

TM 9-2320-209-20-3-4

T.O. 36A12-1B-1092-1-3

TECHNICAL MANUAL

VOLUME 3 OF 3

PART 4 OF 4

MAINTENANCE

ORGANIZATIONAL LEVEL

2½-TON, 6X6, M44A1 AND M44A2 SERIES TRUCKS

(MULTIFUEL)

TRUCK, CARGO: N35A1,

M35A2, M35A2C, M36A2; TRUCK,

TANK, FUEL: M49A1C, M49A2C; TRUCK, TANK,

WATER: M50A1, M50A2, M50A3; TRUCK, VAN,

SHOP: M109A2, M109A3; TRUCK, REPAIR SHOP:

M185A2, M185A3; TRUCK, TRACTOR: M275A1,

M275A2; TRUCK, DUMP: M342A2; TRUCK,

MAINTENANCE, PIPELINE CONSTRUCTION:

M756A2; TRUCK, MAINTENANCE,

EARTH BORING AND POLESETTING: M764

Chapter 19

Winch and Hoist

Assemblies and

Power Takeoff

Controls and Linkage

Chapter 20

Bumper Guards

Chapter 21

Body Accessory

Items

Chapter 22

Nonelectrical

Gages

Chapter 23

Material Used in

Conjunction with

Major Items

Appendix A

References

NOTE:

**THE STYLE OF THIS TM IS
EXPERIMENTAL. IT IS BEING TRIED
BY THE ARMY ONLY ON
A LIMITED BASIS**

DEPARTMENTS OF THE ARMY AND THE AIR FORCE

MAY 1981

***TM 9-2320-209-20-3-4**
T.O. 36A12-1B-1092-1-3

TECHNICAL MANUAL
NO. 9-2320-209-20-3-4
TECHNICAL ORDER
NO. 36A12-1B-1092-1-3

DEPARTMENTS OF THE ARMY
AND
THE AIR FORCE
Washington, D.C., 27 May 1981

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VOLUME 3 OF 3
PART 4 OF 4
MAINTENANCE
ORGANIZATIONAL LEVEL
2½-TON 6X6, M44A1 AND M44A2 SERIES TRUCKS
(MULTIFUEL)

Model		NSN without Winch	NSN with Winch
Truck, Cargo	M35A1	2320-00-542-5633	2320-00-542-5634
	M35A2	2320-00-077-1616	2320-00-077-1617
	M35A2C	2320-00-926-0873	2320-00-926-0875
	M36A2	2320-00-077-1618	2320-00-077-1619
Truck, Tank, Fuel	M49A1C	2320-00-440-3349	2320-00-440-3346
	M49A2C	2320-00-077-1631	2320-00-077-1632
Truck, Tank, Water	M50A1	2320-00-440-8307	2320-00-440-8305
	M50A2	2320-00-077-1633	2320-00-077-1634
	M50A3	2320-00-937-4036	2320-00-937-5264
Truck, Van, Shop	M109A2	2320-00-440-8313	2320-00-440-8308
	M109A3	2320-00-077-1636	2320-00-077-1637
Truck, Repair Shop	M185A2	4940-00-987-8799	
	M185A3	4940-00-077-1638	4940-00-077-1639
Truck, Tractor	M275A1	2320-00-446-2479	
	M275A2	2320-00-077-1640	2320-00-077-1641
Truck, Dump	M342A2	2320-00-077-1643	2320-00-077-1644
Truck, Maintenance, Pipeline Construction	M756A2		2320-00-904-3277
Truck, Maintenance, Earth Boring and Polesetting	M764		2320-00-937-5980

*This manual, together with TM 9-2320-209-20-1, 27 May 1981; TM 9-2320-209-20-2-1, 27 May 1981; TM 9-2320-209-20-2-2, 27 May 1981; TM 9-2320-209-20-3-1, 27 May 1981; TM 9-2320-209-20-3-2, 27 May 1981; and TM 9-2320-209-20-3-3, 27 May 1981 supersedes TM 9-2320-209-20-1, 31 August 1978.

REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedure, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publication and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, U.S. Army Tank Automotive Materiel Readiness Command, ATTN: DRSTA-MB, Warren, Michigan 48090. A reply will be furnished to you.

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CHAPTER 19

WINCH AND HOIST ASSEMBLIES AND POWER TAKEOFF CONTROLS AND LINKAGE GROUP MAINTENANCE

Section I. SCOPE

19-1. **EQUIPMENT ITEMS COVERED** . This chapter gives equipment maintenance procedures for the winch and hoist assemblies and the power takeoff controls and linkage for which there are authorized corrective maintenance tasks at the organizational maintenance level.

19-2. **EQUIPMENT ITEMS NOT COVERED**. All equipment items for which corrective maintenance is authorized at the organizational maintenance level are covered in this chapter.

Section II. WINCH AND HOIST ASSEMBLIES

19-3. FRONT WINCH BRAKE TEST AND ADJUSTMENTS.

TOOLS: 9/16-inch wrench
Offset screwdriver
Leather gloves

SUPPLIES: None

PERSONNEL: Three

EQUIPMENT CONDITION: Truck parked, engine off, handbrake set.

- a. Preliminary Procedures. Disengage winch clutch. Refer to TM 9-2320-209-10.

- b. Drag Brake Test and Adjustment.
(1) Test.

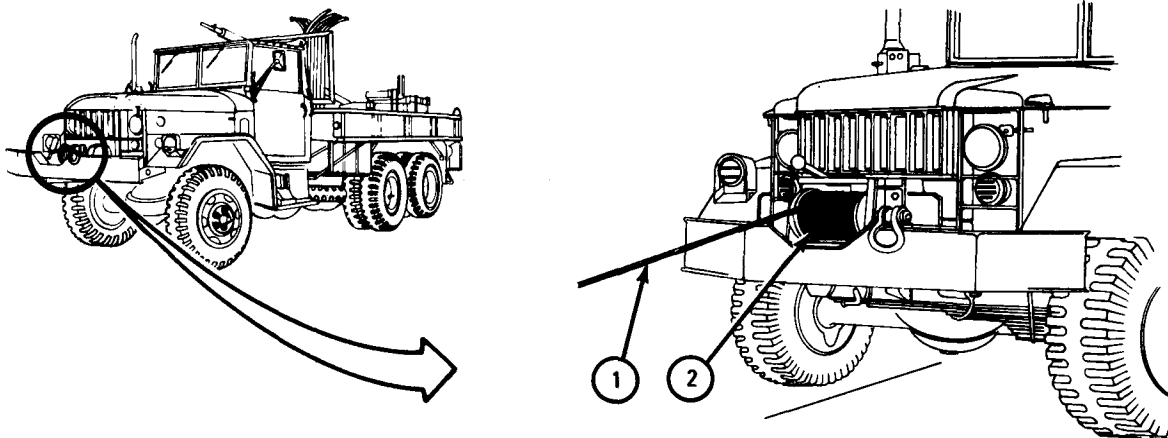
FRAME 1

WARNING

Always wear protective gloves when handling winch cable. Do not let winch cable slip through hands. Rusty or broken wires can cause serious injury.

1. Grab winch cable (1) and pull out about six feet of cable, then let go of cable quickly. If drum (2) keeps turning, do drag brake adjustment. If drum (2) stops turning when cable (1) is let go, adjustment is correct.

END OF TASK

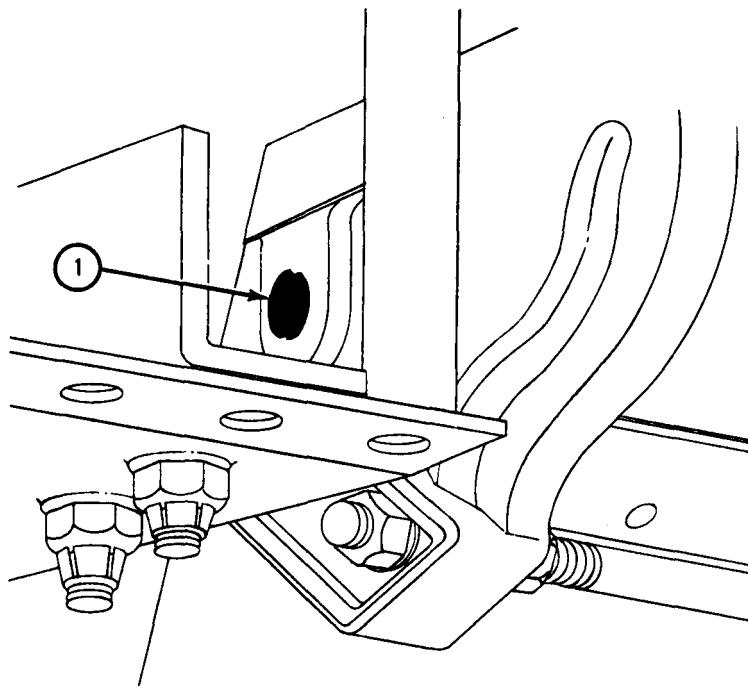


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(2) Adjustment.

FRAME 1

1. Using offset screwdriver, screw in adjusting screw (1) 1/2 turn.
 2. Do test again.
- END OF TASK



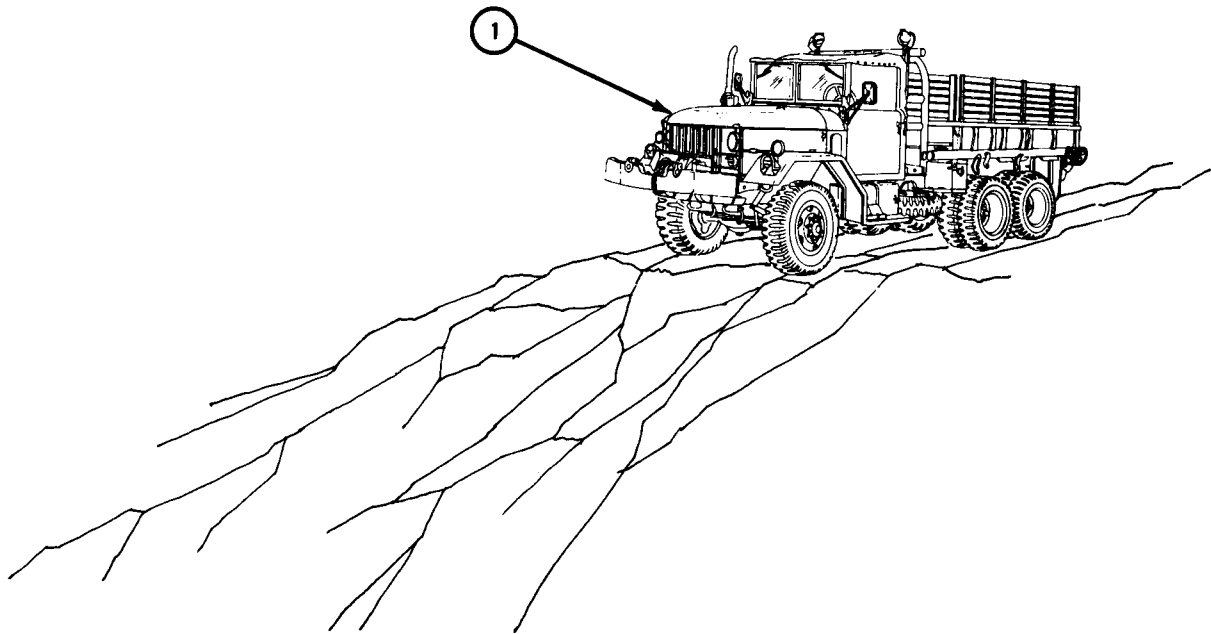
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c. Automatic Brake Test and Adjustment.

FRAME 1

Soldier A 1. Park truck (1) with winch to be tested at top of steep grade as shown. Refer to TM 9-2320-209-10. Sit in cab throughout this task with engine running.

GO TO FRAME 2

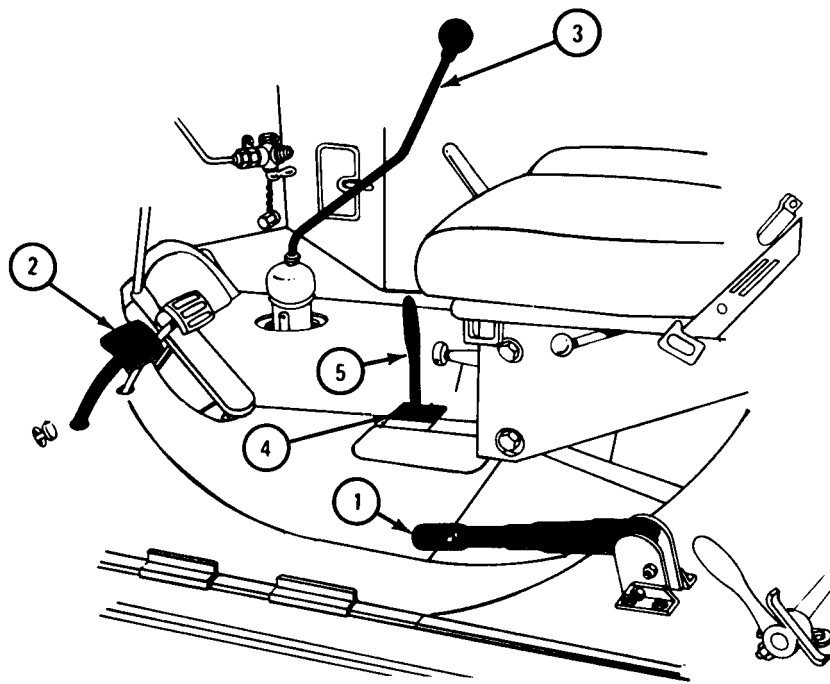


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FRAME 2

1. Pull handbrake (1) up to brake on position.
2. Press clutch pedal (2) all the way down.
3. Place FRONT TRANSMISSION gearshift lever (3) in N (neutral) position.
4. Let clutch pedal (2) up.
5. Turn front winch control lever hinge lock (4) to unlock position.
6. Keep front winch control lever (5) in upper N (neutral) position.

GO TO FRAME 3

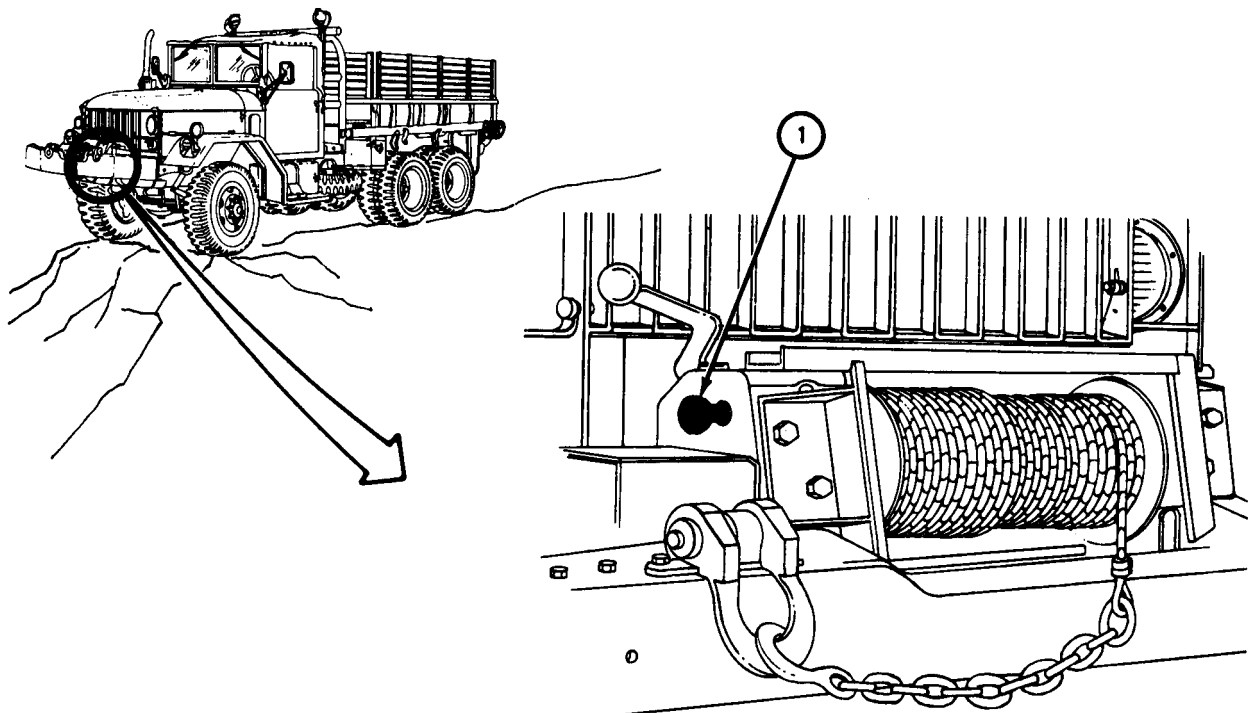


TA 080942

FRAME 3

Soldier B 1. Pullout front winch drum lock knob (1). Turn it 1/4-turn and let it go into unlocked position.

GO TO FRAME 4



TA 080943