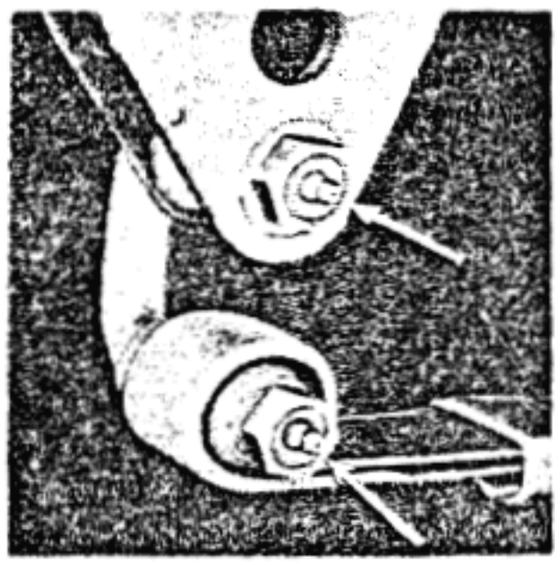
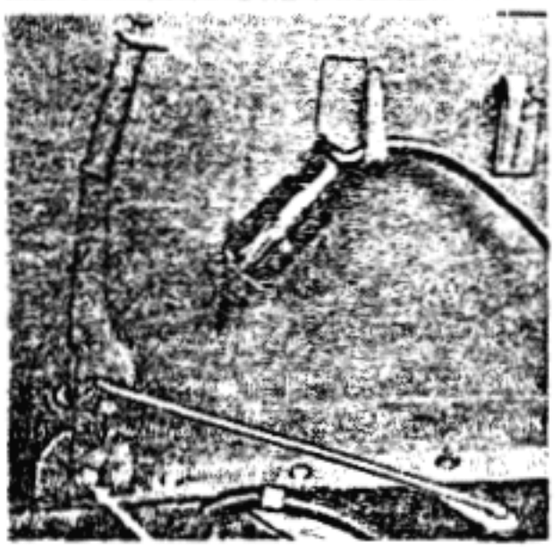
LUBRICATION AND SERVICING

1—Spring Shackle(2)
2 hydraulic fittings
Pressure gun
Chassis grease

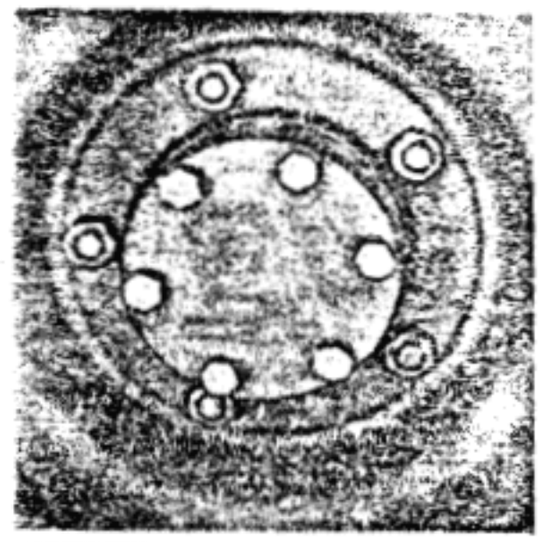


2—Spring Bolt (2)
1 hydraulic fitting
Pressure gun
Chassis grease

10—Lever Shaft
Hand brake
Oil can
Engine oil

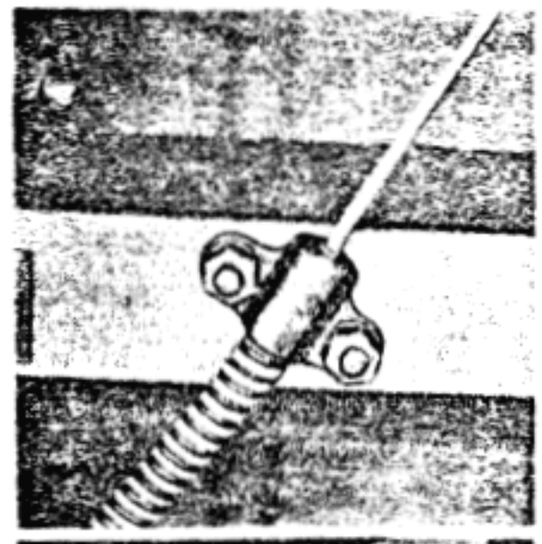


19—Wheel Bearings (2)
Remove and repack
Chassis grease

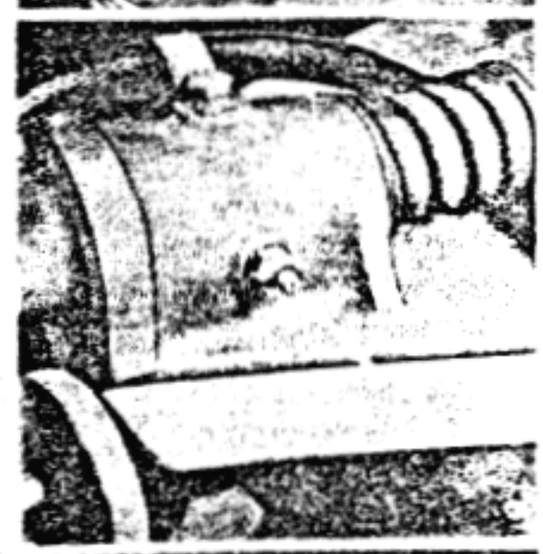


21—Linkage
All pins and rods
Oil can
Engine oil

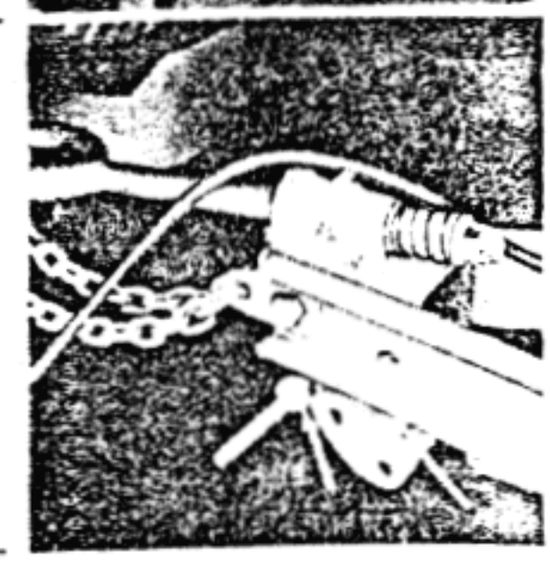
54—Flexible Cable-Brake (2)
Dismantle and grease by hand
Chassis grease



66—Swivel-Lunette Eye
1 hydraulic fitting
Pressure gun
Chassis grease



82—Pivot-Landing Gear and Lock
Oil Can
Engine Oil



Lubrication of any vehicle is important to prevent damage to moving parts. To secure maximum useful service from the vehicle, it is important to use the proper grade of lubricant and apply it in accordance with a definite schedule.

The chart in this section should be referred to for instructions on mileage of application, grade and quantity of lubricant required for all parts of the vehicle.

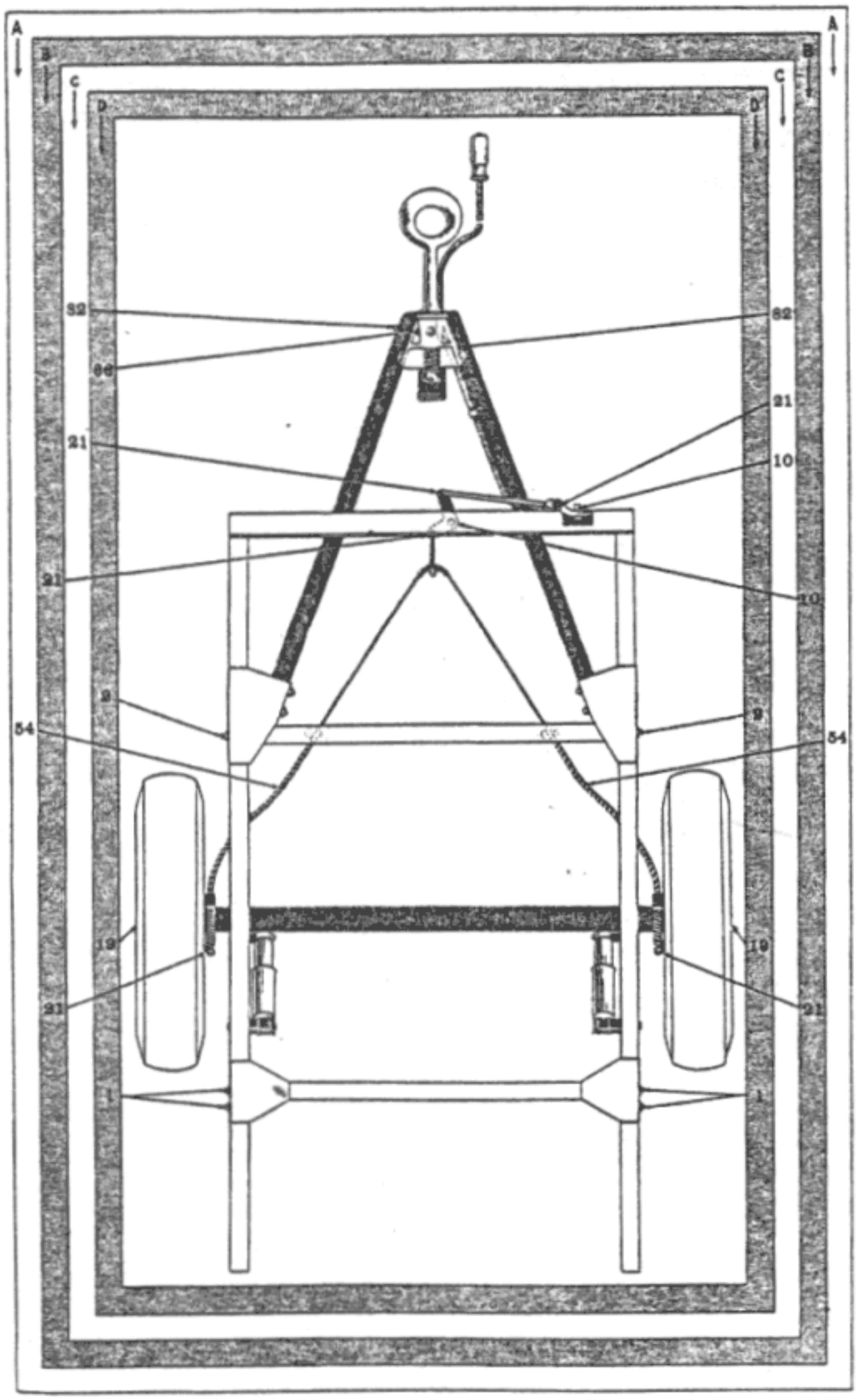
Standardized Army item numbers are used above and on the Lubrication Chart to indicate points to be lubricated. Those numbers not shown are for items not used on this trailer.

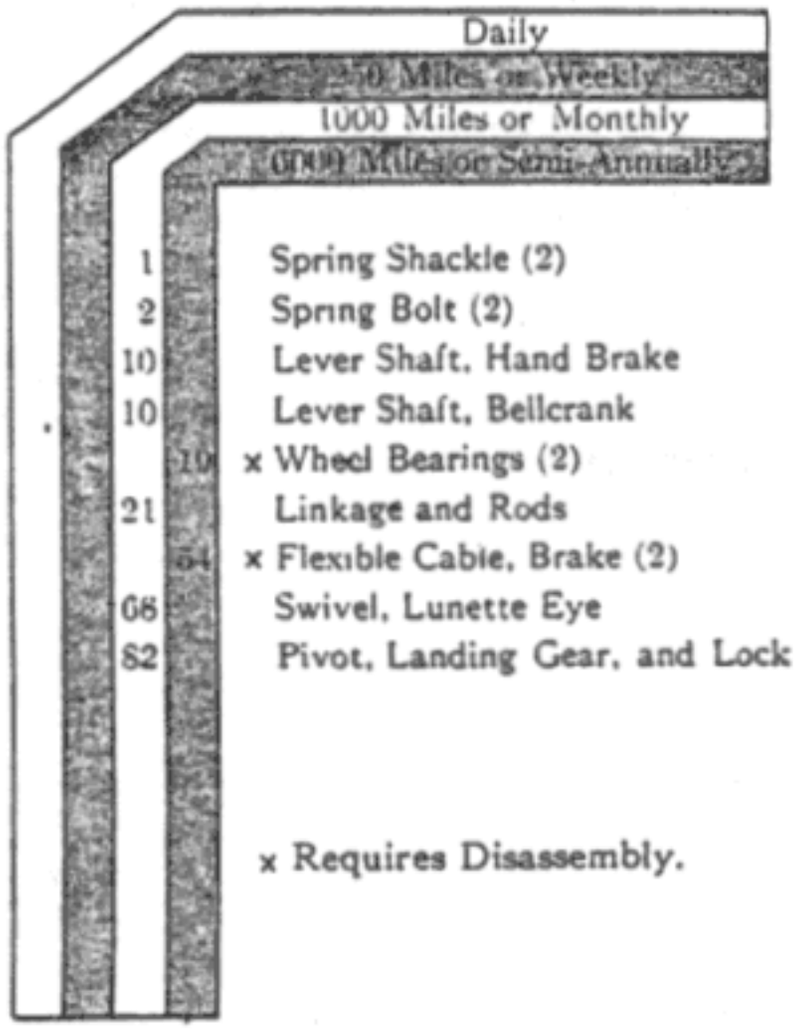
Under normal operating conditions the hub bearings require lubrication approximately every 6,000 miles of continuous service or in the Spring and Fall if trailer is used only intermittently. The hubs and bearings should be removed and thoroughly washed in suitable cleaning fluid. Inspect for pitted races and rollers, renew if necessary and repack with grease. Lightly pack grease in the wheel hubs. See "Wheels" Section, Page 15, concerning bearing adjustment.

Should the brakes fail to release due to the cables sticking in the conduits, the front brackets should be removed from the frame and the conduits loosened at the brake backing plates. Clean the brake cables ahead of the conduits and slide conduits forward after which clean the cables and lubricate, then replace conduits. Be sure conduits fit into front brackets; check brake operation and adjust if necessary.

LUBRICATION CHART
¼ Ton 2 Wheel Trailer Chassis
Mechanical Brakes

Make Willys Model MBT **Make Bantam Model T3**





Spring Shackle (2)
Spring Bolt (2)
Lever Shaft, Hand Brake
Lever Shaft, Bellcrank
x Wheel Bearings (2)
Linkage and Rods
x Flexible Cable, Brake (2)
Swivel, Lunette Eye
Pivot, Landing Gear, and Lock

x Requires Disassembly.

FIG. 4—LUBRICATION CHART

TOOLS

Cleaning Rag
Wheel Bearing Nut Wrench
Screw Driver
Hammer

INSTRUCTIONS

Clean and lubricate all points in the order indicated, except those which require disassembly. Disassemble as separately instructed.

BELOW VEHICLE

Frame A—Chassis Grease
Frame B—Engine Oil

ABOVE VEHICLE

Frame C—Engine Oil
Frame D—Chassis Grease

PREDOMINATING TEMPERATURE

	Above and 32° F.	Between 32° F. 0° F.	Below 0° F.
Chassis Grease....	#1	#1	#1
Engine Oil.....	30	10	10

Chassis grease No. 1 is U. S. Army Specification No. 2-107
Engine Oil No. 30 is U. S. Army Specification No. 2-104A, SAE 30
Engine Oil No. 10 is U. S. Army Specification No. 2-104A, SAE 10

PREVENTATIVE MAINTENANCE

The importance of regular inspection cannot be over-emphasized. Making adjustments, tightening bolts, nuts and wiring connections when needed, will go far towards avoiding trouble and delay on the road and uphold the high standards of reliability built into the vehicle by the Manufacturer.

The following recommendations are made considering the service that the vehicle must render on maneuvers.

After completing maneuvers involving operations in swamps and streams inspect for water in wheel bearings and electrical system.

OPERATION	Daily by Driver	Each 1000 Miles	Each 6000 Miles	12,000
Axle				
Check Axle Alignment (After hard maneuvers or excessive loads)		X		
Check Wheel Bearings for Looseness and Wear		X		
Inspect for Oil Leaks		X		
Body				
Check Bolts in Body Side Rails		X		
Brakes				
Makes Visual Inspection of Brake Cable and Linkage	X			
Remove Wheels; inspect brake lining			X	
Check Brake Pull Back Springs			X	
Test Hand Brake; adjust if necessary	X			
Wiring, Lights & Switches				
Inspect all Connections		X		
Inspect for Chafed or Broken Wires		X		
Inspect Retaining Clips and Grommets		X		
Check Operation of Lights	X			
Lubrication				
Refer to Lubrication Chart	X	X	X	X
Springs				
Inspect Spring Clips to Axle for Tightness		X		
Inspect Spring Shackles and Bushings		X		
Check condition of Springs		X		
Shock Absorbers				
Inspect Mounting Bushings, replace when necessary		X		
Inspect Mounting Brackets		X		
Check for Control; adjust or replace				X
Wheels and Tires				
Check Tire Pressures	X			
Tighten Wheel Hub Bolt Nuts			X	
Remove Wheel Bearings, inspect, repack and adjust			X	
Check Tire Wear		X		