

TECHNICAL MANUAL

ILLUSTRATED PARTS BREAKDOWN

FLIGHTLINE  
TOW TRACTOR  
MODEL NO. 3

NSN 1740-01-173-0520YW

PSI Mobile Products, Inc.  
F09603-84-C-0306  
F09603-99-D-0382

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## SECTION I INTRODUCTION

### 1-1 GENERAL.

This Illustrated Parts Breakdown lists and describes the parts of the Flightline Tow Tractor, Model No. 3, manufactured by PSI Mobile Products, Inc., Mt. Clemens, MI 48043, as their part number 010341. This publication is arranged in the following manner:

- Table of Contents
- Section I - Introduction
- Section II - Maintenance Parts List
- Section III - Numerical Index

### 1-2 TABLE OF CONTENTS.

The Table of Contents shows the location of all illustrations within the Maintenance Parts List and also indicates the relationship of assemblies and subassemblies to each other by use of the indention method described in paragraph 1-4 below. Illustrations are listed in the sequence of their appearance in the parts breakdown.

### 1-3 INTRODUCTION.

The Introduction consists of general information and instructions regarding the use of this Illustrated Parts Breakdown.

### 1-4 MAINTENANCE PARTS LIST.

The Maintenance Parts List contains a breakdown of the equipment into its assemblies, subassemblies and detail parts. Each assembly listed is followed immediately by its component parts properly indented to show their relationship to the assembly. An assembly beginning in column one has its detail parts beginning in column two. If a detail part is in turn an assembly, its detail parts begin in column three, etc. Attaching parts are listed immediately below and at the same indention as the items which they attach. They are indicated by the symbol (AP) following the description.

All parts of the equipment are listed, except parts which lose their identity by being soldered, brazed, welded, riveted, swaged, cemented, potted, sealed, or otherwise permanently fastened to other parts or assemblies and are not subject to disassembly. In addition, certain bulk items such as insulation, sealant, etc., are not listed.

### 1-5 EXPLANATION OF COLUMNS USED IN THE MAINTENANCE PARTS LIST.

The seven columns used for the listing of information in the Maintenance Parts List are explained in the following paragraphs.

**1-5.1 Figure and Index Number Column.** The figure and index numbers key the parts breakdown list to the applicable illustration. The number preceding the dash is the figure number of the illustration. This figure number appears at the beginning of each page or listing. The number following the dash is the index number of a part appearing in the illustration. The index numbers are arranged in sequence and generally reflect the order of disassembly. Their main use is to facilitate the location of a part in the Maintenance Parts List after the part has been found in the Numerical Index.

**1-5.2 Part Number Column.** This column contains the manufacturer's, vendor's or Government standard (AN, MS, etc.) part number. Contractor or vendor (AMC) assigned part numbers or contractor specification control drawing numbers, if any, are shown in the description column. Part numbers are used to identify all parts, with the exception of parts which do not have a valid part number, in which case NO NUMBER is shown.

**1-5.3 FSCM Column.** This column lists the Federal Supply Code for manufacturers as presented currently in H4-1, H4-2 and H4-3 (NATO) catalogs.

#### Note

Contractor part numbers are identified with the code 31509. Parts shown parenthetically in the Description Column are contractor part numbers (figures 2 through 5 only).

The parenthetical part numbers reflected in the description column of figures 6 through 132 are AMC part numbers, not PSI (contractor) part numbers. AMC FSCM is 92871. This same PN relationship is reflected in the Numerical Index, Section III.

**1-5.4 Description Column.** This column identifies the parts being listed by noun name, followed by modifiers. When appropriate, the column also includes descriptive data such as: dimensions, material, applicable Government specifications, reference to approved publications for the article, or to previous listing of "REF" items as explained in paragraph 1-5.5. The contractor part number for all purchased parts is also reflected parenthetically in



this column. This column is also used to show the relationship between assemblies, subassemblies and their components by use of the indentation method explained in paragraph 1-4 above.

**1-5.5 Units Per Assembly Column.** This column indicates the quantity of parts required for the assembly or subassembly in which that part appears. "REF" (reference) is used in this column when the part has been previously listed and illustrated, with proper quantity, and is relisted for reference purposes only. The quantities listed in this column are, in the case of assemblies, the total quantity used at the location indicated. In the case of components of assemblies, the quantities listed indicate the number of parts used in one assembly. The quantities specified are not necessarily the total used in the equipment. The designation NP denotes parts not procurable as separate items, and AR denotes that the quantity of parts used is as required. NSS denotes not serviced separately.

**1-5.6 Usable on Code Column.** There is only one model tow tractor reflected in this technical manual. Part variations within assemblies (if any) are indicated by a letter symbol or combination of symbols appearing in this column. Where this column is left blank, parts listed are applicable to all models covered by this parts breakdown. The Usable on Code explanation appears at the end of the applicable parts list.

**1-5.7 SMR Code Column.** This manual contains Joint Military Services Uniform SMR Codes only. Definitions of these SMR codes are available in TO 00-25-195.

## 1-6 NUMERICAL INDEX.

This index contains a numerical listing of all parts that appear in the Maintenance Parts List and is arranged as shown below.

**1-6.1 Part Number Column.** This column lists all the parts in alpha-numerical sequence.

**1-6.1.1 Part Number Arrangement.** The order of precedence in beginning the part number arrangement on the extreme left is as follows:

Letters A through Z  
Numerals 0 through 9

The order of precedence in continuing the part number arrangement from left to right is as follows:

Space (blank column)  
Diagonal (/)  
Point (.)  
Dash (-)  
Letters A through Z  
Numerals 0 through 9

**1-6.2 Figure and Index Column.** This column lists the figure and index number on the parts list on which the part may be found. Standard parts are listed only for the first location at which they appear. When a part has not been assigned an index number, the figure and index number of the preceding part in the parts list is used with the letter "F" before the figure number, such as F7-6 (figure 7, index 6).

## 1-7 REPAIR PARTS KITS.

This publication reflects the listing of repair parts kits. Certain replacement parts are stocked only in kits. Standard parts and parts having multi-application are stocked in their appropriate classes and may also be stocked in kits. Kit parts should not be ordered from separate stock to make up a kit.

## 1-8 ABBREVIATIONS.

All symbols and abbreviations used in the Maintenance Parts List are in accordance with Specification MIL-STD-12, Abbreviations for Use on Drawings, and in Specifications, Standards and Technical Documents.

## 1-9 RELATED TECHNICAL MANUALS.

Other related manuals pertaining to the tow tractor are listed below.

Operation and Operator	TO 36A10-3-29-31
Maintenance Instructions	
Maintenance/Overhaul	TO 36A10-3-29-32
Instructions	



## HOW TO USE THE ILLUSTRATED PARTS BREAKDOWN

IF PART NUMBER IS NOT KNOWN. . . . **Do This**

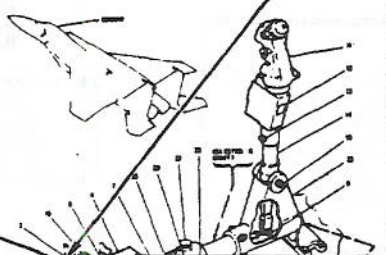
1. Determine in which system; fuel, oxygen, hydraulic, etc., or structure the part is located. Turn to the TABLE OF CONTENTS of the appropriate volume. From this list, select the illustration most likely to contain the desired part. Note figure number or page number.

2. Refer to figure number or page number of the illustration selected from TABLE OF CONTENTS. Locate the desired part on the illustration. Note index number.

3. Refer to corresponding GROUP ASSEMBLY PARTS LIST. Locate the index number selected from the illustration for part number, nomenclature, etc.

Page	Illustration	Page
2-1	Stick Landing Gear Installation.....	2-1
2-2	Stick Landing Gear Assembly.....	2-2
2-3	Stick Landing Gear Assembly.....	2-3
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2-28 Stick Instl, Pilots Control ..... 2-272



2-272

Figur

2-28-1 R15016-1

2. Refer to the illustration of the volume and figure number noted on COMPLETE SYSTEM INDEX DRAWING. Locate the part on the illustration and note the index number.

3. Refer to corresponding GROUP ASSEMBLY PARTS LIST. Locate the index number selected from the illustration for the part number, nomenclature, etc.

1. Determine in which system; fuel, oxygen, hydraulic, controls, etc., the part is located. Turn to the COMPLETE SYSTEM INDEX DRAWING which appear as the last pages of the appropriate volume. Select the part in question or a part in the area in question of the appropriate SYSTEM INDEX DRAWING. Note volume and figure number.

**Do This** TO LOCATE THE PART BY SYSTEM INDEX DRAWING

20 Stick, Pilots Control ..... 2-28

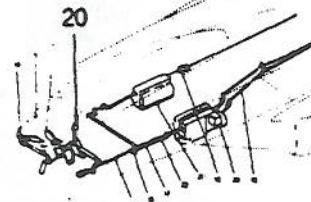


Figure 1-10 Stick Control System (Sheet 1 of 2)

# HOW TO USE THE ILLUSTRATED PARTS BREAKDOWN-Continued

3. If a pictorial representation of the part or its location is desired, refer to the same index number on the accompanying illustration.

2. Using the correct volume, turn to the figure and index number referenced in the NUMERICAL INDEX to obtain desired information.

1. Locate the part number in the NUMERICAL INDEX of VOLUME 7. Note the volume, figure, and index number where the part is called out in the GROUP ASSEMBLY PARTS LIST.

**Do This**  
IF PART NUMBER  
IS KNOWN. ....

2-272

Figure 2-28 Stick Ins

2-28-1

R15016-1

R15016-1

2-28-1

93Z-C016 2-28-1

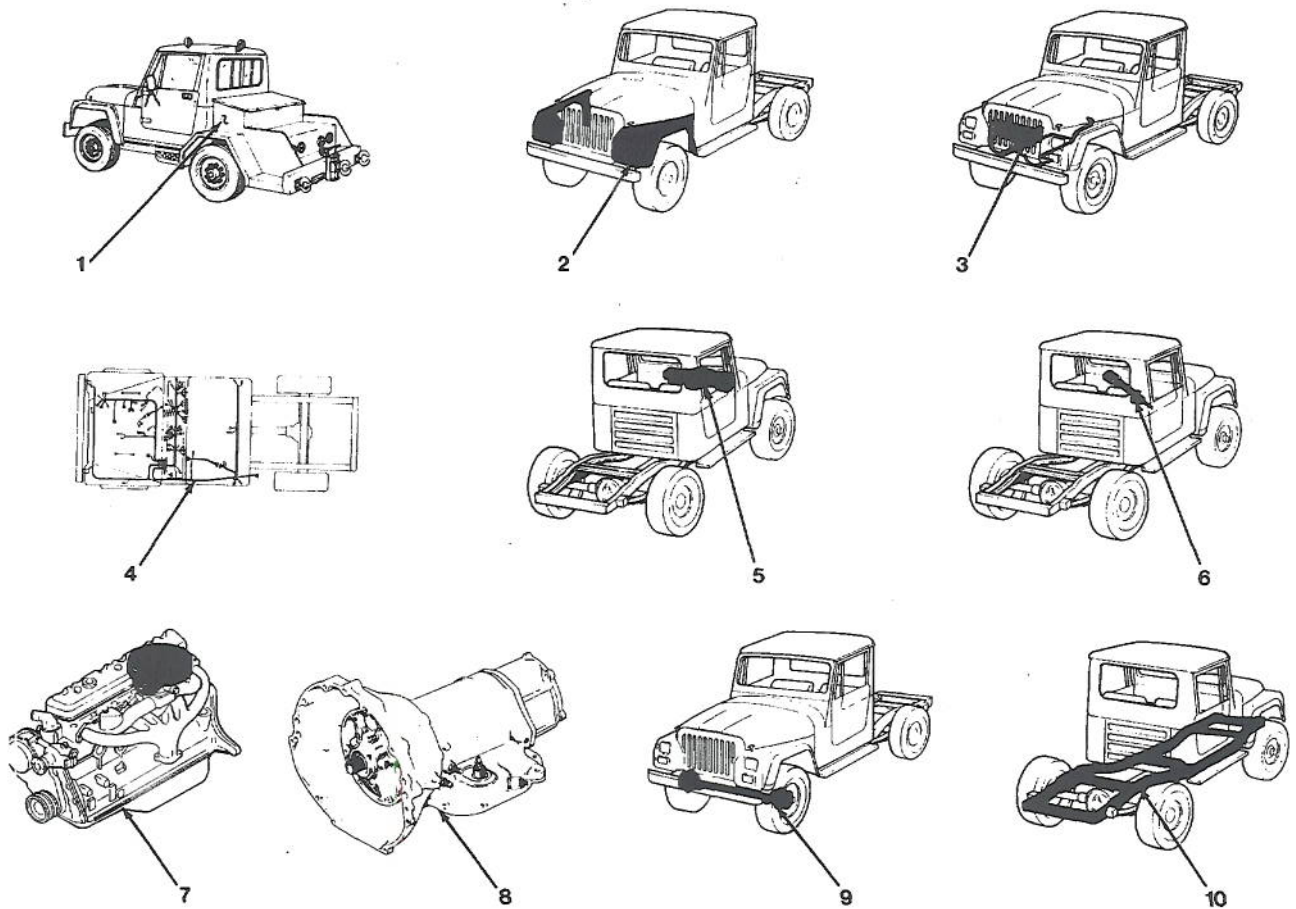
3. If a pictorial representation of the part or its location is desired, refer to the same index number on the accompanying illustration.

2. Using the correct volume, turn to figure and index number referenced in the REFERENCE DESIGNATION INDEX to obtain desired information.

1. Locate the REFERENCE DESIGNATION NUMBER in the REFERENCE DESIGNATION INDEX of VOLUME 7. Note the assigned volume, figure and index number where the part is located in the GROUP ASSEMBLY PARTS LIST.

IF REFERENCE  
DESIGNATION IS KNOWN. .... **Do This**





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7	Engine and Related Parts Group	79-107
8	Transmission and Transfer Case Group	108-118
9	Suspension and Brakes Group	38, 39, 119-131
10	Frame Group	132

**Figure 1. Flightline Tow Tractor, Model No. 3, Visual Index**

10115B

