Pratt & Whitney Canada Corp. 1000, Marie-Victorin Longueuil, Québec, Canada J4G 1A1 Tél. 450-677-9411



January 17/2020

REVISION TRANSMITTAL SHEET

TO: Holders of the Pratt & Whitney Canada Component Maintenance Manual

73-10-05, Manual Part No. 3053386.

SUBJECT: Revision No. 5, dated Jan 17/2020

This CMM is revised to update introduction, cleaning, Repair and special tools, fixtures, equipment and consumables. Please refer to the next page for Highlights of the changes.

Any discrepancies, problems or suggestions regarding this revision should be sent via the Support Ticket application under the Help menu on MyP&WC Power portal at https://customer.pwc.ca

You can send your comments in writing to:

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Attention: Manager, Technical Publications (05MS1)

Email: customer.service@pwc.ca

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PT6 Component Maintenance Manual (CMM) MANUAL P/N 3053386 REVISION NO. 5 HIGHLIGHTS

Pages	Page Block	Description
		Revised Table 1:
		- to remove engine model PT6C-67A for part number 3058617-01,
1	Introduction	- to remove engine model PT6C-67D for part numbers 3073974-01 and 3073976-01,
		- to add engine model PT6C-67A for part numbers 3073974-01 and 3073976-01.
2	Introduction	Revised paragraph 1.D. to update the address.
2	How to use	Revised Figure 1 to update description of the effectivity in footers.
3	How to use	Revised paragraph 1.D.(1).(b) to change from "EFF: CONFIGURATION – A:" to "EFF: A:" - to change from EFF CONFIGURATION – A, B, C:" to "EFF: A, B, C".
4012	Cleaning	Revised Figure 4003 to add imperial units and metric values of dimensions.
5001	Check	Revised paragraph 1.B. to update from "Pratt and Whitney Canada Corp., Accessories Services (CAGE L1350)" to "Pratt & Whitney Component Solutions Inc.".
5005	Check	Revised paragraph 2.(1).C.(f). to update from "Pratt and Whitney Canada Corp., Accessories Services (CAGE L1350)" to "Pratt & Whitney Component Solutions Inc.".
6001	Repair	Revised paragraph 1.B. to update from "Pratt and Whitney Canada Corp., Accessories Services (CAGE L1350)" to "Pratt & Whitney Component Solutions Inc.".
6003	Repair	Revised Table 6002 to add a repair "Repair – Preformed Packing Groove" and relevant number of the subtask.
6004	Repair	Revised Table 6003 to update name of PWC03-002 from "Fluid, Calibrating" to "Fluid, Calibrating MIL-PRF-7024 Type II".
6006	Repair	Added paragraph 2.C.(6).
6007	Repair	Added Figure 6001.
9003	Special tools, fixtures, equipment and consumables	Revised Table 9002: - to add subtask 73-10-05-99A-002 "Slave Part", - to renumber subtask numbers.
9004	Special tools, fixtures, equipment and consumables	Revised table 9003 to add part numbers PWC05-054 and relevant data.

PT6 Component Maintenance Manual (CMM) MANUAL P/N 3053386 REVISION NO. 5 HIGHLIGHTS

Pages	Page Block	Description
9005	Special tools, fixtures,	Revised table 9004: - to add part numbers PWC70728, PWC71041, PWC71082, PWC72522 and relevant data.
	equipment and consumables	- to add "Blades, Metal (Quantity 2)" and "Refractometer 0-50% range".
2005	Special tools, fixtures, equipment and consumables	Revised Table 9005: - to update source of the Base Fuel Nozzle Flow Test from "Pratt & Whitney Canada Corp. (00198)" to "CEL Aerospace Test Equipment Ltd. (3AS79)"
9005 and 9006		- to delete part numbers PWC70728, PWC71041, PWC71082 PWC72522.
		- to add "Support, Fuel Adapter Housing".
		- to update from "Ultrasonic Cleaner, 25kH" to "Ultrasonic Cleaner 25-40 kHz".
9007	Special tools, fixtures, equipment and consumables	Added Table 9007 "Slave Parts".

Component Maintenance Manual

Manual Part No. 3053386

Fuel Nozzle Adapter (Simplex/Duplex)

(For all the applicable part numbers, refer to the INTRODUCTION)

APPLICABLE TO: PT6B-67A, PT6C-67A, PT6C-67C, PT6C-67D and PT6C-67E Issued Jun 15/2005

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Jan 17/2020

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INTRODUCTION

Task 73-10-05-99F-801

1. Introduction

A. General

- (1) This manual gives you the maintenance instructions for the Fuel Nozzle Adapters. These components are used on several different P&WC Engines.
- (2) Use your part number to find the applicable engine model series, and configuration code (Refer to Table 1).

TABLE 1, Part Number, Engine Model/Series and Configuration (Task 73-10-05-99F-801)

Part Number	Engine Model/Series	Configuration
3058617-01	PT6B-67A PT6C-67C PT6C-67D	A01
3058932-01	PT6C-67D	B03
3059126-01	PT6B-67A PT6C-67C	B01
3073974-01	PT6C-67A PT6C-67C PT6C-67E	B02
3073976-01	PT6C-67A PT6C-67C PT6C-67E	A02

NOTE: This information is provided for reference only. For data on the correct applicability of the part number to an engine model(s), refer to the respective engine Illustrated Parts Catalog (IPC).

- (3) To re-service a fuel nozzle adapter and stem, you must do the full tasks as defined in this manual for Disassembly, Cleaning, Check, Repair (where required and permitted), Assembly and Testing.
- (4) To overhaul a fuel nozzle adapter and stem, you must do the full tasks as defined in this manual for the refurbishing of the flow divider valve. Refurbishing instructions of the flow divider valve are not included in this manual and can only be done by returning the component to Pratt and Whitney Canada Corp. (00198).

NOTE: A complete fuel nozzle adapter and stem overhaul is required under the following conditions: 1. The part does not pass all the flow test requirements after cleaning (Refer to Testing and Fault Isolation section). 2. The part is damaged beyond repairable limits (Refer to Check and Repair sections). 3. The part has excessive varnish or discoloration at the inlet and screen areas (Refer to Check section for basic criteria).

B. Manual Format

(1) This manual is prepared per ATA Specification No. 2200, which is prepared by the Air Transportation Association (ATA) of America.

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- (2) This manual uses the Maintenance Task Oriented Support System (MTOSS). This system permits the use of Electronic Data Processing (EDP) of maintenance data.
- (3) This manual is written in Simplified English (SE) per the Association Europeenne des Constructeurs de Materiel Aerospatial (AECMA) Simplified English document, Change No. 5 (No. PSC85-16598), which is prepared by the AECMA.

C. Customer Support Services

(1) Customer Support representatives know about the latest maintenance procedures because they, on request, review hardware from operators and service center personnel. They are available to analyze the problem. For the necessary help and/or support, direct your requests to:

Pratt & Whitney Canada Corp. (CAGE 00198)

1000 Marie-Victorin

Longueuil, Quebec

Canada J4G 1A1

OR

Customer Help Desk (24-hour service)

US and Canada: 1-800-268-8000

International: (450) 647-8000

Fax: (450) 647-2888 Email: cfirst@pwc.ca

- D. Pratt & Whitney Component Solutions Inc.
 - (1) You can send an accessory for repair or complete overhaul to the following address:

Pratt & Whitney Component Solutions Inc.

4905 Stariha Drive

Muskegon, MI 49441

Attention: Sales Department

Tel: 1 (800) 872-1792 or 1 (231) 799-6650

Fax: 1 (231) 799-8732 E-mail: spares@pwc.ca

E. Supplementary Publications

- The publications which follow are also necessary for the correct maintenance or overhaul of the component.
 - (a) PWA Standard Practices Manual (SPM) (P/N 585005):
 - This manual contains approved and recommended standard practices and instructions frequently used for different engines made by Pratt & Whitney.

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INTRODUCTION

- (b) P&WC Consumable Materials List (CML) (P/N 3043340):
 - 1 This list contains data about consumable materials used in this manual. All consumable materials have a different number. In this CMM, where there is a reference to a consumable material, the material name is followed by the item number in parentheses (eg: engine oil (PWC03-001)). Unless differently specified, you can use the alternative material given in the PWC CML which is shown by letter suffix (eg: PWC03-001A). If you must use the basic item number material, an asterisk is shown at the end of the number (eg: PWC03-001*).
 - 2 For more data on that consumable material, refer to the PWC item number in the P&WC CML. The PWC item numbers are internal to P&WC and provide a cross-reference between the CML and other P&WC publications. When buying products, customers should use the trade names, the specifications and the standards of the consumable materials.
- F. Function of the Component Maintenance Manual
 - (1) There are two types of CMMs; the full CMM and the abbreviated CMM (ACMM). These manuals contain the maintenance and overhaul instructions and the illustrated parts list (if applicable) for the accessories supplied by Pratt & Whitney Canada.
 - (a) The full CMM is necessary when you do a complete overhaul of an accessory. If you can take apart the accessory, then the full CMM must include an illustrated parts list. If you cannot take apart the accessory, then the CMM does not include an illustrated parts list.
 - (b) The abbreviated CMM (ACMM) is necessary only when you do a check or a test on an accessory that you cannot take apart.

G. Safety

(1) This manual contains procedures that use chemicals, solvents, paints and other available material. You must read the Material Safety Data Sheets (MSDS) (Occupational Safety and Health Act (OSHA) Form 20 or equivalent) before you use these materials. Some materials can be dangerous. The data sheets are available from the manufacturers or the suppliers of these materials.

H. Abbreviations

- (1) In this manual, a minimum number of abbreviations are used. Abbreviations are used if they are in general use or if they help to make the best use of the available area on a page. Refer to Table 2 for the list of general abbreviations, that are specific to P&WC and used in this manual. Refer to the Specifications which follow for additional abbreviations not found in the tables.
 - (a) Specifications
 - Abbreviations, ASME Y14.38a-2002

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INTRODUCTION

TABLE 2, List of General Abbreviations (Task 73-10-05-99F-801)

ABBREVIATION	NAME
ACMM	Abbreviated Component Maintenance Manual
AMS	Aerospace Material Specification
ATA	Air Transport Association
CL	Class
CMM	Component Maintenance Manual
DEL	Delta
FIR	Full Indicator Reading
Imp.	Imperial
IND	Indicator
IPC	Illustrated Parts Catalog
IPL	Illustrated Parts List
MTOSS	Maintenance Task Oriented Support System
LOP	Low Oil-pressure
LP	Low-pressure
LRU	Line Replaceable Unit
Man.	Manual
min.	Minute(s)
N/A	Not Applicable
P&WC	Pratt and Whitney Canada
P/N	Part Number
Pd	Pressure Differential
pph	Pounds Per Hour
PWA	Pratt and Whitney Aircraft
PWC	Pratt and Whitney Canada Tooling/ Consumables Prefix
SPM	Standard Practices Manual
SPOP	Service Process Operation Procedure
TBA	To Be Advised
TBD	To Be Determined
VAC	Volt(s), Alternating Current
VDC	Volt(s), Direct Current
W	Watt(s)

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INTRODUCTION

I. Weights and Measures

(1) The weight and measure units are given in Imperial and SI (System International metric system) units. The Imperial units are given first, followed by the equivalent SI units in parentheses. If there is a difference between the value of an Imperial unit and that value converted to an SI unit, always use the Imperial value. Refer to Table 3 for the list of general abbreviations or symbols, which are applicable for weights and measures.

TABLE 3, Abbreviations and Symbols for Weights and Measures (Task 73-10-05-99F-801)

	IMPERIAL UNITS		SI UNITS
SYMBOL	NAME	SYMBOL	NAME
°F	Degree Fahrenheit	°C	Degree Celsius
Ft	Foot	m	Meter
Gal	Gallon	1	Liter
hr	hour	g.mm	Gram-Millimeter
in.	Inch	cm	Centimeter
		mm	Millimeter
in^2	Square Inch	cm ²	Square Centimeter
		mm ²	Square Millimeter
in^3	Cubic Inch	cm ³	Cubic Centimeter
		mm^3	Cubic Millimeter
in. H2O	Inches of water	Pa	Pascal
in. Hg	Inches of Mercury	Pa	Pascal
lb.	Pound	kg	Kilogram
lb/ft ²	Pound/Square Foot	Pa	Pascal
lb/gal	Pound/Gallon	kg/m³	Kilogram/Cubic Meter
lb/in² (psia)	Pound/Square Inch	kPa	KiloPascal
OZ	Ounce (Fluid)	ml	Milliliter
OZ	Ounce (Weight)	g	Gram
oz/gal	Ounce/Gallon	kg/m³	Kilogram/Cubic Meter
psid	Pound/square inch Delta	kPad	KiloPascal Delta
psig	Pound/square inch Gage	kPag	KiloPascal Gage
pph	Pound/hour	kg/min.	Kilogram/minute
ppm	Parts per million	μg/1	Microgram per unit

73-10-05 INTRODUCTION

HOW TO USE

Task 73-10-05-99G-801

How-to-Use

A. General

(1) This section explains the organization of the manual and also gives some guidelines to help the user to find data. This manual gives specific data for the component only.

B. Manual Numbering System

- (1) The manual numbering system uses the Air Transport Association (ATA) generic structure. The structure follows an industry-wide set of standards described in the ATA 2200 specifications.
 - (a) The first three paired elements correspond to the ATA, Chapter, Section and Subject and uniquely identify hardware components. The first two digits refer to the chapter and deal with different systems. The next paired of digits refer to a section within the chapter and the last two digits refer to a subject within the section to separate components. The remaining elements refer to maintenance tasks or subtasks. Table 1 that follows shows the generic structure of the numbering system:

TABLE 1, Numbering System (Task 73-10-05-99G-801)

Description	Assigned by ATA	Assig	ned by Manufacturer
Chapter (First Element)	73		
Section (Second Element)	1	0	
Subject (Third Element)		05	
Function (Fourth Element)			870
Sequence (Fifth Element)			801
	Hardware Identific	ation	Task Identification

C. Page Footer (Refer to Figure 1)

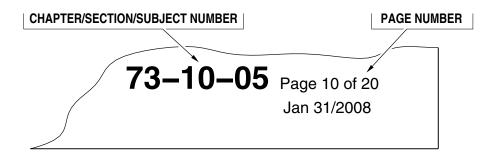
- (1) To the left of the page, the footer contains the component configuration effectivity letter.
- (2) To the right of the page, the footer contains the Chapter/Section/Subject number, function title, page block number and page revision date.

D. Component Effectivity

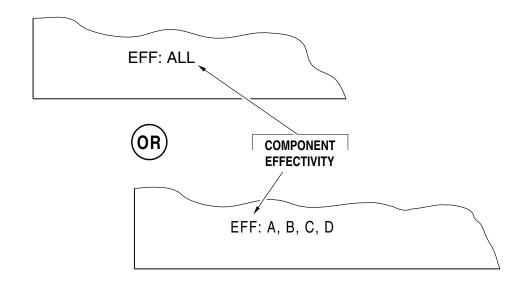
- (1) The component effectivity for this manual is determined by the part number and given in the Introduction section.
 - (a) Manual sections applicable to all of the components given in the Introduction section have an effectivity in the page footer that reads:

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HOW TO USE



TYPICAL PAGE FOOTER (RIGHT-HAND SIDE)



TYPICAL PAGE FOOTER (LEFT-HAND SIDE)

C243824

Page Footer Figure 1

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EFF: ALL

(b) Manual sections applicable to specific component part numbers, are identified with an effectivity letter in the page footer as follows:

EFF: A: for a single configuration.

EFF: A, B, C: for multiple configuration.

E. Pageblock Titles and Numbers

- (1) The separation of data in this manual is identified by a pageblock title and a pageblock number. These identifiers are located at the lower right area of each page. Pageblock titles are also printed in the heading on each page. Most functional sections are also divided (Check-01, Check-02, etc.) for specific tasks in a pageblock.
- (2) The function titles and the related pageblock numbers are divided as follows:

TABLE 2, Pageblock Titles and Numbers (Task 73-10-05-99G-801)

Pageblock Numbers
001 to 999
1001 to 1999
2001 to 2999
3001 to 3999
4001 to 4999
5001 to 5999
6001 to 6999
7001 to 7999
8001 to 8999
9001 to 9999
10001 to 10999
11001 to 11999
12001 to 12999
13001 to 13999
14001 to 14999
15001 to 15999
16001 to 16999
17001 to 17999

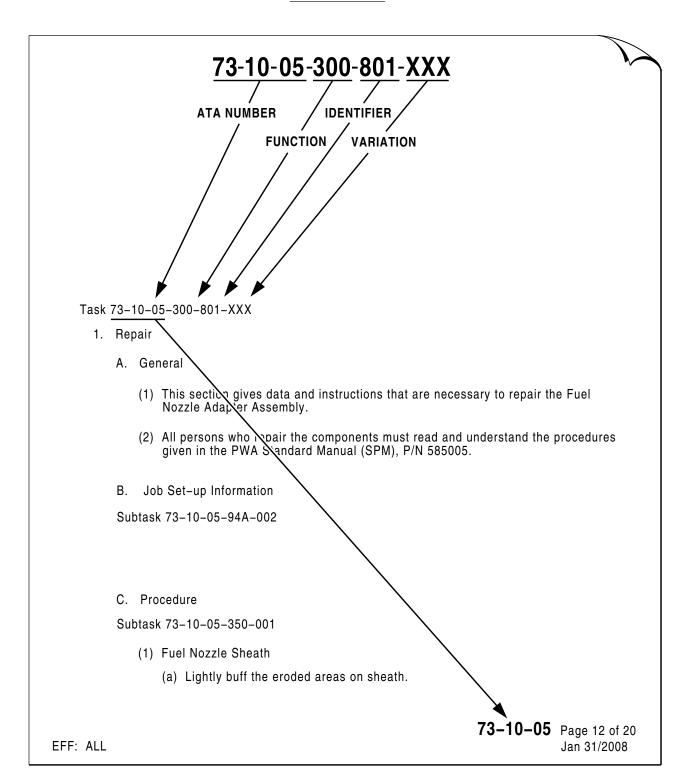
F. Task Numbering System (Refer to Figure 2)

(1) The structure of this manual is controlled by the ATA specifications No. 2200. It uses the Maintenance Task Oriented Support System (MTOSS) which has task and subtask numbers for text, illustrations and tables. This system permits this manual to adapt to different technical publication systems that you use.

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HOW TO USE



C130849

Task/Subtask Numbering System Figure 2

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HOW TO USE

- (2) The task numbering system permits selection of data or cross-references because each task or subtask number is unique. The task/subtask numbers give an accurate point of reference that will not change with revisions to pages or paragraph numbers.
- (3) Each operation specified in this manual has a task number which is controlled by ATA Specification 2200 numbering system and the function of the data. The task number contains five (or six) elements. The first three of these elements are the ATA number and they give the Chapter/Section/Subject number.
- (4) The fourth element identifies the function (inspection, repair, test, etc.). The fifth element gives a different identification for each task/subtask in the function. Task identifiers, given in sequence, start at 801 and subtask identifiers start at 001. A sixth element is given, if necessary, to identify the differences in configuration or the differences of method from the initial task (refer to Table 1).
- (5) Subtask numbers are also given to steps in the task. This permits identification of changes in functions, work stations or area of the part in a task. For example, a repair can include machining, brazing, surface treatment, etc..., procedures. Subtask numbers are given, as necessary, to each text unit to show the function change.

73-10-05

DESCRIPTION AND OPERATION

Task 73-10-05-870-801

1. Description and Operation

Subtask 73-10-05-870-001-A00

- A. Description Duplex Fuel Nozzle (Refer to Figure 1)
 - (1) Each nozzle assembly consists of a housing assembly (10), locking washer (60), stem support, sheath (100), spray tip assembly (20), strainer body and strainer, and a valve assembly. The housing assembly supplies primary and secondary fuel to its own spray tip via fuel passages through the valve assembly and passages within the stem support, which supports the spray tip in the proper position. Primary fuel is metered through a distributor and orifice cone and the secondary is metered through tangential holes in the swirler.
 - (2) A sheath surrounds the stem support and spray tip and protects the inner parts from excessive heating during engine operation. The sheath, held in place with a retaining ring (80), also provides the proper mechanical "fit up" with the combustion chamber.
 - (3) The spray tip assembly is threaded onto the stem support (10) and is locked into position with a locking washer. The stem support is brazed into the housing and the valve assembly is locked into position with a locking cap that is welded to the housing.
 - (4) The fuel strainer purpose is to prevent contaminants from entering the valve assembly and then the primary and secondary portions of the spray tip assembly.

Subtask 73-10-05-870-002-A00

B. Operation

- (1) Fuel is supplied under pressure to the fuel inlet of the housing assembly and is routed through a strainer and internal passages to the valve assembly. From the valve assembly the primary fuel is directed to the passage that connects to the distributor and the orifice cone and exits out the orifice cone as a conical spray.
- (2) At a certain pressure point the piston and valve crack open to allow fuel to flow to the secondary internal passages and directly to the tip assembly. The fuel continues through the spin passages of the fuel swirler where it emerges as a conical sheet and is hit with swirling high velocity air which shreds the fuel sheet and breaks it up into droplets.

Subtask 73-10-05-870-001-B00

- C. Description Simplex Fuel Nozzle (Refer to Figure 2)
 - (1) Each nozzle assembly consists of a fuel nozzle and stem, (10), locking washer (50), spray tip assembly (20), strainer, and a valve assembly. The housing assembly supplies fuel to its' own spray tip via fuel passages through the valve assembly and passages within the stem support, which supports the spray tip in the proper position. Fuel is metered through a fuel swirler and exits through the orifice of the swirler.

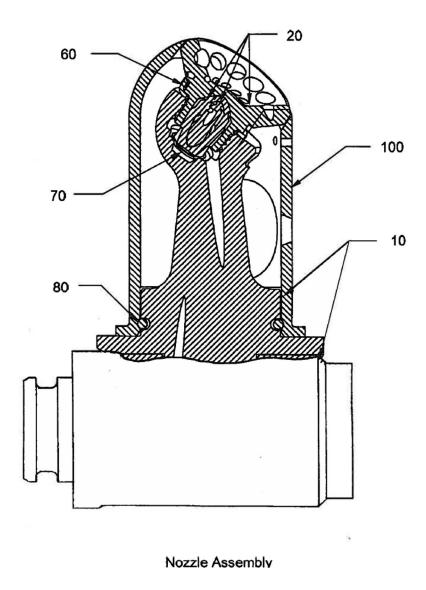
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EFF: ALL

PRATT & WHITNEY CANADA

COMPONENT MAINTENANCE MANUAL (PART NO. 3053386)

DESCRIPTION AND OPERATION



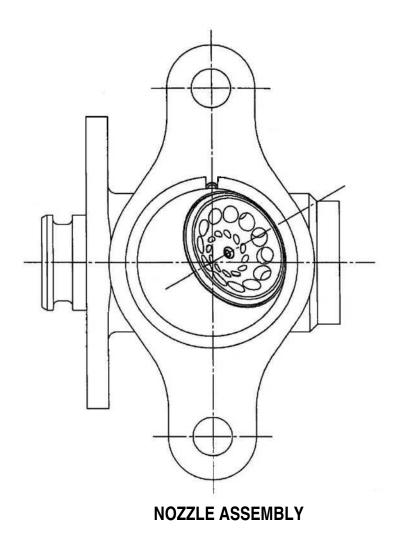
C214261

Description and Operation - Duplex Fuel Nozzle Figure 1 (Sheet 1 of 2)

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Page 2

DESCRIPTION AND OPERATION



ICN-00198-G000009757-001-01

Description and Operation - Duplex Fuel Nozzle Figure 1 (Sheet 2)

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Page 3

DESCRIPTION AND OPERATION

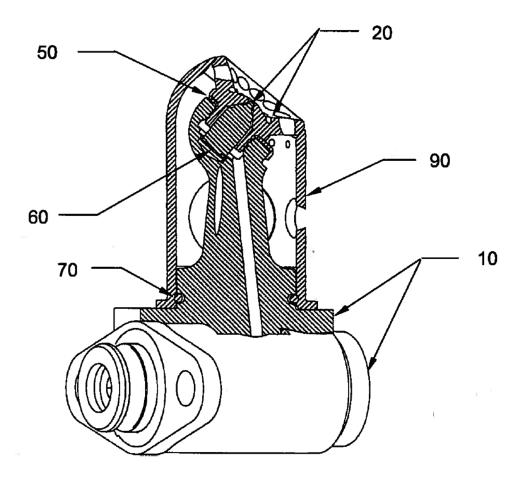
- (2) A sheath surrounds the stem support and spray tip and protects the inner parts from excessive heating during engine operation. The sheath (90), held in place with a retaining ring (70), also provides the proper mechanical "fit up" with the combustion chamber.
- (3) The spray tip assembly is threaded onto the stem support (10)and is locked into position with a locking washer. The stem support is brazed into the housing and the valve assembly is locked into position with a locking cap that is welded to the housing.
- (4) The fuel strainer purpose is to prevent contaminants from entering the valve assembly and then the spray tip assembly.

Subtask 73-10-05-870-002-B00

- D. Operation Simplex Fuel Nozzle
 - (1) At a certain pressure point the piston and valve crack open to allow fuel to flow to the internal passages and directly to the tip assembly. The fuel continues through the spin passages of the fuel swirler where it emerges as a conical sheet and is hit with swirling high velocity air which shreds the fuel sheet and breaks it up into droplets.

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DESCRIPTION AND OPERATION



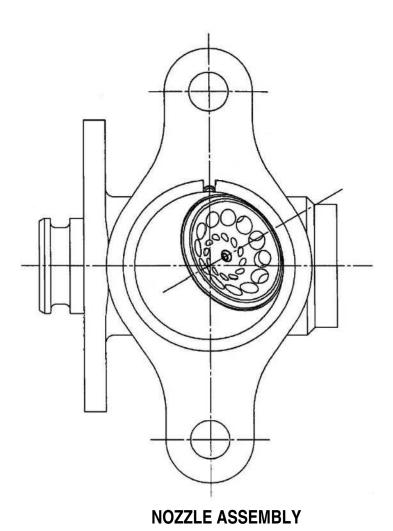
Nozzle Assembly

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Description and Operation - Simplex Fuel Nozzle Figure 2 (Sheet 1 of 2)

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DESCRIPTION AND OPERATION



ICN-00198-G000009754-001-01

Description and Operation - Simplex Fuel Nozzle Figure 2 (Sheet 2)

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TESTING AND FAULT ISOLATION

Task 73-10-05-99F-801

1. General/Introduction

A. This page block gives you the necessary data to do several tests and to isolate the faults for the Fuel Nozzle Adapter Assembly. Refer to Table 1001, Related Tasks.

TABLE 1001, Related Tasks (Task 73-10-05-99F-801)

Task Title(s)	Task(s)
Functional Test	Task 73-10-05-700-801

B. Job Set-Up Information

Subtask 73-10-05-94A-001

(1) Consumables

TABLE 1002, Consumables (Task 73-10-05-99F-801)

	Item Number	Material	Source (CML Code)
	PWC03-002	Fluid, Calibrating MIL-PRF-7024 Type II	Local Purchase (A0001)
NOTE: You can use equivalent substitutes for the consumables that show in this table.			

Subtask 73-10-05-94C-001

(2) Fixtures/Test Equipment

TABLE 1003, Fixtures (Task 73-10-05-99F-801)

Part Number	Name	Source (CAGE Code)
Not Applicable	Base, Fuel Nozzle Flow Test	CEL Aerospace Test Equipment Ltd. (3AS79)
PWC71086	Flow Test Fixture, Fuel Nozzle	Pratt & Whitney Canada Corp. (00198)
PWC72324	Fixture, Pressure Leak (Fuel Nozzles)	
PWC72520	Adapter, Fuel Nozzle Flow Test	
NOTE: You can use equivalent substitutes for the fixtures that show in this table.		

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TESTING AND FAULT ISOLATION

TABLE 1004, Test Equipment (Task 73-10-05-99F-801)

Part Number	Name	Source (CAGE Code)
CEL 30119-1-67C	Master Orifice Set	CEL Aerospace Test
CEL 30119-2	Optical Telescope	Equipment Ltd. (3AS79)
CEL 50200-2	Test Stand	
NOTE: You can use equivalent substitutes for the test equipment that show in this table.		

TABLE 1005, Slave Parts (Task 73-10-05-99F-801)

Item Number	Material	Source (CAGE Code)
AS3209-13	Packing	Pratt & Whitney Canada Corp. (00198)

Subtask 73-10-05-99E-001

(3) References

TABLE 1006, References (Task 73-10-05-99F-801)

Reference	Manual Part Number
PWC Consumable Materials List (CML)	3043340

C. Job Set-Up

Subtask 73-10-05-490-001

(1) Set-Up the Test Stand (Refer to Figure 1001)

CAUTION: MAKE SURE YOU KEEP THE TEMPERATURE OF THE

CALIBRATION FLUID (PWC03-002) AT THE REQUIRED TEMPERATURE. IF YOU DO NOT OBEY, YOU CAN GET RESULTS

THAT ARE NOT ACCURATE.

(a) Set the temperature of the calibration fluid (PWC03-002) at 25.6 to 27.8 °C (78-82 °F) and maintain it.

Subtask 73-10-05-830-001

- (2) Rig the Test Stand
 - (a) Rig the test stand. For the intervals and the required maintenance procedures, refer to Table 1007.

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TESTING AND FAULT ISOLATION

TABLE 1007, Intervals and Required Maintenance Procedures for the Test Stand (Task 73-10-05-99F-801)

Interval	Required Maintenance Procedure
One time a day	Calculate the Correction Factor (CF) for the Fluid Flow Rate
One time a week	Clean the Master Orifice Set
	Do a Specific Gravity Check of the Calibration Fluid
One time every six months	Do a Check of the Accuracy of the Master Orifice Set
One time a year	Calibrate the Master Orifice Set

- (b) Calculate the Correction Factor (CF) for the Fluid Flow Rate as follows:
 - For each master orifice that fits in the flowmeter range, use the master orifice set (CEL 30119-1-67C) and do a flow check to get the correction factor (CF) as follows:
 - Connect the master orifice (a part of the master orifice set (CEL 30119-1-67C)) to the outlet of the fluid hose.
 - Make sure the temperature of the calibrating fluid is 25.6 to 27.8 °C (78-82 °F). Apply 100 Psig (690 kPag) to the outlet of the fluid hose.
 - Measure the fluid flow rate and make a record. For example, the fluid flow rate is 7.89 pph (3.57 kg/h).
 - d Look for the fluid flow rate that is identified on the master orifice: for example, 7.84 pph (3.55 kg/h).
 - To calculate the correction factor (CF), divide the value that shows on the master orifice by your fluid flow rate. Make a record of the correction factor (CF) for the day. For example :

CF = Master Orifice Value / Fluid Flow Rate

CF = 7.84 / 7.89

CF = 0.994

- Make sure that the correction factor (CF) is within 3% of the fluid flow rate of the Master Orifice (that is, the CF has a value that is more than 0.970). If the correction factor (CF) is more than 3% of the fluid flow rate of the Master Orifice (that is, if the CF has a value that is less than 0.970), then isolate the faults in the test stand.
- (c) Clean the Master Orifice Set
 - 1 One time a week, use a mild soap solution and clean the master orifice set (CEL 30119-1-67C).

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TESTING AND FAULT ISOLATION

(d) Also, do a Specific Gravity Check of the calibration fluid

CAUTION: MAKE SURE THAT THE CALIBRATION FLUID (PWC03-002) AGREES WITH THE SPECIFICATIONS OF THE MANUFACTURER.

- One time a week, do a check of the specific gravity of the calibration fluid (PWC03-002). Make sure that the specific gravity of the calibration fluid (PWC03-002) agrees with the specifications of the manufacturer.
- When the calibration fluid (PWC03-002) does not agree with the specifications of the manufacturer, then change the calibration fluid (PWC03-002).
- (e) Do a Check of the Accuracy of the Master Orifice Set
 - 1 One time every six months, do a flow check to make sure of the accuracy of the master orifice set (CEL 30119-1-67C).
- (f) Calibrate the Master Orifice Set

CAUTION: ONE TIME A YEAR, CALIBRATE THE MASTER ORIFICE SET TO A NATIONAL STANDARD. THIS MAKES SURE THAT YOU KEEP THE ACCURACY OF THE MASTER ORIFICE SET.

One time a year, calibrate the master orifice set (CEL 30119-1-67C). Make sure that you keep the accuracy of the master orifice set (CEL 30119-1-67C) to a national standard.

Subtask 73-10-05-490-002

(3) Set-Up the Flow Test Fixture (Refer to Figure 1001)

CAUTION: WHERE POSSIBLE, USE SURGICAL GLOVES, NON-LATEX GLOVES, OR CLEAN LINT-FREE COTTON GLOVES WHEN YOU TOUCH THE FUEL NOZZLE ADAPTER ASSEMBLY.

CAUTION: MAKE SURE THAT YOU INSTALL THE FUEL STRAINERS IN THE FUEL NOZZLE ADAPTER ASSEMBLY BEFORE YOU DO A TEST.

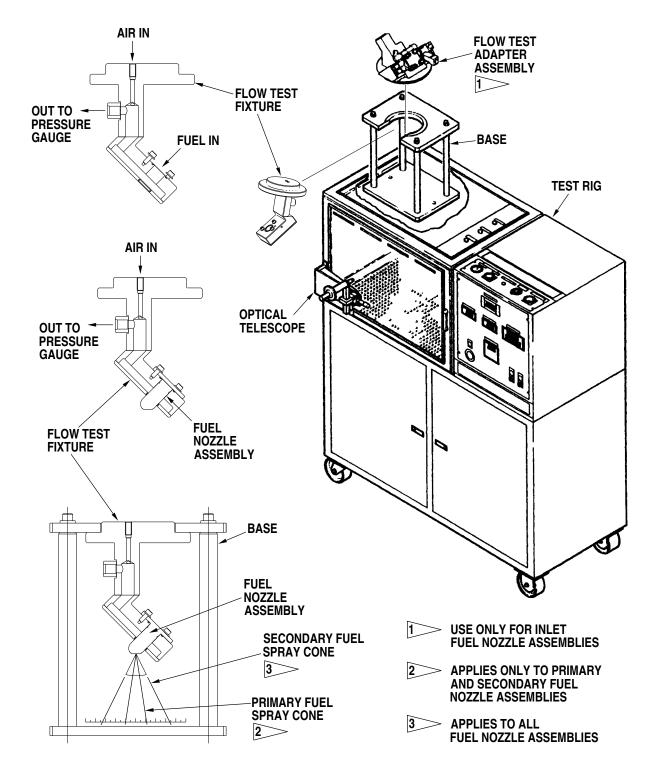
CAUTION: AFTER YOU ADJUST THE PRESSURES IN THE TEST STAND, WAIT A MINIMUM OF 30 SECONDS FOR THE PRESSURE TO BECOME STABLE. THEN MAKE ANY NECESSARY RECORD OF THE INDICATIONS.

(a) Using the correct flow test fixture, install the part into the flow test fixture. Then, install the flow test fixture into the flow test adapter assembly.

<u>NOTE</u>: The flow test adapter assembly is a part of the base.

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TESTING AND FAULT ISOLATION

TESTING AND FAULT ISOLATION



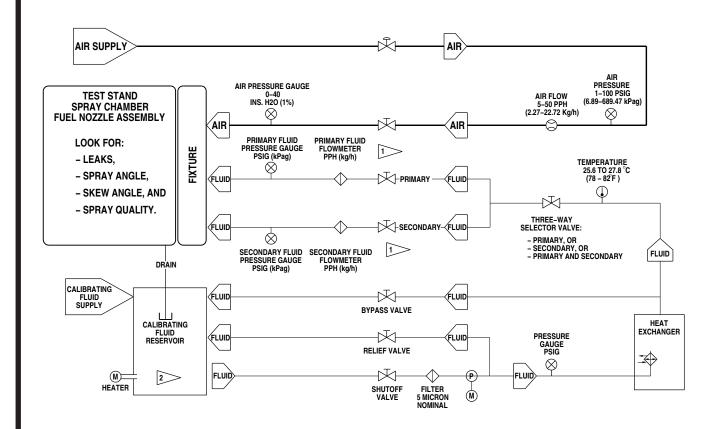
C176292

Test Stand (Typical Example) - Component Schematic (Typical Example)
Figure 1001 (Sheet 1 of 2)
(Task 73-10-05-99F-801)

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TESTING AND FAULT ISOLATION



NOTES:

NOTE 1: ALL GAUGES ARE INSTALLED ON A CONTROL PANEL. FOR ACCELERATED FLUCTUATIONS, ANALOG GAUGES ARE BETTER. FOR MORE STABLE FLUCTUATIONS, DIGITAL GAUGES ARE BETTER.

NOTE 2: FOR ALL DIGITAL GAUGES, MAKE SURE THAT THE ACCURACY OF THE PRESSURE TRANSDUCER, INSTALLED ON EACH DIGITAL GAUGE, IS ACCURATE TO WITHIN \pm 0.1% OF THE FULL SCALE.

MAKE SURE THAT THE ACCURACY OF THE FLOWMETER IS WITHIN +/- 0.25 OF THE READING (VOLUMETRIC).

MAINTAIN THE TEMPERATURE OF THE CALIBRATING FLUID IN THE CALIBRATING FLUID RESERVOIR AT 25.6 TO 27.8 °C (78 – 82° F).

C176293

Test Stand (Typical Example) - Flow Schematic (Typical Example)
Figure 1001 (Sheet 2)
(Task 73-10-05-99F-801)

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TESTING AND FAULT ISOLATION

Task 73-10-05-700-801

2. Functional Test

A. General

WARNING: WEAR GOGGLES AND PROTECTIVE CLOTHING WHEN YOU

OPERATE THE FUEL NOZZLE TEST STAND. CALIBRATING FLUIDS

CAN CAUSE SKIN INFLAMMATION.

CAUTION: WHERE POSSIBLE, USE SURGICAL GLOVES, NON-LATEX GLOVES,

OR CLEAN LINT-FREE COTTON GLOVES WHEN YOU TOUCH THE FUEL NOZZLE ADAPTER ASSEMBLY. YOUR FINGERPRINTS ON THE ORIFICE OF THE FUEL NOZZLE ADAPTER ASSEMBLY CAN AFFECT THE

QUALITY OF THE SPRAY.

(1) This task gives you the necessary data to do functional tests on the Fuel Nozzle Adapter Assembly.

NOTE: Testing of the fuel nozzle can be performed with or without the sheath.

CAUTION: MAKE SURE THAT YOU INSTALL THE FUEL STRAINERS IN THE FUEL

NOZZLE ADAPTER ASSEMBLY BEFORE YOU DO A TEST. IF YOU DO NOT, YOU CAN CAUSE UNWANTED MATERIAL TO GO INTO THE FUEL

NOZZLE ADAPTER ASSEMBLY.

(2) All persons who test the engine components must read and understand the procedures given in the PWA Standard Practices Manual (SPM), P/N 585005.

- (3) In the text, the consumables include a PWC item number: for example, PWC03-002. For more data, refer to the PWC Consumable Materials List (CML), P/N 3043340.
- (4) Refer to Table 1008, Related Subtasks, for the subtask you need.

TABLE 1008, Related Subtasks (Task 73-10-05-700-801)

Subtask Title(s)	Subtask(s)	
Flow Test	Subtask 73-10-05-730-001	
Hysteresis Test	Subtask 73-10-05-730-002	
Pressure Test	Subtask 73-10-05-790-001	

B. Procedure

Subtask 73-10-05-730-001

- (1) Flow Test
 - (a) Install the part into a flow test fixture (PWC71086).
 - (b) Install the flow test fixture into the base using an adapter (PWC72520).

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TESTING AND FAULT ISOLATION

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TESTING AND FAULT ISOLATION

- (c) Set and keep the temperature of the calibrating fluid (PWC03-002) at 25.6 to 27.8 °C (78-82 °F).
- (d) Apply the calibrating fluid (PWC03-002) at the pressures shown in the tables (refer to Tables 1009 through 1013). If the flow rate is not within the limits of the tables, go to the Cleaning, Inspection and Repair sections of this CMM, as applicable.
- (e) Check the spray quality for streaks, voids, spitting, drooling or skewness. No more than a 20% low contrast streak is permitted. If you find more then 20%, go to the Cleaning, Inspection and Repair sections of this CMM as applicable.

TABLE 1009, Flow Test Requirements (Config A01) (P/N 3058617-01) (Task 73-10-05-700-801)

FLOW TEST REQUIREMENTS			
Test Point	Pressure	Flow Required	Spray Angle Required
(Point 1) Fuel Flow	125 psig (862 kPag)	9.5/10.6 lb/hr (4.3/4.8 kg/hr)	Not Applicable
(Point 2) Cone Spray Angle	125 psig (862 kPag)	Not Applicable	70-85° See Note 1
(Point 3) Hysteresis up	155 psig (1068 kPag)	20.9 to 23.7 pph (9.4 to 10.8 kg/hr)	Not Applicable
(Point 4) Fuel Flow	300 psig (2068 kPag)	45.3/50.1 lb/hr (20.5/22.7 kg/hr)	Record
(Point 5) Hysteresis down	155 psig (1068 kPag)	See Note 2	Not Applicable
(Point 6) Pressure/Leakage Test	900 psig (6205 kPag)	No external leakage is permitted	

NOTE:

- 1. Check spray quality no high contrast streaks, voids, spitting, drooling or more than 20% low contrast streaks are allowed. Maximum skewness -5°.
- 2. A maximum delta between the increasing and decreasing hysteresis test point shall be +3 /-1 pph (equal to the flow at Test Point 5minus the flow at Test Point 2).
- 3. If the test is performed with a sheath and leaking is suspected, remove the sheath (100) and perform Test Point 6 again (refer to Disassembly).

TABLE 1010, Flow Test Requirements (Config B01) (P/N 3059126-01) (Task 73-10-05-700-801)

FLOW TEST REQUIREMENTS			
Test Point Pressure Flow Required Spray Angle Required			Spray Angle Required
(Point 1) Fuel Flow	145 psig (1000 kPag)	0/1 lb/hr	Not Applicable

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TABLE 1010, Flow Test Requirements (Config B01) (P/N 3059126-01) (Cont'd) (Task 73-10-05-700-801)

FLOW TEST REQUIREMENTS			
(Point 2) Fuel Flow & Hysteresis up	180 psig (1241 kPag)	13.8/21.7 lb/hr See Note 2	Not Applicable
(Point 3) Fuel Flow & Cone Spray Angle	300 psig (2068 kPag)	45.7/50.9 lb/hr (20.77/23.13 kg/hr)	Record See Note 1
(Point 4) Hysteresis down	180 psig (1241 kPag)	See Note 2	Not Applicable
(Point 5) Pressure/Leakage Test	900 psig (6205 kPag)	No external leakage is permitted	

NOTE:

- 1. Check spray quality no high contrast streaks, voids, spitting, drooling or more than 20% low contrast streaks are allowed. Maximum skewness -5°.
- 2. A maximum delta between the increasing and decreasing hysteresis test point shall be +3 /-1 pph (equal to the flow at Test Point 4 minus the flow at Test Point 2).
- 3. If the test is performed with a sheath and leaking is suspected, remove the sheath (100) and perform Test Point 5 again (refer to Disassembly).

TABLE 1011, Flow Test Requirements (Config A02) (P/N 3073976-01) (Task 73-10-05-700-801)

FLOW TEST REQUIREMENTS			
Test Point	Pressure	Flow Required	Spray Angle Required
(Point 1) Fuel Flow, Cone Spray Angle & Hysteresis up	145 psig (1000 kPag)	10.2/12.4 lb/hr See Note 2	70-85° See Note 1
(Point 2) Fuel Flow	180 psig (1241 kPag)	19.8/25.9 lb/hr	Not Applicable
(Point 3) Fuel Flow	300 psig (2068 kPag)	42.4/47.9 lb/hr (19.27/21.7 kg/hr)	Record
(Point 4) Hysteresis down	145 psig (1000 kPag)	See Note 2	Not Applicable
(Point 5) Pressure/Leakage Test	900 psig (6205 kPag)	No external leakage is permitted	

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TESTING AND FAULT ISOLATION

TABLE 1011, Flow Test Requirements (Config A02) (P/N 3073976-01) (Cont'd) (Task 73-10-05-700-801)

FLOW TEST REQUIREMENTS

NOTE:

- 1. Check spray quality no high contrast streaks, voids, spitting, drooling or more than 20% low contrast streaks are allowed. Maximum skewness -5°.
- 2. A maximum delta between the increasing and decreasing hysteresis test point shall be +3 /-1 pph (equal to the flow at Test Point 4 minus the flow at Test Point 1).
- 3. If the test is performed with a sheath and leaking is suspected, remove the sheath (100) and perform Test Point 5 again (refer to Disassembly).

TABLE 1012, Flow Test Requirements (Config B02) (P/N 3073974-01) (Task 73-10-05-700-801)

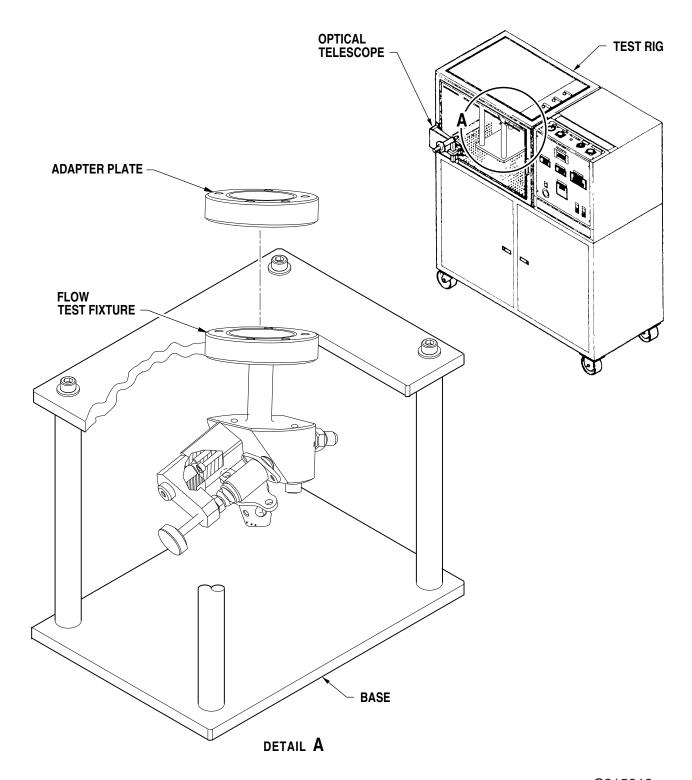
FLOW TEST REQUIREMENTS			
Test Point	Pressure	Flow Required	Spray Angle Required
(Point 1) Fuel Flow	125 psig (861 kPag)	0/1 lb/hr	Not Applicable
(Point 2) Fuel Flow & Hysteresis up	180 psig (1241 kPag)	19.5/24.1 lb/hr See Note 2	Not Applicable
(Point 3) Cone Spray Angle & Fuel Flow	300 psig (2068 kPag)	42.1/47.9 lb/hr (19.1/21.7 kg/hr)	Record See Note 1
(Point 4) Hysteresis down	180 psig (1241 kPag)	See Note 2	Not Applicable
(Point 5 Pressure/Leakage Test	900 psig (6205 kPag)	No external leakage is permitted	

NOTE:

- 1. Check spray quality no high contrast streaks, voids, spitting, drooling or more than 20% low contrast streaks are allowed. Maximum skewness -5°.
- 2. A maximum delta between the increasing and decreasing hysteresis test point shall be +3 /-1 pph (equal to the flow at Test Point 4 minus the flow at Test Point 2).
- 3. If the test is performed with a sheath and leaking is suspected, remove the sheath (100) and perform Test Point 5 again (refer to Disassembly).

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TESTING AND FAULT ISOLATION

TESTING AND FAULT ISOLATION



C215818

Test Stand - Set-Up - CEL Stand and PWC Tooling Figure 1002 (Task 73-10-05-700-801)

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TESTING AND FAULT ISOLATION

TABLE 1013, Flow Test Requirements (Config B03) (P/N 3058932-01) (Task 73-10-05-700-801)

FLOW TEST REQUIREMENTS			
Test Point	Pressure	Flow Required	Spray Angle Required
(Point 1) Fuel Flow	125 psig (861 kPag)	0/1 lb/hr	Not Applicable
(Point 2) Fuel Flow & Hysteresis up	155 psig (1068 kPag)	13.1/18.0 lb/hr See Note 2	Not Applicable
(Point 3) Cone Spray Angle & Fuel Flow	300 psig (2068 kPag)	42.9/47.0 lb/hr (19.5/21.3 kg/hr)	Record See Note 1
(Point 4) Hysteresis down	155 psig (1068 kPag)	See Note 2	Not Applicable
(Point 5) Pressure/Leakage Test	900 psig (6205 kPag)	No external le	eakage is permitted

NOTE:

- 1. Check spray quality no high contrast streaks, voids, spitting, drooling or more than 20% low contrast streaks are allowed. Maximum skewness -5°.
- 2. A maximum delta between the increasing and decreasing hysteresis test point shall be +3 /-1 pph (equal to the flow at Test Point 4 minus the flow at Test Point 2).
- 3. If the test is performed with a sheath and leaking is suspected, remove the sheath (100) and perform Test Point 5 again (refer to Disassembly).

Subtask 73-10-05-730-002

- (2) Hysteresis Test
 - (a) Perform the hysteresis test as per the test table for your part (refer to Tables 1009 to 1013 for the values).
 - (b) Record the results.
 - (c) If the values are not within the limits shown in the table, clean the part (refer to Cleaning).

Subtask 73-10-05-790-001

- (3) Pressure Test
 - (a) If testing is performed without the sheath, make sure the tab washer is properly bent before performing the test (refer to Assembly).
 - (b) Using a pressure leak fixture (PWC72324), do the pressure test on the part as per the test table for your part (refer to Tables 1009 to 1013 for values).
 - (c) Record the results.
 - (d) No leakage or seepage is permitted.

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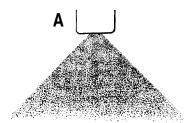
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TESTING AND FAULT ISOLATION

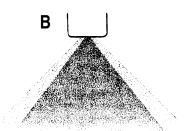
- (e) If the test is performed with the sheath on and leaking is suspected, remove the sheath (100) and perform the test again (refer to Disassembly).
- (f) If the part does not pass the test, refer to Inspection and Repair.
- (g) If the part passes the test, remove the part from the test fixture.
- (h) Use dry low-pressure filtered-shop-air at 30 psig (207 kPag) and blow the exterior of the part dry.

73-10-05
TESTING AND FAULT ISOLATION

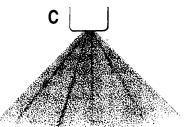
TESTING AND FAULT ISOLATION



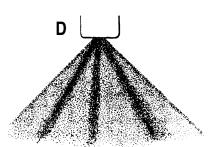
ACCEPTABLE: GOOD UNIFORM SPRAY PATTERN



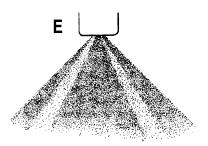
ACCEPTABLE:
TWO SPRAY CONES THAT HAVE
THE SAME CENTERLINE AND HAVE
UNIFORM SPRAY PATTERNS



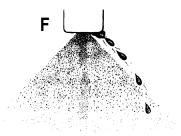
NOT ACCEPTABLE: LIGHT STREAKS IN THE SPRAY PATTERN



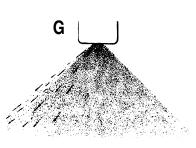
NOT ACCEPTABLE: ONE OR MORE HEAVY STREAKS IN THE SPRAY PATTERN



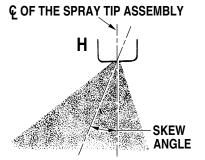
NOT ACCEPTABLE: ONE OR MORE VOIDS IN THE SPRAY PATTERN



NOT ACCEPTABLE: DROOLING ON THE OUTSIDE OF THE SPRAY PATTERN



NOT ACCEPTABLE: SPITTING IN THE SPRAY PATTERN



NOT ACCEPTABLE: SKEW ANGLE THAT IS OUT OF LIMITS

C243647

Test Stand - Spray Quality Standards Chart Figure 1003 (Task 73-10-05-700-801)

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TESTING AND FAULT ISOLATION

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SCHEMATICS AND WIRING DIAGRAMS

NOT APPLICABLE

73-10-05

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EFF: ALL SCHEMATIC AND WIRING DIAGRAMS

DISASSEMBLY

Task 73-10-05-99F-801

- 1. General / Introduction
 - A. This pageblock gives you the necessary data to disassemble the Fuel Nozzle Adapter Assembly. Refer to Table 3001, Related Tasks.

NOTE: Before proceeding with the disassembly, inspect the nozzle inlet for the presence of varnish (refer to Check).

TABLE 3001, Related Tasks (Task 73-10-05-99F-801)

Task Title(s)	Task(s)
Disassembly of the Fuel Nozzle Adapter Assembly	Task 73-10-05-060-801

73-10-05DISASSEMBLY

DISASSEMBLY

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73-10-05DISASSEMBLY

DISASSEMBLY

Task 73-10-05-060-801

2. Disassembly of the Fuel Nozzle Adapter Assembly

A. General

- (1) This task gives you the necessary data to disassemble the Fuel Nozzle Adapter assembly.
- (2) All persons who disassemble the engine components must read and understand the procedures given in the PWA Standard Practices Manual (SPM), P/N 585005.
- (3) In the text, the consumables include a PWC item number: for example, PWC03-002. For more data, refer to the PWC Consumable Materials List (CML), P/N 3043340.
- (4) Refer to Table 3002, Related Subtasks, for the subtask (s) that you need.

TABLE 3002, Related Subtasks (Task 73-10-05-060-801)

Subtask Title(s)	Subtask(s)
Disassembly of Fuel Nozzle Adapter Assembly	Subtask 73-10-05-060-001

B. Job Set-Up Information

Subtask 73-10-05-94A-002

(1) Consumables

TABLE 3003, Consumables (Task 73-10-05-060-801)

Item Number	Material	Source (CML Code)	
PWC05-078	Oil, Releasing	Local Purchase (A0001)	
NOTE: You can use equivalent substitutes for the consumables that show in this table.			

Subtask 73-10-05-94B-001

(2) Special Tools / Non Standard Tools

TABLE 3004, Special Tools / Non Standard Tools (Task 73-10-05-060-801)

Part Number	Name	Source (CAGE Code)
PWC70728	Crowfoot, Tip Removal	Pratt & Whitney Canada Corp. (00198)
PWC71082	Puller, Accessory (Fuel Nozzle)	
PWC72522	Holder, (Fuel Nozzle)	

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DISASSEMBLY

TABLE 3004, Special Tools / Non Standard Tools (Cont'd) (Task 73-10-05-060-801)

Part Number	Name	Source (CAGE Code)	
None	Blades, Metal (Quantity 2)	Local Purchase or Supply	
NOTE: You can use equivalent substitutes for the tools that show in this table.			

Subtask 73-10-05-94D-001

(3) Standard Tools

TABLE 3005, Standard Tools (Task 73-10-05-060-801)

Part Number	Name	Source (CAGE Code)
Not Applicable	Scribe, Plastic	Local Purchase
NOTE: You can use equivalent substitutes for the tools that show in this table.		

Subtask 73-10-05-99E-002

- (4) References
 - (a) Not Applicable
- C. Procedure

CAUTION:

KEEP THE PARTS OF EACH FUEL NOZZLE ADAPTER AND STEM ASSEMBLY TOGETHER IN CLEAN, INDIVIDUAL PLASTIC TRAYS. DO NOT MIX COMPONENTS FROM OTHER FUEL NOZZLE ADAPTER AND STEM ASSEMBLIES. THE TIP COMPONENTS ARE MATCHED SETS; DO NOT INTERMIX.

Subtask 73-10-05-060-001

- (1) Disassembly of Fuel Nozzle Adapter Assembly (Refer to Figure 3001)
 - NOTE: Before you try to remove the sheath, apply some releasing oil (PWC05-078) to the area around the sheath and allow the oil to penetrate the area.
 - _____
 - NOTE: You should only remove and change the strainer if you see damage and/or heavy varnish build-up.
 - NOTE: You can use 2 metal blades or a combination of puller (PWC71082) and blades to remove the sheath from the adapter body.
 - (a) For Configuration A part numbers: Remove the sheath (100) from flange and over tip assembly (20) of housing assembly (10) as follows:
 - 1 Install the puller (PWC71082) onto the fuel nozzle adapter.

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DISASSEMBLY

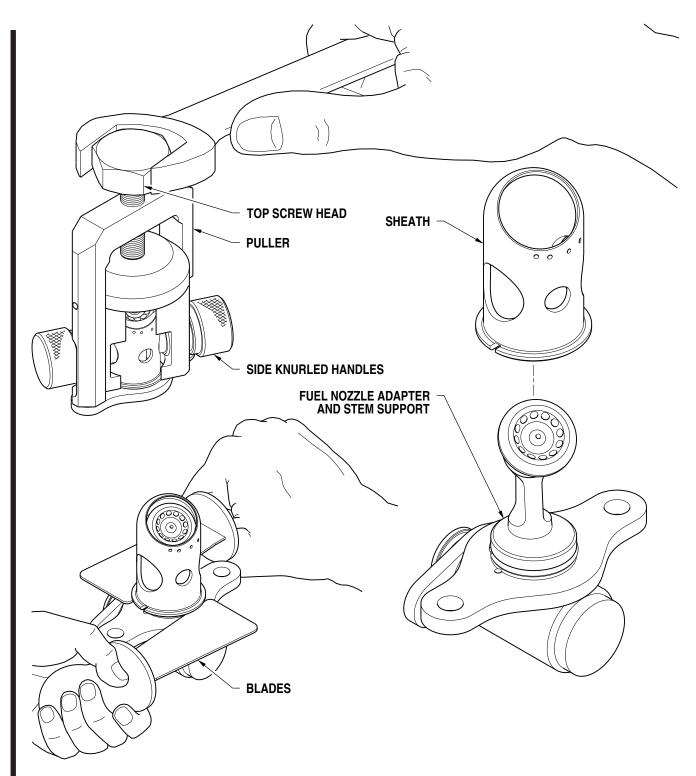
- 2 For puller (PWC71082), screw the two side knurled handles until the tool passes the holes in the sheath.
- 3 For puller (PWC71082), screw the top screw head with a wrench until the sheath moves, so you can create enough clearance between the sheath face and the adapter body to use the two metal blades.

NOTE: You can use 2 metal blades or a combination of puller (PWC71082) and blades to remove the sheath from the adapter body.

- (b) For Configuration B part numbers: Remove sheath (90) from flange and over tip assembly (20) of housing assembly (10) as follows:
 - 1 Install the puller onto the fuel nozzle adapter.
 - Screw the two side knurled handles until the tool passes the holes in the sheath.
 - Screw the top screw head with a wrench until the sheath moves, so you can create enough clearance between the sheath face and the adapter body to use the two metal blades.
 - 4 Insert the two metal blades under the sheath to carefully pry the sheath up the adapter body.
 - 5 Remove the puller (PWC71082) from the fuel nozzle adapter.
- (c) Install the fuel nozzle adapter and stem in a holder (PWC72522).
- (d) Bend the two triangle tabs of locking washer to the flat position to allow rotation of tip assembly.
- (e) Use a crowfoot (PWC70728) and remove the tip assembly. Discard the locking washer and seal.
- (f) **Configuration A:** Remove distributor (50) and orifice cone (40) from swirler (30) and place in plastic container. Make sure to keep all parts together.
- (g) **Configuration B:** Remove fuel swirler (40) from swirler (30) and place in plastic container. Make sure to keep all parts together.
- (h) This step is only required if you see damage and/or heavy varnish build-up on the strainer and inlet port (refer to Check). Using a suitable plastic tool, remove the strainer from the part.

73-10-05DISASSEMBLY

DISASSEMBLY



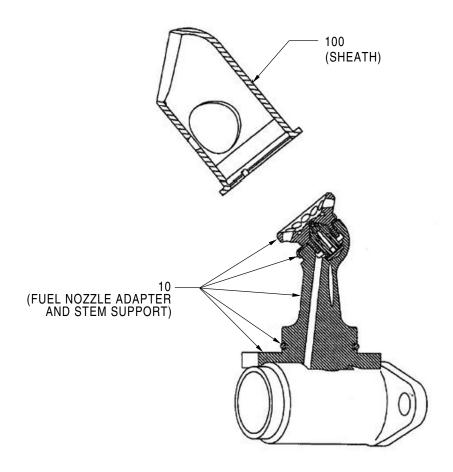
ICN-00198-G000010872-001-01

Nozzle Assembly - Removal of Sheath from Housing Assy (Typical) Figure 3001 (Sheet 1 of 9) (Task 73-10-05-060-801)

73-10-05DISASSEMBLY

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DISASSEMBLY



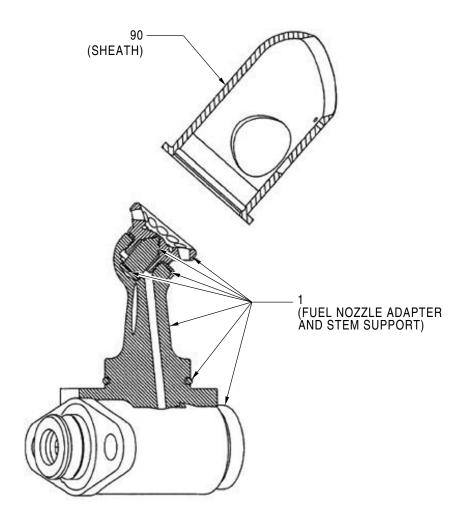
ICN-00198-G000010871-001-01

Nozzle Assembly - Removal of Sheath (Config A) Figure 3001 (Sheet 2) (Task 73-10-05-060-801)

73-10-05DISASSEMBLY

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DISASSEMBLY



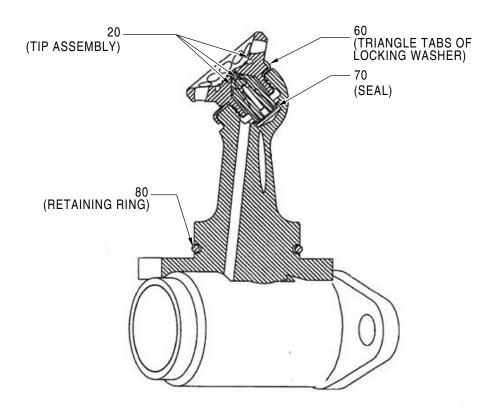
ICN-00198-G000010870-001-01

Nozzle Assembly - Removal of Sheath (Config B) Figure 3001 (Sheet 3) (Task 73-10-05-060-801)

73-10-05DISASSEMBLY

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DISASSEMBLY



BENDING OF TRIANGLE TABS OF LOCKING WASHER (60)

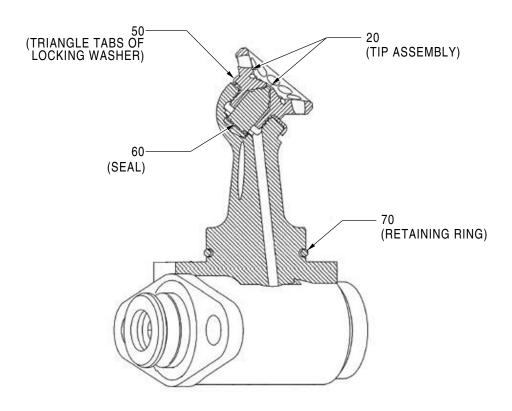
ICN-00198-G000010869-001-01

Nozzle Assembly - Bending of Triangle Tabs of Locking Washer (Config A) Figure 3001 (Sheet 4) (Task 73-10-05-060-801)

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DISASSEMBLY



BENDING OF TRIANGLE TABS OF LOCKING WASHER (50)

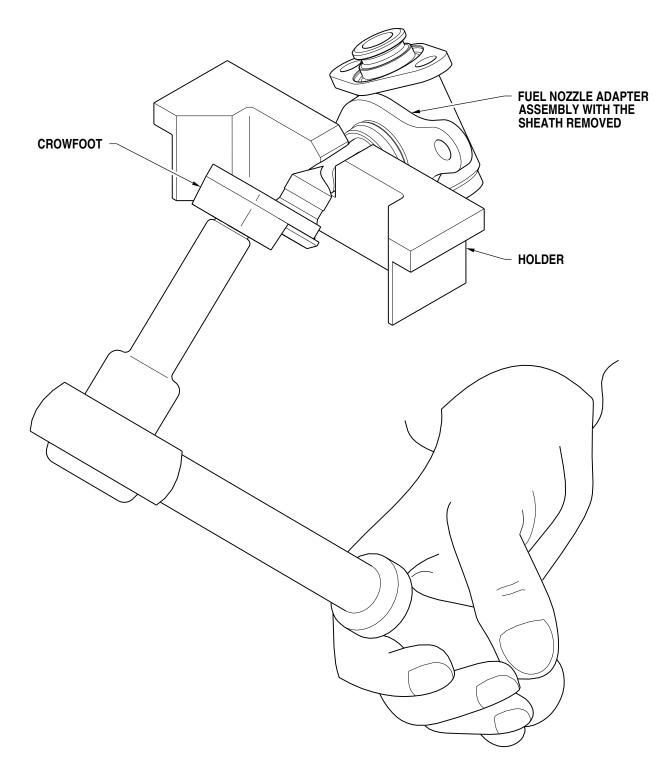
ICN-00198-G000010434-001-01

Nozzle Assembly - Bending of Triangle Tabs of Locking Washer (Config B) Figure 3001 (Sheet 5) (Task 73-10-05-060-801)

> 73-10-05 DISASSEMBLY

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DISASSEMBLY



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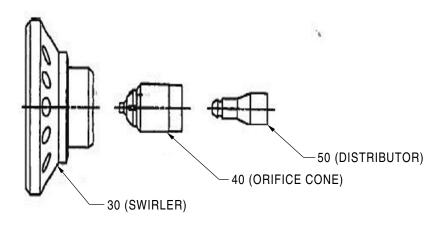
Nozzle Assembly - Tip Assy Removal (Typical) Figure 3001 (Sheet 6) (Task 73-10-05-060-801)

73-10-05DISASSEMBLY

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DISASSEMBLY

BOTH RESERVE



ICN-00198-G000010867-001-01

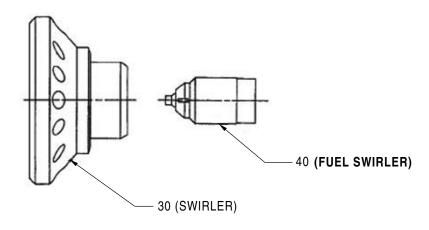
Nozzle Assembly - Tip Assembly (Config A) Figure 3001 (Sheet 7) (Task 73-10-05-060-801)

73-10-05DISASSEMBLY

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TIP ASSEMBLY

DISASSEMBLY



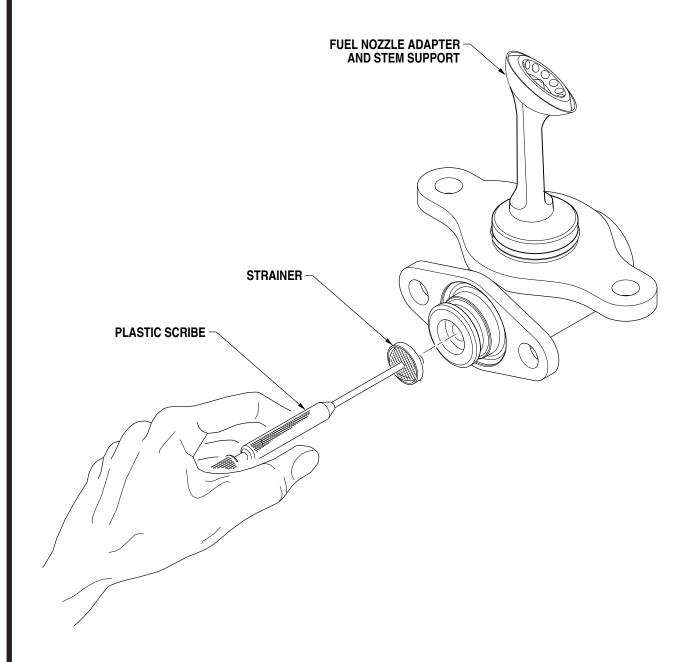
ICN-00198-G000010866-001-01

Nozzle Assembly - Tip Assembly (Config B) Figure 3001 (Sheet 8) (Task 73-10-05-060-801)

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DISASSEMBLY



ICN-00198-G000010878-001-01

Nozzle Assembly - Removal of Strainer (Typical) Figure 3001 (Sheet 9) (Task 73-10-05-060-801)

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CLEANING

Task 73-10-05-99F-801

- 1. General / Introduction
 - A. This pageblock gives you the necessary data to clean the Fuel Manifold Adapter assembly. Refer to Table 4001, Related Tasks.

TABLE 4001, Related Tasks (Task 73-10-05-99F-801)

Task Title(s)	Task(s)
Cleaning	Task 73-10-05-140-801

CLEANING

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CLEANING

Task 73-10-05-140-801

2. Cleaning

A. General

- (1) This section gives data and instructions that are necessary to clean the Fuel Nozzle Adapter assembly.
- (2) All persons who clean the engine components must read and understand the procedures given in the PWA Standard Practices Manual (SPM), P/N 585005. Refer to the SPM for SPOP's.
- (3) In the text, the consumables include a PWC item number: for example, PWC03-002. For more data, refer to the PWC Consumable Materials List (CML), P/N 3043340.
- B. Job Set-Up Information

Subtask 73-10-05-94A-003

(1) Consumables

TABLE 4002, Consumables (Task 73-10-05-140-801)

Item Number	Material	Source (CML Code)
PWC03-002	Fluid, Calibrating MIL-PRF-7024 Type II	
PWC05-061	Cloth, Crocus	Local Purchase (A0001)
PWC05-073	Water, Distilled, Deionized or Demineralized	
PWC05-280	Paper, Industrial Tissue, Wiping (Kimwipes)	Kimberly-Clark Corp. (33591)
PWC05-444	General Purpose Soap (Dirl Lum 603)	Local Purchase (A0001) or Blue Wave Ultrasonics (0UU57) (http:// bluewaveinc.com)
PWC11-014	Isopropyl Alcohol	Local Purchase (A0001)
PWC11-046	Rust Remover, Alkaline (TURCO ARR 4181L) Fed Spec TT-C-490 D	Local Purchase (A0001) or Henkel North America (84063) (http:// www.henkelna.com)

<u>NOTE</u>: You can use equivalent substitutes for the consumables that show in this table.

Subtask 73-10-05-94B-002

(2) Special Tools / Non Standard Tools

TABLE 4003, Special Tools / Non Standard Tools (Task 73-10-05-140-801)

Part Number	Name	Source (CAGE Code)
None	Refractometer, 0-50% range	Local Purchase

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CLEANING

TABLE 4003, Special Tools / Non Standard Tools (Cont'd) (Task 73-10-05-140-801)

Part Number	Name	Source (CAGE Code)
NOTE: You can use equivalent substitutes for the tools that show in this table.		

Subtask 73-10-05-94C-002

(3) Fixtures / Test Equipment

TABLE 4004, Fixtures (Task 73-10-05-140-801)

Part Number	Name	Source (CAGE Code)
Not Applicable	Support, Fuel Adapter Housing	Local Manufacture
PWC71086	Flow Test Fixture, Fuel Nozzle	Pratt & Whitney Canada Corp. (00198)
PWC72520	Adapter, Fuel Nozzle Flow Test	
Not Applicable	Base, Fuel Nozzle Flow Test	CEL Aerospace Test Equipment Ltd. (3AS79)
CEL 50200-2	Test Stand	
NOTE: You can use equivalent substitutes for the Fixtures that shows in this table.		

TABLE 4005, Test Equipment (Task 73-10-05-140-801)

Part Number	Name	Source (CAGE Code)
	Ultrasonic Cleaner, 25-40 kHz	
Not Applicable	Corrosion Resistant, Sectioned, Steel Wire Mesh Baskets, designed for use in ultrasonics.	Local Purchase
NOTE N		

<u>NOTE</u>: You can use equivalent substitutes for the test equipment that shows in this table.

Subtask 73-10-05-94D-002

(4) Standard Tools

TABLE 4006, Standard Tools (Task 73-10-05-140-801)

Part Number	Name	Source (CAGE Code)
GA 55-1	Brush, Nylon Bristle	Local Purchase

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CLEANING

TABLE 4006, Standard Tools (Cont'd) (Task 73-10-05-140-801)

Part Number	Name	Source (CAGE Code)
NOTE: You can use equivalent substitutes for the tools that show in this table.		

Subtask 73-10-05-99E-003

(5) References

TABLE 4007, References (Task 73-10-05-140-801)

Reference	Manual Part Number
PWC Consumable Materials List (CML)	3043340

C. Job Set-Up

Subtask 73-10-05-160-001

- (1) Preparation for Cleaning
 - (a) Mix the alkaline rust remover (PWC11-046) and the distilled water (PWC05-073) until you get a concentration of 28-32%. Measure the concentration with a refractometer.
 - (b) Heat the alkaline rust remover to a temperature of 60 to 71 °C (140-160 °F).
 - (c) Heat the general purpose soap (PWC05-444) to a temperature of 49 to 71 °C (120-160 °F).

D. Cleaning Procedure

Subtask 73-10-05-140-001

- (1) Tip Assembly Components (Refer to Figure 4001)
 - (a) Place the disassembled tip components and the sheath into divided perforated baskets and submerge into the ultrasonic cleaner containing heated alkaline solution. Make sure to keep all disassembled parts together.
 - (b) Turn the power on and keep the components in ultrasonic unit for 45 minutes minimum or until clean.
 - (c) Turn the power off, remove the basket containing the components, and immediately rinse in deionized water (PWC05-073).
 - (d) Submerge the components into the ultrasonic cleaner containing heated general purpose soap (PWC05-444).
 - (e) Turn the power on and keep the components in ultrasonic unit for 15 (fifteen) minutes minimum.

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CLEANING

(f) Turn the power off and remove the basket and immediately rinse the components in deionized water (PWC05-073) 2 (two) times. Blow dry the components with low pressure, filtered shop air at 30 psig (207 Kpag) maximum.

WARNING: DO NOT POINT THE AIR STREAM AT YOURSELF OR TOWARD

ANOTHER PERSON.

WARNING: WEAR GOGGLES OR A FACE SHIELD TO PROTECT YOUR EYES.

(g) Submerge the components into isopropyl alcohol (PWC11-014) and remove. Blow dry with low pressure, filtered shop air at 30 psig (207 Kpag) maximum.

NOTE: If you find carbon on the spray surfaces of the tip assembly, you can use

a nylon bristle brush with alkaline rust remover (PWC11-046) to remove the carbon buildup or residue. Dip into general purpose soap (PWC05-418) to remove the alkaline rust remover (PWC11-046), then rinse in water (PWC05-073), then isopropyl alcohol (PWC11-014)

to clean.

NOTE: If you find carbon on the spray surfaces of the tip assembly, you can

use a crocus cloth (PWC05-061) or an industrial wiping tissue

(PWC05-280) to remove carbon buildup or residue.

Subtask 73-10-05-130-001

(2) Housing Assembly (Refer to Figure 4002)(Figure 4003)

- (a) Suspend the housing assembly to the level shown in the figure into the ultrasonic cleaner containing the heated alkaline rust remover (PWC11-046).
- (b) Turn the power on and keep the housing assembly in the ultrasonic unit for 60 (sixty) minutes, minimum, or until the part is clean.
- (c) Turn the power off, remove the housing assembly, and immediately dip the part into distilled water (PWC05-073) to the level shown in the figure.

CAUTION: MAKE SURE TO NOT SUBMERGE THE PART IN THE CLEANING SOLUTION LOWER THAN THE DISTANCE SHOWN ON THE FIGURE.

- (d) Suspend the housing assembly, at the level shown in the figure, into the ultrasonic cleaner containing the heated general purpose soap (PWC05-418).
- (e) Turn the power on and keep the components in the ultrasonic cleaner for twenty (20) minutes, minimum.

WARNING: DO NOT POINT THE AIR STREAM AT YOURSELF OR TOWARD ANOTHER PERSON.

WARNING: WEAR GOGGLES OR A FACE SHIELD TO PROTECT YOUR EYES.

(f) Turn the power off, remove the housing assembly, and immediately rinse the components in deionized water (PWC05-073). Dip the housing assembly to the level shown in the figure. Blow dry the components with low pressure, filtered shop air at 30 psig (207 Kpag) maximum.

73-10-05 CLEANING

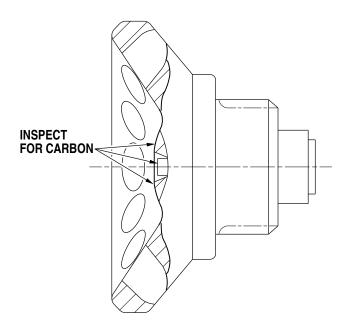
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CLEANING

- (g) Dip the housing assembly into isopropyl alcohol (PWC11-014) to the level shown in the figure and remove. Blow dry the components with low pressure, filtered shop air at 30 psig (207 Kpag) maximum.
- (h) Insert the housing assembly into a flow test fixture (PWC71086) with a base and adapter (PWC72520) and put inside the test stand (CEL 50200-2). Apply calibrating fluid (PWC03-002) for a time of 1 (one) minute, minimum, at a pressure of 100 to 350 psig (689.5–2413 kPag). Do three (3) pressure cycles, minimum.
- (i) Remove the housing assembly from the flow test fixture and blow dry with low pressure, filtered shop air at 30 psig (207 Kpag) maximum.

73-10-05 CLEANING

CLEANING



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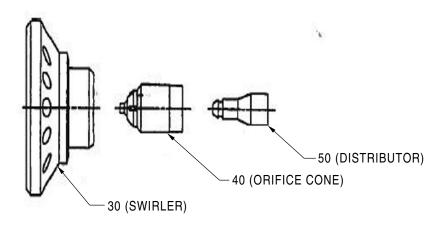
Tip Assembly - Inspection for Carbon - Cleaning Figure 4001 (Sheet 1 of 3) (Task 73-10-05-140-801)

> 73-10-05 CLEANING

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CLEANING

A MARKETTA TO



TIP ASSEMBLY

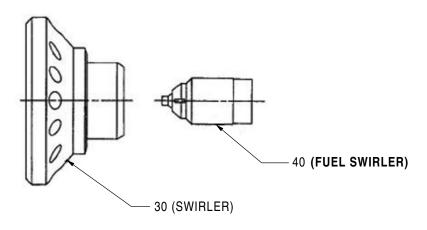
ICN-00198-G000010867-001-01

Tip Assembly - Inspection for Carbon - Cleaning Figure 4001 (Sheet 2) (Task 73-10-05-140-801)

> 73-10-05 CLEANING

Page 4009 Jan 17/2020

CLEANING



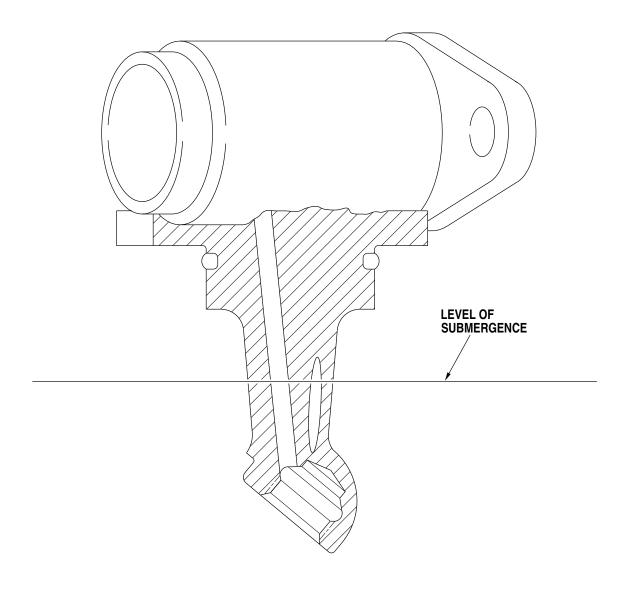
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Tip Assembly - Inspection for Carbon - Cleaning Figure 4001 (Sheet 3) (Task 73-10-05-140-801)

> 73-10-05 CLEANING

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CLEANING



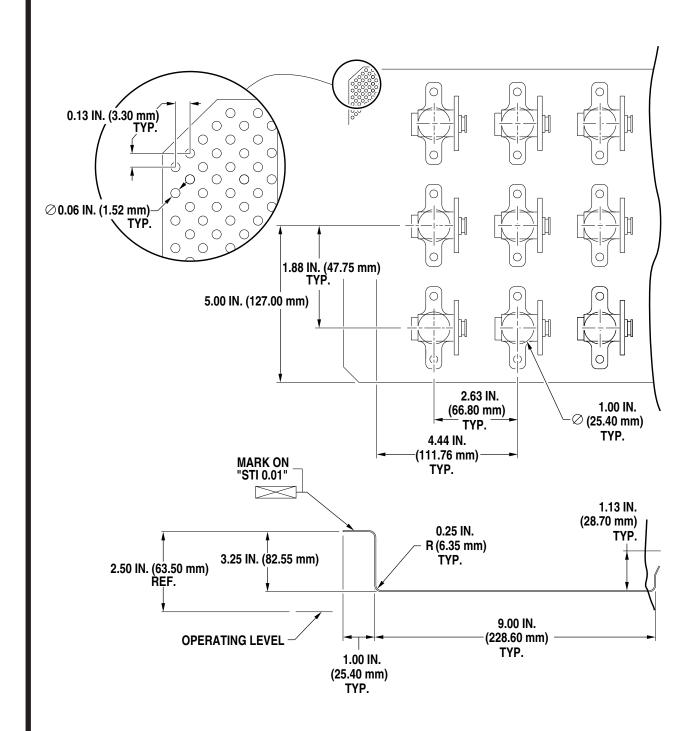
C96476

Level of Submergence Figure 4002 (Task 73-10-05-140-801)

> 73-10-05 CLEANING

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CLEANING



ICN-00198-G000026679-001-01

Housing Assembly - Fuel Nozzle Adaptor Housing Support Figure 4003 (Task 73-10-05-140-801)

> 73-10-05 CLEANING

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CHECK

Task 73-10-05-99F-801

- 1. General / Introduction
 - A. This pageblock gives you the necessary data to check the Fuel Nozzle Adapter Assembly. Refer to Table 5001, Related Tasks.
 - B. If the part is not in the serviceable limits, put the part assembly in a polyethylene bag (PWC05-054) (Refer to Storage) and return to Pratt & Whitney Component Solutions Inc. (refer to Introduction).

TABLE 5001, Related Tasks (Task 73-10-05-99F-801)

Task Title(s)	Task(s)
Inspection / Check of the Fuel Nozzle Adapter Assembly	Task 73-10-05-220-801

73-10-05

CHECK

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73-10-05CHECK
Page 5002
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CHECK

Task 73-10-05-220-801

2. Inspection / Check of the Fuel Nozzle Adapter Assembly

A. General

CAUTION: WHERE POSSIBLE, USE SURGICAL GLOVES, NON-LATEX GLOVES,

OR CLEAN LINT-FREE COTTON GLOVES WHEN YOU TOUCH THE FUEL NOZZLE ASSEMBLY. YOUR FINGERPRINTS ON THE ORIFICE OF THE FUEL NOZZLE ASSEMBLY CAN AFFECT THE QUALITY OF THE

SPRAY.

CAUTION: KEEP THE PARTS OF EACH FUEL NOZZLE ASSEMBLY TOGETHER IN

A POLYETHYLENE BAG (PWC05-054). DO NOT MIX COMPONENTS

FROM OTHER FUEL NOZZLE ASSEMBLIES.

(1) This task gives you the data and instructions that are necessary to do a visual inspection and check of the Fuel Nozzle Adapter Assembly.

- (2) All persons who check the engine components must read and understand the procedures given in the PWA Standard Practices Manual (SPM), P/N 585005.
- (3) In the text, the consumables include a PWC item number: for example, PWC03-002. For more data, refer to the PWC Consumable Materials List (CML), P/N 3043340.
- (4) Inspect all the detail parts of fuel nozzle adapter assembly and reject all detail parts that fail to meet inspection requirements, except where a repair of the parts is permitted.

NOTE: The distributor and the body are a matched set. Rejection of either of the parts means you need to replace both parts.

(5) Refer to Table 5002, Related Subtasks, for the subtask that you need.

TABLE 5002, Related Subtasks (Task 73-10-05-220-801)

Subtask Title(s)	Subtask(s)
Inspection - Housing Assembly and Sheath	Subtask 73-10-05-220-001
Inspection - Nozzle Inlet and Strainer - Visual	Subtask 73-10-05-220-002
Inspection - Nozzle Inlet - Scratches	Subtask 73-10-05-220-003
Inspection - Nozzle Inlet - Pre-formed Packing Groove	Subtask 73-10-05-220-004
Inspection - Tip Assembly Components (Config A00)	Subtask 73-10-05-220-001-A00
Inspection - Tip Assembly Components (Config B00)	Subtask 73-10-05-220-001-B00

73-10-05

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CHECK

B. Job Set-Up Information

Subtask 73-10-05-94C-003

(1) Fixtures / Test Equipment

TABLE 5003, Fixtures / Test Equipment (Task 73-10-05-220-801)

Part Numb	per	Name	Source (CAGE Code)
Not Applica	cable Microscope, 10X Power with Illumination		Local Purchase
NOTE: You can use equivalent substitutes for the Fixtures/Test Equipment that show in this table.			
NOTE: When you do a check, use the microscope at 10X power maximum unless specified otherwise.			

Subtask 73-10-05-99E-004

- (2) References
 - (a) Not Applicable
- C. Procedure

Subtask 73-10-05-220-001

(1) Visual Inspection - Housing Assembly, Sheath (Refer to Figure 5001)

NOTE: If you see heavy varnish build-up (refer to Check for basic criteria), you must overhaul the fuel nozzle. Return the part to Pratt & Whitney Canada Corp. (refer to Introduction).

NOTE: If you see damage, you must remove and change the strainer.

- (a) Check the seal surface of the stem support for small scratches. Small scratches can be removed (Refer to Repair, Subtask 73-10-05-350-001).
- (b) Check the seal surface of the stem support for raised metal surfaces. Raised material can be removed (Refer to Repair, Subtask 73-10-05-350-002).
- (c) Check threads for raised material. Raised material can be removed (Refer to Repair, Subtask 73-10-05-350-003).
- (d) Check the sheath for wear/erosion (refer to figure, Sheet 4). The maximum allowable limit is 0.010 in. (25.65 mm). If the part is not in the limit, reject the part.
- (e) Check the threads for crossed or stripped threads. Crossed or stripped threads can be repair (Refer to Repair, Subtask 73-10-05-350-004).

73-10-05 CHECK

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CHECK

(f) Check the pin height. The height dimension must be between 0.035 to 0.050 in. (0.889-1.270 mm) when you measure from the flange. If the pin height is not in the range, return the part to Pratt & Whitney Component Solutions Inc. (refer to Introduction).

Subtask 73-10-05-220 -002

- (2) Visual Inspection Nozzle Inlet, Strainer (Refer to Figure 5001 Sheet 3)
 - (a) Visual Inspection Nozzle Inlet, Strainer
 - (b) This step is required if you see damage and/or heavy varnish build-up on the strainer and the inlet port. If you see heavy varnish build-up, you need to remove the strainer and overhaul the part.

Subtask 73-10-05-220 -003

- (3) Visual Inspection Nozzle Inlet, Scratches
 - (a) Visual Inspection Nozzle Inlet, Scratches
 - (b) This step is required if the strainer was removed from the inlet port. Check the inside surfaces of nozzle inlet for scratches. Small scratches can be removed from the inside surfaces (Refer to Repair, Subtask 73-10-05-350-001).

Subtask 73-10-05-220 -004

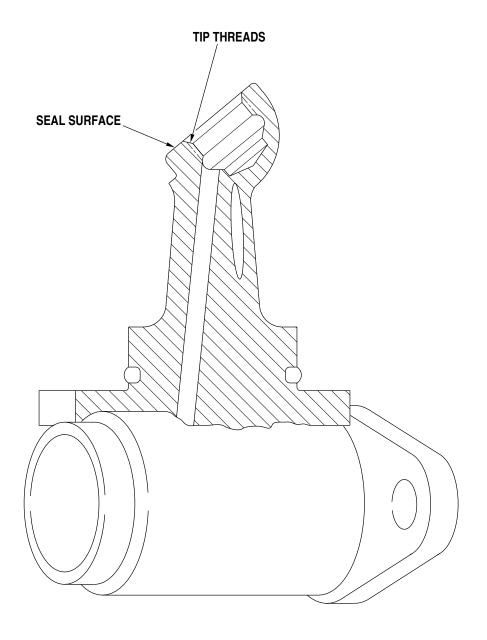
- (4) Visual Inspection Nozzle Inlet Pre-formed Packing Groove
 - (a) Visual Inspection Nozzle Inlet Pre-formed Packing Groove
 - (b) Check the pre-formed packing groove for scratches and raised material. Small scratches and raised material can be removed (Refer to Repair, Subtask 73-10-05-350-001).

Subtask 73-10-05-220-005-A00

- (5) Visual Inspection Tip Assembly Components (Refer to Figure 5003)
 - (a) **Distributor:**
 - 1 Check the part for erosion; no erosion on the part is allowed. If erosion is found, discard the complete part.
 - Check the part for carbon. If you find carbon, clean the part (Refer to Cleaning).
 - (b) Orifice Cone:
 - 1 Check the part for erosion; no erosion on the part is allowed. If erosion is found, discard the complete part.

73-10-05 CHECK

CHECK



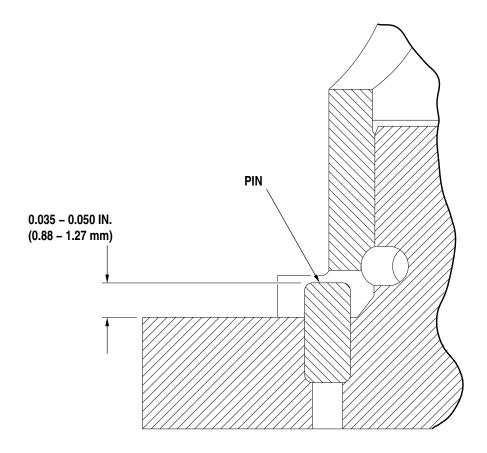
C96511

Visual Inspection - Housing Assembly Figure 5001 (Sheet 1 of 4) (Task 73-10-05-220-801)

> 73-10-05 CHECK

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CHECK



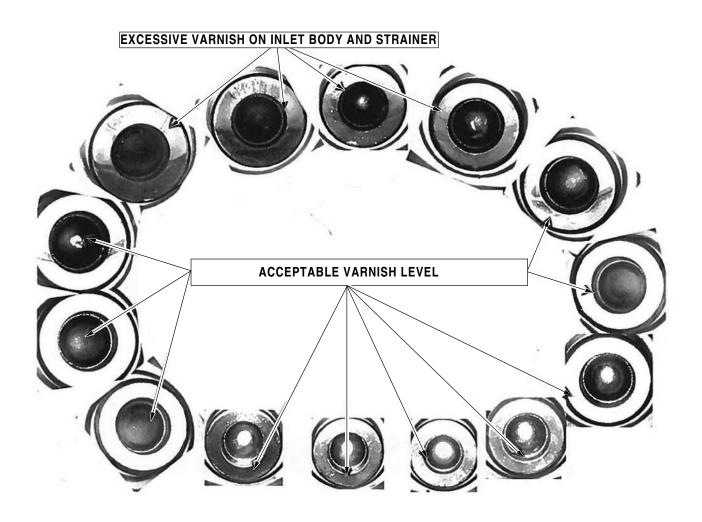
C213870

Visual Inspection - Pin Figure 5001 (Sheet 2) (Task 73-10-05-220-801)

> 73-10-05 CHECK

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CHECK



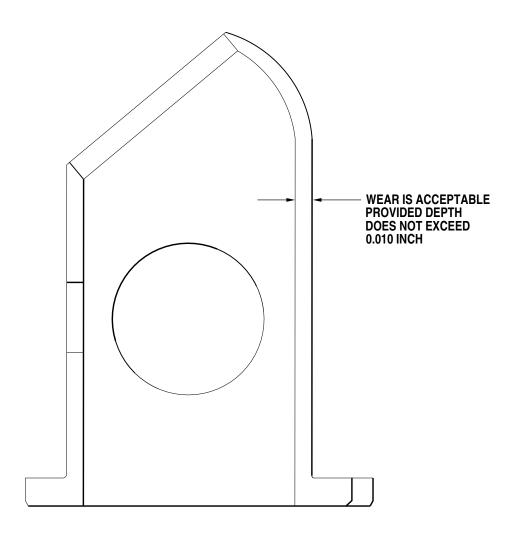
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Visual Inspection - Varnish Build-up - Criteria Figure 5001 (Sheet 3) (Task 73-10-05-220-801)

> 73-10-05 CHECK

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CHECK



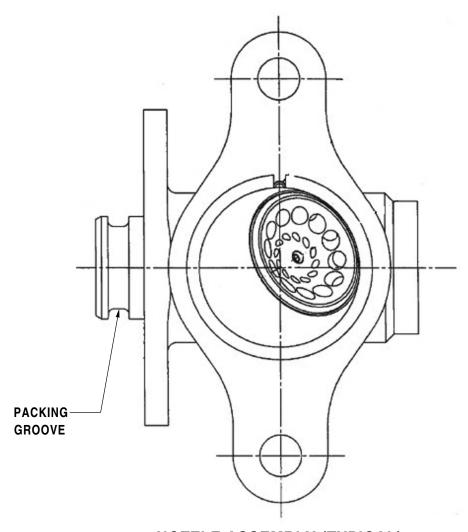
C81932

Visual Inspection - Sheath Figure 5001 (Sheet 4) (Task 73-10-05-220-801)

> 73-10-05 CHECK

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CHECK



NOZZLE ASSEMBLY (TYPICAL)

C231896

Visual Inspection - Preformed Packing Groove Figure 5002 (Task 73-10-05-220-801)

> 73-10-05 CHECK

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CHECK

Check the part for carbon. If you find carbon, clean the part (Refer to Cleaning).

(c) Swirler:

- Check the part for erosion; no erosion on the part is allowed. If erosion is found, discard the complete part.
- Check the part for carbon. If you find carbon, clean the part (Refer to Cleaning).
- Check for cross, stripped or damaged threads. You can repair crossed or stripped threads (Refer to Repair, Subtask 73-10-05-350-005). If the threads have more than small damage, discard the complete part.

Subtask 73-10-05-220-006-B00

(6) Inspection - Tip Assembly Components (Refer to Figure 5004)

(a) Orifice Cone:

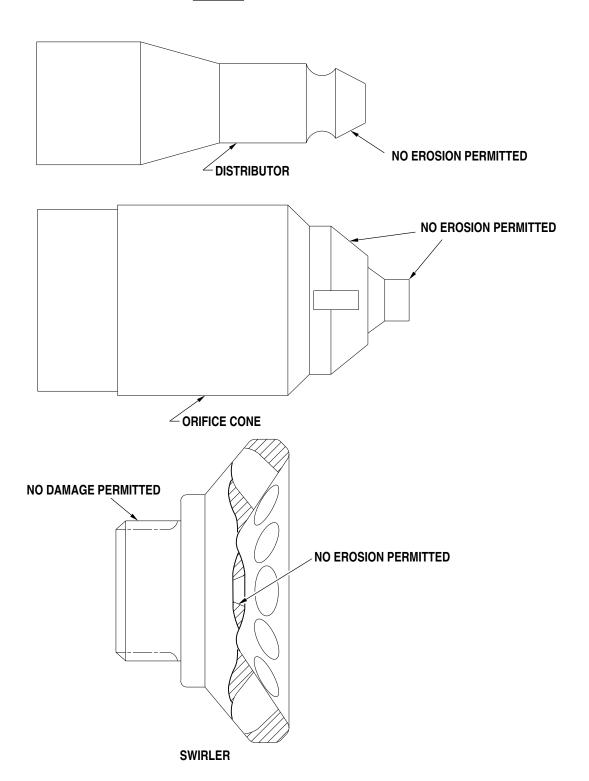
- 1 Check the part for erosion; no erosion on the part is allowed. If erosion is found, discard the entire part.
- Check the part for carbon. If you find carbon, clean the part (Refer to Cleaning).

(b) Swirler:

- 1 Check the part for erosion; no erosion on the part is allowed. If erosion is found, discard the entire part.
- Check the part for carbon. If you find carbon, clean the part (Refer to Cleaning).
- Check for cross, stripped or damaged threads. You can repair crossed or stripped threads (Refer to Repair, Subtask 73-10-05-350-005). If the threads have more than small damage, discard and replace the part.

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CHECK



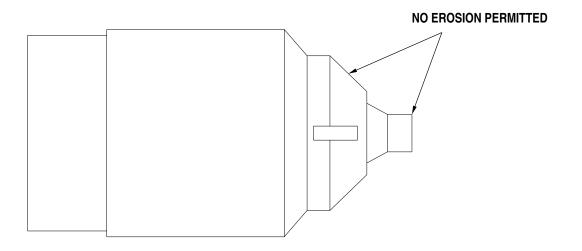
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Visual Inspection - Distributor, Orifice Cone, Swirler (Configs A01, A02) Figure 5003 (Task 73-10-05-220-801)

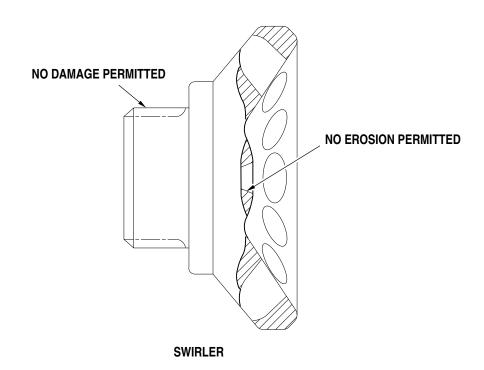
73-10-05

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CHECK



ORIFICE CONE



C213872

Visual Inspection - Orifice, Fuel Swirler (Configs B01, B02) Figure 5004 (Task 73-10-05-220-801)

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REPAIR

Task 73-10-05-99F-801

- 1. General / Introduction
 - A. This pageblock gives you the necessary data to repair the Fuel Nozzle Adapter Assembly. Refer to Table 6001, Related Tasks.
 - B. If the part is not in the serviceable limits, put the part assembly in a polyethylene bag (PWC05-054) (Refer to Storage) and return the part to Pratt & Whitney Component Solutions Inc. (refer to Introduction).

TABLE 6001, Related Tasks (Task 73-10-05-99F-801)

Task Title(s)	Task(s)
Repair of the Fuel Nozzle Adapter Assembly	Task 73-10-05-300-801

73-10-05

REPAIR

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REPAIR

Task 73-10-05-300-801

2. Repair of the Fuel Nozzle Adapter Assembly

A. General

CAUTION: WHERE POSSIBLE, USE SURGICAL GLOVES, NON-LATEX GLOVES,

OR CLEAN LINT-FREE COTTON GLOVES WHEN YOU TOUCH THE FUEL NOZZLE ASSEMBLY. YOUR FINGERPRINTS ON THE ORIFICE OF THE FUEL NOZZLE ASSEMBLY CAN AFFECT THE QUALITY OF THE

SPRAY.

- (1) This task gives you the procedures to do minor repairs to the Fuel Nozzle Adapter assembly.
- (2) Repairs to the part are limited to removing raised metal from nicks or burrs. Permissible repairs are shown with specific repair procedures. Items that are bent or display other damage that can interfere with correct operation must be replaced unless repair procedures are shown.
- (3) All persons who repair the engine components must read and understand the procedures given in the PWA Standard Practices Manual (SPM), P/N 585005.
- (4) In the text, the consumables include a PWC item number: for example, PWC03-002. For more data, refer to the PWC Consumable Materials List (CML), P/N 3043340.
- (5) Refer to Table 6002, Related Subtasks for the subtask (s) that you need.

TABLE 6002, Related Subtasks (Task 73-10-05-300-801)

Subtask Title(s)	Subtask(s)
Repair - Small Surface Scratches	Subtask 73-10-05-350-001
Repair - Raised Metal Surfaces	Subtask 73-10-05-350-002
Repair - Raised Metal on Threads	Subtask 73-10-05-350-003
Repair - Crossed or Stripped Threads in the Support	Subtask 73-10-05-350-004
Repair - Crossed or Stripped Threads of the Swirler	Subtask 73-10-05-350-005
Repair - Preformed Packing Groove	Subtask 73-10-05-350-006

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REPAIR

B. Job Set-Up Information

Subtask 73-10-05-94A-004

(1) Consumables

TABLE 6003, Consumables (Task 73-10-05-300-801)

Part Number	Name	Source (CML Code)
PWC03-002	Fluid, Calibrating MIL-PRF-7024 Type II	Local Purchase (A0001)
PWC05-100	Abrasive, Flexible Stone	

<u>NOTE</u>: You can use equivalent substitutes for the consumables that show in this table.

Subtask 73-10-05-94C-004

(2) Fixtures / Test Equipment

TABLE 6004, Fixtures / Test Equipment (Task 73-10-05-300-801)

Part Number		Name	Source (CAGE Code)
Not Applicable		Not Applicable Microscope, 10X Power with Illumination	
		0.3125-32 UNJEF-3A Die	
		0.3125-32 UNJEF-3B Tap	
NOTE: You can use equivalent substitutes for the Fixtures/Test Equipment that show in this table.			
NOTE: When you do a check, use the microscope at 10X power maximum unless specified otherwise.			

Subtask 73-10-05-99E-005

(3) References

TABLE 6005, References (Task 73-10-05-300-801)

Reference	Manual Part Number
PWC Consumable Materials List (CML)	3043340

C. Procedure

Subtask 73-10-05-350-001

- (1) Repair Small Surface Scratches
 - (a) Use a flexible abrasive stone (PWC05-100) to remove small surface scratches.

73-10-05

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REPAIR

- (b) Hold the housing assembly with stem support facing downward and rinse stem support in a calibration fluid (PWC03-002).
- (c) Use dry low-pressure filtered-shop-air at 30 psig (207 kPag) and blow the components until they become dry.
- (d) Inspect again for small surface scratches. If you find scratches, do all the steps over again.

Subtask 73-10-05-350-002

- (2) Repair Raised Metal Surfaces
 - (a) Use a flexible abrasive stone (PWC05-100) to remove raised material to surrounding surface levels.
 - (b) Hold the housing assembly with stem support facing downward and rinse stem support in calibration fluid (PWC03-002).
 - (c) Use dry low-pressure filtered-shop-air at 30 psig (207 kPag) and blow the components until they become dry.
 - (d) Inspect again for raised material. If you find raised material, do all the steps over again.

Subtask 73-10-05-350-003

- (3) Repair Raised Metal on Threads
 - (a) Use a flexible abrasive stone (PWC05-100) to remove raised material to surrounding surface levels.
 - (b) Hold the housing assembly with stem support facing downward and rinse stem support in calibration fluid (PWC03-002).
 - (c) Use dry low-pressure filtered-shop-air at 30 psig (207 kPag) and blow the components until they become dry.
 - (d) Inspect again for raised material. If you find raised material, do all the steps over again.

Subtask 73-10-05-350-004

- (4) Repair Crossed or Stripped Threads in the Support
 - (a) Chase the threads with a 0.3125-32 UNJEF-3A Mod tap.
 - (b) Hold the housing assembly with stem support facing downward and rinse stem support in calibration fluid (PWC03-002).
 - (c) Use dry low-pressure filtered-shop-air at 30 psig (207 kPag) and blow the components until they become dry.

73-10-05 REPAIR

REPAIR

(d) Inspect again for crossed or stripped threads. If you find crossed or stripped threads, do all the steps over again.

Subtask 73-10-05-350-005

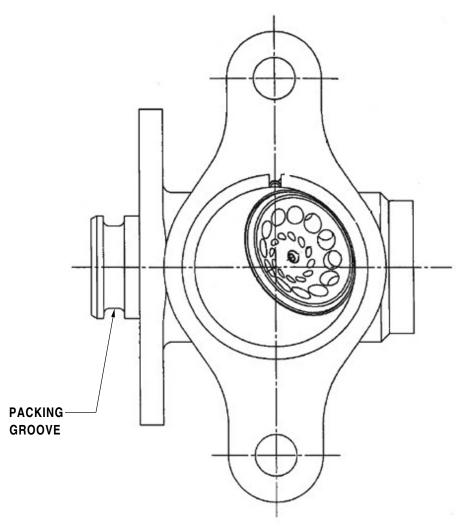
- (5) Repair Crossed or Stripped Threads of the Swirler
 - (a) Chase the threads with 0.3125-32 UNJEF-3A Die.
 - (b) Rinse the swirler in calibration fluid (PWC03-002).
 - (c) Use dry low-pressure filtered-shop-air at 30 psig (207 kPag) and blow the components until they become dry.
 - (d) Inspect again for crossed or stripped threads. If you find crossed or stripped threads, do all the steps over again.

Subtask 73-10-05-350-006

- (6) Repair Preformed Packing Groove (Refer to Figure 6001)
 - (a) Use a flexible abrasive stone (PWC05-100) to remove raised material and sharp edges on the packing groove.

73-10-05

REPAIR



NOZZLE ASSEMBLY (TYPICAL)

C231896

Repair - Preformed Packing Groove Figure 6001 (Task 73-10-05-300-801)

> 73-10-05 REPAIR

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Task 73-10-05-99F-801

- 1. General / Introduction
 - A. This pageblock gives you the necessary data to assemble the Fuel Nozzle Adapter Assembly. Refer to Table 7001, Related Tasks.

TABLE 7001, Related Tasks (Task 73-10-05-99F-801)

Task Title(s)	Task(s)
Assembly of the Fuel Nozzle Adapter Assembly (All Configs)	Task 73-10-05-460-801

ASSEMBLY

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73-10-05ASSEMBLY

ASSEMBLY

Task 73-10-05-460-801

2. Assembly of the Fuel Nozzle Adapter (All Configs)

A. General

CAUTION: MAKE SURE YOU KEEP ALL THE NOZZLE TIP COMPONENTS TOGETHER. DO NOT MIX PARTS.

- (1) This task gives you the necessary data to assemble the Fuel Nozzle Adapter Assembly.
- (2) All persons who assemble the engine components must read and understand the procedures given in the PWA Standard Practices Manual (SPM), P/N 585005.
- (3) In the text, the consumables include a PWC item number: for example, PWC03-002. For more data, refer to the PWC Consumable Materials List (CML), P/N 3043340.
- (4) Refer to Table 7002, Related Subtasks for the subtask you need.

TABLE 7002, Related Subtasks (Task 73-10-05-460-801)

Subtask Title(s)	Subtask(s)
Assembly of Fuel Nozzle Adapter Assembly	Subtask 73-10-05-470-001

B. Job Set-Up Information

Subtask 73-10-05-94A-005

(1) Consumables

TABLE 7003, Consumables (Task 73-10-05-460-801)

Item Number	Material	Source (CML Code)
PWC03-005	Oil, Engine Lubricating Mobil D. T. E. Oil Light	Local Purchase (A0001)
PWC03-002 Fluid, Calibration MIL-PRF-7024 Type II		
NOTE: You can use equivalent substitutes for the consumables that show in this table.		

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ASSEMBLY

Subtask 73-10-05-94B-003

(2) Special Tools / Non Standard Tools

TABLE 7004, Special Tools / Non Standard Tools (Task 73-10-05-460-801)

Part Number	Name	Source (CAGE Code)
PWC70728	Crowfoot, Tip Installation	Pratt & Whitney Canada Corp. (00198)
PWC71041	Tool, Strainer Installation	
PWC72522	Holder, Fuel Nozzle	

NOTE: You can use equivalent substitutes for the tools that show in this table.

Subtask 73-10-05-99E-006

(3) References

TABLE 7005, References (Task 73-10-05-460-801)

Reference	Manual Part Number
PWC Consumable Materials List (CML)	3043340

C. Procedure

WARNING: BEFORE USING THE CONSUMABLE MATERIALS LISTED IN THIS

PUBLICATION, BE AWARE OF ALL HANDLING, STORAGE AND DISPOSAL PRECAUTIONS RECOMMENDED BY THE MANUFACTURER. FAILURE TO COMPLY WITH MANUFACTURERS RECOMMENDATIONS CAN RESULT

IN INJURY OR DISEASE.

WARNING: WHEN USING COMPRESSED AIR FOR DRYING, WEAR GOGGLES OR

FACE SHIELD TO PROTECT EYES.

CAUTION: KEEP PARTS OF EACH NOZZLE ASSEMBLY TOGETHER IN CLEAN,

INDIVIDUAL PLASTIC TRAYS TO PROTECT SEALING SURFACES FROM NICKING OR BURRING. DO NOT MIX PARTS FROM OTHER NOZZLE

ASSEMBLIES.

CAUTION: FINGERPRINTS ON NOZZLE ASSEMBLY ORIFICE MAY AFFECT SPRAY

PATTERN. AVOID MECHANICAL DAMAGE FROM CARELESS HANDLING.

Subtask 73-10-05-470-001-A01

(1) Assembly of Fuel Nozzle Adapter (Config A) (Refer to Figure 7001)

CAUTION: MAKE SURE YOU KEEP ALL THE NOZZLE TIP COMPONENTS TOGETHER. DO NOT MIX PARTS.

(a) **Cleaning:** Rinse the parts in calibration fluid (PWC03-002)to eliminate dust particles which can accumulate in storage and affect nozzle assembly performance.

73-10-05 ASSEMBLY

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ASSEMBLY

(b) Dry parts thoroughly, with dry, low pressure filtered shop air.

NOTE: Work areas are to be well lit, clean and contaminant free.

NOTE: Lubricate mating surfaces and fixtures with light lubricating oil

(PWC03-005).

- (c) Install the adapter body in a holder (PWC72522).
- (d) Tip Assembly:
 - Insert the distributor into orifice cone and bottom. Insert orifice cone into the swirler and bottom.
- (e) Tip Assembly to Housing Assembly:
 - 1 Insert the seal into stem of support and bottom.
 - 2 Lubricate threads of tip assembly with light lubricating oil (PWC03-005).
 - 3 Place locking washer on seal surface of stem support.
 - 4 Thread tip assembly into to the stem support and hand tighten.
 - 5 Align two triangle tabs of locking washer and insert tip assembly.
 - 6 Use a crowfoot (PWC70728) and torque to 55 to 65 lb.in. (6.21-7.34 Nm).
 - Align the two triangle tabs of the locking washer (60) so that they can be formed onto two flats of the nozzle hex. The long single tab is aligned with the flat of the stem support opposite the triangle tabs.
 - 8 Bend the tabs of the washer.

Subtask 73-10-05-470-002-A01

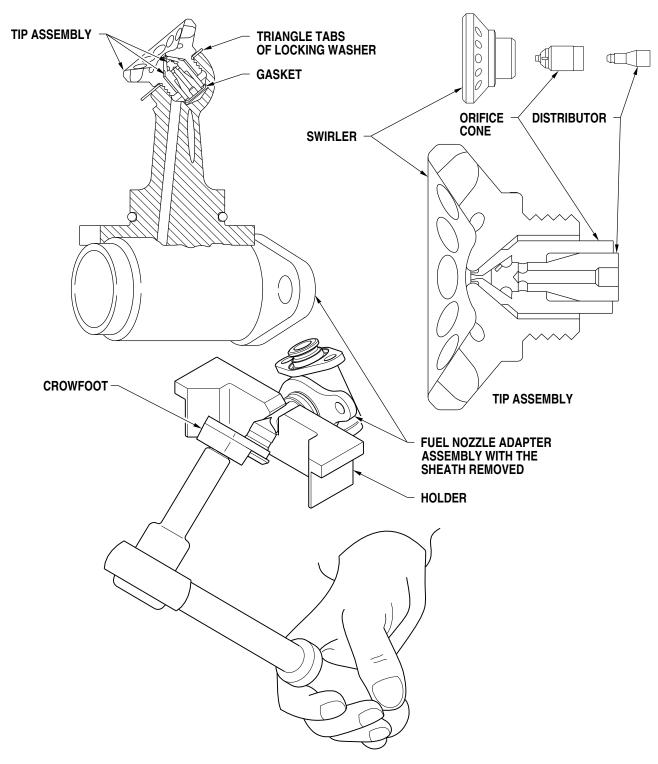
- (2) Installation of Sheath on Housing Assy (Config A) (Refer to Figure 7002)
 - (a) Install the sheath (100) on the housing assembly (1) and lower onto the part. Make sure it is seated correctly.
 - (b) Do a flow test on the part (refer to Testing section).

Subtask 73-10-05-470-003-A01

- (3) Installation of Strainer (Config A) (If Required) (Refer to Figure 7003)
 - (a) This step is only required if the strainer was removed due to damage and/or heavy varnish build-up on both the strainer and the inlet port. Select a new fuel strainer (refer to IPL for the correct part number).
 - (b) Put the new fuel strainer into position in the fuel nozzle assembly with the strainer installation tool from the strainer installation tool kit (PWC71041).

73-10-05 ASSEMBLY

ASSEMBLY



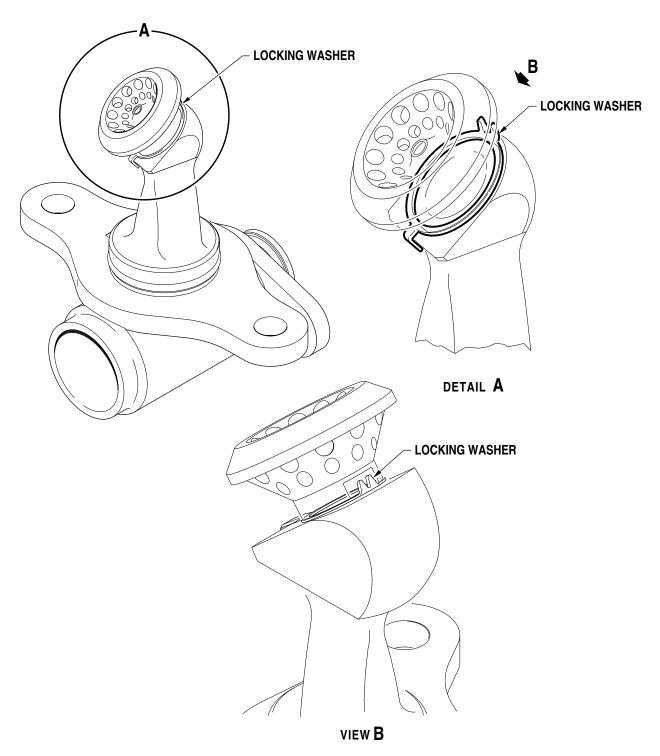
C215807

Nozzle Assembly - Tip Assembly Figure 7001 (Sheet 1 of 2) (Task 73-10-05-460-801)

> 73-10-05 ASSEMBLY

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ASSEMBLY



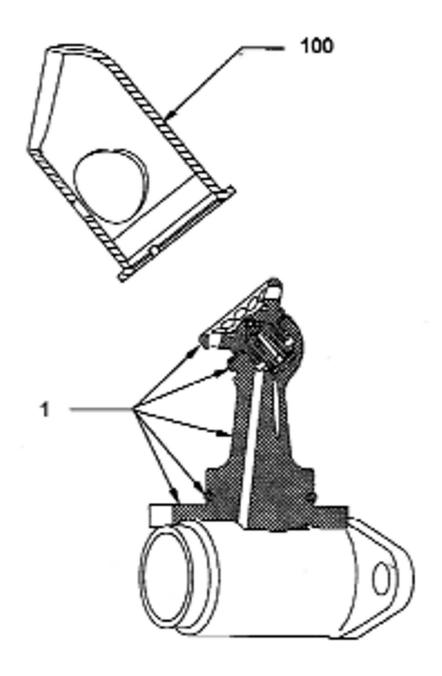
C102128

Nozzle Assembly - Tab Alignment Figure 7001 (Sheet 2) (Task 73-10-05-460-801)

> 73-10-05 ASSEMBLY

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ASSEMBLY



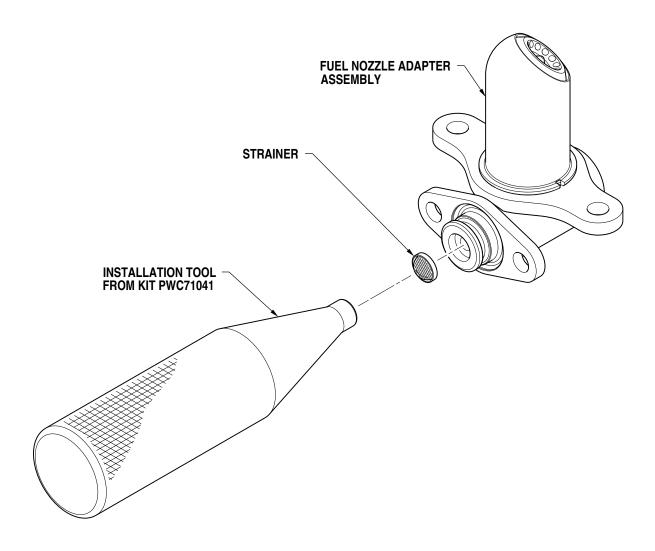
C215087

Installation of Sheath on Housing Assy Figure 7002 (Task 73-10-05-460-801)

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ASSEMBLY



ICN-00198-G000009656-001-01

Installation of Strainer (Config A) (If Required)
Figure 7003
(Task 73-10-05-460-801)

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ASSEMBLY

Subtask 73-10-05-470-001-B01

(4) Assembly of Fuel Nozzle Adapter (Config B) (Refer to Figure 7004)

CAUTION: MAKE SURE YOU KEEP ALL THE NOZZLE TIP COMPONENTS TOGETHER. DO NOT MIX PARTS.

- (a) **Cleaning:** Rinse parts in calibration fluid (PWC03-002), to eliminate dust particles which can accumulate in storage, and which can affect nozzle assembly performance.
- (b) Dry parts thoroughly, with dry, low pressure filtered shop air.

<u>NOTE</u>: Make sure the work areas are to be well lit, clean and contaminant free.

NOTE: Lubricate mating surfaces and fixtures with light lubricating oil (PWC03-005).

- (c) Tip Assembly:
 - 1 Insert fuel swirler into swirler and bottom.
- (d) Tip Assembly to Housing Assembly:
 - 1 Insert seal into stem of support and bottom.
 - 2 Lubricate threads of tip assembly with light lubricating oil (PWC03-005).
 - 3 Place locking washer on seal surface of stem support.
 - 4 Thread tip assembly into to the stem support and hand-tighten.
 - 5 Align two triangle tabs of locking washer and insert tip assembly.
 - 6 Use a crowfoot (PWC70728) and torque to 55 to 65 lb.in. (6.21-7.34 Nm).

NOTE: Align the two triangle tabs of the locking washer (60) so that they can be formed onto two flats of the nozzle hex. The long single tab is aligned with the flat of the stem support opposite the triangle tabs.

NOTE: Do not bend the tabs into the final position until after passing the flow test requirements.

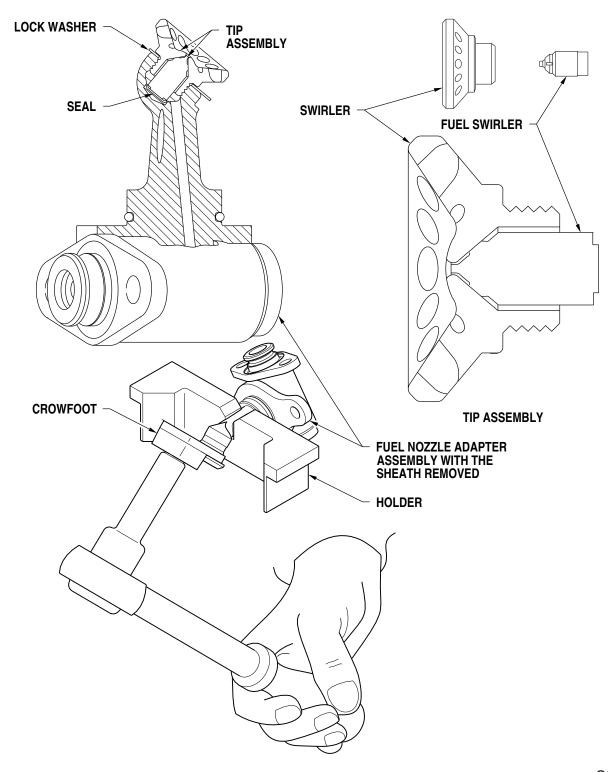
Subtask 73-10-05-470-002-B01

- (5) Installation of Sheath on Housing Assy (Config B) (Refer to Figure 7005)
 - (a) Assemble the sheath (90) onto the housing assembly (1) and lower onto the part. Make sure it is seated correctly.
 - (b) Do a flow test on the part (refer to Testing section).

73-10-05ASSEMBLY

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ASSEMBLY



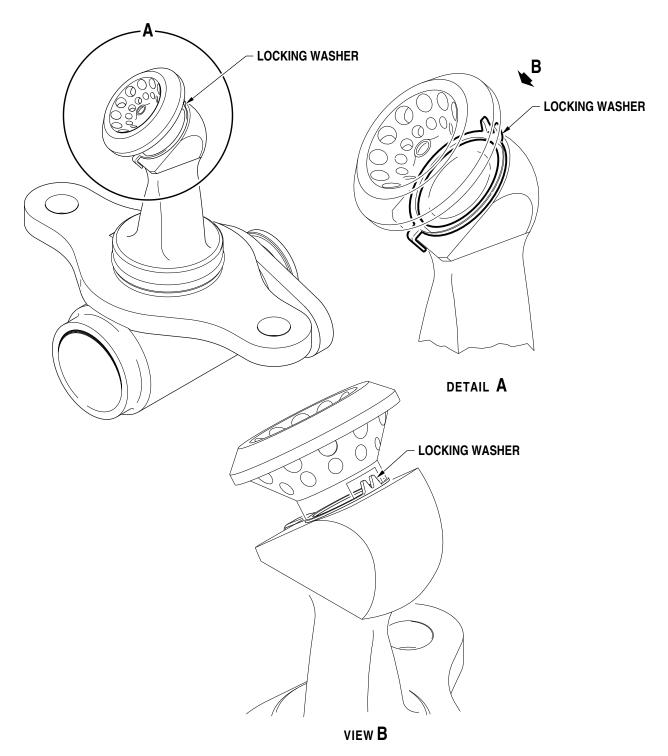
C215808

Nozzle Assembly - Tip Assembly Figure 7004 (Sheet 1 of 2) (Task 73-10-05-460-801)

> 73-10-05 ASSEMBLY

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ASSEMBLY



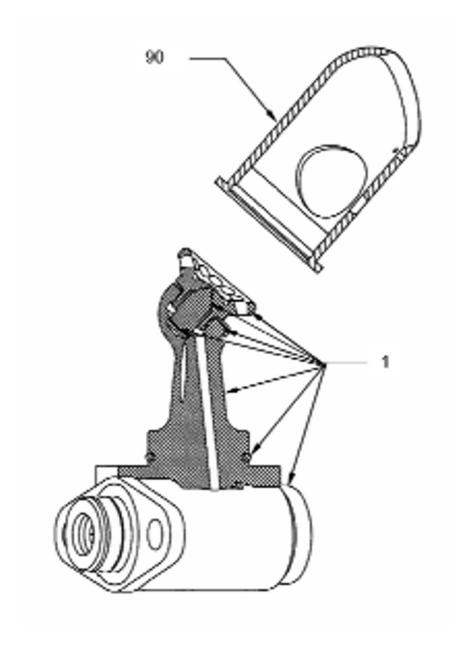
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Nozzle Assembly - Tab Alignment Figure 7004 (Sheet 2) (Task 73-10-05-460-801)

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ASSEMBLY



C215086

Installation of Sheath on Housing Assy Figure 7005 (Task 73-10-05-460-801)

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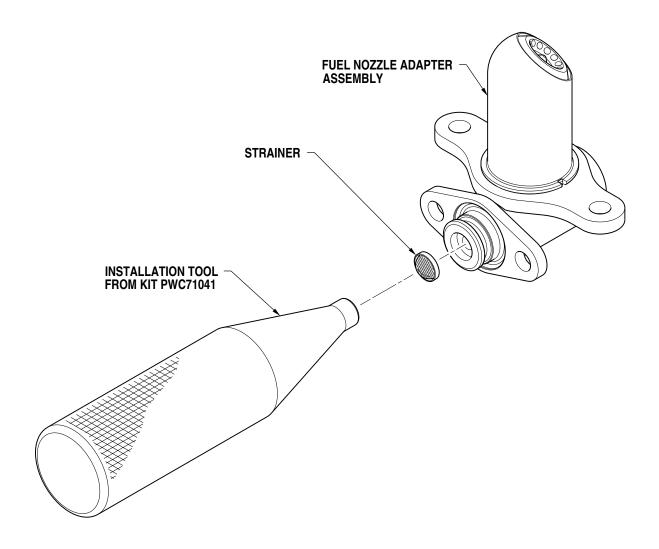
ASSEMBLY

Subtask 73-10-05-470-003-B01

- (6) Installation of Strainer (Config B) (If Required) (Refer to Figure 7006)
 - (a) This step is only required if the strainer was removed due to damage and/or heavy varnish build-up on both the strainer and the inlet port. Select a new fuel strainer (refer to IPL for the correct part number).
 - (b) Put the new fuel strainer into position in the fuel nozzle assembly with the strainer installation tool from the strainer installation tool kit (PWC71041).

73-10-05ASSEMBLY

ASSEMBLY



ICN-00198-G000009656-001-01

Installation of Strainer (Config B) (If Required)
Figure 7006
(Task 73-10-05-460-801)

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FITS AND CLEARANCES

NOT APPLICABLE

EFF: ALL

73-10-05 FITS AND CLEARANCES

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SPECIAL TOOLS, FIXTURES, EQUIPMENT AND CONSUMABLES

Task 73-21-04-99F-801

- 1. General / Introduction
 - A. This pageblock gives you all the data applicable to the tools, fixtures, equipment and consumables needed to do all the tasks for the Fuel Manifold Adapter Assembly. Refer to Table 9001, Related Tasks.

TABLE 9001, Related Tasks (Task 73-21-04-99F-801)

Task Title(s)	Task(s)
Tools, Fixtures, Equipment and Consumables	Task 73-10-05-99E-801

SPECIAL TOOLS, FIXTURES, EQUIPMENT AND CONSUMABLES

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SPECIAL TOOLS, FIXTURES, EQUIPMENT AND CONSUMABLES

Task 73-10-05-99E-801

2. Special Tools, Fixtures, Equipment and Consumables

A. General/Introduction

- (1) This task contains all the data for all the tools, fixtures, equipment and consumables needed to do all the tasks for the Fuel Manifold Adapter Assembly.
- (2) All persons who do tasks from this manual must read and understand the procedures given in the PWA Standard Practices Manual (SPM), P/N 585005.
- (3) In the text, the consumables include a PWC item number: for example, PWC03-002. For more data, refer to the PWC Consumable Materials List (CML), P/N 3043340.
- (4) Refer to Table 9002, Related Subtasks for the subtask you need.

TABLE 9002, Related Subtask(s) (Task 73-10-05-99E-801)

Subtask(s)	Subtask(s) Number
Consumables	Subtask 73-10-05-94A-006
Special Tools/Non Standard Tools	Subtask 73-10-05-94B-004
Fixtures/Test Equipment	Subtask 73-10-05-94C-005
Standard Tools	Subtask 73-10-05-94D-003
Slave Parts	Subtask 73-10-05-99A-002
References	Subtask 73-10-05-99E-007

SPECIAL TOOLS, FIXTURES, EQUIPMENT AND CONSUMABLES

B. Job Set-up Information

Subtask 73-10-05-94A-006

(1) Consumables

TABLE 9003, Consumables (Task 73-10-05-99E-801)

Material	Source (CML Code)	
Oil, Engine Lubricating	Local Purchase (A0001)	
Fluid, Calibrating MIL-PRF-7024 Type II		
Oil, Engine Lubricating Mobil D. T. E. Oil Light		
Bag, polyethylene (Size as Required)		
Cloth, Crocus		
Water, Distilled, Deionized or Demineralized		
Oil, Releasing		
Abrasive, Flexible Stone		
Paper, Industrial Tissue, Wiping (Kimwipes)	Kimberly-Clark Corp. (33591)	
General Purpose Soap (Dirl Lum 603)	Local Purchase (A0001) or Blue Wave Ultrasonics (0UU57) (http:// bluewaveinc.com)	
Isopropyl Alcohol	Local Purchase (A0001) or	
Rust Remover, Alkaline (TURCO ARR 4181L) Fed Spec TT-C-490 D	Henkel North America (84063) (http://www.henkelna.com)	
	Oil, Engine Lubricating Fluid, Calibrating MIL-PRF-7024 Type II Oil, Engine Lubricating Mobil D. T. E. Oil Light Bag, polyethylene (Size as Required) Cloth, Crocus Water, Distilled, Deionized or Demineralized Oil, Releasing Abrasive, Flexible Stone Paper, Industrial Tissue, Wiping (Kimwipes) General Purpose Soap (Dirl Lum 603) Isopropyl Alcohol Rust Remover, Alkaline (TURCO ARR 4181L)	

SPECIAL TOOLS, FIXTURES, EQUIPMENT AND CONSUMABLES

Subtask 73-10-05-94B-004

(2) Special Tools / Non Standard Tools

TABLE 9004, Special Tools / Non Standard Tools (Task 73-10-05-99E-801)

Part Number	Name	Source (CAGE Code)	
PWC70728	Crowfoot, Tip Removal and Installation	Pratt & Whitney Canada Corp. (00198)	
PWC71041	Tool, Strainer Installation		
PWC71082	Puller, Accessory (Fuel Nozzle)		
PWC72522	Holder, (Fuel Nozzle)		
None	Blades, Metal (Quantity 2)	Local Purchase or Supply	
None	Refractometer, 0-50% range	Local Purchase	
8500T14	Refractometer, hand 0-32% range solids 0.2% scale gradations	Local Purchase or McMaster Carr Supply (07BY4)	
NOTE: You can use equivalent substitutes for the tools that show in this table.			

Subtask 73-10-05-94C-005

(3) Fixtures / Test Equipment

TABLE 9005, Fixtures / Test Equipment (Task 73-10-05-99E-801)

Part Number	Name	Source (CAGE Code)
Not Applicable	Base, Fuel Nozzle Flow Test	CEL Aerospace Test Equipment Ltd. (3AS79)
PWC71086	Flow Test Fixture, Fuel Nozzle	
PWC72324	Fixture, Pressure Leak (Fuel Nozzles)	Pratt & Whitney Canada Corp. (00198)
PWC72520	Adapter, Fuel Nozzle Flow Test	

SPECIAL TOOLS, FIXTURES, EQUIPMENT AND CONSUMABLES

TABLE 9005, Fixtures / Test Equipment (Cont'd) (Task 73-10-05-99E-801)

Part Number	Name	Source (CAGE Code)	
Not Applicable	Ultrasonic Cleaner, 25-40 kHz		
	Corrosion Resistant, Sectioned, Steel Wire Mesh Baskets, designed for use in ultrasonics.	Local Purchase	
4	Microscope, 10X Power with Illumination		
	0.3125-32 UNJEF-3A Die		
	0.3125-32 UNJEF-3B Tap		
Not Applicable	Support, Fuel Adapter Housing	Local Manufacture	
CEL 30119-1	Master Orifice Set	CEL Aerospace Test	
CEL 30119-2	Optical Telescope	Equipment Ltd. (3AS79)	
CEL 50200-2	Test Stand		
NOTE: You can use equivalent substitutes for the Fixtures/Test equipment that show in this table.			
NOTE: When you do a check, use the microscope at 10X power maximum unless specified otherwise.			

Subtask 73-10-05-94D-003

(4) Standard Tools

TABLE 9006, Standard Tools (Task 73-10-05-99E-801)

Part Number	Name	Source (CAGE Code)	
GA 55-1	Brush, Nylon Bristle	Local Purchase	
Not Applicable	Scribe, Plastic		
NOTE: You can use equivalent substitutes for the tools that show in this table.			

Subtask 73-10-05-99A-002

(5) Slave Parts

TABLE 9007, Slave Parts (Task 73-10-05-99E-801)

Item Number	Material	Source (CAGE Code)
AS3209-13	Packing	Pratt & Whitney Canada Corp. (00198)

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SPECIAL TOOLS, FIXTURES, EQUIPMENT AND CONSUMABLES

TABLE 9007, Slave Parts (Cont'd) (Task 73-10-05-99E-801)

Item Num	nber	Material	Source (CAGE Code)
NOTE:	You can u	se equivalent substitu	utes for the tools that show in this table.

Subtask 73-10-05-99E-007

(6) References

TABLE 9008, References (Task 73-10-05-99E-801)

Reference	Manual Part Number	
PWC Consumable Materials List (CML)	3043340	

ILLUSTRATED PARTS LIST

Task 73-10-05-950-801

- 1. Introduction
 - A. General
 - (1) The purpose of this Illustrated Parts List is to enable the user to identify the available parts of the assembly. The assembly carries a part number indicated on the title page of this manual and a serial number engraved on the assembly.
 - (2) If the part number is known, refer to the Detailed Parts List and locate the part number in the Part Number Column. The appropriate figure and item number will be found opposite to the part number. Turn to the indicated figure and confirm that a like part is illustrated with the proper item number. The text will then give the nomenclature of the part against the item number.
 - (3) If part number is not known, locate the part on the illustration. Note the item number for the part and refer to the Detailed Parts List, where details of the item will be found.
 - B. Equipment Designator Index
 - (1) Not Applicable.
 - C. Numerical Index
 - (1) Not Applicable.
 - D. Alternate Vendor Index
 - (1) Not Applicable.
 - E. Part Numbering System
 - (1) The P&WC basic part numbering system consists of a numerical system of seven digits between 3000000 through 3999999. The basic part numbers may have letters and numbers to show parts available in a range of classes, and/or oversize-undersize dimensions. Dash numbers for each part number starts at -01, and up to -99. The complete number must be stated on procurement documentation to make sure the correct part is supplied. No special numbering system is used. Numbers are given to assemblies, subassemblies and details as needed.
 - (2) The indentation system used in this Illustrated Parts List shows the item relationship. For an item, the indentation code shows an assembly or installation assembly in the left position, continuing down into succeeding columns until the end detail as follows:

1 2 3 4 5 6 7

Assembly or Group Descriptive Title

- Detail Parts
- Assembly
- Attaching Parts Assembly
- - Detail Part for Assembly
- - Sub-Assembly
- Attaching Parts For Sub-Assembly
- - Detail Parts For Sub-Assembly
- - Sub-Assembly
- - Attaching Parts For Sub-Assembly
- - Detail Parts for Sub-Assembly

ILLUSTRATED PARTS LIST

- (3) There is a Detailed Parts List for each section shown in the List of Chapter/Section/Subjects and there is a Table of Contents in front of each Detailed Parts List. Each Detailed Parts List is divided into six columns, as follows:
 - Figure/Item
 - Part Number
 - Airline Part Number
 - Nomenclature
 - Effectivity Code
 - Units per Assembly
 - a "-" in front of an item number tells the user the item is not shown in the figure.

F. Effectivity

(1) The Effectivity Code column establishes parts relationship with units or assemblies that are essentially the same but have small variations. These units or assemblies are the lead items on the Detailed Parts List. These items or assemblies shall be assigned reference letters such as A, B, C, D, etc. Parts that are not common to all configurations but are associated with one or more of the coded items shall carry the letter or letters assigned to the lead item with which it is associated. When a part is common to all lead items, the effectivity column is blank.

G. Units Per Assembly

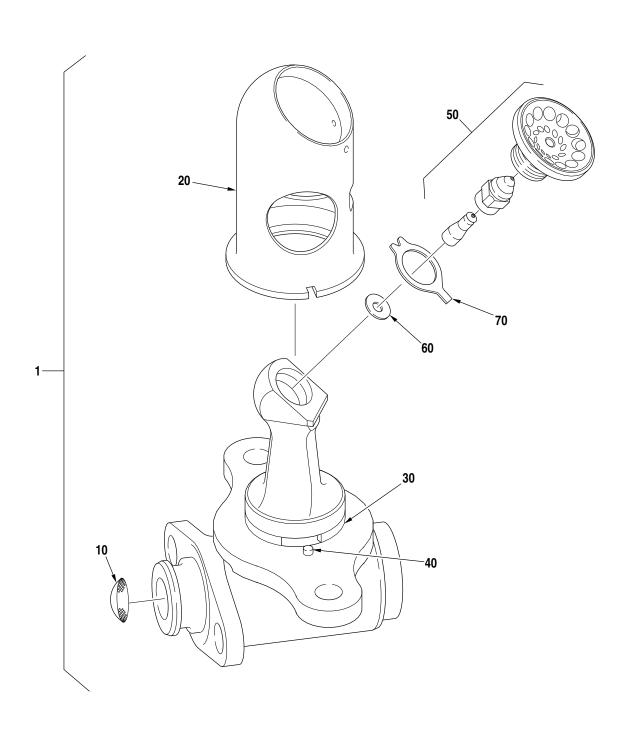
- (1) The quantity shown in the "Units Per Assy" column is the total quantity per assembly; the quantity of each detail part and/or subassembly indented under an assembly is the quantity used per assembly. For bulk items the letters "A/R" are inserted into the Units Per Assembly column to indicate "as required." Where items are listed for reference purposes, "REF" is shown in the column.
- H. List of Applicable Part Numbers and Figures

TABLE 10001, Applicable Part Numbers and Figures (Task 73-10-05-950-801)

Fuel Nozzle Adapter Assembly Part Number	Applicable Figure Number and Configuration
3058617-01	Configurations A01 and A02
3073976-01	(Refer to Figure 1)
3058932-01	Configurations B01, B02 and B03
3059126-01	(Refer to Figure 2)
3073974-01	

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ILLUSTRATED PARTS LIST



ICN-00198-G000011501-001-01

Fuel Nozzle Adapter Assembly - Configs A01 and A02 Figure 1

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ILLUSTRATED PARTS LIST

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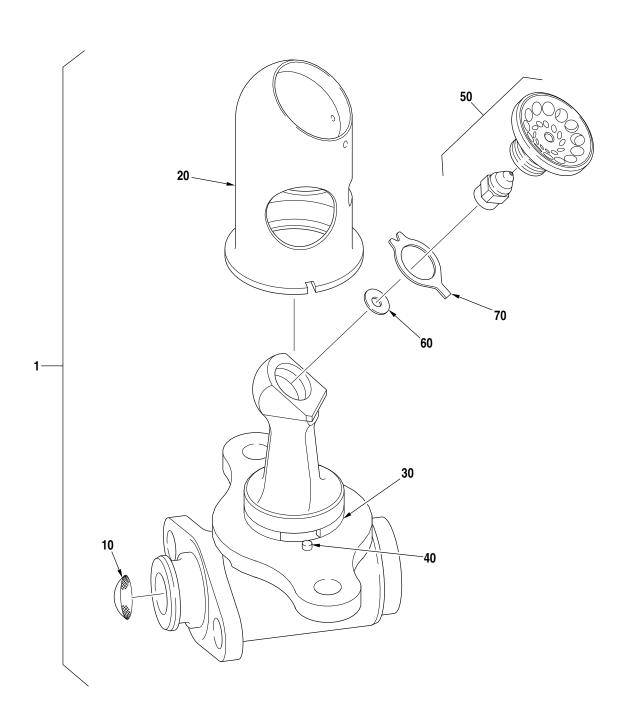
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ILLUSTRATED PARTS LIST

FIG	ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	EFF CODE	UNIT PER ASSY
1	1	3058617-01		NOZZLE FUEL, ADAPTER AND STEM PRE-3053386-73-01	A01	REF
	-1 A	3073976-01		NOZZLE FUEL, ADAPTER AND STEM POST-3053386-73-01	A02	REF
	10	3057373-01		.STRAINER, FUEL NOZZLE	ALL	1
	20	3057297-01		.SHEATH, FUEL NOZZLE	ALL	1
	30	3057378-01		.RING, FUEL NOZZLE	ALL	1
	40	AS9389-01		.PIN STRAIGHT 0.0625 X 0.125	ALL	1
	50	3058060-01		.NOZZLE, FUEL (PART OF 3058617-01) PRE-CSB 3053386-73-01	A01	NP
	-50A	3073977-01		.NOZZLE, FUEL (PART OF 3073976-01) POST-CSB 3053386-73-01	A02	NP
	60	3058337		.GASKET (IC), (CONSISTS OF OPTIONS 3039636, 3058335-01)	ALL	1
	-70	3058336-01		WASHER, KEY, FUEL NOZZLE, (IC) (CONSISTS OF OPTIONS 3058334-01, 3023995) (PART OF 3058932-01, 3058617-01) PRE-CSB 3053386-73-01	в01	1
	-70A	3119854-01		WASHER, KEY, FUEL NOZZLE (SEALING), (PART OF 3059126-01, 3073974-01) POST-CSB 3053386-73-01	ALL	1

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ILLUSTRATED PARTS LIST



ICN-00198-G000011502-001-01

Fuel Nozzle Adapter Assembly - Configs B01, B02 and B03 Figure 2

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ILLUSTRATED PARTS LIST

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ILLUSTRATED PARTS LIST

FIG	ITEM	PART NUMBER	AIRLINE STOCK NUMBER	NOMENCLATURE 1234567	EFF CODE	UNIT PER ASSY
2	-1	3059126-01		NOZZLE FUEL, ADAPTER AND STEM PRE-CSB 3053386-73-01	в01	REF
	-1 A	3073974-01		NOZZLE FUEL, ADAPTER AND STEM POST-CSB 3053386-73-01	в02	REF
	1B	3058932-01		NOZZLE FUEL, ADAPTER AND STEM	в03	REF
	10	3057373-01		.STRAINER, FUEL NOZZLE	ALL	1
	20	3057297-01		.SHEATH, FUEL NOZZLE	ALL	1
	30	3057378-01		.RING, FUEL NOZZLE	ALL	1
	40	AS9389-01		.PIN STRAIGHT 0.0625 X 0.125	ALL	1
	50	3058965-01		.NOZZLE, FUEL (PART OF 3058932-01)	в01	NP
	-50A	3059722-01		.NOZZLE, FUEL (PART OF 3059126-01) PRE-CSB 3053386-73-01	в01	NP
	-50B	3073975-01		.NOZZLE, FUEL (PART OF 3073974-01) POST-CSB 3053386-73-01	в02	NP
	60	3058337		.GASKET (IC), (CONSISTS OF OPTIONS 3039636, 3058335-01)	ALL	1
	70	3023995		WASHER, KEY, FUEL NOZZLE (PART OF 3058932-01)	в01	1
	-70A	3058336-01		WASHER, KEY, FUEL NOZZLE, (IC) (CONSISTS OF OPTIONS 3058334-01, 3023995) (PART OF 3058932-01) PRE-CSB 3053386-73-01	в01	1
	-70B	3119854-01		WASHER, KEY, FUEL NOZZLE (SEALING), (PART OF 3059126-01, 3073974-01) POST-CSB 3053386-73-01	ALL	1

SPECIAL PROCEDURES

NOT APPLICABLE

EFF: ALL

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REMOVAL

NOT APPLICABLE

EFF: ALL

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INSTALLATION

NOT APPLICABLE

EFF: ALL

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SERVICING

NOT APPLICABLE

EFF: ALL

73-10-05 SERVICING

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STORAGE

Task 73-10-05-99F-801

- 1. General / Introduction
 - A. This pageblock gives you the necessary data to store Fuel Nozzle Adapter Assembly. Refer to Table 15001, Related Tasks.

TABLE 15001, Related Tasks (Task 73-10-05-99F-801)

Task Title(s)	Task(s)	
Storage	Task 73-21-04-550-801	

STORAGE

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STORAGE

Task 73-10-05-550-801

2. Storage

A. General

CAUTION:

WHERE POSSIBLE, USE SURGICAL GLOVES, NON-LATEX GLOVES, OR CLEAN LINT-FREE COTTON GLOVES WHEN YOU TOUCH THE FUEL NOZZLE ASSEMBLY. YOUR FINGERPRINTS ON THE ORIFICE OF THE FUEL NOZZLE ASSEMBLY CAN AFFECT THE QUALITY OF THE SPRAY.

- (1) This task gives you the necessary data to store your Fuel Nozzle Adapter Assembly.
- (2) All persons who store the engine components must read and understand the procedures given in the PWA Standard Practices Manual (SPM), P/N 585005.
- (3) In the text, the consumables include a PWC item number: for example, PWC03-002. For more data, refer to the PWC Consumable Materials List (CML), P/N 3043340.
- B. Job Set-Up Information

Subtask 73-10-05-94A-001

(1) Consumables

TABLE 15002, Consumables (Task 73-10-05-550-801)

Item Number	Material	Source (CML Code)	
PWC03-002	Fluid, Calibrating MIL-PRF-7024 Type II		
Not Applicable	Storage Container Polypouch	Local Purchase (A0001)	
	Protective Caps Plastic		

NOTE: You can use equivalent substitutes for the consumables that show in this table.

Subtask 73-10-05-99E-001

(2) References

TABLE 15003, References (Task 73-10-05-550-801)

Reference	Manual Part Number
PWC Consumable Materials List (CML)	3043340

STORAGE

Subtask 73-10-05-550-001

(3) Procedure

WARNING: DO NOT POINT THE AIR STREAM AT YOURSELF OR TOWARD

ANOTHER PERSON.

WARNING: WEAR GOGGLES OR A FACE SHIELD TO PROTECT YOUR EYES.

(a) Use dry low-pressure filtered-shop-air at 30 psig (207 kPag) and blow excess calibration fluid from the exterior of the fuel nozzle adapter assembly, leave fluid inside for lubrication.

(b) Install protective caps and place in protective polypouch containers.

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REWORK PROCEDURES

NOT APPLICABLE

EFF: ALL

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APPENDIX

NOT APPLICABLE

EFF: ALL

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