "ON" position.

(3) Depress the STOP/EJECT button to open the cassette door. Insert a cassette tape into cassette case and close the cassette door.

(4) Use the FAST FORWARD and REWIND button to quickly reach the desired point on the tape where recording should be started, if necessary.

(5) Depress the PAUSE button to down position.

(6) Depress the RECORD button and the play button simultaneously. The recording indicator will be lit.

(7) Adjust both recording level controls to set the recording levels at approximately the same position. The peak recording levels should be adjusted under "0" db indicated. (NOTE: If recording level controls are set too high, distorted recordings may result. Before final recording, one or more trial (practice) runs should be made to ensure optimum — distortion free recordings).

(8) To start recording — Simply depress the PAUSE button to release the pause-hold to upper position and recording action will begin immediately.

(9) To interrupt recording — Depress the PAUSE button to down position.

(10) To start recording again — Depress the PAUSE button to release the pause-hold to upper position and recording action will be activated immediately again.

(11) Stop the tape motion by pressing the STOP/EJECT button.

NOTE: 1. This recorder is equipped with a manual level recording control system which means that proper recording levels must be adjusted before proper recording action is achieved. To get best recording results, you should adjust peak recording levels under "0" db indicated.

NOTE: 2. This set is equipped with an automatic tape stop system. When the tape reaches its end during playback or recording, the RECORD button and/or the PLAY button will return to their original upper positions. To continue to use the cassette tape, it must be rewound or removed and turned over for using the other side of tape. The automatic-stop mechanism does not function during FAST FORWARD or REWIND. When the tape comes to its end after using fast forward or rewind, be sure to depress the STOP/EJECT button to stop the cassette unit to avoid damaging the mechanism.

D. TO RECORD FROM MICROPHONES

- (1) Follow instructions noted in item (C) 3, 4, 5, and 6.
- (2) Plug-in two microphones into LEFT and RIGHT microphone jacks on the front panel.
- (3) Place the two microphones in front of sound sources at proper distance.
- (4) Follow instructions noted in item (C) 8, 9, 10 and 11.
- (5) If you want to monitor the sound from speakers, while it is being recorded using microphones, depress the tape monitor switch of amplifier to "TAPE" position, then monitoring will be in effect. Monitor through the speakers while recording with microphones may cause feedback ("HOWLING"). If so, remove the microphones as far away as possible from the speakers. Lowering the volume control may also help.

E. DUAL TRACK RECORDING

- (1) It is always recorded the lower side of the cassette tape, so that the tape is fully wound righthand, push in the STOP/EJECT button (8), turn over the cassette tape and re-insert it as usual.
- (2) Then it is recorded the other side of the tape.

F. ERASING A TAPE

It is not necessary to erase the pre-recorded cassette tape in order to record on the same tape as new recording will erase automatically the old one.

In case of erasing the pre-recorded tape without new recording.

- (1) Disconnect the microphone.
- (2) Run the tape in recording condition after setting the INPUT selector switch (10) to MIC position and turning the LEFT and RIGHT record level control knobs to the left to the full.

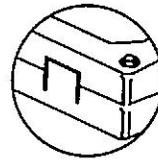
G. CAUTION FOR PROTECTING CASSETTE TAPES

1. The tape cassette contains two "KNOCK OUTS" as shown in Figure to prevent recording on an already-recorded cassette tape. The intact knock out moves the record interlock of the recorder and permits the RECORD button to be depressed. Recording can be made only when the knock out is intact.
2. There is one knock out for each side (track) of the tape. If it is necessary to preserve a valuable recording on the cassette tape, the knock out (s) should be broken. This can easily be done by puncturing the knock out (downward pressure) using a small screwdriver, ballpoint pen, etc. but exercise caution. Be sure the knock out tab is fully removed from the cassette cartridge. If, for some reason, you want to record on a track for which the knock out has already been broken, use a reasonably strong adhesive tape to cover the knock out (s) and record in the usual manner.

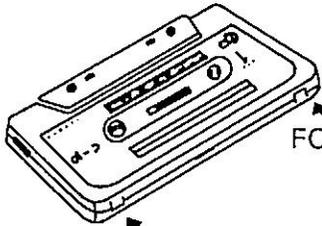


KNOCK OUT

CASSETTE CARTRIDGE

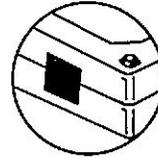


RECORDING CAN BE MADE
(INTACT KNOCK OUT)



FOR SIDE 1

FOR SIDE 2



RECORDING CAN NOT BE MADE
(KNOCK OUT PORTION REMOVED)

H. MAINTENANCE

Your TAPE DECK is made to precise mechanical and electrical specification. However, in order to maintain optimum performance at all times, the following maintenance should be made periodically.

1. Erase and record/playback heads should be free of all foreign materials. Accumulations of oxide or other foreign material may cause poor performance such as weak or distorted recording or playback.
2. To clean the erase and record/playback heads, use a head cleaner-tape.
3. Do not use oil or grease on any of the mechanical parts since the unit is self-lubricating and does not require any additional oiling.
4. Be sure not to touch the tape and internal electrical and mechanical parts with your fingers.
5. Avoid using or storing the unit in dusty or overheated location.
6. When not in use for a considerable period, always store the unit in a dry and ventilated location.
7. Do not tamper with the unit when it is out of order. Always refer to reliable personnel.
8. Use cassette tapes of reasonable or good quality for best performance, mechanical smoothness, and durability.

I. SPECIFICATION

Tape Speed:	: 1-7/8 ips. (4.75 cm/sec.)
Wow & Flutter	: 0.15% wrms.
Tape	: Philips type compact cassette.
Recording system	: AC Bias.
Erasing system	: AC Erase.
Frequency Response:	: 50-10000 Hz.
Track system	: 4-track, 2-channel stereo.
Recording/Playing time	: 60 minutes (using C-60).
Line Output	: 500 mV/10K ohm load.

SCHEMATIC DIAGRAM

