25-H10 ITEM 10

STOK NO: 00US77918

MALZEME ADI: TOOLS SPECIAL, MAIN FUEL PUMP

c. Do not remove nameplate (3) unless replacement is necessary. To remove nameplate, remove two screws (4).

Table 26-2. Special Tools

Part No.	Index No. (Figure 26-1 and Figure 26-2)	Nomenclature
		TOOL SET P/N 1C6814G01
STD 61431	22	Universal Pump Flow Test Filter Assy
STD 63271	1	Main Drive Shaft Torque Wrench Adapter
STD 67152	2	Control Mounting Plate Cover
STD 67153	3	Pump Assy Holding Adapter
STD 67154	4	Pumping Gear Drive Shaft Holding Fixture
STD 67155	5	Housing and Insert Assy Puller
STD 67159	6	Flange and Pin Assy Fixture
STD 67161	7	Mounting Plate and Stud Assy Fixture
STD 67163	8	Main Drive Shaft Travel Fixture
STD 67166	23	Outlet and Bypass Flow Test Adapter
STD 67167	24	Inlet and Outlet Filter Port Adapter
STD 67168	25	Fuel Heat Exchanger Port Adapter
STD 67170	9	Pumping Gear Drive Shaft Ring Lap
STD 67236	10	Guide and Insert Assy Holding Fixture
STD 67243	11	Inner Driver and Driven Bearing Puller
STD 67244	12	Driver and Driven Gear Puller
STD 67245	13	Sleeve Bearing Mandrel
STD 67247	15	Special Spline Gage Anvils
STD 67263	16	Drive Shaft Seal Cover Compressor
STD 67264	17	Lower Sleeve Bearing Spacer Plate
STD 67266	19	Internal Retaining Ring Inserter
STD 67269	20	Spline Gage Anvil Set Master
STD 67270	21	Spline Gage Anvil Set Master
STD 67378	18	Main Drive Shaft Spanner Wrench
STD 67421	14	Special Spline Gage Anvils

CHAPTER 26
FUEL PUMP OVERHAUL AND REPAIR

26.1 INTRODUCTION.

26.2 SCOPE.

This chapter contains overhaul instructions for GTC No. 12 and 45 compliant Fuel Pump, VINs 9255-03A6 (GE P/N 9039M45P03), 9255-04A6 (GE P/N 9039M45P04) and 9255-06A6 (GE P/N 9039M45P09), manufactured by Goodrich Corporation, W Hartford, CT 06133-0651. All Fuel Pumps prior to VINs 9255-03A6 (GE P/N 9039M45P03) are to be modified to comply with GTC No. 12 and 45.

26.3 PURPOSE.

The overhaul process involves the disassembly, cleaning, inspection, repair, assembly, and final testing of fuel pump units with known operating abnormalities. Where the serviceability of units returned to depot is unknown, it is recommended that the unit undergo a performance test, per para. 26.14 to determine the necessity for overhaul of the unit. GTC No. 12 and 45 compliant Fuel Pumps, VINs 9255-03A6 (GE P/N 9039M45P03), 9255-04A6 (GE P/N 9039M45P04) or 9255-06A6 (GE P/N 9039M45P09) which pass the performance test may be returned to stock for immediate use.

26.4 LEADING PARTICULARS.

Refer to Table 26-1, for a listing of fuel pump leading particulars.

Table 26-1. Fuel Pump Leading Particulars

Rotation	Counterclockwise when viewed from drive end
Shaft shear section failure	2,000-2,500 in-lb torque
Pump discharge pressure	295-1,300 psig normal, 295-1,400 psig extreme
Power extractions	81 hp max. it 160% speed and 1300 psig discharge pressure
Rated speed (100%)	6,088 rpm
Boost pressure rise	120 psi max. at 100% speed

Table 26-1. Fuel Pump Leading Particulars - Continued

Fuel operating temperature	295° F
Boost flow range	3.9-6.5 gpm at 10% speed, 6.0-62.5 gpm at 100% speed
Fuel control drive pad	On rear face of fuel pump
High pressure element flow (100% speed) 395 psia discharge pressure	78 gpm max. with inlet pressure of 64 psig, 140° F fuel temp.
315 psia discharge pressure	67.0 gpm min with in-6 let pressure of 12-14 psia, 140° F temp.

26.5 OVERHAUL INSTRUCTIONS.

26.6 SPECIAL TOOLS.

Refer to Table 26-2, for a listing of tools contained in Tool Set P/N 1C6814G01. (See Figure 26-1)

26.7 DISASSEMBLY.

(See Figure 26-3)

a. Mount the pump on pump assembly holding adapter (P/N STD 67153) attached to a Wilton PowRarm (Wilton Tool Mfg. Co., 9525 Irving Park Road, Shiller Park, IL 60176), or equivalent.

CAUTION

Protect reusable parts against damage or contamination during disassembly. Be careful in handling parts so as not to fingermark lapped or polished metal surfaces. Body acids will cause progressive corrosion.

b. Remove shipping protectors. Remove two plugs (1) and O-rings (2). Discard O-rings.

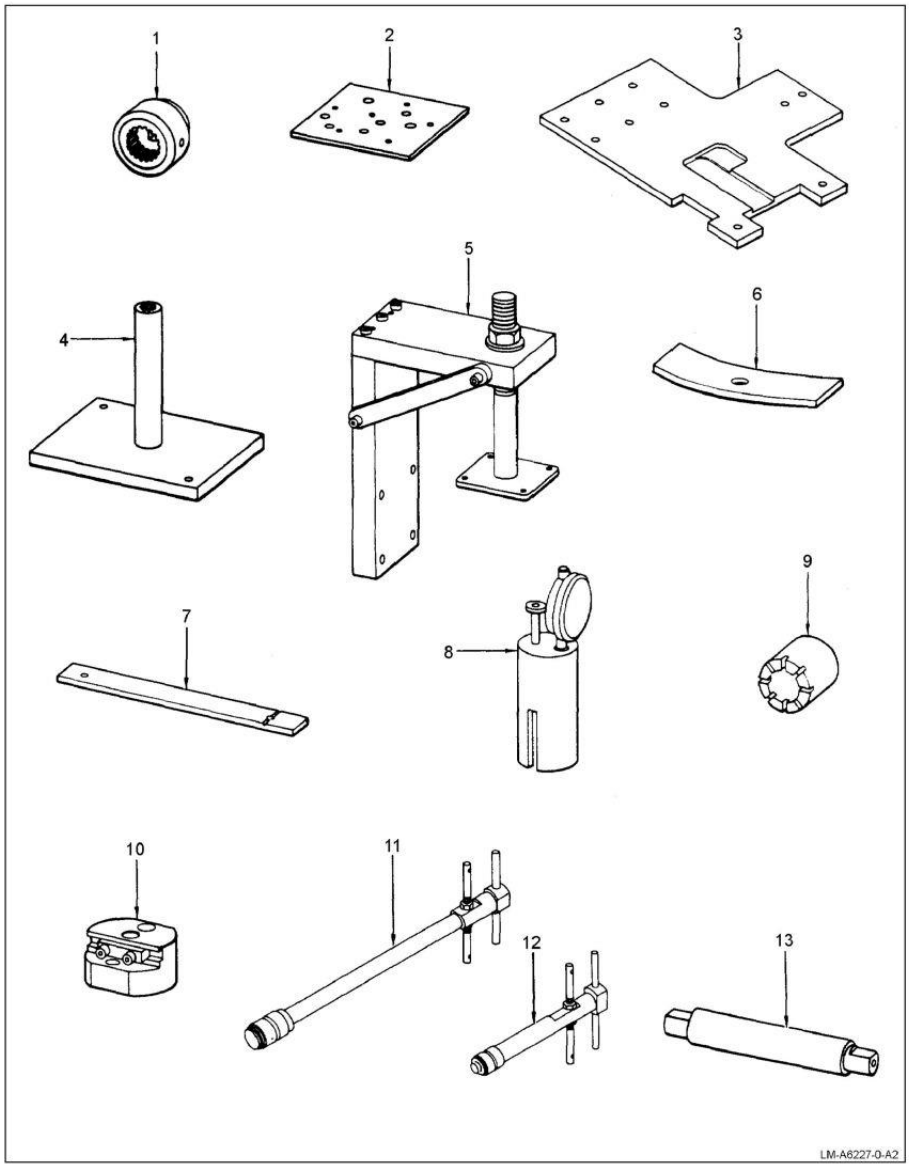

Figure 26-1. Special Tools

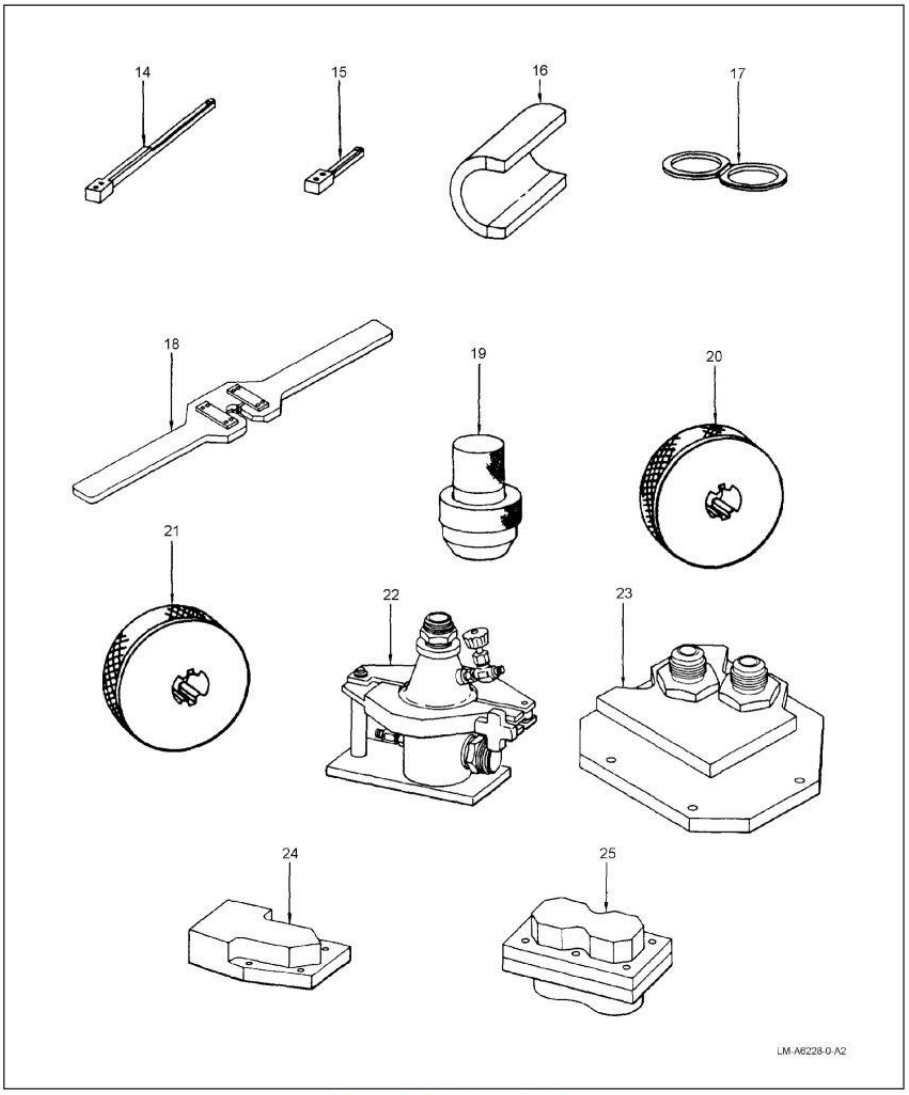

Figure 26-2. Special Tools