DC-MOTOR YZC 800 DESCRIPTION

















The motor's magnet frame is an octagon molded steel plate frame, which is a part of magnetic circuit and also it is the first component of the motor.

There are three inspection windows

•Support for field

•Support for bearings

•Support for DC-motor equipment.

FRAME





FIELD: 8 excitating coils are fixed inside the frame.

4 main coils 2 north poles and 2 south poles create the flux

4 commutator coils for lower the commutation & raise magnetic capacity

FIELD







COMMUTATOR-END



The commutator is a vital part of every DC motor, it deserve the best os care. The fact that a commutator usually shows signs of distress before trouble actually occurs, is big help to the maintainer. If you can recognize these signs and know what to td, you can often correct the trouble before it becomes serious.

Function

A commutator has three functions:

- 1) It provides the required sliding electric contact between the fixed brushes and the moving armature to remove or apply electrical energy to the machine.
- 2) It act as a reversing switch as the ends of the armature coils pass the brush positions the commutator switches them from one circuit to another where the current is flowing in the opposite direction. Thus all the coils have current flowing through them in the proper direction at all time.
- 3) It also brings to the brush surface the voltage of each armature coil in the circuit. These voltages add up bar between brushes. As a result, the total operating voltage of the machine appears at the brushes











The quality of the contact between brushes and commutator are paramount to preserve a good functionnality of DC motor.









LEAD CONNECTING BOX







