

#### 4-7. M116A3 Trailer-Mounted Power Units, Generators, and Power Plants

**a. Applicability.** The following items in Table 4-6 are certified for all helicopters with suitable lift capacity by the US Army Soldier Systems Center:

**Table 4-6. M116A3 Trailer-Mounted Power Units, Generators, and Power Plants**

NOMENCLATURE	MAX WEIGHT (POUNDS)	SLING SET	LINK COUNT FRONT / REAR	RECOMMENDED AIRSPEED (KNOTS)
AN/MJQ-43 Power Unit with two (2) MEP-831A, 3 kW, 60 Hz, Generator Sets	2,060	10K	3/3	80
AN/MJQ-35 Power Unit with two (2) MEP-802A, 5 kW, 60 Hz, Generator Sets	3,160	10K	3/3	80
PU-797, 5 kW, 60 Hz, Power Unit with MEP-802A, 5 kW, 60 Hz, Generator Set	2,720	10K	3/3	70
PU-798, 10 kW, 60 Hz, Power Unit with MEP-803A, 10 kW, 60 Hz, Generator Set	2,860	10K	3/3	70
PU-799, 10 kW, 400 Hz, Power Unit with MEP-813A, 10 kW, 400 Hz, Generator Set	2,870	10K	3/3	70
PU-801, 15 kW, 50/60 Hz, Power Unit with MEP-804A, 15 kW, 50/60 Hz, Generator Set	3,160	10K	15/3	100
AN/MJQ-33 Tactical Quiet Generator (TQG)	2,100	10K	3/3	100

**b. Materials.** The following materials are required to rig this load:

- (1) Sling set (10,000-pound capacity).
- (2) Tape, adhesive, pressure-sensitive, 2-inch wide roll.
- (3) Cord, nylon, Type III, 550-pound breaking strength.
- (4) Webbing, cotton, 1/4-inch, 80-pound breaking strength.
- (5) Felt sheet, cattle hair, Type IV, 1/2-inch or suitable substitute.
- (6) Tie-down strap, CGU/1B (as required).

**c. Personnel.** Two persons can prepare and rig this load in 15 minutes.

**d. Procedures.** The following procedures apply to this load:

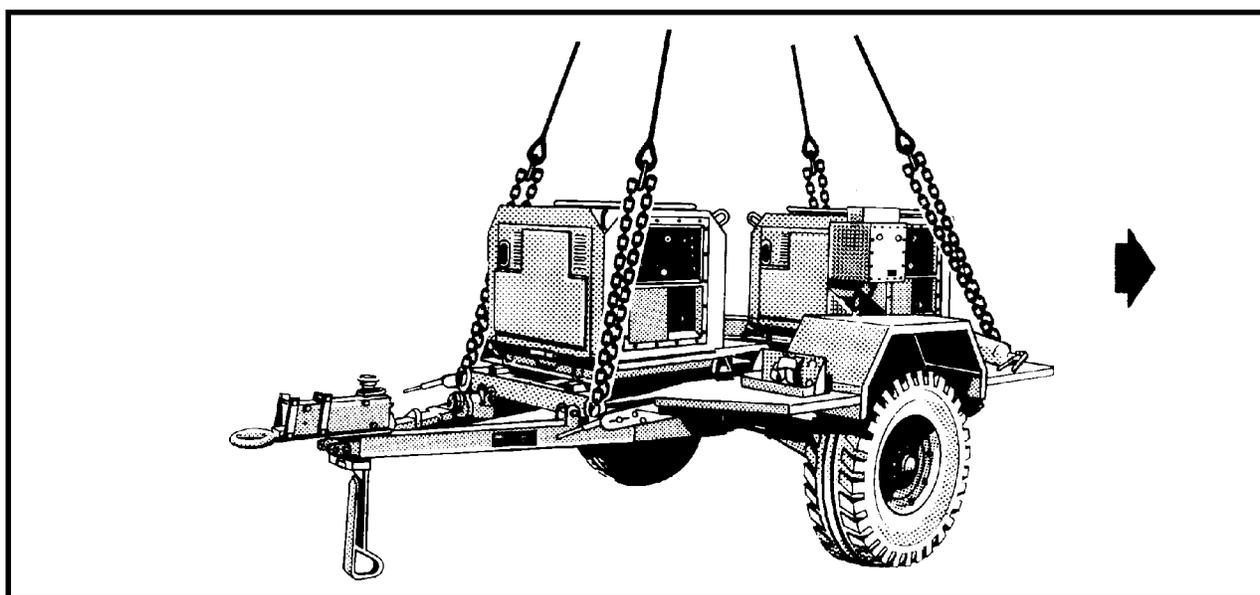
- (1) **Preparation.** Prepare the load using the following steps:
  - (a) Engage both hand brakes.
  - (b) Secure safety chains and brake hoses to the top of the drawbar with Type III nylon cord.
  - (c) Secure all lids, doors, and caps with tape or Type III nylon cord.
  - (d) Place additional cargo as close to the center of the trailer as possible. Secure the cargo with CGU-1/B tiedown straps. The cargo must not contact the sling legs during lift-off or flight.

(2) **Rigging.** Rig the load according to the steps in Figure 4-6.

(3) **Hookup.** The hookup person stands on top of the generator. The static wand person stands on the wheel well. The static wand person discharges the static electricity with the static wand. The hookup person places the apex fitting onto the aircraft cargo hook. The hookup

team then carefully dismounts the trailer and remains close to the load as the helicopter removes slack from the sling legs. When successful hookup is assured, the hookup team quickly exits the area underneath the helicopter to the designated rendezvous point.

(4) **Derigging.** Derigging is the reverse of the preparation and rigging procedures in steps d (1) and d (2).



#### RIGGING STEPS

**CAUTION**  
**DO NOT ADD CARGO TO THE**  
**PU-801 GENERATOR SET**

1. Position apex fitting on top of the generator. Route outer sling legs 1 and 2 to the front of the trailer (lunette end) and inner sling legs 3 and 4 to the rear. Sling legs 1 and 3 must be on the left side of the load.
2. Loop the chain end of sling leg 1 through the left front lift provision located on the left front side of the trailer bed. Place the correct link from Table 4-6 in the grab hook. Repeat with sling leg 2 through the right side, front lift provision. Secure the excess chain with Type III nylon cord.
3. Route the chain end of sling leg 3 through the left

rear lift provision located on the rear of the trailer bed. Place the correct link from Table 4-6 in the grab hook. Repeat with sling leg 4 through the right rear lift provision.

4. Secure the lift provisions in the up position to the generator tiedown provisions with 1/4-inch cotton webbing.
5. Raise the apex fitting above the generators and route the rear slings to the side of the rear generator.
6. Pad the slings in the areas where they contact the tool boxes or the generators.
7. Cluster and tie or tape (breakaway technique) the front sling legs together to prevent entanglement during hookup and lift-off. Repeat the procedure for the rear sling legs.

Figure 4-6. M116A3 Trailer Mounted Power Units, Generators, and Power Plants