

TECHNICAL MANUAL

**OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT
AND GENERAL SUPPORT MAINTENANCE
MANUAL INCLUDING REPAIR PARTS LIST
FOR
BLAST CLEANING MACHINE
MODEL SPECIAL 16W
(PAULI & GRIFFIN COMPANY)
(NSN 4940-00-277-2999)**

HEADQUARTERS, DEPARTMENT OF THE ARMY

APRIL 1980

Technical Manual

No. 9-4940495-14&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 30 April 1980

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REPORTING OF ERRORS

You can help improve this manual by recommending improvements using, DA Form 2028 (Recommended Changes to Publications and Blank Forms) or DA Form 2028-2 located in the back of this manual. Mail your form direct to Commander, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAS, Rock Island, IL 61299. A reply will be furnished direct to you.

NOTE

This manual is published for the purpose of identifying an authorized commercial manual for the use of the personnel to whom this cleaning machine is issued.

Manufactured by: Pauli & Griffin Company
137 Utah Avenue
South San Francisco, CA 94080

Procured under Contract No. DAAA09-C-77-6505

This technical manual is an authentication of the manufacturers' commercial literature and does not conform with the format and content specified in AR 3103, Military Publications. This technical manual does, however, contain available information that is essential to the operation and maintenance of the equipment.

INSTRUCTIONS FOR REQUISITIONING PARTS**NOT IDENTIFIED BY NSN**

When requisitioning parts not identified by National Stock Number, it is mandatory that the following information be furnished the supply officer.

- 1 - Manufacturer's Federal Supply Code Number - 86413
- 2 - Manufacturer's Part Number exactly as listed herein.
- 3 - Nomenclature exactly as listed herein, including dimensions, if necessary.
- 4 - Manufacturer's Model Number - Model Special 16W
- 5 - Manufacturer's Serial Number (End Item)
- 6 - Any other information such as Type, Frame Number, and Electrical Characteristics, if applicable.
- 7 - If DD Form 1348 is used, fill in all blocks except 4, 5, 6, and Remarks field in accordance with AR 725-50.

Complete Form as Follows:

- (a) In blocks 4 5, 6, list manufacturer's Federal Supply Code Number - 86413 followed by a colon and manufacturer's Part Number for the repair part.
- (b) Complete Remarks field as follows:
Noun: (nomenclature of repair part)
For: NSN: 4940-00-277-2999
Manufacturer: Pauli & Griffin Co.

Model: Special 16W
Serial: (of end item)

Any other pertinent information such as Frame Number,
Type, Dimensions, etc.

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I. INTRODUCTION AND GENERAL INFORMATION

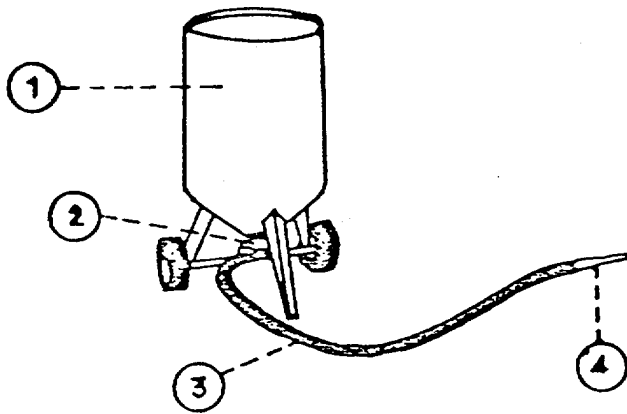
ABRASIVE BLAST CLEANING DEFINED

Abrasive blast cleaning is defined as the cleaning of a surface by the impact of abrasives. The use of compressed air through a nozzle as the propelling force is termed air blasting, and the use of centrifugal force of a rotating blade is termed wheel blasting.

Abrasive blast cleaning takes into consideration all commonly used abrasives, not merely sand as the word sandblasting would imply. However, the word sandblasting is used regularly whether the abrasive is steel grit, walnut shells, glass beads, sand, or any other abrasive.

ONLY FOUR BASIC PARTS ON SANDBLAST EQUIPMENT

Regardless of size or shape, a sandblast machine has only four basic parts:



1. An abrasive container
2. An abrasive metering device
3. A hose to deliver the abrasive
4. A nozzle to guide the abrasive to the blasting surface