

JOHNSON/EVINRUDE SHIFT ROD MODIFICATION

35HP- 1980 to present - Model "Q" Jet Drive

1. To install the jet drive, it is necessary to cut the shift rod which extends below the engine exhaust housing mounting flange. The cut ends of the rod can then be threaded to receive a coupling so that the gearbox can be remounted on the engine when desired.
2. Caution Using a hacksaw cut exactly 3-7/8 inches off the end of the shift rod. This is more easily done by placing a small wooden block between the rod and the exhaust housing and using a "C" clamp to hold the rod steady against the block and exhaust housing. Using a file, bevel the cut edges of each piece to allow starting the threading die.
3. Use oil on the rod and die. Thread the upper rod (in the engine) back 1/2 inch. Be gentle when turning the die with a wrench so as not to twist the rod excessively and possibly break it off up in the engine. Do not use a pipe wrench to steady the rod as this would score it where it slides through the cone seals in the water pump. File off any burrs on the rod where the thread ends.
4. Grip the lower end of the cut off rod in a vise and thread it back just 3/8 inch, not more. Again, holding the rod in a vise, slide the drilled end of the coupling over the rod and thread it into place, jamming the ends of the threads to lock the coupling permanently to the rod. Install the rod in the gearbox, leaving the nut loose so that the rod and coupling can be turned to engage the upper shift rod threads when installing the gearbox.
5. When mounting the gearbox, be sure the shift rod cone seals and pump gasket are installed on the water pump. Slide the gearbox into place while threading the coupling onto the upper shift rod. Do not overtighten. Lock the lower nut and ferrule which secures the rod from turning.
6. It is necessary to cut clearance into the upper forward bosses of the plastic water inlet screens to clear the rod coupling. Use a hacksaw. See the diagram on the reverse side of the sheet.

Threading die and holder (465). If not needed again, return for refund.

Coupling (464)

Outboard Jets
2035 Edison Ave.
San Leandro, CA 94577

Die and holder shown on rod
in threading position

