

# MODEL 01-105A TORQUING TOOL KIT INSTRUCTION SHEET

## INTRODUCTION

1.

This Instruction Sheet provides a listing of the individual tools in the Model 01-105A Torquing Tool Kit and procedures for using these tools to torque the K female cable connector and male and female (K and V) sparkplug launchers to 1.8 N-meters.

## 2. TOOL LIST

Table 1 provides a listing of the tools in the Model 01-105A Torquing Tool Kit. The index numbers in Table 1 correspond with those in Figure 1. It is recommended that LOCTITE RC/609 retaining compound be used in addition to the tools included in this kit.

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Table 1. 01-105A Parts List

Index No.	Name	Part No.
1	Handle, Screwdriver, Torque Limiting	783-253
2	Wrench, Open End, 5/16-9/32 in., 2 each	783-254
3	K Centering Fixture	A-13921
4	V Centering Fixture	A-20495
5	Installation Fixture, K Female	A-21148
6	Installation Fixture, V Female	ND21130
7	Socket, 1/4 in. drive, 5/16 in., 6-point	783-252
8	Socket, Tightening, Connector, Male	01-A-14813

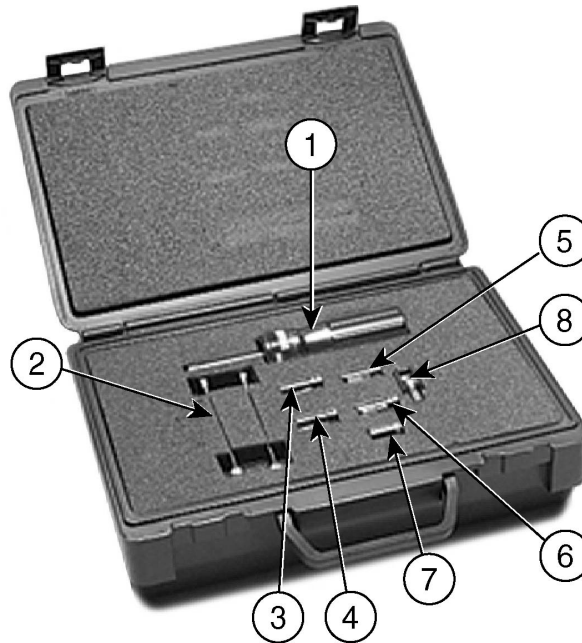


Figure 1. Model 01-105A Torquing Tool Kit

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### 3. Use With the K102M or V102M Sparkplug Launcher

- a. Torquing the K102M or V102M  
(This procedure assumes the connector is in place in its mounting hole.)
  1. Loosen the connector outer conductor and apply a small amount of LOCTITE to the threads. Install the centering tool (3 or 4) over the center conductor.
  2. Tighten the outer conductor finger tight.
  3. Place the male-connector-tightening socket (8) over the outer conductor.
  4. Install the 5/16-inch socket (7) onto the screwdriver handle (1).
  5. Torque the outer conductor to 1.8 N-meters using the screwdriver handle and socket.
  6. Remove the male connector-tightening socket and centering tool.
- b. Disassembling the K102M or V102M
  1. Place the male-connector-tightening socket (8) over the K102M (V102M) outer conductor.
  2. Install the 5/16-inch socket (7) into the screwdriver handle (1).
  3. Loosen the outer conductor using the screwdriver handle and socket.
  4. Unscrew the outer conductor, and remove the center-pin assembly from the mounting hole.

### 4. Use With the K102F or V102F Sparkplug Launcher

- a. Torquing the K102F or V102F  
(This procedure assumes the connector is in place in its mounting hole.)
  1. Loosen the connector outer conductor and apply a small amount of LOCTITE to the threads. Install the K or V Centering Fixture (3 or 4) over the center conductor.
  2. Tighten the outer conductor finger tight.
  3. Remove the K Centering Fixture.
  4. Screw the KF or VF Installation Fixture (5 or 6) onto the outer conductor until finger tight. Leave a 1.6 mm gap (approximately) between the head of the adapter and the nut.
  5. Install the 5/16-inch socket (7) onto the screwdriver handle and torque the outer conductor to 1.8 N-meters using the screwdriver handle and socket.
  6. Remove the installation fixture from the outer conductor by (a) holding the barrel nut with one of the 5/16-inch wrenches while (b) loosening the adapter with the screwdriver handle and socket.
- b. Disassembling the K102F or V102F
  1. For the K102F, screw the KF Installation Fixture (5) onto the K102F outer conductor until finger tight. Leave a 1.6 mm gap (approximately) between the head of the adapter and the nut. For the V102F, do the same using the VF Installation Fixture (6).
  2. Place one of the 5/16-inch wrenches (2) onto the barrel nut, and the other wrench onto the adapter in order to form an angle of approximately 45° between the wrenches. Squeeze both wrenches together to tighten the barrel nut assembly onto the outer conductor.
  3. With a wrench on the barrel nut, loosen the barrel nut assembly and unscrew the outer conductor.
  4. While holding the barrel nut with one wrench, loosen the adapter with the other and unscrew the outer conductor from the barrel nut assembly.
  5. Remove the center-pin assembly from the mounting hole.

## 5. Use With the K101F

### a. Torquing the K101F

(This procedure assumes the connector is in place on the end of the cable.)

1. Loosen the connector outer conductor from the assembly nut, and install the K Centering Fixture (3) over the center conductor.
2. Tighten the assembly nut on the outer conductor finger tight.
3. Remove the centering tool.
4. Screw the KF Installation Fixture (5) onto the outer conductor until finger tight. Leave a 1.6 mm gap between the head of the adapter and the nut.
5. Install the 5/16-inch socket (7) onto the screwdriver handle.
6. While holding the assembly nut, torque the outer conductor to 16 inch-pounds using the screwdriver handle and socket.
7. Remove the installation fixture from the outer conductor by (a) holding the barrel nut with one of the 5/16-inch wrenches while (b) loosening the adapter with the screwdriver handle and socket.

### b. Disassembling the K101F

1. Screw the KF Installation Fixture (5) onto the K101F outer conductor until finger tight. Leave a 1/16-inch gap between the head of the adapter and the nut.
2. While holding the K101F assembly nut, place one of the 5/16-inch wrenches (2) onto the barrel nut, and the other wrench onto the adapter in order to form an angle of approximately 45° between the wrenches. Squeeze both wrenches together to tighten the barrel nut assembly onto the outer conductor.
3. With a wrench on the barrel nut, loosen the barrel nut assembly and unscrew the outer conductor.
4. Hold the barrel nut and loosen the adapter hex head.
5. Unscrew the outer conductor from the barrel nut assembly.
6. Remove the center-pin assembly from the sleeve.

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