

HAND-OPERATED MASONRY DRIVE TOOLS

DESCRIPTION AND USE

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1. GENERAL

1.01 This section covers the description and use of hand-operated masonry drive tools.

1.02 This section is reissued to show minor changes in the Omark and Shure-Set tools and to add the dressing of mushroomed ends of the rams.

1.03 Masonry fasteners are covered in Section 462-030-130.

1.04 When driving fasteners into concrete containing very hard aggregate or special types of hard brick, "fish hooking" of fasteners or spalling of surfaces may be encountered. On brittle surfaces, such as glazed brick or ceramic tile, cracks may develop. To minimize these condi-

tions it is advisable to drive into mortar joints or use the drill method. When driving into mortar joints it is advisable to select the horizontal joint rather than the vertical because of the greater holding power developed by the fastener.

1.05 Best results are obtained in driving fasteners when a 2-pound hammer is used with the drive tool.

1.06 PRECAUTION: EYE PROTECTION[†]
MUST BE WORN to protect the eyes when driving fasteners or drilling holes in masonry or similar materials.

1.07 If the ends of the driving ram should become mushroomed, dress down the ends with a file. ↴

2. DESCRIPTION

2.01 Figs. 1, 2, 3 and 4 show the various commercial tools and their component parts. Satisfaction with hand-operated drive tools is dependent upon proper usage.

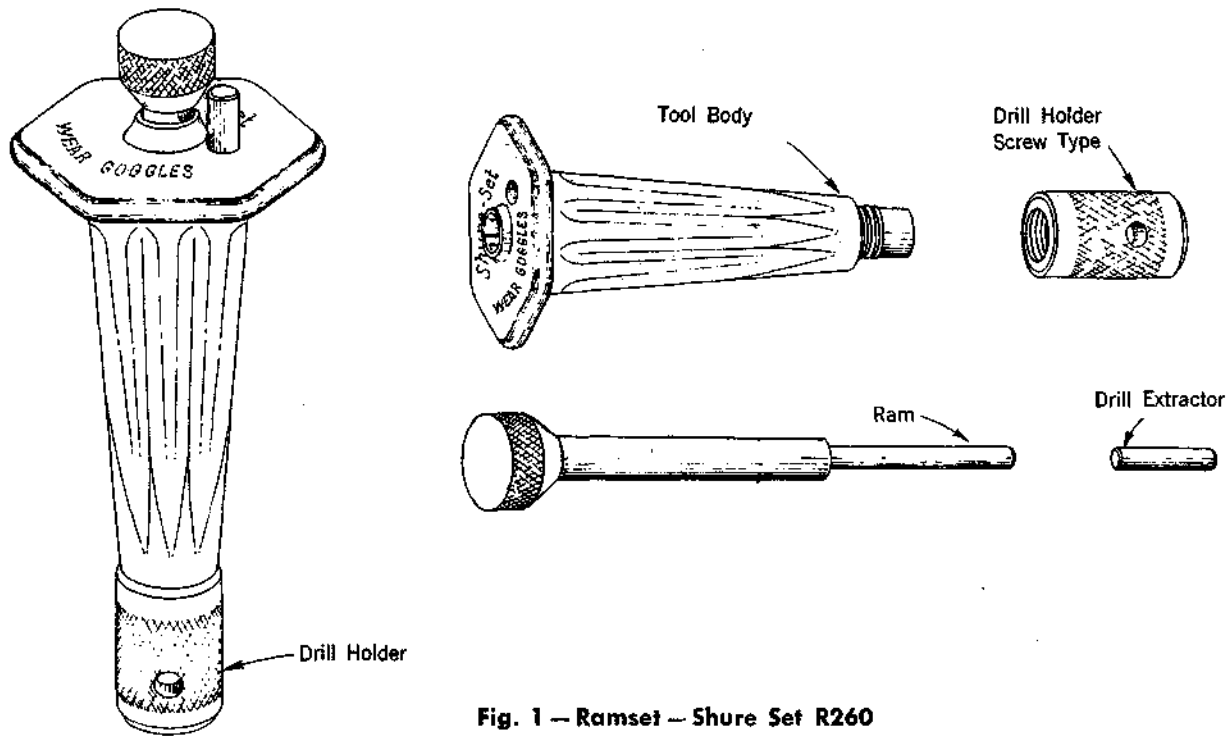


Fig. 1 — Ramset — Shure Set R260

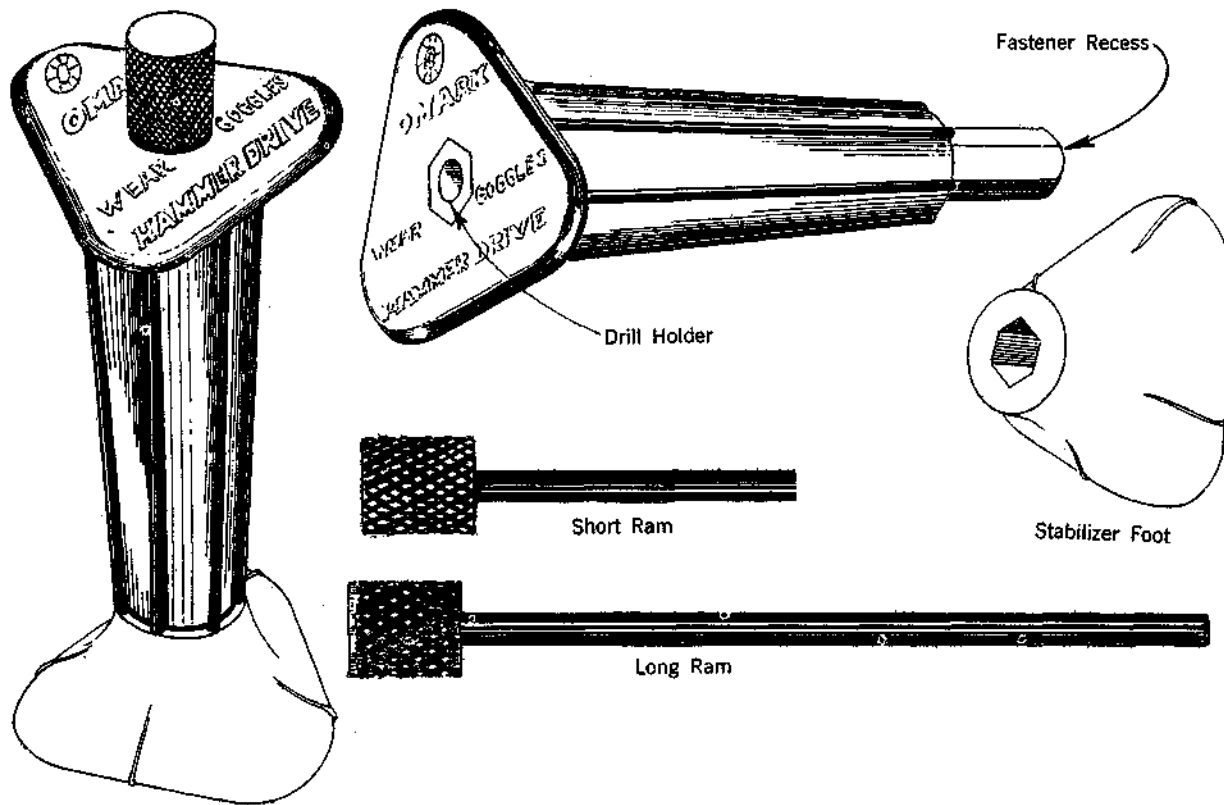


Fig. 2 — Omark-Quick Drive — Part No. 46017

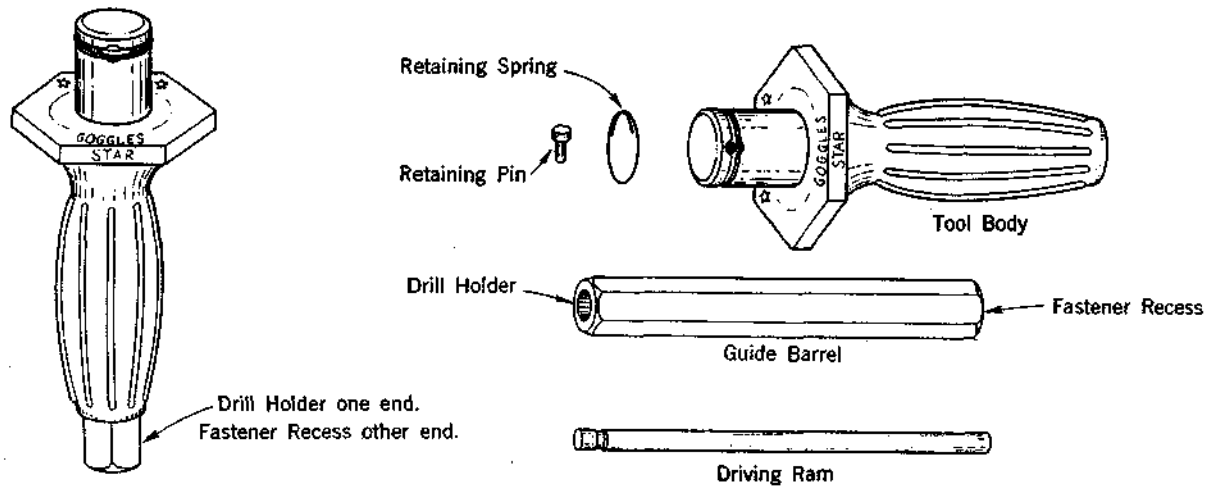


Fig. 3 — Star-Hamdriver — Catalog No. 7900-7

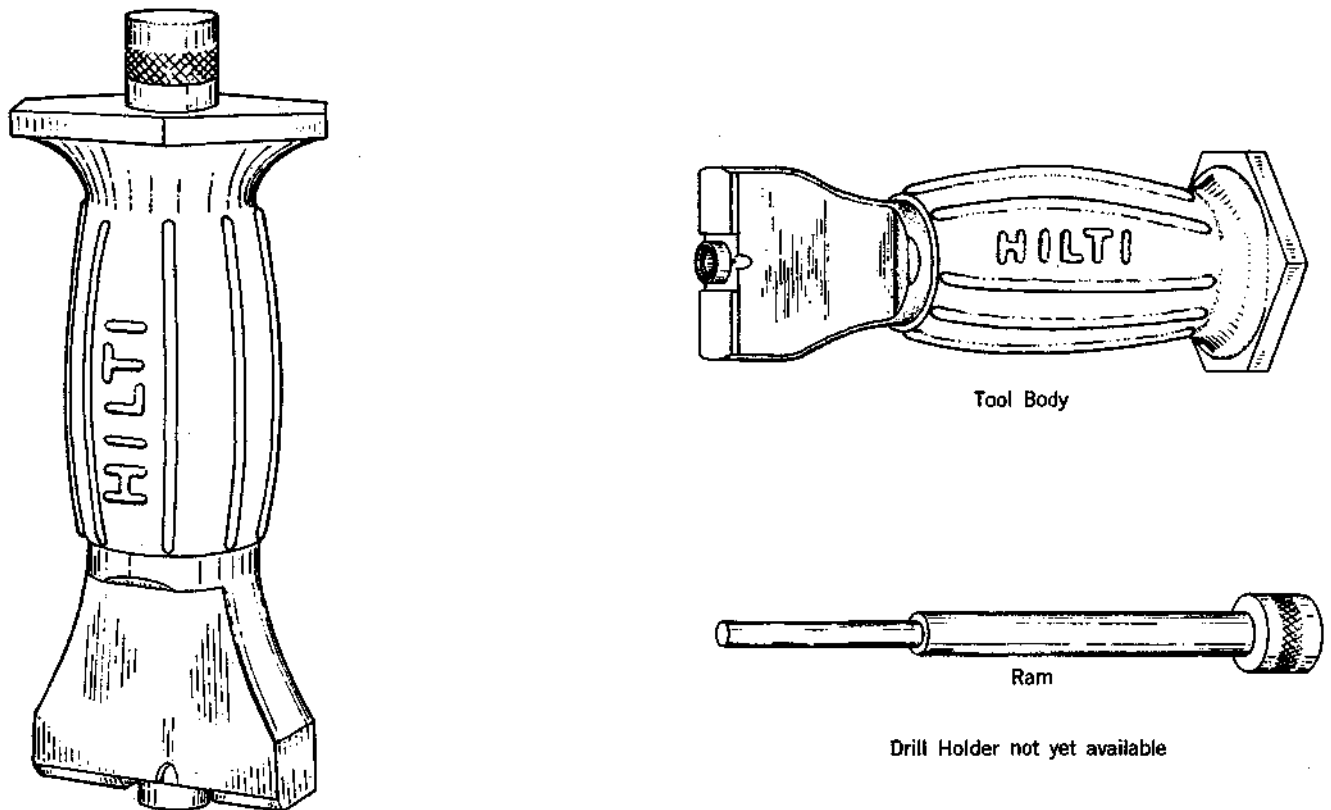


Fig. 4 — Hilti T25HB

3. OPERATION

3.01 The principle of operation is the same for these tools, but for the purpose of this practice the operation of one tool will be described in detail.

3.02 To drive fasteners: (EYE PROTECTION EQUIPMENT SHALL BE WORN.)

- (1) Remove drill holder and extractor. Pull ram out far enough so that the washer of the masonry fastener will be properly seated in the recessed end of the tool. See Fig. 5.

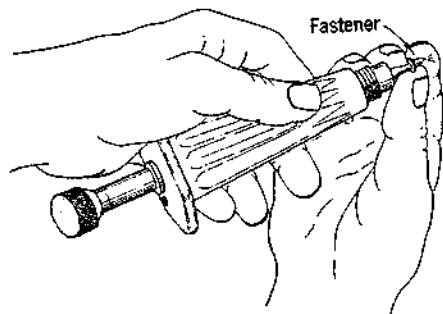


Fig. 5 – Fastener Placement

- (2) Place point of fastener against exact location desired. See Fig. 6.

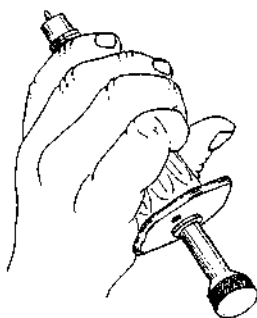


Fig. 6 – Fastener Position Against Work

- (3) Tap the ram lightly until entire point of fastener is embedded in the material, then strike with solid blows until fastener is driven home.

3.03 To drill holes: (EYE PROTECTION EQUIPMENT SHALL BE WORN.)

- (1) Install drill holder by tightly screwing it to the tool using the ram as a wrench as shown in Fig. 7. Insert masonry drill into holder.

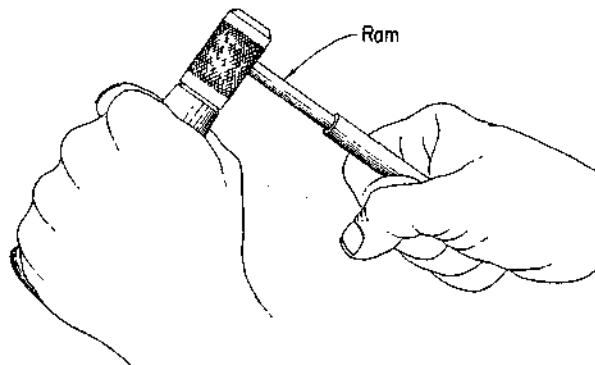


Fig. 7 – Securing Drill Holder

- (2) When drilling in masonry walls, apply light hammer blows and turn drill slightly between blows for best results. This procedure will require less physical effort and results in faster and cleaner hole drilling.

3.04 To remove drill:

- (1) Pull out the ram and place the drill extractor into the tool as illustrated in Fig. 8. Replace the ram and tap lightly until drill falls out.

Securing Drill Holder
FIG. 7

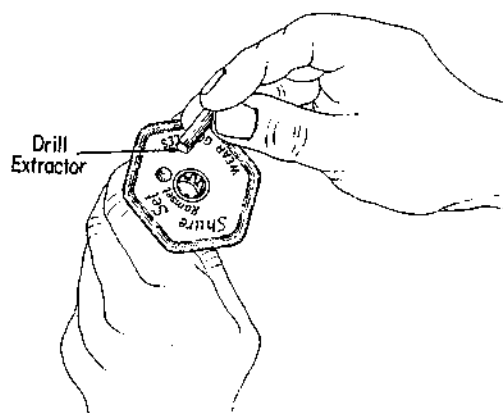


Fig. 8 – Drill Change