

RESTRICTED  
Priority: A

WIRELESS SET CDN NO. 29

Miscellaneous Instruction

1. Some ZA/CAN 2059 Crystal Units, Quartz, 1000-kc, No. C2 now in use in Wireless Sets, Cdn, No. 29 have proven to be unreliable. They will be removed by 1st to 4th line maintenance personnel and replaced with a tested crystal (identified by a red top).
2. The tested crystals are available through normal Ordnance channels under ZA/CAN 2059 Crystal Unit, Quartz, 1000-kc, No. C2 (Red Top). Removed crystals will be returned through Ordnance channels to 25 COD.

END

HQ 223-31-1-18 TD 17 CPSB 4062

RESTRICTED

WIRELESS SET CANADIAN NO. 29  
MISCELLANEOUS INSTRUCTION

## SUMMARY

1 This instruction covers the arcticization of W/S Cdn No. 29 prior to issue for operation under Arctic conditions. It entails the cleaning of certain components and lubricating them with a low temperature grease.

## 2 Action required

By 2nd to 4th line maintenance personnel.

## 3 Stores required

PART NO.	DESIGNATION	QUANTITY
3-GP-27	Naphtha	½ gal
1H 21980	Oil 3-GP-335 instrument corrosion inhibiting	1 oz
1H 18364	Grease silicon phenyl	1 oz

RCEME workshops will obtain from RCOG spare parts sections except naphtha which is an RCASC supply.

## DETAIL

4 The arcticization of the W/S Cdn No. 29 will be carried out as detailed below.

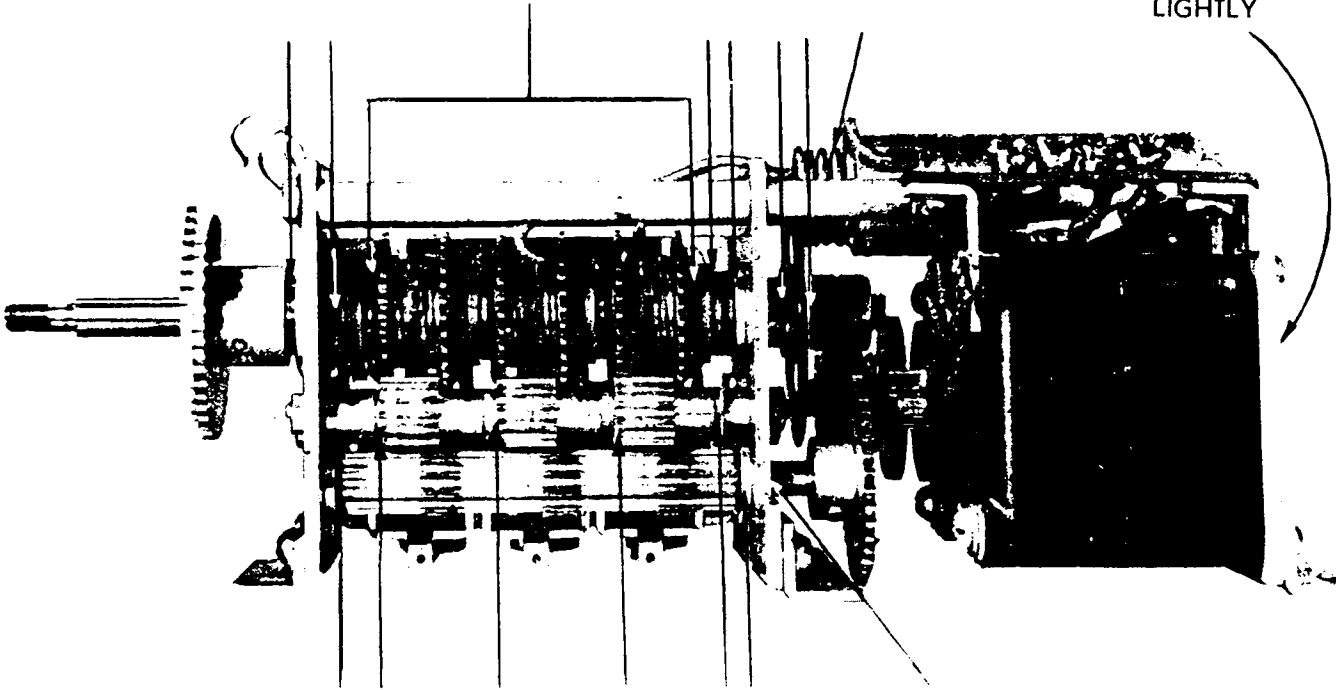
- (a) Unsolder and disconnect wiring to the "RF" and "Osc" preselector mechanisms.
- (b) Remove
  - (i) Retaining screws;
  - (ii) Locking knobs;
  - (iii) Ball thrust bearings;
  - (iv) Tuning knobs.
- (c) Remove
  - (i) 6 screws mounting "RF" preselector mechanism;
  - (ii) 6 screws mounting "Osc" preselector mechanism.
- (d) Preselector mechanisms may now be removed from set.
- (e) Immerse the complete preselector mechanism in naphtha for one hour to remove existing lubrication.
- (f) Expose to the air until dry.
- (g) Oil lightly with instrument oil at points indicated in Figs 1, 2 and 3 taking care to keep the oil **OFF** the gears.
- (h) Install the preselector mechanisms in set replacing the 6 mounting screws in each unit.
- (j) Replace
  - (i) Tuning knobs;
  - (ii) Ball thrust bearings;
  - (iii) Locking knobs;
  - (iv) Retaining screws.
- (k) Connect and solder wiring to "RF" and "Osc" preselector mechanisms.

*NOTE: Wiring colour code is shown in Tels F 354 Instr 1 Fig 1001.*
- (l) Remove knob and cover plate from the A.T.U.
- (m) Clean shaft and bearing with Naphtha.
- (n) Lubricate shaft and bearing lightly with silicon grease as shown in Fig 4.
- (o) Reassemble the A.T.U.

5 Check operation of set and variometer in accordance with Tels F 354.

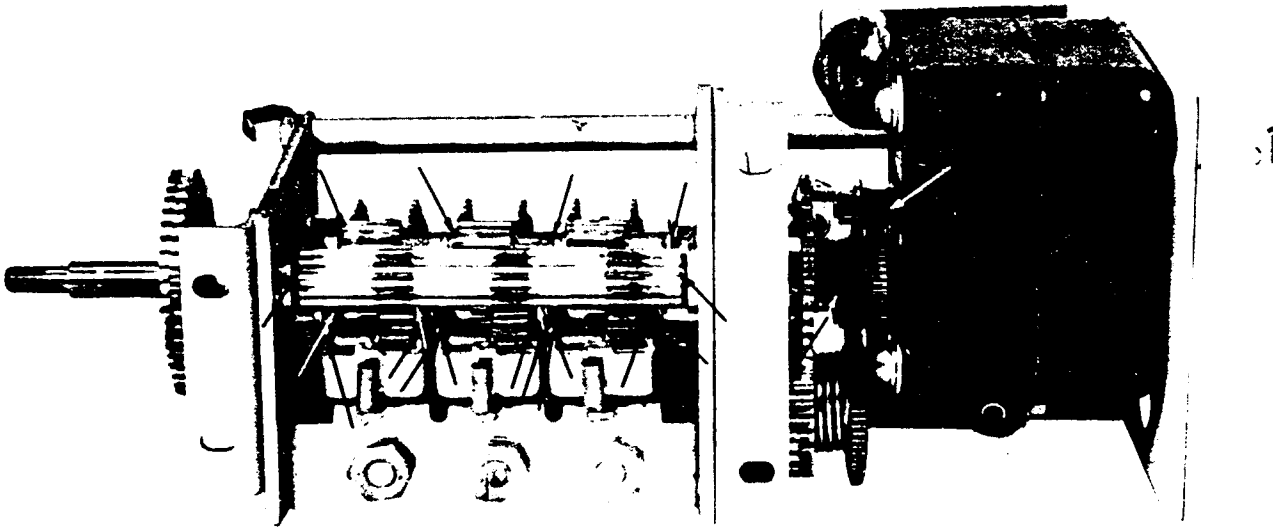
OIL EACH WASHER & GEAR LIGHTLY

OIL REAR  
MOTOR BEARING  
LIGHTLY



ARROWS INDICATE POINTS TO BE LUBRICATED  
LIGHTLY WITH INSTRUMENT OIL

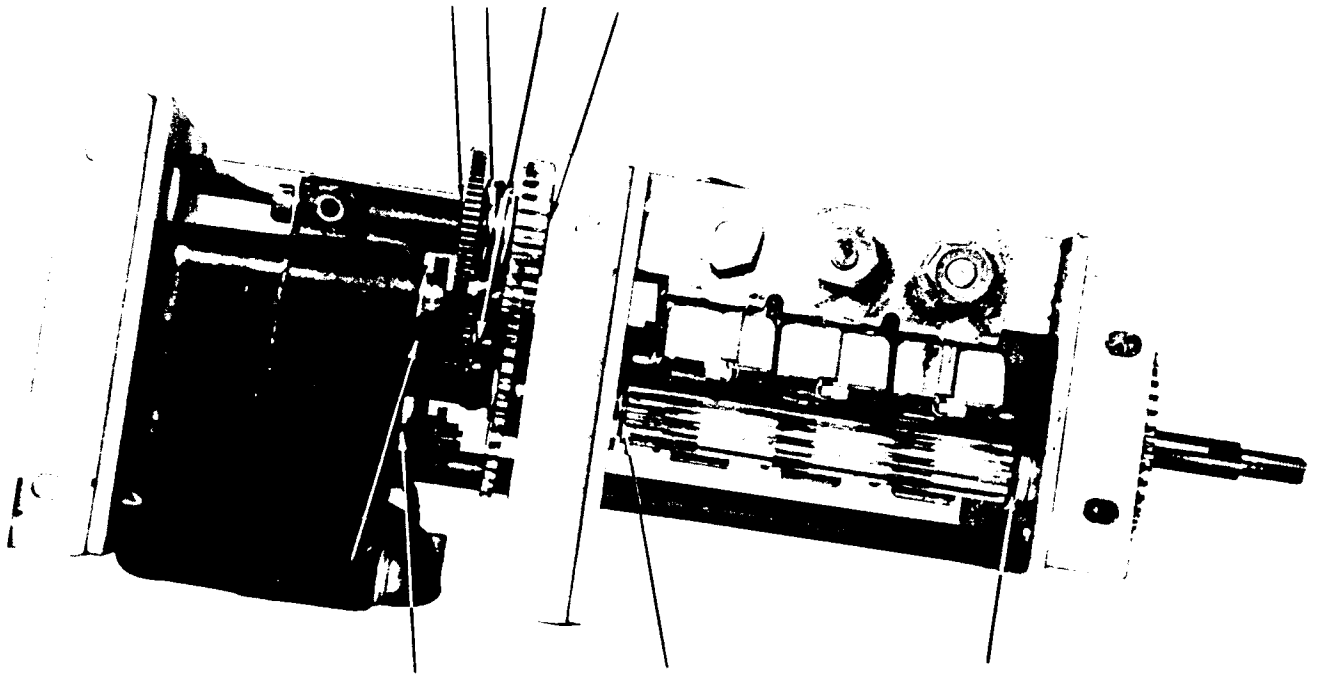
FIG 1—PRESELECTOR MECHANISM W/S CDN 29 SHOWING LUBRICATION POINTS FOR WINTERIZATION



ARROWS INDICATE POINTS TO BE LUBRICATED  
LIGHTLY WITH INSTRUMENT OIL

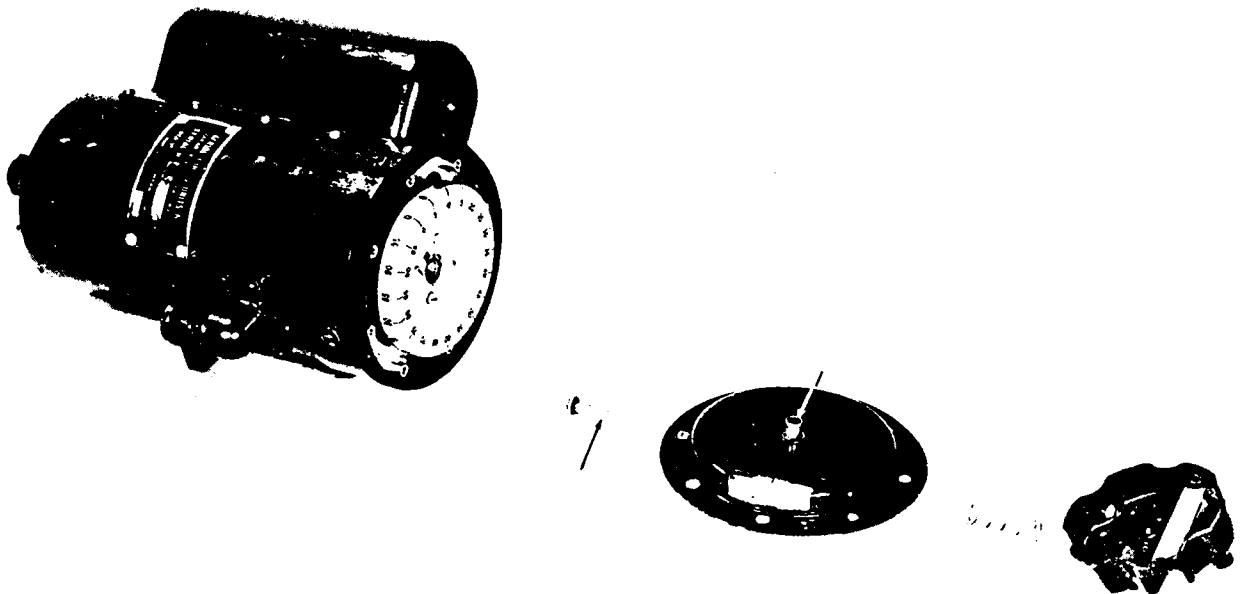
FIG 2—PRESELECTOR MECHANISM W/S CDN 29 SHOWING LUBRICATION POINTS FOR WINTERIZATION

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ARROWS INDICATE POINTS TO BE LUBRICATED  
LIGHTLY WITH INSTRUMENT OIL

FIG 3—PRESELECTOR MECHANISM W/S CDN 29 SHOWING LUBRICATION POINTS FOR WINTERIZATION



ARROWS INDICATE POINTS TO BE LUBRICATED  
LIGHTLY WITH SILICON GREASE

FIG 4—A.T.U. W/S CDN 29 SHOWING LUBRICATION POINTS FOR WINTERIZATION

END