

6-9.1. M119, 105-MM Howitzer, Forward/Firing Position, Platform Down, with Additional Boxes of Ammunition

a. Applicability. The following items in Table 6-8.1 are certified for all helicopters with suitable lift capacity by the US Army Soldier Systems Center:

Table 6-8.1. M119 105-MM Howitzer, Forward/Firing Position, Platform Down

NOMENCLATURE	MAX WEIGHT (POUNDS)	SLING SET	LINK COUNT FRONT/REAR	RECOMMENDED AIRSPEED (KNOTS)
M119 Howitzer with Two Boxes of Ammunition on Firing Platform	4,850	10K	Listed in rigging steps	80
M119 Howitzer with Two Boxes of Ammunition on Firing Platform and Ammunition in A/22 or Cargo Net	7,500	25K	Listed in rigging steps	110

WARNINGS

1. The ammunition boxes must be securely lashed to the firing platform.
2. When using the A/22 cargo bag for an accompanying load do not exceed 2,200 pounds.
3. When using the cargo net for an accompanying load do not exceed 2,650 pounds.

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

(1) Sling set (10,000-pound capacity) (when moving the howitzer without A/22 or cargo net).

OR

(2) Sling set (25,000-pound capacity) (when moving the howitzer with an A/22 or cargo net).

(3) Reach Pendant (11,000 or 25,000-pound capacity).

(4) Tape, adhesive, pressure-sensitive, 2-inch wide roll.

(5) Cord, nylon, Type III, 550-pound breaking strength.

(6) Webbing, cotton, 1/4-inch, 80-pound breaking strength.

(7) Sling set chain safety clamp is an authorized item.

Refer to TM 9-1015-252-10 for NSN and installation information. Also authorized is the Suncor Stainless 316 precision cast, heavy duty Jaw and Swivel device, Item # S0156-HD008 (for use with 10K and 25K sling sets) or a safety clamp (Picatinny Arsenal Part # 12591189; Cage Code 19200) designed for the 25K sling set .

(9) Line, multiloop, Type XXVI, 4-loop, 3-foot (for accompanying load).

(10) Clevis, suspension, medium (2 each) (for A/22 or cargo net).

(11) Bag, cargo A/22 or net, cargo (5,000- or 10,000-pound capacity).

(12) Chain length, part number 38850-00053-102, from a 25,000-pound capacity sling set (1 each) (for A/22 or cargo net).

(13) Coupling link, part number 664241, from a 25,000-pound capacity sling set (1 each)(for A/22 or cargo net).

(14) Strap, cargo, tiedown, CGU-1/B (as required).

c. Personnel. Two persons can prepare and rig this load in 30 minutes.

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

(1) Preparation. Prepare the load using the following steps:

(a) Place the howitzer in the forward/firing position. If the firing platform is to be carried in the down position, follow these steps:

1 Mark the wheel hubs with tape at the center of gravity (CG). The CG is located 6 inches behind (towards the lunette) the center of the hub.

2 Mark the center of the firing platform along the length (lunette to muzzle) and width (side to side) with strips of tape. Ensure the hand holes (used to secure the ammunition boxes) are equally spaced on either side of the long axis of the gun.

3 Roll the howitzer onto the firing platform. Align the CG masking tape with the side to side tape strips. The wheel knock-off hub must be horizontal. Engage both parking brakes.

4 Connect the firing platform to the weapon. Tie the ammunition boxes together with Type III nylon cord. Secure the two ammunition boxes (if carried) by routing a CGU-1/B tiedown strap through the platform hand holes and the carrying handles of each box. Pad the CGU-1/B where it rubs on the boxes and platform.

5 Pad and tape the trailing edge of the platform when carrying an accompanying load in an A/22 cargo bag or a cargo net.

(b) Secure the sight cover to the dial sight with tape or Type III nylon cord.

(c) Secure the firing platform (if carried), hand spike, and jack to the trail assembly with Type III nylon cord.

(d) When the detachable field spade is attached to the permanent spades, ensure the two locking pins are installed and locked. Route and tie a length of Type III nylon cord through the key ring of the cable and around the end of the locking pin.

(e) When moving the howitzer without an A/22 cargo bag or a cargo net load, extend the chain on sling leg 3 by removing the chain length and coupling link from sling leg 4 and attaching them to the end of the chain on sling leg 3.

(f) When moving the howitzer with an accompanying load and using sling leg 4 on the accompanying load, extend the chain on sling leg 3 by adding an additional length of chain with a coupling link from a 25,000-pound capacity sling set.

(2) Rigging. Rig the load according to the steps in Figure 6-8.1.

NOTE: When an accompanying load requires a sling leg, you may remove and use one of the inner sling legs from the sling set, leaving one sling leg attached to the lunette of the howitzer.

(3) Hookup. The hookup team stands on the howitzer or on the trails. The static wand person discharges the static electricity with the static wand. The hookup person places the top loop of the reach pendant onto the aircraft cargo hook. The hookup team then moves clear of the helicopter but 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.

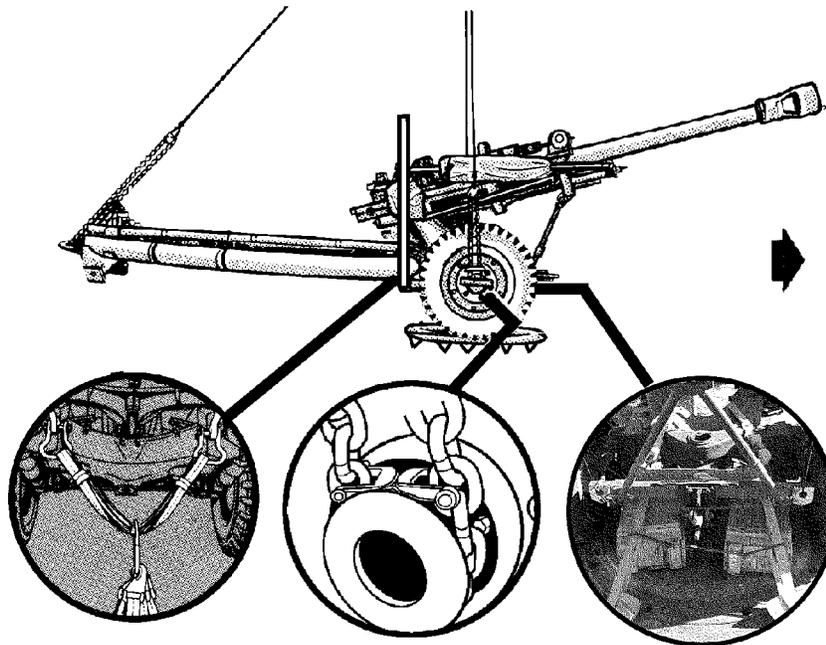
(4) Derigging. Derigging is the reverse of the preparation and rigging procedures in steps d (1) and d (2).

WARNING

When moving the howitzer with an accompanying load, the 25,000-pound capacity sling set must be used.

WARNING

Accompanying loads must not exceed the weight limits of the cargo net, cargo bag, sling leg, or exceed the lift capability of the helicopter.



RIGGING STEPS

1. Attach a reach pendant on the sling set apex fitting.
2. Position the apex fitting and the reach pendant on the breech assembly. Route outer sling legs 1 and 2 to the wheel hubs. Route inner sling leg 3 to the lunette.
3. Route the chain end of sling leg 1 around the left wheel hub (looking at the howitzer from the lunette). Place link 50 (when using the 10,000-pound capacity sling set) or link 40 (when using the 25,000-pound capacity sling set) in the grab hook. Pull the chain taut and ensure the chain is centered on the hub. Install the sling set chain safety clamp on the two chain links closest to the top of the wheel hub. If the sling set chain safety clamp is unavailable, tie the two chain links together with 1/2-inch tubular nylon webbing. Repeat with sling leg 2 on the right (knock-off) wheel hub. Place link 55 (when using the 10,000-pound capacity sling set) or link 45 (when using the 25,000-pound capacity sling set) in the grabhook. Secure the excess chain with Type III nylon cord.
4. Route the chain end of the extended sling leg 3 through the lunette. Place link 35 (when using the 10,000-pound capacity sling set) or link 28 (when using the 25,000-pound capacity sling set) in the grab hook. Secure the excess chain with Type III nylon cord.
5. Cluster and tie or tape (breakaway technique) the sling legs together on top of the howitzers to prevent entanglement during hookup and lift-off.
6. Attach the accompanying load (if required) by routing the 3-foot, 4-loop, Type XXVI multiloop line through the eye of the sling leg attached to an A-22 or the apex fitting of a cargo net. Place a medium suspension clevis through the loop on each end of the multiloop line and attach to the provisions located under the howitzer carriage and inboard of the wheels.

Figure 6-8.1. M119 105-MM Howitzer, Forward/Firing Position, Platform Down