

DESTRUCTION NOTICE

WHY—To prevent the enemy from using or salvaging this equipment for his benefit.

WHEN—When ordered by your commander.

HOW—1. Smash—Use sledges, axes, handaxes, pickaxes, hammers, crowbars, heavy tools.

2. Cut—Use axes, handaxes, machetes.

3. Burn—Use gasoline, kerosene, oil, flame throwers, incendiary grenades.

4. Explosives—Use firearms, grenades, TNT.

5. Disposal—Bury in slit trenches, fox holes, other holes. Throw in streams. Scatter.

USE ANYTHING IMMEDIATELY AVAILABLE FOR DESTRUCTION OF THIS EQUIPMENT

WEAT—1. Smash—Cylinder head, radiator, fuel pump, carburetor, governor, magneto, generator, switchbox, muffler, commutator, fuel tank, armature and other parts.

2. Cut—Ignition cables, wires, fan belt, leads.

3. Burn—Technical manual.

4. Bend—Fuel lines.

5. Bury or scatter—All parts after destroying their usefulness.

DESTROY EVERYTHING

SAFETY NOTICE

This equipment generates high voltage currents that are dangerous to life. Always turn OFF-ON switch to OFF position before opening switchbox, or before changing fuses. Ground unit when working on it. Provide adequate ventilation at all times when operating unit in a closed room. Exhaust gases are deadly poison.

PART ONE DESCRIPTION

1. GENERAL.

The 1½-KVA Kohler Power Unit, model 1M21-A, is a manual-starting, 1,500-watt, gasoline-engine-driven direct connected, a-c generating set. It is designed to generate 110-volt, 60-cycle current for operating radio transmitters of 75- to 300-watt output. It is employed as a power source for Radio Sets SCR-291-(K) and SCR-502-(K), and can also be used to run a small lighting system, or any other ac equipment having power requirements within the rated capacity of this unit. The complete unit, less exhaust fittings and fuel tank, is shown in figures 1 and 2. Weight, excluding fittings and tank, is 497 pounds. In this manual Radio Sets SCR-291-(K) and Radio Sets SCR-502-(K) refer to all models of Radio Set SCR-291 and Radio Set SCR-502.

2. COMPONENT PARTS.

Kohler power unit 1M21-A consists of the following major components:

a. Engine. The gasoline engine is a 4-cylinder, 4-cycle, valve-in-head, water-cooled model. It has a 2-inch bore and a 3-inch stroke, and develops 3.2 horse-power at 1,200 revolutions per minute. It is radiator cooled and equipped with a high tension magnet, oil filter, air cleaner, and fixed jet carburetor.

b. Radiator and Fan Assembly. The radiator in the cooling system has an 8½-quart capacity. The cooling system is of the gravity type, and includes a belt-driven cooling fan.

c. Fuel Tank and Exhaust Fittings. A 10-gallon fuel tank with suction assembly and copper tube fuel line holds sufficient fuel to run the unit for approximately 23 hours at full load. The exhaust fittings, including exhaust pipe, muffler, flexible manifold connection, fuel tank and line, and accessory equipment for inside installation, are shown in figure 4. (Numbers are Kohler part numbers.)