

Gear Box Lubricant - Contd.

Standard SAE 90 transmission lubricant is now being tested. Indications are that it will do a more satisfactory job. Removal of filler plug allows checking of liquid lubricant. A drain plug is added. This lubricant will be specified as soon as the new drive shafts are in use.

Trigger Lever Stud

Fault:- The Allen screw used for this stud caused problems in alignment at assembly and developed looseness in use.

The part was changed to a heat treated stud permanently assembled to the gear box with Loctite on the screw threads. It is now being used on all automatic traps. 83

Production Drawings

No drawings were available for the Expert, Blue Rock, and Wonder Traps. Drawings for these traps are complete except for material specification. Most of these are available only from the parts vendors.

Drawings for the M/200S and M/100T are being revised as necessary. The remainder are being checked and will be transmitted during January or when materials specs are available

Targets

Non-uniformity in targets causes feeding problems which are extremely difficult to eliminate through trap design. Out-of-roundness, excessive flash, variation in height, and sticking together in the feed magazine are major problems.

FUTURE PROGRAM

Testing of endurance and function continues. The objective is a minimum of 30,000 cycles without adjustment and 60,000 cycles without parts replacement.

Plans have been completed to take high speed pictures in order to study carrier shape and other critical items. It is thought that the carrier shape can be improved to reduce target breakage.