

APPLICATION AND MAINTENANCE FOR AMP * CRIMPING DIES 169490



Section I of this instruction sheet provides application procedures for AMP crimping die assemblies.

Section II provides maintenance and inspection procedures for AMP crimping die assemblies.

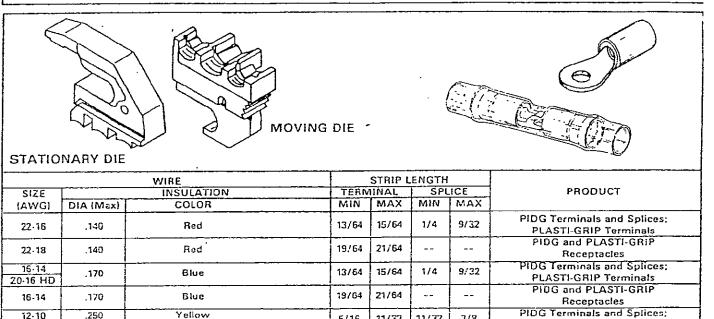


Fig. I-1

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SECTION I APPLICATION

Yellow

Yellow W/Black Stripe

Yellow

Red W/Green Stripe Red W/Red Stripe

Red W/White Stripe

Blue W/Blue Stripe

Blue W/Green Stripe

Yellow W/Brown Stripe

Yellow W/Yellow Stripe

I-1. INTRODUCTION

.250

250

.250

.038-.110

046-.110

.056-.110

.063-.130 078- 130

.095-.200

12-10

16-14 HD

12-10

20

18

16

14 12

AMP Crimping Dies 169490, used in CERTI-LOK* Hand Crimping Tool 169400, are designed to crimp PIDG * and PLASTI-GRIP * terminals, and PIDG "window" splices.

1-2. DESCRIPTION

11/32

3/8

Each die assembly consists of a stationary die and a moving die. Each die assembly is also divided into three separate crimping closures that are color-coded to match the color-coded terminal/splice for a given wire range.

PLASTI-GRIP Terminals

PIDG and PLASTI-GRIP

Receptacles

PIDG Insulation-Restricting Terminals

Read this instruction sheet for specific information concerning the dies, applicable terminals, and wire specifications. Read the instructions packaged with the tool (IS 6764) for information concerning die installation, crimp adjustments, crimping procedures, and general information.

1-3. CRIMPING PROCEDURE

Determine your application requirements. Then, using the chart in Figure I-1, make your selection according to the following instructions:

Wire Size and Insulation Diameter - Make certain the wire and insulation are within the specified range.

Wire Type and Strip Length - Using stranded wire, strip it to the length shown. Do NOT crimp wire that has cut or nicked strands. 10F4

All dimensions on this instruction sheet are in inches.

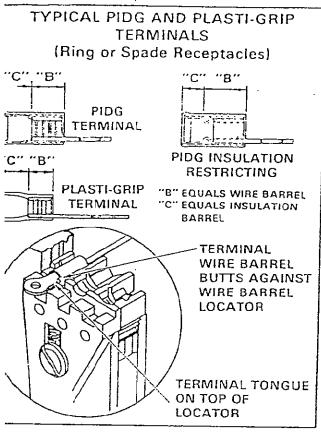


Fig. 1-2

ip rerminal (or splice) as follows:

- If necessary, install the dies according to instructions packaged with the tool.
- 2. Place terminal (or splice) in dies as shown in Figure I-2 (or Figure I-3).
- 3. Close tool handles until terminal or splice is held firmly in place.
- 4. Insert properly stripped wire into terminal (or splice) wire barrel "B" as shown in Figure I-2 (or Figure I-3).
- 5. Complete crimp by closing handles until ratchet releases handles. Handles will open automatically and crimped item may be removed.
- 6. To crimp other half of splice, remove it and reposition uncrimped half in dies as shown in Figure I-3. Follow same procedure used to crimp first half of splice. (If splice cannot be turned, turn tool around.)
- 7. Inspect crimped terminal/splice.

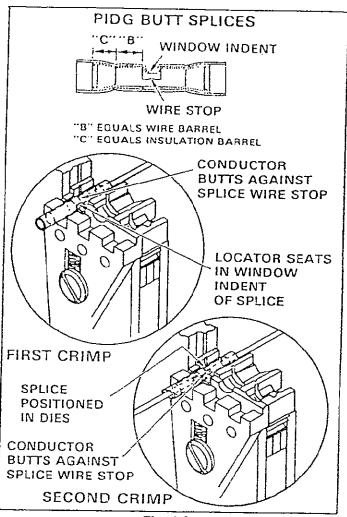


Fig. 1-3

For a more detailed crimp inspection procedure, refer to the "Crimp Inspection" (CI) sheet for the kind of terminal or splice being crimped, as follows:

PIDG Terminals — CI 8050-23. PLASTI-GRIP Terminals — CI 8050-32.

1-4. DAILY MAINTENANCE

Remove all foreign particles with a clean, soft brush or clean, soft, lint-free cloth. If foreign matter cannot be removed easily, or if the proper replacement parts are not available, return the dies to your supervisor.

Make certain the dies are protected with a THIN coat of any good SAE No. 20 motor oil. DO NOT OIL EXCESSIVELY. When the dies are not in use, store them in a clean, dry area.

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Section II provides maintenance and inspection precedures for AMP crimping die assemblies.

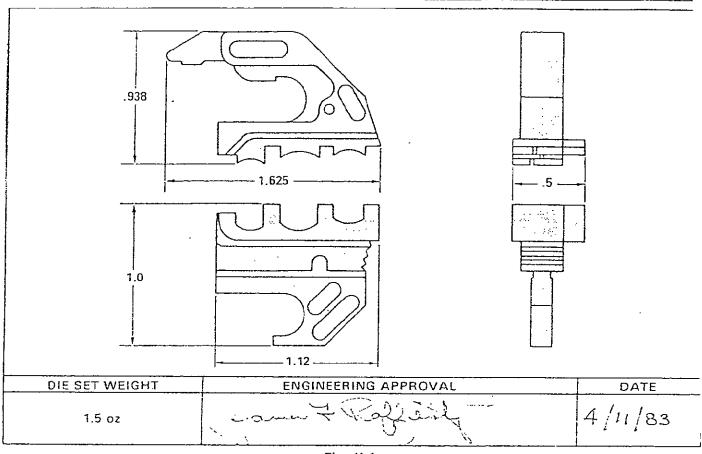


Fig. II-1

SECTION II MAINTENANCE/INSPECTION

II-1. DIE CERTIFICATION

These instructions have been approved by AMP Design, Production, and Quality Control Engineers to provide documented maintenance and inspection procedures in accordance with AMP Corporate Policy No. 3-3. Through AMP test laboratories and the inspection of production assembly, the procedures described herein have been established to ensure quality and reliability of AMP crimping dies.

II-2. INSPECTION PROCEDURES

A. Daily Maintenance

It is recommended that each operator of the dies be made aware of — and responsible for — the following three steps of daily maintenance:

- 1. Remove dust, moisture, and other contaminants with a clean brush, or a soft, lint-free cloth. Do NOT use objects that could damage the dies.
- 2. Make certain the dies are protected with a THIN coat of any good SAE No. 20 motor oil. DO NOT OIL EXCESSIVELY

3. When the dies are not in use, store them in a clean, dry area.

B. Periodic Inspection

Regular inspections should be performed by quality control personnel. A record of scheduled inspections should remain with the dies and/or be supplied to supervisory personnel responsible for the dies. Though recommendations call for at least one inspection a month, the inspection frequency should be based on the amount of use, ambient working concitions, operator training and skill, and established company standards. These inspections should be performed in the following sequence:

B-1. Visual Inspection

- 1. Remove all lubrication and accumulated film by immersing the dies in a suitable commercial degreaser that will not affect paint or plastic material.
- 2. Check all bearing surfaces for wear.
- 3. Inspect the crimp area for flattened, chipped, cracked, worn or broken areas. If duringe is evident, the dies must be replaced.

-2. Gaging the Crimping Chamber

This inspection requires the use of a GO NO-GO Gage enforming to the diameters in Figure II-2. AMP does manufacture or market these gages.

lelect die crimping chamber according to wire size nd proceed as follows:

- 1. Mate the dies until it is evident that they have bottomed.
- 2. Align the GO element with the wire barrel crimping chamber. Push element straight into the crimping chamber without using force. The GO element must pass completely through the crimping chamber as shown in Figure II-2.
- 3. Now align the NO-GO element and try to insert it straight into the same crimping chamber. The NO-GO element may start entry but must not pass completely through as shown in Figure II-2.

I the crimping chamber conforms to the gage inspecion, the dies are considered dimensionally correct and should be lubricated with a THIN coat of SAE Io. 20 motor oil. If not, the dies must be replaced.

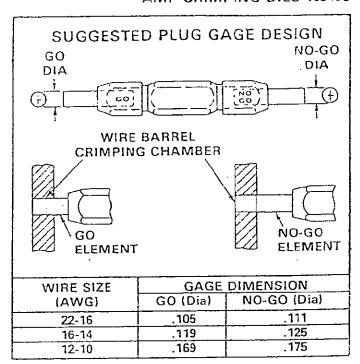


Fig. II-2