

## WORK ORDER FORM 100

**\*60992\***

PENN YAN AERO

2499 Bath Road

Penn Yan, New York 14527

315/536-2333

FAA ID NO. Y2GR396Y

WORK ORDER #60992-24

Dept #FUEL Page NO. 1

Location FUEL

Warranty Code 00 / 0

Goodthru AD# 24-14

Customer

Cust RO# PO-

Work Req CUSTOM ASSY OVERHAUL

P/N 3015016-1R / SERVO, OVERHAUL

Step ADJUSTED PRICE. AWAIT

S/N 70AF9407

Mfg PRE05

Reason/Rm Custom overhaul

Manual#

Rev. / /

Rev#

ATA NO.:

Date Reqrd / /

Date Estmtd / /

PRELIMINARY INSPECTION:

DATE: 07/18/2024

INSPECTOR: DBERGSTRESSER

No SHIPPING DAMAGE

PRE TEST (Yes/No) N

DATE: / /

INSPECTOR:

NOT REQUIRED

HIDDEN DAMAGE:

NO HIDDEN DAMAGE

TEARDOWN FINDINGS:

Experimental fuel servo for overhaul.

TECHNICIAN:

DATE: 07/18/2024

INSPECTOR:

FINAL INSPECTION BEFORE ASSEMBLY:

DATE: 07/18/2024

INSPECTOR:

CORRECTIVE ACTION:

This experimental fuel servo has been overhauled. It has been disassembled, cleaned, inspected, reassembled and tested in accordance with data applicable to this type servo. Bench test satisfactory for installation.

TECHNICIAN:

DATE: 07/19/2024

INSPECTOR:

MODIFICATION/SERVICE BULLETINES:

No ADs are applicable at this time.

Test Data Used: Data applicable to this type servo.

Test Technician:

DATE: 07/19/2024

Inspector:

DATE: 07/19/2024

Final Inspection:

DATE: 07/19/2024

Technician:

DATE: / /

Inspector:

DATE: / /

ADDITIONAL COMMENTS:

(1)



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WORK ORDER FORM 100

\*60992\*

FAA ID NO. Y2GR396Y

WORK ORDER #60992-24

Dept #FUEL Page NO. 2

Location FUEL

Warranty Code 00 / 0

Goodthru AD# 24-14

315/536-2333

Customer [REDACTED]

Cust RO# PO-[REDACTED]

Step ADJUSTED PRICE. AWAIT

Work Req CUSTOM ASSY OVERHAUL

P/N 3015016-1R / SERVO, OVERHAUL

S/N 70AF9407

Mfg PRE05

(2)

PARTS DETAIL:

| Line# | PART NUMBER | DESCRIPTION               | CD | Qty  | Serial Number |
|-------|-------------|---------------------------|----|------|---------------|
| 1     | 2576574--F  | KIT, RSA10AD1 F SERVO (N) | NE | 1.00 |               |

WOPSTM



Need By:

WO#

60992-24

| CUSTOMER NAME: [REDACTED]     |            | DATE: 7/18/24           |      |
|-------------------------------|------------|-------------------------|------|
| ENGINE WO#: O.T.C. overhaul   |            |                         |      |
| MAKE & MODEL                  |            | SERIAL NO. 70AF9407     |      |
| PRECISION 30/50/6-1 RSA-10AD1 |            | SERVO                   |      |
| QTY.                          | PART NO.   | DESCRIPTION             | REF# |
| 1                             | 2541562--F | MIXTURE VALVE           |      |
| ①                             | 2576574--F | KIT 1062                |      |
| 1                             | 2522022--F | PIN                     |      |
| 1                             | 2522021--F | PIN                     |      |
| 1                             | 367418--F  | CLEVIS                  |      |
| 1                             | 367544--F  | CLEVIS                  |      |
| 1                             | 2523507--F | BODY, REG. CENTER       |      |
| 1                             | 367416--F  | T. SHAFT                |      |
| 1                             | MS171499   | Spring Pin              |      |
| 2                             | AV2521918  | Bushing, Throttle Shaft |      |
| 1                             | AV2525318  | Spacer                  |      |
| 1                             | 2540108    | Bushing                 |      |
| 1                             | 2576659    | KIT, Bearing            |      |
|                               |            |                         |      |
|                               |            |                         |      |

NOTES:



Date : Jul 18, 2024

Time : 14:14:04

Dept : FUEL

P/N : 3015016-1R/SERVO, OVERH

S/N : 70AF9407

PRODUCTION SHEET  
PENN YAN AERO

Work Order: 60992-24

Page No : 1

Technician :

Customer :

|                            |       |          |     |          |     |
|----------------------------|-------|----------|-----|----------|-----|
| P/N : 2576574--F           | Vend: | Qty Req: | 1.0 | Qty Rcv: |     |
| Nom : KIT, RSA10AD1 F SERV | PO# : | OpenReq: | 0.0 | Ord Rcv: | 0.0 |
| Ctrl : Y80UI3RN            | Cost: | OnOrder: | 0.0 |          |     |
|                            | Cond: | On Hand: | 0.0 |          |     |
|                            | S/N : | Locn:    | 2B  |          |     |

PRE05 /RW:N

\* CONSUMED \*

Alt: AVK-10AD1

Manager's Signature

Date



SHims - .072"  
TRAVEL - .031"  
PreFlow - 6.5 PPH  
IN. OUT - 1/4 + 1  
E.SP. - GRN  
H.SP. - WHT

I-540-K1H5 (300H.P.)  
O.T.C. OVERHAUL Servo only  
Servo is RSA-10AD1

Model EX-10VA1  
P/L# 3015016-1  
sh 70AF9407  
60992-24  
S.I.L. RS-93

TEST SPECIFICATION  
CALIBRATION LIMITS  
PRECISION AIRMOTIVE LLC - FUEL CONTROLS - MARYSVILLE, WASHINGTON

11277-02

INSTALLATION PARTS LIST: 3015016-1 MODEL: RSA-10ED1 SERIAL NUMBER: 70AF9407  
OPERATOR: DATE: 7/19/24

BASIC PARTS LISTS: 2524648 FUEL PRESSURE: 25-27 PSI FUEL SP. GRAV. @ OF

| TEST POINT NUMBER                     | 1    | 2   | 3    | 4    |
|---------------------------------------|------|-----|------|------|
| METERING SUCTION<br>(INCHES OF WATER) | 0    | 0   | 3.6  | 15.8 |
| CORRESPONDING<br>AIRFLOW (LBS/HR)     | 0    | 0   | 800  | 1700 |
| MIXTURE CONTROL POSITION              | RICH | ICO | RICH | RICH |
| THROTTLE POSITION                     | W/O  | W/O | W/O  | W/O  |

FLOWMETER LIMITS

|                   |      |          |      |       |
|-------------------|------|----------|------|-------|
| MINIMUM           | 34.5 | 0        | 77.0 | 156.8 |
| OBSERVED (LBS/HR) | 41   | 0        | 80   | 162   |
| MAXIMUM           | 42.7 | 5 cc/min | 82.0 | 163.5 |

BURETTE TIME LIMITS (Using MIL-C-7024 Type II STODDARD)

|                     |      |      |      |
|---------------------|------|------|------|
| BURETTE VOLUME (cc) | 200  | 500  | 850  |
| MINIMUM             | 28.6 | 37.2 | 31.7 |
| OBSERVED (SECONDS)  |      |      |      |
| MAXIMUM             | 35.4 | 39.6 | 33.1 |

METERING HEAD AVG

|                       |   |    |    |
|-----------------------|---|----|----|
| OBSERVED (" STODDARD) | 3 | 10 | 40 |
|-----------------------|---|----|----|

PROCEDURE FOR SPLIT HEAD CHECK

1. Close throttle to .006" shim in bore.
2. Adjust idle fuel flow to 9-11 lbs/hr with wheel centered. Observe metering head. Energize boost pump to provide 35 - 40 psi. After stabilizing, fuel flow must be within  $\pm .5$  lbs/hr of value observed at specified fuel inlet pressure. Turn boost pump off.
3. Remove .006" shim.
4. Close throttle so that fuel is less than 7-8 lbs/hr. Observe metering head. Metering head shall be no more than 5" above value observed in step 2.

.006" @ 7 PPH 3.2" Fuel