XXII. METHOD OF REMOVING OPERATING MECHANISM SUB-PLATE

(a) Unsolder pick-up leads from muting contacts or tag plate on underside of unit plate.
(b) Remove Turntable as described in Section I.
(c) Remove Drive Pulley (No. 5102 Fig. 4) (the larger of the two rubber pulleys) by loosening two 6 B.A. cheese headed screws in Drive Pulley Boss and lifting pulley off spindle (Part 5154 Fig. 1).
(d) Remove pick-up see Section XVI.
(e) Remove three self-tapping screws (No. 1650) from round Turntable spigot housing (No. 5261) and two from round the pick-up base.
(f) Unclip motor leads from under solder tag near record spindle.
(g) As the entire mechanism sub-plate and its components will now fall away from the unit plate a hand should be placed below to avoid any damage occurring. The sub-plate now appears as shown in Fig. 1.

XXIII. TO RE-FIT OPERATING MECHANISM SUB-PLATE

(a) Place complete mechanism In position from the underside. insert three self-tapping screws (No. 1650) around the Turntable spigot housing. Two round pick-up base.
(b) Tighten all five screws.
(c) Re-fit drive pulley and adjust to contact the 45 r.p.m. diameter of motor pulley and yet give ample clearance between bottom of rubber and top face of 78 r.p.m. diameter.
(d) Re-fit Turntable (see Section I.)
(e) Refit pick-up (see Section XVII.)
(f) Adjust pick-up for height (see Section XV).
(f) Check record dropping and adjust if necessary (see Sections XVIII & XIX).

XXIV. REMOVING CAM GEAR ASSEMBLY

(a) Lift Pick-up positioning lever No. 5343 clear of Cam gear edge.
(b) Remove circlip 2871 Fig. 1.
(c) Lift cam gear assembly 5270 Fig. 1 clear of spindle 5148.

XXV. REFITTING CAM GEAR ASSEMBLY

(a) Place Cam Gear assembly 5270 over Pivot 5148. Fig. 2 at the same time push Record Dropping Slide No. 5172, Fig. 3, toward record spindle, turn cam until Locating Roller No. 5113, Fig. 2, locates in slot.
(b) Replace washer and circlip.
(c) Place positioning lever on Cam.

XXVI. REMOVING INTERMEDIATE GEAR

(a) Remove Cam Gear, See Section XXIV.
(b) Remove Nut No. 1276, Fig. 3.
(c) Lift Drive Wheel Release lever assembly No. 5242, Fig. 2.
(d) Intermediate Gear Assembly No. 5269 may now be lifted off spindle.

XXVII. REFITTING INTERMEDIATE GEAR

(a) Make sure that steel washer is on spindle then replace Intermediate Gear over spindle with the small boss towards the bracket.
(b) Place completed sub assembly on sub plate No. 5243 with spindle through long boss and pin on lever 5242 locating in hole in lever 5197.
(c) Fit self locking nut No. 1276, Fig. 3, on screwed end of spindle and tighten up to give ·005" clearance between gear boss and sub plate.
(d) Replace cam gear assembly see Section XXV.
Check that there is reasonable backlash between each gear.

XXVIII. REMOVING PICK-UP PIVOT ASSEMBLY

(a) Remove Cam Gear. See Section XXIV.
(b) Undo two screws on underside of Sub-plate.
Reverse procedure to refit.

NOTE:—It is not recommended that this assembly be broken down any further except by the qualified Service Engineer.

XXIX. BALANCING ARM ADJUSTMENT

Should the records on the dropping spindle step be out of square with the unit plate, they may be brought into the correct relationship by means of the adjusting screw " H ", Fig. 4.
This adjustment must be carried out by " trial and error " and the balancing arm should be lifted from the records and replaced after each slight adjustment.
After carrying out this adjustment, check that the pick-up clears the underside of the records on the step by $\frac{1}{8}$" see Section XV.