

1327 High Performance AC Motor for use with the 1392 Drive Fan and Encoder Replacement Procedures

External Fan Replacement

1. Disconnect the lead wires connected to the terminal block in the terminal box and to the condenser.
2. Remove the casing.
3. Remove the finger guard and the external fan.
4. Mount a new external fan - Check to see that the blades do not hit the casing.
5. Re-assemble by reversing the previous sequence:
 - Cut the lead wires inside the terminal box to appropriate lengths and remount terminals of the same sizes.
 - Fill ThreeBond No. 1212 (silicone) in the lead wire inlet for water-proofing.

Encoder Replacement

Replace as follows after removing the casing. *Do not damage the disk rim or place a magnet near the disk.*

Built-in type, A-B kit #'s 126056, 126057, 126058 (Yaskawa #'s BE8450329, BE8450515, BE8450516):

1. Remove the encoder cover.
2. Remove the lead wire connector on the PC board.
3. Remove the washer.
4. Heat the disk to 100 °C and remove the disk from the motor shaft using the threaded holes for removal.
5. Unfasten the sensor base mounting screw. Remove the sensor base from the bracket using threaded holes for removal after heating it to 80 °C.
6. Reassemble by reversing the previous instructions. Coat Loctite 648 on the washer mounting, screws and coat Loctite 242 on the base mounting screws. Assemble the disk by facing the V groove used as a mark to the opposite drive end and check that the gap between the disk and holder is within +/-13 micrometer the value written on the disk.

Complete type, A-B kit #126059 (Yaskawa # BE8450330)

1. Remove the encoder cover.
2. Remove the lead wire connector on the PC board.
3. Unfasten the support mounting screws on the bracket.
4. Unfasten the encoder shaft mounting bolt on the motor shaft, drive a metric bolt (size=M8) in the threaded hole of the encoder shaft. The bolt will push against the motor shaft and push the encoder off.
5. Reassemble by reversing the above sequence. Coat Loctite 648 on the encoder shaft mounting bolt, and coat Loctite 242 on the support mounting screws.