DEPARTMENT OF THE ARMY TECHNICAL MANUAL

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL

HAMMER, PILE DRIVER, SELF-POWERED, DIESEL (KOEHRING MODEL DA35) FSN 3895-4434696

Headquarters, Department of the Army, Washington, D.C.

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SAFETY PRECAUTIONS

WARNING

Never attempt to clean, adjust, fill fuel tank, or oil tank while a hammer is in operation.
Insert transport plug before removing hammer from leads.
Stand clear of hammer when it is being lifted, to prevent injury if lifting device should fail.
Always report or correct any condition that may result in injury to personnel if operation is to be continued.
Remove transport plug before attempting to start the hammer.
Do not engage the trip mechanism at any time while the hammer is in operation.
Keep a full charged carbon dioxide (C02) fire extinguisher in good working order, mounted inside the crane cab, and ready for quick use.

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

a. These instructions are published for the use of support maintenance personnel maintaining the MKT Model DA35 Diesel Pile Hammer. They provide information on the maintenance of equipment, which is beyond the scope of the tools, equipment, personnel or supplies normally available to using organizations.

b. Forms and Records. Report all equipment improvement recommendations as prescribed by TM 38-570.

c. Report of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changed to Publications) and forwarded direct to Commanding General, U.S. Army Mobility Equipment Command, ATTN,: AMSME-MPP, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120.

Section II. DESCRIPTION AND DATA

1-2. Description

A general description of the hammer, the location and description of the identification and instruction plates, and information on differences in models are contained in Chapter 1, Operator and Organizational Maintenance Manual, TM 5-3895-332-12.

1-3. Tabulated Data

a. General. This paragraph contains all the overhaul data pertinent to Direct and General Support Maintenance personnel.

b. Fuel Pump Repair and Replacement Standards. Make the following measurement while the fuel pump is mounted on hammer with the ram-piston down:

(1) Control cam and cam stop measurements.

(a) Measure the distance from under the cam stop head to top nut. If measurement is more than 17/ 32, check cam stop head height (table 1-1).

(b) If cam stop head height is not in accordance with dimensional limits shown in table 1-1, replace control cam.

c. Nut and Bolt Torque Data.

Trip mechanism access cover bolts	100 ft. lb.
Lubricating oil pump mounting nuts	60 ft. lb.
Fuel pump mounting nuts	60 ft. lb.
Fuel pump check valve nut	150 ft. lb.
Fuel pump top nut	40 ft. lb.
Fuel pimp lock plate cap screws	40 ft. lb.
Fuel and oil line hex nuts	30 ft. lb.
Guide bracket bolts-	100 ft. lb.

d. Repair and Replacement Standards. Table 1-1 lists manufacturer's sizes, tolerances, desired clearances, and maximum allowable wear and clearances. Refer to figure 1-1 for compression ring, end gap.

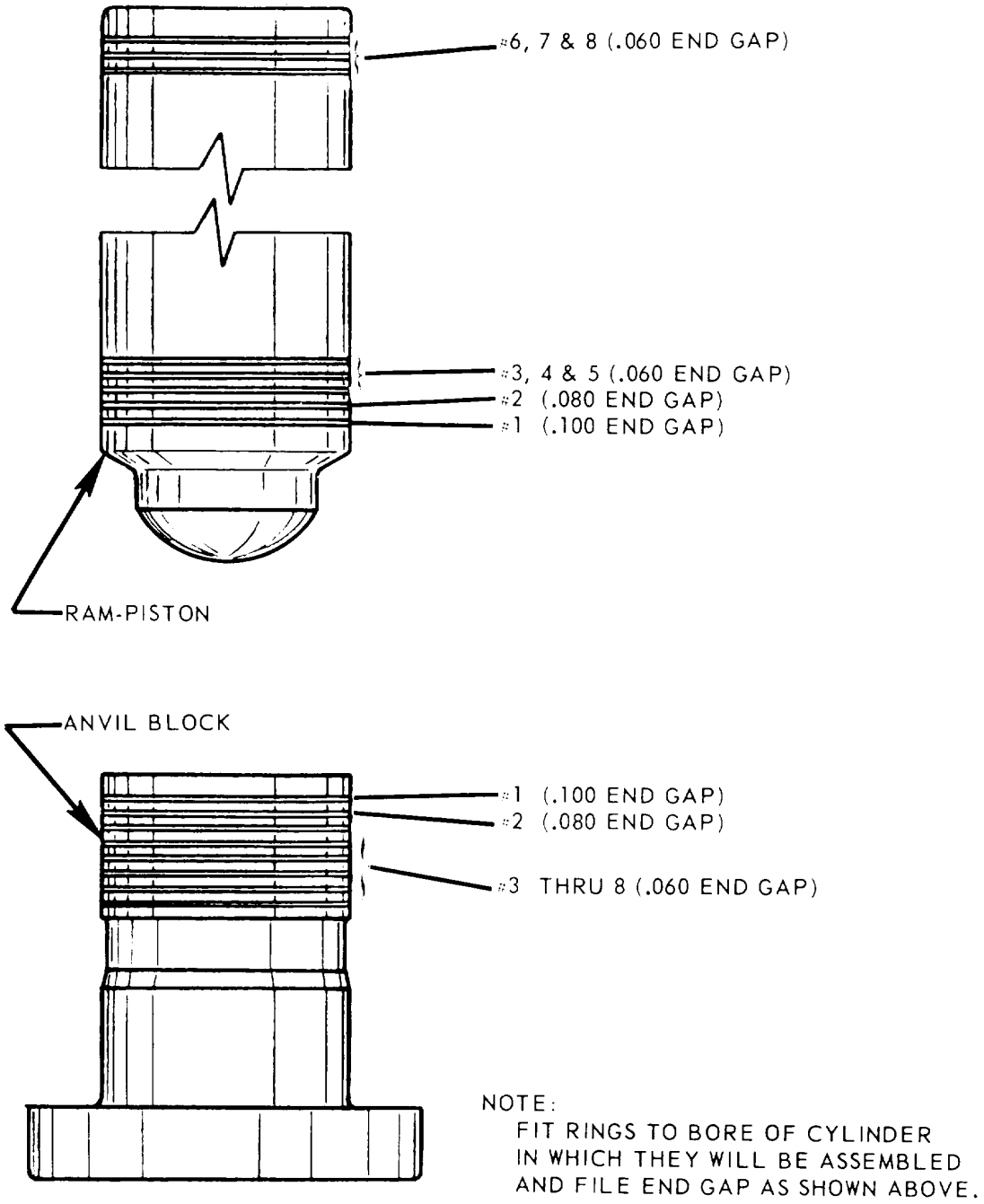

Figure 1-1. Compression ring, end gap.