

Garrard S.R.P.22

SINGLE RECORD PLAYER SERVICE DATA

GARRARD S.R.P. 22

GENERAL INFORMATION

Description

This unit will play any record up to 12'' diameter at turntable speeds of $33\frac{1}{3}$, 45 and 78 revolutions per minute. A retractable adaptor is fitted to the centre of the turntable for use when records with $1\frac{1}{2}''$ centre holes are to be played.

Operation

- Check that turntable speed and stylus are correct for the record to be played.
- Place a record on the turntable, lift the pickup arm and move it to the right to start the motor, then carefully lower the pickup on to the record.
- When the record has finished playing, the turntable will stop automatically. The pickup arm can then be returned to its rest.

Maintenance

Before carrying out maintenance, the record player should be disconnected from its power supply and the pickup cartridge's stylus protected.

To gain access to the mechanism, remove the turntable as follows:—

Turn the plastic adaptor at the centre counterclockwise and lift it, then compress the three legs in order to detach it. The spring clip holding the turntable can now be prised off sideways and the turntable lifted from its spindle. To replace the turntable, reverse this procedure and press the adaptor into position.

The turntable and intermediate wheel bearings rarely require lubrication. However, when the need is apparent, remove the turntable and lubricate them sparingly with thin machine oil, such as that used on sewing machines, taking great care to keep the periphery of the intermediate wheel, motor pulley and inside rim of turntable free from oil.

Before playing records with large centre holes, raise the plastic adaptor at the centre of the turntable by turning it counterclockwise. Turn the adaptor clockwise to retract it.

To stop the turntable before a record has been played completely, lift the pickup arm, move it inwards until the motor switches off, then return the arm to its rest. Clip the pickup arm to its rest when the unit is not in use, particularly before transporting it.

The induction motor may also require lubrication at extended intervals. A drop of thin machine oil should be applied to the rotor shaft where it projects from the top bearing and very occasionally another to the lower end of the shaft where it enters the bottom bearing. Both felt pads should be kept moistened with oil.

The battery motor should not be lubricated unless this is essential, in which case a trace of oil on the top bearing around the armature spindle will suffice.

Unit Mechanism

After prolonged use, oil all pivots sparingly with thin machine oil and smear a little medium grease, similar to petroleum jelly in consistency, over the sliding surfaces of the speed change lever and between the switch lever and unit plate.

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Adjustments

Provision is made to reset both stylus pressure and the height of the intermediate wheel in relation to the motor pulley, although neither facility will normally be required unless the pickup cartridge or motor has been replaced.

STYLUS PRESSURE should be set in accordance with the recommendation of the manufacturer of the particular pickup cartridge fitted, provided that this is not lower than 5 grammes. Pressure is adjusted by turning the milled disc at the back of the pickup arm. Looking from the front of the arm, turn the disc clockwise to increase pressure and counterclockwise to reduce it.

INTERMEDIATE WHEEL HEIGHT should be set so that the wheel runs in the centre of each step on the rotor shaft at the appropriate turntable speed. To alter the height, disconnect the record player from its power supply, remove the turntable (see maintenance section) and turn the screw on the intermediate wheel support bracket, clockwise to lower and counterclockwise to raise it. See Diagram I.

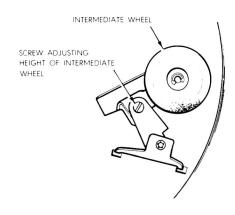


Diagram 1

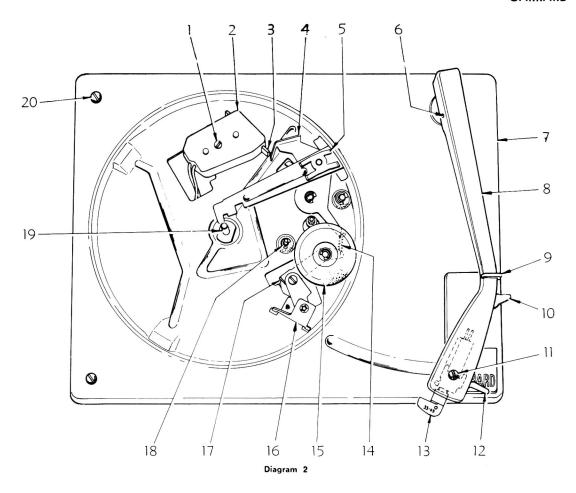
grease which may result in drive slippage. Check that side of intermediate wheel does not rub against adjacent pulley step. If it does, reset height as described in "Adjustments".

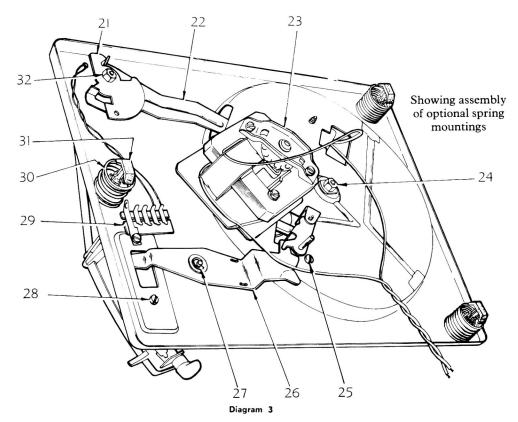
SERVICE CHART

NOTE:-Numbers in brackets refer to Spare Parts List.

FAULT	CAUSE	ACTION			
Turntable fails to revolve when motor is switched on.	I. No power supply.	Check that current reaches motor, by means of test meter or lamp.			
	2. Loose or broken connections in motor circuit.	Disconnect power supply and test leads and switch (2) for continuity. Reconnect or replace lead(s) or switch as necessary.			
	3. (a) Defective a.c. induction motor.	Remove turntable and disengage intermediate wheel (15) from motor pulley. Spin motor spindle. If tight, tap motor body sharply with light wooden object, e.g. screwdriver handle, to re-align bearings. If free, disconnect power supply and check continuity of windings. Replace stator if necessary.			
	(b) Defective battery motor.	Check continuity of armature by applying test meter to leads. Check carbon brushes, their springs and the tubes holding them by sliding the foam rubber muff from the motor case, taking out both screws retaining the terminal plate, removing plate and examining. Be extremely careful when releasing terminal plate in order to avoid loss of spring-loaded brushes. If the brushes have worn down to $\frac{5}{32}$ in. (4 mm) or less, replace them with a new pair supplied by our Spares Department. If the brushes do not move freely in their tubes, clean brushes and tubes before reassembling.			
	4. Defective drive.	Check that intermediate wheel rotates freely; oil its bearing if necessary. Check that tension spring (14) draws wheel firmly against turntable and motor pulley when switched on. Wipe driving surfaces of motor pulley, intermediate wheel tyre and turntable rim to remove any trace of oil or			

FAULT	I. Damaged turntable driving rim or bearing.		ACTION Replace turntable.		
Turntable speed fast, slow or unsteady.					
	2. Defective drive.		See "Turntable fails to revolve"—Cause 4.		
	3. Low battery voltage		Check with voltmeter with motor switched on; replace battery if voltage is below 6.5.		
	4. Induction motor is for a.c. power su use.		Replace rotor and top motor cover if frequency is incorrect or complete motor if voltage is incorrect.		
	Motor bearings alignment.	out of	See "Turntable fails to revolve"—Cause 3.		
	6. Damaged motor sp	pindle.	Replace rotor and top cover or armature assembly.		
	7. Friction in turntab ing.		Remove turntable; clean and lightly oil its spindle and bearing.		
	Oil or other foreign between commutat ments or governo tacts of battery mo	ator seg- nor con-	Remove foam rubber muff and bottom half of motor casing. Clean between segments with petrol-moistened cloth. Draw piece of thin, non-fibrous card between governor contacts.		
Speed control inoperative.	mediate wheel	n inter- support and its	Clean spindle and oil it lightly. Check condition of return spring.		
Pickup arm fails to track across record correctly and/	1. Stylus pressure too	oo low.	Reset pressure, see "Adjustments".		
or distorted sound output.	2. Stylus worn, damwrong stylus.	naged or	Replace stylus.		
	3. Stylus fitted incorr	rectly.	Check and correct.		
	4. Accumulation of around stylus.	of dust	Clean stylus.		
	5. Pickup arm not freely.		Check freedom of pivots; oil lightly if necessary. Check pickup leads; they should not be pulled tight.		
	6. Defective pickup ridge.	p cart-	Replace cartridge.		
Record player does not switch off at end of record.	Lug on operatin (22) which engage table striker is ber	es turn-	Bend it back to vertical position.		
Interference on reproduction.	Electrical interfrom battery motor	r.	If separate batteries are used for motor and amplifier, connect a 0.01-0.10 μ F capacitor between each motor terminal and the die cast case. If not, wire a reservoir capacitor, 50-5000 μ F, across battery terminals and connect amplifier, motor and battery leads at the capacitor.		
			Connect 0.05 μ F capacitor across motor terminals and/or small R.F. chokes in either or both leads from the battery as close to the motor as possible.		
			Experiment with earthing arrangements, taking care to avoid "earth loops".		





REPLACEMENT PARTS LIST

Insist on Genuine Factory Tested Parts, which are readily identified and may be purchased from Authorized Dealers.

	STOCK NO.	DESCRIPTION	rr	STOCK NO.	DESCRIPTION
SYMBOL	STOCK NO.	PARTS ABOVE UNIT PLATE	SIMBUL	STOCK NO.	PARTS BELOW UNIT PLATE
	*69 10950		27	*69 10005	Friction Plate
I 2	*63-10258 *63-10202	Screw, for Switch Switch, with Leads, for induction	21	*63-10235	Friction Flate
2	00-10202	motor	22	*63-10236	Operating Lever
	*63-10203	Switch, with Leads, for battery motor			Pad
	*63-10204	Switch, Body	23	*63-10237	Induction Motor with Mounting Plate
	*63-10205	Switch Cover Plate	23	05-10257	and Switch. (Please specify voltage
	*63-10206	Switch Blade. Induction Motor (1)			and frequency of power supply.)
	*60 10007	Battery Motor (2)		*63-10238	Stator and Coil. (Please specify power
	*63-10207	Switch Contact. Induction Motor (1) Battery Motor (2)			supply voltage)
2	*63-10208	Switch Plunger		*63-10239	Rotor with Top Cover, Bearing and
3	*63-10209	Switch Lever			Pulley. (Please specify power supply
7		Spring Clip, for Lever		*63-10240	frequency) Bottom Cover with Bearing
		Plain Washer		*63-10240	Mounting Plate for Induction Motor
5	*63-10210	Leaf Spring		05-10241	Screws, holding Stator to Mounting
6	*63-10211	Pivot Spindle, for Pickup Arm			Plate (3)
7	* * * * * * * * * * * * * * * * * * * *	Unit Plate, with Pins, etc.			Plain Washers, for Screws
*8	*63-10212	Pickup Arm, with Leads and counterbalance mechanism.			Spring Washers, for Screws
	*63-10213	Pickup Leads with Connectors.			Spacer for Screw
	*63-10214	Pivot Bracket.		*63-10242	Solder Tag, for Earthing Model 32 BM Battery Motor with
	*63-10215	Counterbalance Spring.		05-10242	Mounting Plate, Switch and Leads
	*63-10216	Counterbalance Screw.			Model 32 BM Battery Motor
	*63-10217	Washer, spacing Pickup Arm and Counterbalance Screw.		*63-10259	Mounting Plate for Battery Motor
		Spring Clip.		*63-10243	Carbon Brush (2)
	*63-10218	Spring Washer.		*63-10244	Compression Spring, for Brush (2)
	*63-10219	Adjusting Bracket.			Brush Holder Moulding
		Cover Plate, for top of Pickup Head.		*63-10245	Contact Plate Suppressor Capacitor, 1000pF
9	*63-10220	Clip, for Pickup Arm Rest		03-10243	Motor Leads—red and blue
10	*63-10221	Combined Speed Control Cover and		*63-10246	Bearing, for Armature (2)
11		Pickup Arm Rest Screw, holding Finger Lift and Pick-		*63-10247	Armature
11		up Cartridge			Screws, for Contact Plate, Mounting
13		Pickup Cartridge. Please specify make		*40 10040	Plate and Motor Covers (6)
		and type when ordering		*63-10248	Foam Rubber Muff, for Motor Cover
14	*63-10222	Tension Spring, for Intermediate	24		Plain Washer for Turntable Spindle
(Hidden)	1	Wheel for Induction Motor		*63-10249	Spring Washer, for Spindle
	*63-10223	Tension Spring, for Intermediate			Nut, for Spindle
15	*63-10224	Wheel for Battery Motor Intermediate Wheel	25		Screw, for Intermediate Wheel Sup-
13	05-10224	Spring Clip, for Wheel			port Bracket
		Fibre Washers, above and below	26	*63-10250	Speed Changing Lever
		Wheel (2)	20		
16	*63-10225	Support Lever and Bracket, for Wheel	27	*63-10251	Compression Spring
17	*63-10226	Support Lever, for Wheel Motor Mounting Grommets for Bat-			Plain Washer Spring Clip
18	*63-10227	tery Motor (3)			Spring Cnp
	*63-10228	Motor Mounting Grommets for In-	28		Screws, for Speed Control Cover (2)
		duction Motor (3)	20	*63-10252	Pickup Lead Connecting Strip
	*63-10229	Spring Clips, for Motor Mounting	29	63-10252	Pickup Lead Connecting Strip
		Pillars (3)	30	*63-10253	Suspension Springs-Left Hand Side
19	*63-10230	Turntable Spindle			(optional) (2)
20		Wood Screws, for fixing (3)		*63-10254	Suspension Spring—Right Hand Side
		Screws, for Spring Mounts if fitted (3)			(optional)
		Fibre Washers for Screws (3)	31	*63-10255	Plastic Mounts, for Suspension
1		Turntable with Mat			Springs (3)
1	*63-10231	Turntable	32	*63-10256	Nut, for Friction Plate
Not	*63-10232	Turntable Mat	32	00-10200	Plain Washer
Shown	*63-10233	Adaptor for 7in. records with large			
	*63-10234	centre holes Spring Clip, retaining Turntable	Not		Spring Mounting Kit
,	03-10234	Spring Cilp, retaining Turntable	Shown		(optional)

^{*} Indicates New Stock Items. Only items listed under stock numbers are available as Replacement Parts.

All parts subject to change or withdrawal without notice.

