Directions for Eliminating Minor Troubles



1004

The following table gives directions for dealing with minor difficulties which may arise during fitting, in transit, or from improper handling.

If there is a fault not dealt with in this table the unit should be handed in to one of our servicing agents for a thorough overhaul.

Please make sure that genuine DUAL components are used for all replacements — this is the only way to ensure perfect working.

SYMPTOM	CAUSE	REMEDY
Starting		
Changer does not start after switch- ing on and pressing Start Button.	No supply to motor.	Test supply socket for mains voltage. Check internal mercury switch (52) for continuity.
Current supply and mercury switch function normally, but changer will not start.	No supply to motor.	Voltage selector not engaged. Make sure it is fully home in appropriate position.
Tone arm moves, turntable does not revolve.	Speed control is still at zero (transit position).	Move speed control knob (56) to desired position.
Turntable revolves at wrong speed.	Wrong motor pulley (107) for frequency of local supply.	Change motor pulley (special servicing instruction available upon request).
Tone arm lifts and returns to its rest without playing record.	Tone arm was returned to rest manually at previous playing.	Start changer again. The tone arm should be controlled only by the push buttons.
Tone arm descends on to turntable before a record has dropped.	Repeat button was pressed before Start button.	Stop changer. Start button should be pressed first.
Operation		
With thin record spindle in use several records drop at once.	 a) Lowest record in the stack is out of position. 	 a) Lift off stack of records and replace evenly.
	 Safety latch is pushed upwards on record spindle. 	 b) Push latch at top end of spindle to its lowest position.
Turntable loses speed as record drops.	a) Record spindle is not locked.	 a) After inserting changer spindle into cente hole turn spindle until it clicks.
	b) Release rocker (14) has too much lift.	b) Adjust eccentric (R1).
Failure to drop or incorrect drop- ping.	a) Release rocker (14) does not move freely.	a) Make sure hole in centre spindle is free of obstructions (bits of labels, etc.)
	b) Pin of release rocker is broken.	b) Replace pin (28).
Repeat does not work.	Release rocker (14) not being made inoperative.	Adjust release plate (67).
Stop mechanism fails to work.	Trip rocker not being released.	Lever operating the trip rocker (1) is impeded. Check the spring for this leve under main plate (16).
Record played singly, or last record in stack does not repeat.	Normal operation.	See Operating Instructions.

After pressing Stop button and starting again another record falls.	Normal operation.	Repeat button should have been pressed before operating Stop button and re-starting. Interrupted record will then repeat.
Tone arm does not descend to its rest properly and motor continues to run.	Locking lever (50) does not engage in recess in tone arm.	Adjust the stop for positioning tone arm above rest (10). Then adjust height of locking lever to suit this (R 6).
Turntable does not attain correct speed.	a) Different mains frequency.	 a) Check mains frequency and if necessary use a motor pulley (107) with plus or minus allowance.
	b) Slipping drive.	b) Clean all oil and grease from friction surfaces of drive (101, 103, 104, 105, 106).
	c) Friction in motor bearing or drive bearings.	 c) Clean bearings in motor or drive wheels and re-oil (Shell AB 11 or instrument oil).
Changer drops several records in succession without playing them.	a) Trip mechanism engages too soor	n. a) Move set-down position of stylus outwards by adjusting the index fork eccentric (R 2).
	b) Cam does not stop after revolving 360°, trip lever (7) does not engagin notch in cam (37).	
Changer occasionally plays only inner part of records.	 a) Feeler mechanism in pick-up head in out of adjustment. 	s a) Change pick-up head (shell only, not cartridge).
	 b) Feeler mechanism in pick-up head insufficiently retracted. 	 b) Push pick-up head into tone arm until it clicks (catch spring on side must engage).
After playing record pick-up con- tinues in run-out groove.	 a) No standard run-out groove on record. 	a) Replace record.
	b) Trip mechanism insensitive.	b) Adjust setting of trip mechanism (35).
Changer shuts off after each record. Turntable stops.	Over arm wrongly positioned or spreader spring binding.	Place over arm (55) on stack of records free the spreader spring (F 6).
Faulty record dropping, centre holes damaged or chipped.	Record stack not lying parallel to turntable.	Always use over arm (55) and if necessary adjust it to hold record stack exactly horizontal.
Changer does not stop after playing last record but continues repeating it.	Last record shut-off not working.	Check mounting of over arm (55) so that its lowest position can be reached.
After feeler mechanism has re- tracted over record edge, tone arm moves across record grooves towards center of record.	a) Stylus point is lifted out of groov by accumulated dust.	ve a) Remove pick-up head (press catch spring), and clean dust from stylus with soft brush.
	b) Stylus point broken or chipped by rough treatment.	b) Check stylus with needle tester, and replace if necessary.
Tone arm runs off edge of record without finding run-in groove.	a) Changer not horizontal.	a) Level the changer.
	b) Tone arm brake badly adjusted.	 b) Adjust tone arm brake with set nut (R 4). k- c) Renew pick-up head (154) (Shell only, not
	 c) Faults in feeler mechanism of picture of picture of the contraction of the c	cartridge).
	d) Record has no run-in groove.	d) Replace record.
Pick-up jumps grooves.	Insufficient playing weight.	Adjust pick-up weight to 8—9 grammes with set screw in front of tone arm base

CAUSE

REMEDY

(131).

SYMPTOM

Reproduction

Reproduction distorted and unsatisfactory.

- a) Impedance mismatch.
- a) Amplifier input of about 1 Megohm is required. When changer is played through radio, receiver circuit must be disconnected in phono position.
- b) Stylus points are worn or chipped.
- c) Cartridge is damaged.
- b) Renew needle assembly.
- c) Renew cartridge.

Hum audible when playing records.

Wrongly connected.

one another.

- a) Reverse black terminals of pick-up connections.
- b) See that green terminal is properly connected to earth socket of amplifier or receiver and to earth lead of the installation.

Pitch variation (wow) during reproduction.

- a) Records displaced due to over-size, or eccentric, centre hole.
- b) Records are warped and sliding on
- c) Friction drive between motor and
- a) Replace records.
- b) Replace warped records.
- turntable slipping.
- c) Make sure working surfaces of drive wheels (101, 103, 104, 105, 106) are quite free from oil and grease.

Excessive surface noise.

- a) Stylus point worn or chipped.
- b) Records previously played with steel needles or having nonstandard grooves (old records).
- c) Records of poor quality or partly worn.
- a) Replace needle assembly.
- b) Use special pick-up head (K3) with oversize stylus points.
- Replace records, or turn down treble tone control of amplifier or receiver.

Hooting while playing and especially when using bass boost. Acoustic feedback.

Check that the spring suspension is working properly. The chassis must be freely suspended and the leads must not be taut.

For cleaning records — especially the delicate micro-groove records — we recommend using our

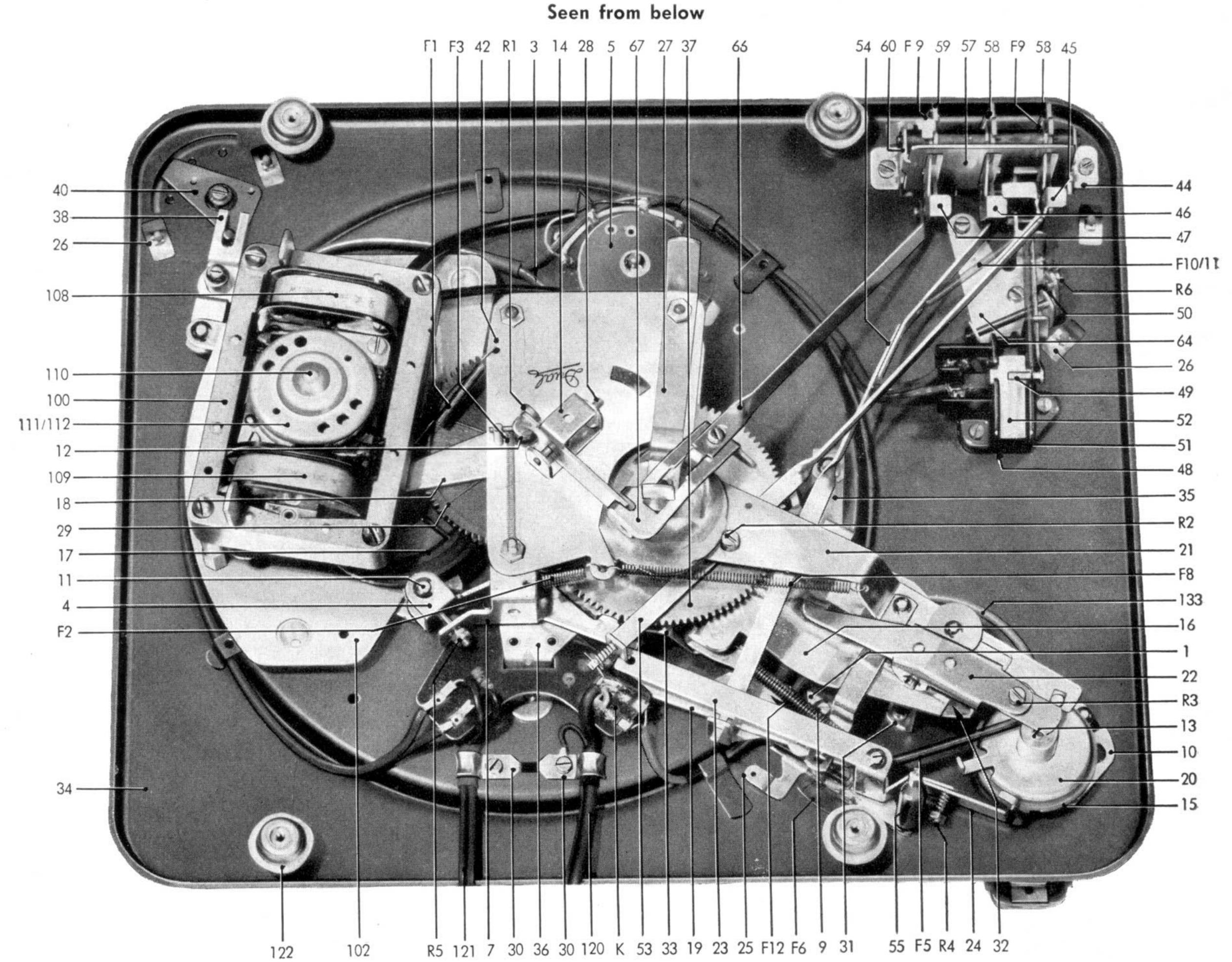
DUAL Micro-Pianissimo

record cleaner which cleans both sides of the record simultaneously and also removes troublesome static charges. (Ask for descriptive leaflet).

GEBRÜDER STEIDINGER . ST. GEORGEN/SCHWARZWALD

DUAL RECORD CHANGER 1004





R1 to R6 and K denote adjustment points