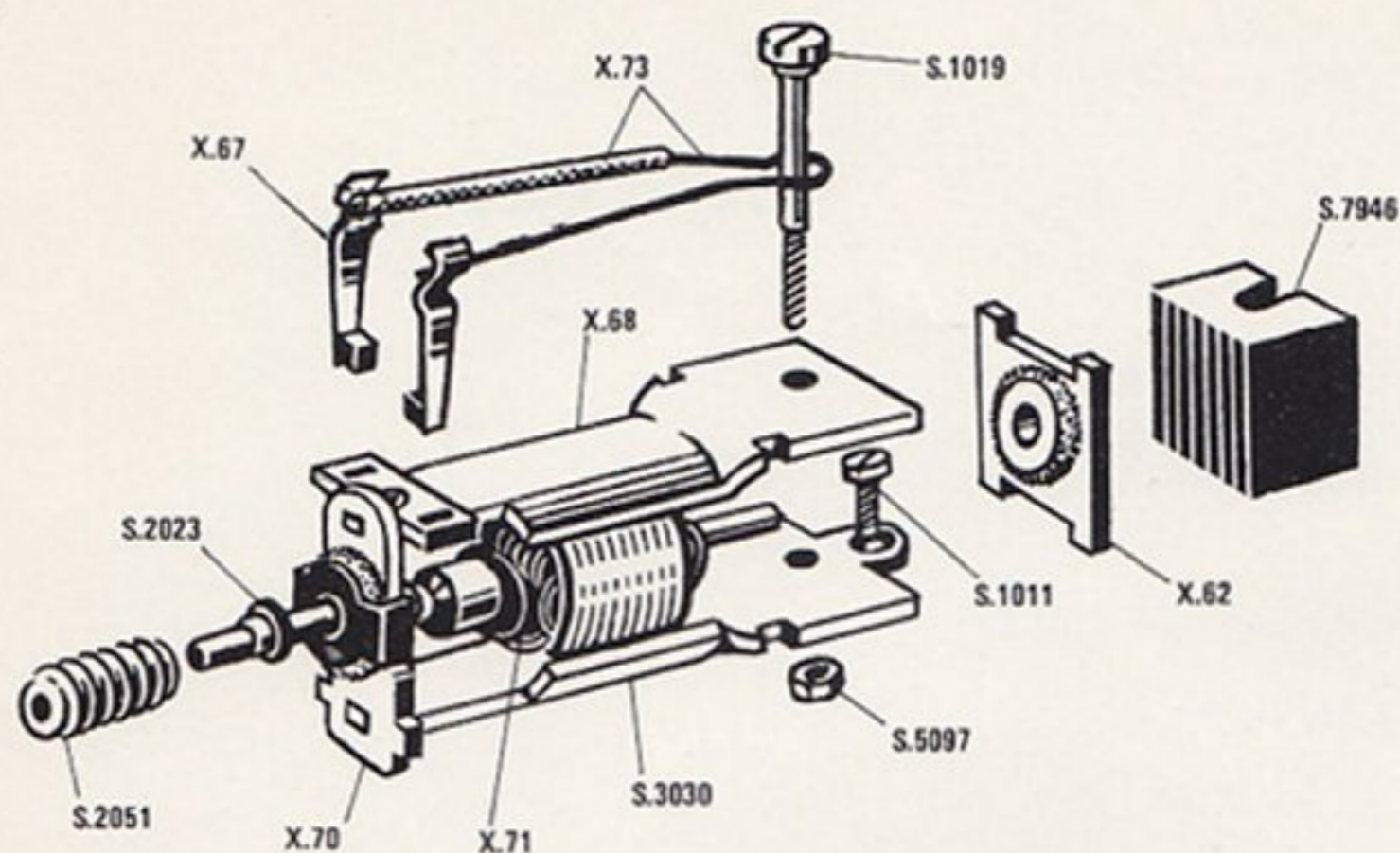
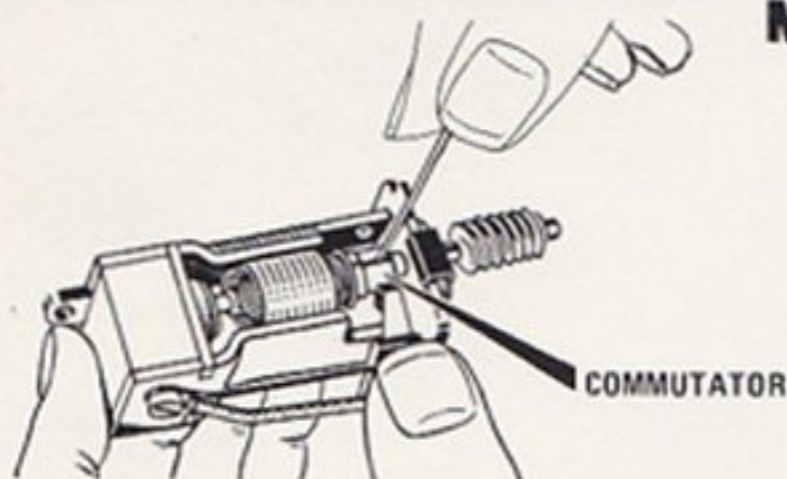


## X.04 ELECTRIC MOTOR - 12 VOLTS D.C.



- X.62 Back Plate and Bearing
- X.67 Brush Arm and Brush
- X.68 Top Pole Piece with Diaphragm
- X.70 Front Plate and Bearing
- X.71 Armature and Commutator
- X.73 Brush Spring and Insulator
- S.1011 Motor Securing Screw
- S.1019 Magnet Screw
- S.2023 Thrust Bush
- S.2051 Two Start Worm
- S.3030 Bottom Pole Piece
- S.5097 Magnet Nut
- S.7946 Magnet

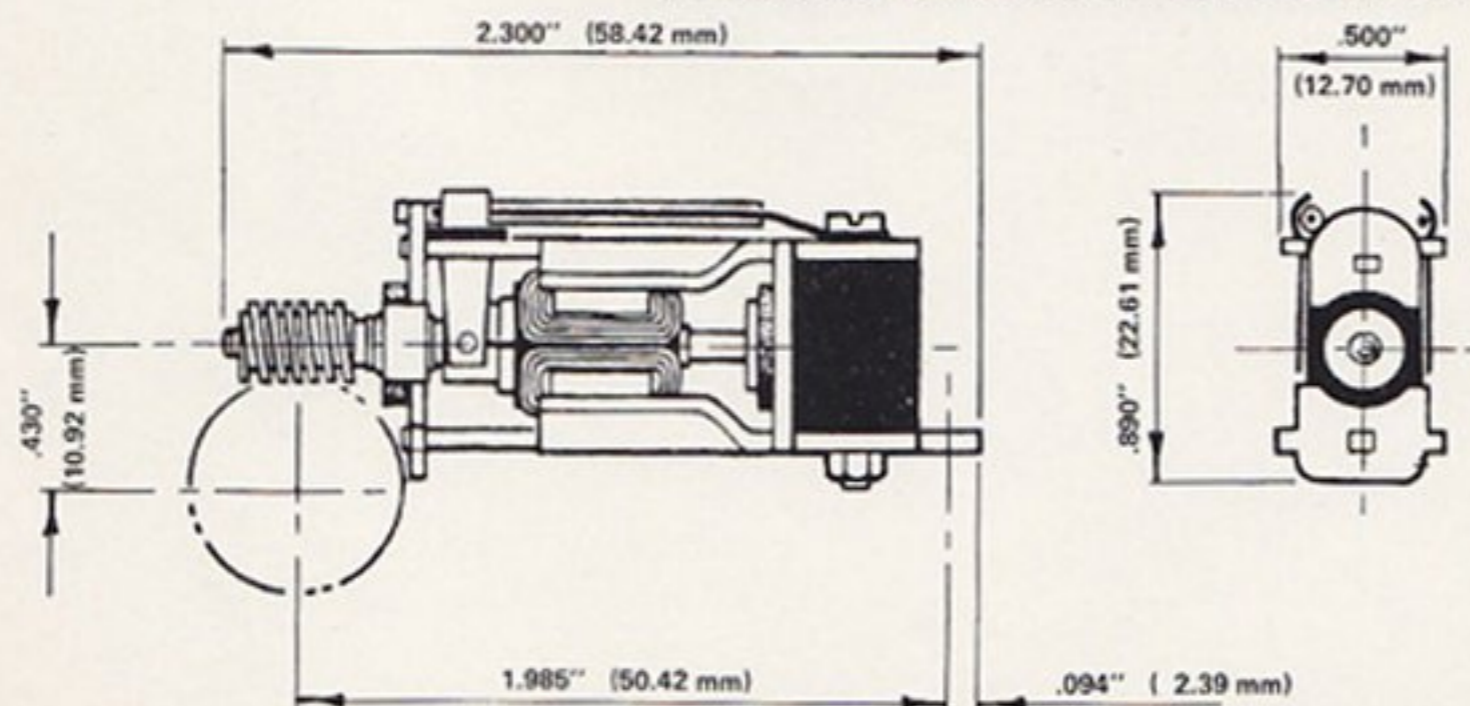
### MAINTENANCE



With use, carbon from the brushes will accumulate in the commutator slots. These must be cleaned regularly as shown, using a pin or sharpened matchstick.

Always ensure that there is oil on the felt oil retaining pads but NOT on the commutator.

### TECHNICAL SPECIFICATION



- POLES..... 3
- SHAFT DIAMETER..... .0940" (2.388 mm)
- ARMATURE DIAMETER..... .500" (12.70 mm)
- CURRENT..... 0.25 AMPERES
- DRIVE..... TWO START WORM
- REDUCTION RATIO..... 20 to 1
- MAGNET..... ALCOMAX III
- BEARINGS..... OIL RETAINING BRONZE
- ARMATURE SPEED..... 20,000 R.P.M.

*Modifications are made to models from time to time. If a spare part is required which does not coincide with the illustration, a full description should be given and, if necessary, a sketch or sample should accompany the order.*