



SM-E0006

SERVICE MANUAL

For : Volvere GX

Micro Motor



GX-35M

Parts List No. F-001

GX-35EM

Parts List No. F-002

NSK
NAKANISHI INC.

1. TOOLS REQUIRED

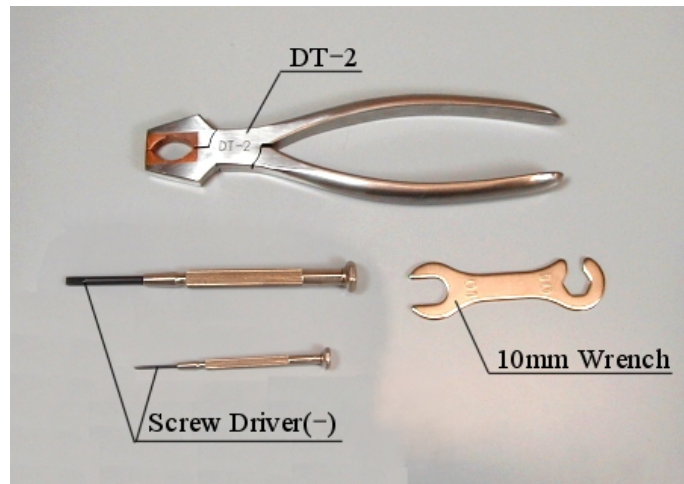


Fig. 1

2. REPLACEMENT OF ARMATURE

2-1 Disconnecting Cord from Motor

Turn the rear nut clockwise and remove it. Do not break pins of the connector ass'y. (See Fig. 3)

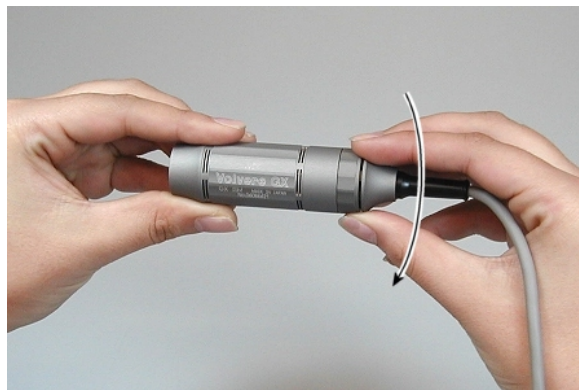


Fig. 2

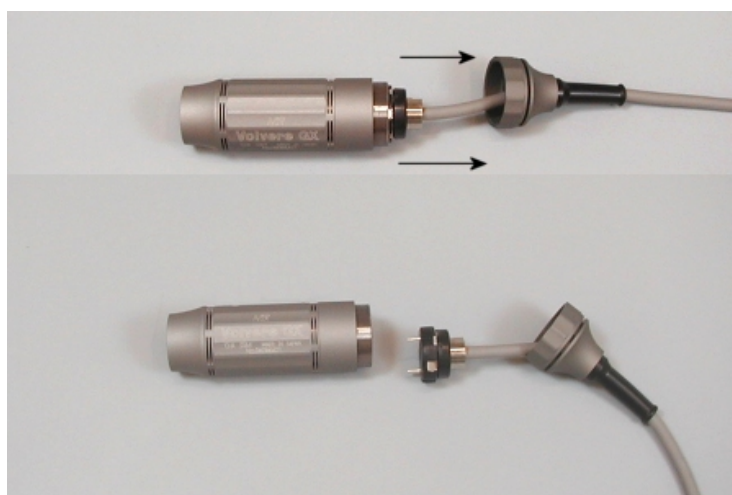


Fig. 3

2-2 Loosening Housing Screw

Loosen the housing screw with a screwdriver as shown in Fig. 4. (It does not have to be removed, but only loosened.)

Disassemble on a tray to prevent parts from losing.



Fig. 4

Put sandpaper on the spiral ridge of motor for protection and loosen it with DT-2 to remove the armature ass'y. (See Fig. 5) See Fig. 6 about parts.

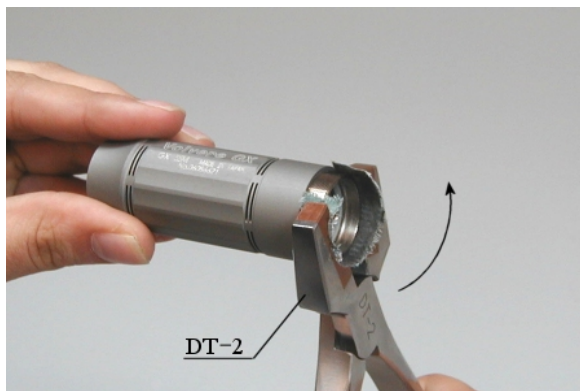


Fig. 5

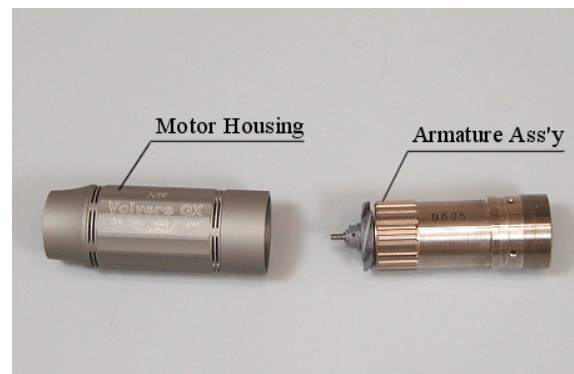


Fig. 6

3. REPLACEMENT OF CARBON BRUSHES

3-1

Loosen the rear nut at the end of motor and disconnect cord from motor. See Fig. 7.

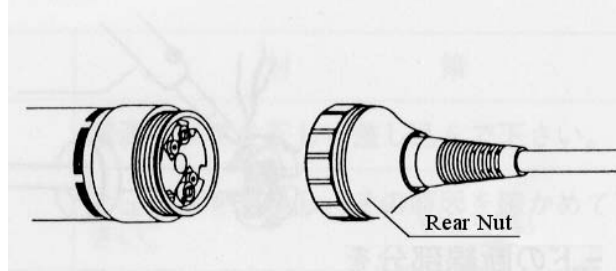


Fig. 7

Remove setscrews of carbon brushes at the end of motor with a screwdriver, and then pull out carbon brushes. See Fig. 8.

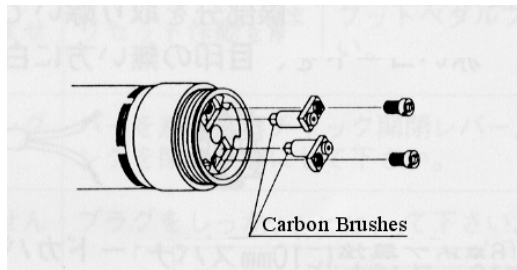


Fig. 8

Do not disassemble the armature ass'y because it could cause troubles.

4. HOW TO REPAIR MOTOR CORD

In case a part of cord is broken near motor, repair it in the following way:

4-1 Loosen the rear nut of cord and disconnect cord from motor. Move the rear nut backward. See Fig. 9.

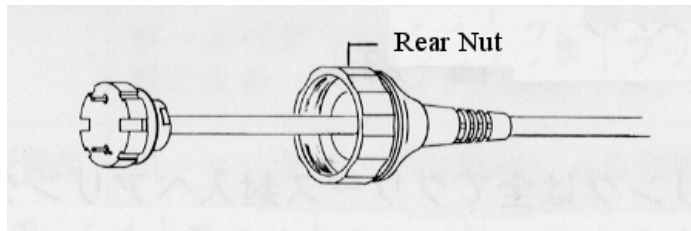


Fig. 9

4-2 Loosen the retainer nut with 10mm wrench. See Fig.10.

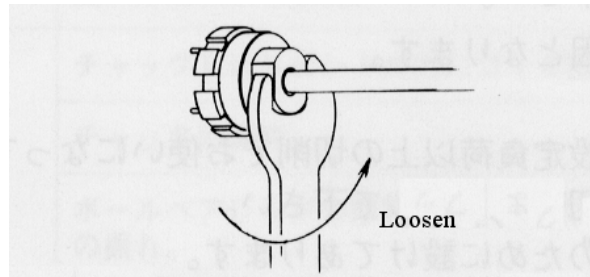


Fig.10

4-3 Remove the cable cover and the cable retainer. (Be sure not to lose parts)
See Fig.11.

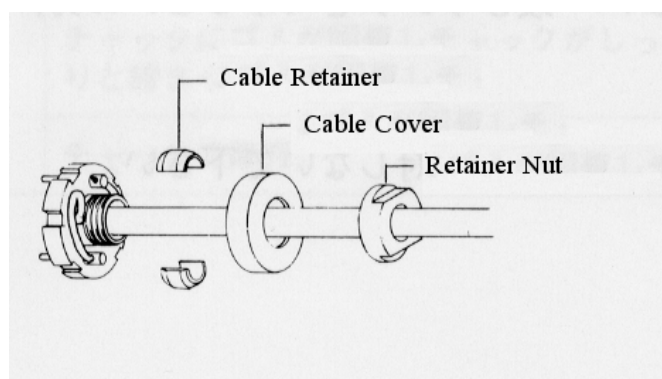


Fig.11

4-4 Remove both solders on red and white cords by soldering iron. Do not heat too much to protect the connector ass'y from melting. See Fig.12.

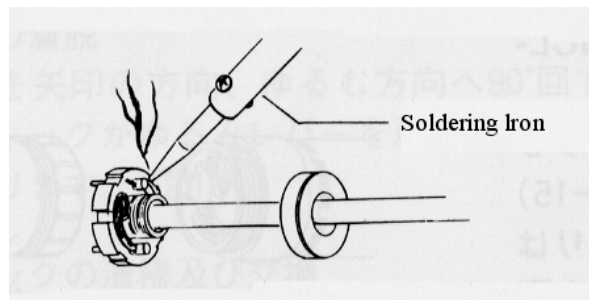


Fig.12

4-5 Cut out the broken part of cord. Solder each cord and terminal according to marked color; the red cord to the pin with red mark or (+) mark. See Fig.13.

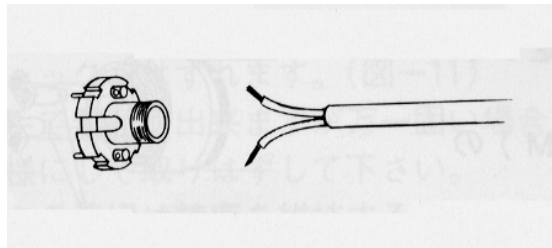


Fig.13

5. Cautions

Caution to connect Motor and Cord

After aligning the red mark / (+) mark of motor and the red mark of the connector ass'y, insert pins into motor.

Install the rear nut, after the connector ass'y is installed or pins are totally inserted. If the connector ass'y and the rear nut are installed at the same time, pins might break. (See Fig.14, 15)

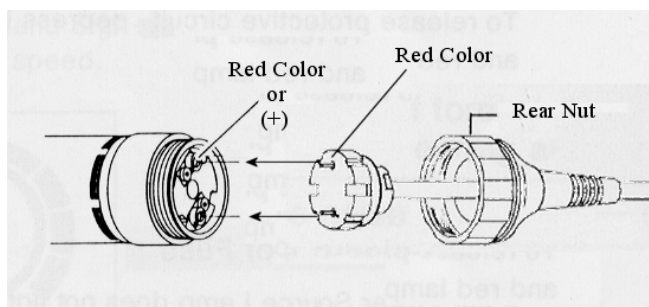


Fig.14



Fig.15



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