

# TM 9-845

WAR DEPARTMENT TECHNICAL MANUAL

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## 12-TON GROSS, 2-WHEEL VAN SEMITRAILER

SIGNAL CORPS MODELS

K-78A AND K-78B

AND

## 8-TON, 2-WHEEL TRAILER CONVERTER DOLLY

SIGNAL CORPS MODELS

K-83 AND K-83A



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TM 9-845, 12-Ton Gross, 2-Wheel, Van Semitrailer (Signal Corps Models K-78A and K-78B) and 8-Ton, 2-Wheel Trailer Converter Dolly (Signal Corps Models K-83 and K-83A), is published for the information and guidance of all concerned.

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BY ORDER OF THE SECRETARY OF WAR:

OFFICIAL:

EDWARD F. WITSELL

*Major General*

*The Adjutant General*

DWIGHT D. EISENHOWER

*Chief of Staff*

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For explanation of distribution formula see TM 38-405.

# CONTENTS

	Paragraphs	Pages
<b>PART ONE. INTRODUCTION</b>		
<i>Section I.</i> General.....	1- 2	1
II. Description and data.....	3- 4	3
III. Tools, parts, and equipment.....	5- 7	9
<b>PART TWO. OPERATING INSTRUCTIONS.</b>		
<i>Section IV.</i> General.....	8	13
V. Service upon receipt of equipment.....	9- 11	13
VI. Controls and operation.....	12- 16	15
VII. Operation of auxiliary equipment.....	17- 19	27
VIII. Operation under unusual conditions.....	20	36
IX. Demolition to prevent enemy use.....	21- 22	37
<b>PART THREE. MAINTENANCE INSTRUCTIONS.</b>		
<i>Section X.</i> General.....	23	40
XI. Special organizational tools and equipment.....	24	40
XII. Lubrication.....	25- 27	40
XIII. Preventive maintenance service.....	28- 34	46
XIV. Trouble shooting.....	35- 46	61
XV. Service brake mechanism.....	47- 52	71
XVI. Trailer brake air system.....	53- 61	83
XVII. Hand parking brake.....	62- 64	112
XVIII. Wheels, hubs, and tires.....	65- 69	115
XIX. Axle assembly, springs and radius rods (under- construction).....	70- 73	124
XX. Leveling jacks.....	74- 75	133
XXI. Dolly and semitrailer landing gear (supports).....	76- 77	135
XXII. Fifth wheel, drawbar, safety chains, and pintle hook.....	78- 82	145
XXIII. 6-volt electrical system.....	83- 90	153
XXIV. 110-volt electrical system.....	91	163
XXV. Heater.....	92- 95	164
XXVI. Intake ventilator.....	96	172
<b>PART FOUR. AUXILIARY EQUIPMENT.</b>		
<i>Section XXVII.</i> General.....	97	174
<b>PART FIVE. REPAIR INSTRUCTIONS.</b>		
<i>Section XXVIII.</i> General.....	98	175
XXIX. Special tools.....	99	175
XXX. Service brake mechanism.....	100-111	175
XXXI. Brake air system.....	112	181
XXXII. Axle and springs (underconstruction).....	113-115	183
XXXIII. Leveling jacks and fifth wheel.....	116-117	190
XXXIV. Dolly and semitrailer landing gear (supports).....	118-120	194
XXXV. Body and frame.....	121-128	197
XXXVI. Heater.....	129-132	205
XXXVII. Jumper cable, coupling socket, and blackout switch.....	133-135	217
XXXVIII. Serviceability standards.....	136-139	220
<b>APPENDIX I. SHIPMENT AND LIMITED STORAGE</b>	1- 6	223
<b>II. REFERENCES</b>	1- 3	234
<b>INDEX</b> .....		237



# PART ONE

## INTRODUCTION

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### Section I. GENERAL

#### 1. Scope

*a.* These instructions are published for the information and guidance of all concerned. They contain information on operation and maintenance of the equipment as well as descriptions of major units and their functions in relation to other components of this vehicle. These instructions apply to the 12-ton gross, 2-wheel, van semitrailer (Signal Corps models K-78A and K-78B) and 8-ton, 2-wheel trailer converter dolly (Signal Corps models K-83 and K-83A) (Fruehauf) which are used to transport Signal Corps equipment. This publication is arranged in five parts: Part One, Introduction; Part Two, Operating Instructions; Part Three, Maintenance Instructions; Part Four, Auxiliary Equipment; Part Five, Repair Instructions.

*b.* The appendixes contain instructions for shipment and limited storage, and a list of references including standard nomenclature lists, technical manuals, and other publications applicable to the vehicle.

*c.* Stock and part numbers for the components and parts discussed in this manual will be found in ORD 8, SNL G-698 for the semitrailer, and ORD 8, SNL G-695 for the dolly.

#### 2. Records

*a. GENERAL.* Forms, records, and reports are designed to serve necessary and useful purposes. Responsibility for the proper execution of these forms rests upon commanding officers of all units operating and maintaining vehicles. It is emphasized, however, that forms, records, and reports are merely aids. They are not a substitute for thorough practical work, physical inspection, and active supervision.

*b. AUTHORIZED FORMS.* The forms, records, and reports generally applicable to unit operating and maintaining these vehicles are listed below with brief explanations of each. No forms other than approved War Department forms will be used in operating and maintaining the vehicles. Pending availability of forms listed, old forms may be used. For a current and complete listing of all forms, see FM 21-6.

(1) *War Department Lubrication Orders.* 9-845 and 9-845-1 prescribe lubrication maintenance for this vehicle. A lubrication

order is issued with each vehicle and is to be carried with it at all times. Instructions contained therein are mandatory to all users of the equipment and supersede all conflicting lubrication instructions of prior date.

(2) *Standard Form 26 (Driver's Report — Accident — Motor Transportation)*. One copy of this form will be kept with vehicle at all times. In case of an accident resulting in injury or property damage, it will be filled out by the driver on the spot, or as promptly as practicable thereafter.

(3) *WD Form 30 (Report of Claims Officer)*. This form will be used by the claims officer in reporting his investigation of vehicle accidents.

(4) *WD Form 48 (Driver's Trip Ticket and Preventive Maintenance Service Record)*. This form, properly executed, will be furnished driver or operator when his vehicle is dispatched on nontactical missions. The driver and the official user of the vehicle will complete in detail appropriate parts of this form. This form need not be issued for vehicles in convoy or on tactical missions. The reverse side of this form contains the driver's daily and weekly preventive maintenance service schedule, the accomplishment of which is mandatory.

(5) *WD AGO Form 9-68 (Spot Check Inspection Report for Wheeled and Half-track Vehicles)*. This form is provided as a record for use by commanders and their staff representatives conducting command inspections on this type of equipment.

(6) *WD AGO Form 9-71 (Locator and Inventory Control Card)*. Except when specified otherwise by the War Department, this form will be used as a bin tag, locator card, or inventory control card by all units authorized automotive spare parts.

(7) *WD AGO Form 9-73 (Data for Registration—Motor Vehicle)*. All vehicles will be registered in the War Department Motor Vehicle Central Records Office, Office Chief of Ordnance, Detroit 32, Mich. Registration will be made by accomplishing this form in accordance with AR 850-10.

(8) *WD AGO Form 9-74 (Motor Vehicle Operator's Permit)*. This form will be issued by commanders to all operators of vehicles who are qualified to operate the particular vehicles noted on the permit.

(9) *WD AGO Form 9-75 (Daily Dispatching Record of Motor Vehicles)*. This form will be used to keep a daily record of all vehicles dispatched.

(10) *WD AGO Form 9-76 (Request for Work Order)*. This form will be used for requesting repairs, alterations, or other type of work within or between organizations and departments.



(11) *WD AGO Form 9-77 (Job Order Register)*. This form will be used to keep a chronological record of work orders.

(12) *WD AGO Form 13-1 (Automotive Disability Report of Vehicles Disabled More Than 3 Days)*. This form will be accomplished and submitted as directed in current War Department instructions.

(13) *WD AGO Form 441 (Monthly Motor Vehicle Summary Report)*. This form will be used to furnish a monthly summary of accidents involving vehicles.

(14) *WD AGO Form 460 (Preventive Maintenance Roster)*. This form will be used for scheduling and maintaining a record of motor vehicle maintenance operations (weekly, monthly, quarterly, and semiannually).

(15) *WD AGO Form 461 (Work Sheet for Wheeled and Half-track Vehicles—Preventive Maintenance Service and Technical Inspection)*. This form will be used for maintenance services and for all technical inspections performed on wheeled or half-track vehicles.

(16) *WD AGO Form 478 (Modification Work Order and Major Unit Assembly Replacement Record and Organization Equipment File)*. This form will be kept in possession of second echelon personnel and will accompany vehicles upon transfer and evacuation to higher echelon. It will be a record of all modifications made and exchanges of major unit assemblies. Minor repairs, parts, and accessory replacements will not be recorded. In the field, where no filing facilities are available, this form will be kept in a filing jacket.

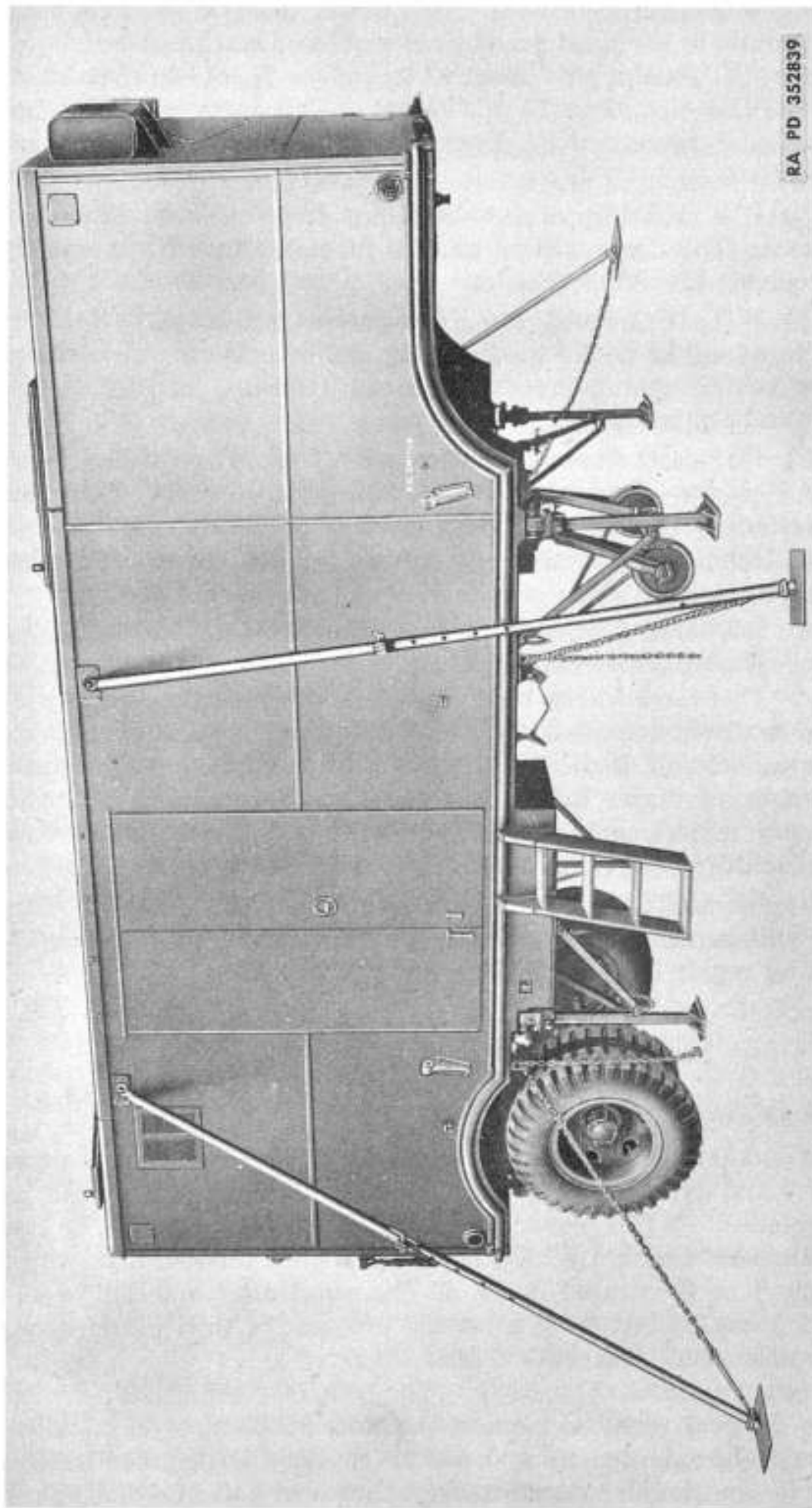
(17) *WD AGO Form 811 (Work Request and Job Order)*. This form will be used by organizational maintenance units when requesting repair by a higher echelon repair unit.

## Section II. DESCRIPTION AND DATA

### 3. Description

*a. GENERAL DESCRIPTION.* The vehicle consists of two units (figs. 1 and 2), a semitrailer and a dolly. The semitrailer can be converted into a full trailer by attaching the dolly (fig. 3), or can be transported with a vehicle equipped with a suitable fifth wheel (coupler) as illustrated in fig. 4. The semitrailer and dolly combination can be towed by a vehicle provided with a pintle hook. The semitrailer transports a fixed load.

*b. SEMITRAILER.* (1) *Body.* The body is of the van type, with frame integral with the main frame. One double door is installed on the right side (curb) and one single door is installed on the left side. One double tailgate is used, the lower half of which opens



*Figure 1. Semitrailer—model K-78A parked for operation.*