

TECHNICAL MANUAL

**ORGANIZATIONAL, DIRECT SUPPORT, AND
GENERAL SUPPORT MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND
SPECIAL TOOLS LIST)**

FOR

**85' AERIAL LADDER
FIRE FIGHTING TRUCK**

NSN 4210-00-965-1254

HEADQUARTERS, DEPARTMENT OF THE ARMY

7 NOVEMBER 1986

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FOREWORD

Descriptions, instructions and parts listing pertaining to the Model QWT 85 are discussed throughout this manual under the general headings Chassis, Pump and Ladder. Foldout illustrations and schematics are located at the rear of this volume. The foldout format is provided in order that illustrations and schematics may be referred to while the supporting text is being examined and studied.

A detailed description is given in the Introduction of each volume to assist the user in finding the information required to maintain the equipment.

- Operator's Manual (TM 5-4210-227-10)

This manual is designed to provide the information necessary for a fire fighter or mechanic to properly operate the truck, the pump and the ladder.

- Maintenance Manual (TM 5-4210-227-24&P)

This manual is divided into 8 volumes and contains the information necessary for an experienced mechanic to maintain and repair all facets of the apparatus. Each volume is individually indexed for ease of reference. This manual contains all the information necessary to obtain assemblies and sub-assemblies or individual parts, required to repair and maintain the fire truck.

TABULATED DATA

- | | | |
|----|-----------------------------|------------------------------|
| a) | <u>Fire Truck</u> | |
| | Federal Stock Number: | 4210-00-965-1254 |
| | Manufacturer 's Serial No.: | |
| | Registration Nos.: | CM3653 through CM3664 |
| | Manufacturer: | Pierre Thibault Inc. |
| | Model: | QWT 85 |
| | Contract Number: | DAAJ10-84-A218 |
| | Truck Length: | 459" |
| | Truck Width: | 108" |
| | Truck Height: | 138" |
| | Capacity or Payload: | 51,000 GVWR |
| | Shipping Weight: | 43,880 |
| | Ground Clearance: | 10.25" |
| | Weight Loaded: | 45,940 |
| | Front Axle | 19,740 |
| | Rear Axle | 26,200 |
| b) | <u>Chassis</u> | |
| | Manufacturer: | Duplex |
| | I.D. Number: | I.C. ID91 D31
D6F 1008468 |
| | Model: | D350 |
| | Wheel Base | 230" |
| c) | <u>Engine</u> | |
| | Manufacturer: | Detroit Diesel |
| | Model: | 8V-71 Turbo |
| | Serial Number: | 8VA437868 |
| | Fuel: | Diesel |

- d) Transmission
 Manufacturer: Allison
 Model: HT-740
 Serial No.: 2510087501
 Capacity: 7 1/2 Gals
- e) Firefighting Water Pump
 Manufacturer: Hale
 Model: QSM FHD100
 Capacity: 1000 GPM @ 150 psi
- f) Front Axle
 Manufacturer: Rockwell International
 Model: FL 941 QX-70
 Capacity: 20,000 lbs.
 Serial No.: N766718
- f) 1. Front Shock Absorbers
 Manufacturer: Duplex
 Model: 7605-1258
- f) 2. Front Springs
 Manufacturer: Duplex
 Model: 7804-6731
- g) Rear Axle
 Manufacturer: Rockwell International
 Model: U-170 PX-99
 Capacity: 31,000 lbs.
 Serial No.: NW845892
- g) 1. Rear Suspension
 Manufacturer: Hendrickson
 Model: Single Axle RS-SA-340