

|                                                                                   |                                           |                                      |
|-----------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------|
|  | <b>REGISTRO</b><br>RECORD                 | <b>REVISÃO</b><br>REVISION <b>01</b> |
| <b>CÓDIGO   CODE</b><br>IAS-RG-0223                                               | <b>FICHA DE SERVIÇOS</b><br>Service Sheet | <b>PÁGINA</b><br>PAGE <b>1/15</b>    |

| COMPONENTE   Component | O.S   W.O | MODELO   Model               | PN | SN |
|------------------------|-----------|------------------------------|----|----|
| FUEL CONTROL UNIT      |           | DP-F2 Main Fuel Control Unit |    |    |

| IDENTIFICAÇÃO   IDENTIFICATION |                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------|
| <b>TÍTULO</b><br>TITLE         | <b>FICHA PARA REGISTROS DE TESTE DA FUEL CONTROL UNIT</b><br>FUEL CONTROL UNIT TEST SHEET |

| PUBLICAÇÃO   PUBLICATION                                 | REFERÊNCIA   REFERENCE | TLN                        | DATA   DATE                 |
|----------------------------------------------------------|------------------------|----------------------------|-----------------------------|
| COMPONENT MAINTENANCE MANUAL WITH ILLUSTRATED PARTS LIST | 73-20-22               | TLN02409                   | Jan. 23,2020<br>Revision 06 |
|                                                          |                        | CONJUNTO MAIOR   MAIN PART |                             |
|                                                          |                        | PN                         | SN                          |
|                                                          |                        |                            |                             |

| Teste Aplicável aos Part Numbers<br>Test Applicable to Part Numbers |            |                   |
|---------------------------------------------------------------------|------------|-------------------|
| 3244768-13                                                          | 3244768-14 | 3244768-14 MOD 15 |

| TESTE DA UNIDADE DE CONTROLE DE COMBUSTÍVEL   FUEL CONTROL UNIT TEST |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |              |                            |
|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|----------------------------|
| ITEM<br>Item                                                         | PROCEDIMENTOS   TOLERÂNCIAS<br>Procedures   Serviceable limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Resultado<br>Result | Data<br>Date | Executante<br>Performed by |
| A                                                                    | Instale a MFCU na bancada de teste usando o adaptador estriado e adaptador de montagem, ou equivalente.<br><i>Assemble the MFCU to the test stand, using spline adapter and mounting adapter, or equivalent.</i>                                                                                                                                                                                                                                                                                                                                                                                                          |                     |              |                            |
| B                                                                    | Remova o plug da porta e instale o acessório especial PN 2561527. Remova o plug e instale um adaptador padrão nas portas.<br><i>Remove plug from port and assemble PN 2561527 special fixture. Remove plug from port and install a standard adapter.</i>                                                                                                                                                                                                                                                                                                                                                                  |                     |              |                            |
| C                                                                    | Remova o contra pino, porca e espaçador do eixo de aceleração. Instale o quadrante de aceleração na extremidade do eixo de aceleração e torqueie de 40-45 lb.in.<br><i>Remove cotter pin, nut, and spacer from throttle shaft. Assemble throttle quadrant on end of cam shaft and tighten to 40-45 lb.in.</i>                                                                                                                                                                                                                                                                                                             |                     |              |                            |
| D                                                                    | Mantenha uma pressão Po de 30-50 psig na conexão de Po, exceto quando houver outra especificação.<br>Mantenha a pressão P2 dentro de $\pm 10$ psi do valor especificado em pressões abaixo de 200 psig e dentro de $\pm 25$ psi em pressões mais altas, usando a válvula reguladora de contrapressão Pn.<br><i>Maintain a Po pressure of 30-50 psig on Po pressure gage, except where otherwise specified.<br/>Maintain P2 pressure within <math>\pm 10</math> psi of the value specified at pressures below 200 psig and within <math>\pm 25</math> psi at higher pressures, using Pn back pressure regulator valve.</i> |                     |              |                            |
| E                                                                    | Aumente a pressão do combustível (P1) e observe o início do fluxo de combustível. Durante o teste, ajuste e mantenha a (Po) a $40 \pm 2$ psig.<br><i>Increase fuel supply pressure (P1) and observe start of fuel flow. During this test, adjust and maintain (Po) at <math>40 \pm 2</math> psig</i>                                                                                                                                                                                                                                                                                                                      |                     |              |                            |

|                                                                                   |                                     |                                           |
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|                                                                                   | <b>CÓDIGO   CODE</b><br>IAS-RG-0223 | <b>FICHA DE SERVIÇOS</b><br>Service Sheet |

| TESTE DA UNIDADE DE CONTROLE DE COMBUSTÍVEL   FUEL CONTROL UNIT TEST |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |              |                            |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|----------------------------|
| ITEM<br>Item                                                         | PROCEDIMENTOS   TOLERÂNCIAS<br>Procedures   Serviceable limits                                                                                                                                                                                                                                                                                                                                                                                           | Resultado<br>Result | Data<br>Date | Executante<br>Performed by |
| F                                                                    | Abra a shut-off valve e ajuste a pressão (Pn) para 160 psig.<br><i>Open shut-off valve and adjust (Pn) pressure to 160 psig.</i>                                                                                                                                                                                                                                                                                                                         |                     |              |                            |
| G                                                                    | Ajuste o parafuso de pressão diferencial (P1-P2) para 30-48 in.Hg. Ajuste o orifício da válvula de medição usando a chave de regulagem até a pressão diferencial e o fluxo de injeção estiverem dentro dos limites especificados.<br><i>Adjust P1-P2 pressure differential to 30 to 48 in.Hg. Adjust metering valve orifice using metering valve orifice adjustment wrench, until pressure differential and nozzle flow are within specified limits.</i> |                     |              |                            |
| H                                                                    | Defina os parâmetros conforme ponto de teste e com a vent cover removida, ajuste a porca até o fluxo de injeção ler de 9-13 pph.<br><i>Set parameters at test point and with vent cover removed, adjust nut, until nozzle flow reads 9 to 13 pph.</i>                                                                                                                                                                                                    |                     |              |                            |

### TESTE AETS 15808 | AETS 15808 TEST

|                              |          |                      |    |                              |    |
|------------------------------|----------|----------------------|----|------------------------------|----|
| <b>TEST SPECIFICATION</b>    |          | Number               |    | Rev.                         |    |
|                              |          | AETS 15808           |    | W                            |    |
|                              |          | Sheet 1 of 8         |    |                              |    |
| Orig By: G. Chan             |          | Chk By: W. H. Foster |    | Project Leader: W. H. Foster |    |
| Date:                        |          | Test Stand No.:      |    | Operator:                    |    |
| Unit: Automatic Fuel Control |          | Model: DP-F2 A-42    |    | P/N: 3244768                 |    |
| REV                          | REVISION | DATE                 | BY | W                            | W  |
| 1                            | 1        | 1                    | 1  | 1                            | 1  |
| 2                            | 2        | 2                    | 2  | 2                            | 2  |
| 3                            | 3        | 3                    | 3  | 3                            | 3  |
| 4                            | 4        | 4                    | 4  | 4                            | 4  |
| 5                            | 5        | 5                    | 5  | 5                            | 5  |
| 6                            | 6        | 6                    | 6  | 6                            | 6  |
| 7                            | 7        | 7                    | 7  | 7                            | 7  |
| 8                            | 8        | 8                    | 8  | 8                            | 8  |
| 9                            | 9        | 9                    | 9  | 9                            | 9  |
| 10                           | 10       | 10                   | 10 | 10                           | 10 |
| 11                           | 11       | 11                   | 11 | 11                           | 11 |
| 12                           | 12       | 12                   | 12 | 12                           | 12 |
| 13                           | 13       | 13                   | 13 | 13                           | 13 |
| 14                           | 14       | 14                   | 14 | 14                           | 14 |
| 15                           | 15       | 15                   | 15 | 15                           | 15 |
| 16                           | 16       | 16                   | 16 | 16                           | 16 |
| 17                           | 17       | 17                   | 17 | 17                           | 17 |
| 18                           | 18       | 18                   | 18 | 18                           | 18 |
| 19                           | 19       | 19                   | 19 | 19                           | 19 |
| 20                           | 20       | 20                   | 20 | 20                           | 20 |
| 21                           | 21       | 21                   | 21 | 21                           | 21 |
| 22                           | 22       | 22                   | 22 | 22                           | 22 |
| 23                           | 23       | 23                   | 23 | 23                           | 23 |
| 24                           | 24       | 24                   | 24 | 24                           | 24 |

A. See AEEI-48523 for location of adjustments and pressure taps.

B. (1) Install throttle quadrant fixture with a 4.0 lb. load applied to throttle lever to hold lever against maximum throttle stop.

(2) Index throttle quadrant to 93.5° T.A. Torque throttle quadrant fixture to 40-45 in.-lb.

C. Control rotation CW as viewed from control shaft end.

D. Maintain Po pressure of 30 to 50 psig at control by-pass tap, except where otherwise specified.

E. P2 shall be set within ± 10 psi of specified value at pressures below 200 psig and ± 25 psi of specified value at pressures above 200 psig.

F. Set test conditions (Speed, Supply, Pc, etc.) in the sequence indicated by numbers 1, 2, 3, etc.

(a) When two numbers are listed, set and then trim test condition in the sequence indicated.

(b) Approach all speeds, total fuel supplies, and Pc settings from a lower value, except at hysteresis points.

G. All adjustments are to be properly torqued.

Test points indicated (\*) require special attention and are to be checked below following proper torquing.

|     |                                     |    |  |                                       |
|-----|-------------------------------------|----|--|---------------------------------------|
| 1.  | Metering valve orifice torque       | 35 |  | 40 in. lbs.                           |
| 2.  | By-pass setting torque              | 25 |  | 35 in. lbs.                           |
| 3.  | Min. M.V. stop (breakaway) torque   | 4  |  | 20 in. lbs.                           |
| 4.  | Max. flow M.V. stop torque          | 20 |  | 25 in. lbs.                           |
| 5.  | Max. gov. eccentric lock-nut torque | 7  |  | 7.5 in. lbs.                          |
| 6.  | Max. throttle stop torque           | 20 |  | 25 in. lbs.                           |
| 7.  | Idle speed stop torque              | 20 |  | 25 in. lbs.                           |
| 8.  | Flow body adapter to drive body     | 20 |  | 25 in. lbs.                           |
| 9.  | Drive body adapter to drive body:   |    |  |                                       |
|     | -1 to -7 units                      | 25 |  | 30 in. lbs.- in 5 in. lbs. Increments |
|     | -8 and future units                 | 8  |  | 10 in. lbs.- in 2 in. lbs. Increments |
| 10. | Bleed torque                        | 9  |  | 11 in. lbs.                           |

|                                                                                   |                                                  |                                             |
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| <b>CÓDIGO   CODE</b><br>IAS-RG-0223                                               | <b>FICHA DE SERVIÇOS</b><br><i>Service Sheet</i> | <b>PÁGINA</b><br><i>PAGE</i> <b>3/15</b>    |

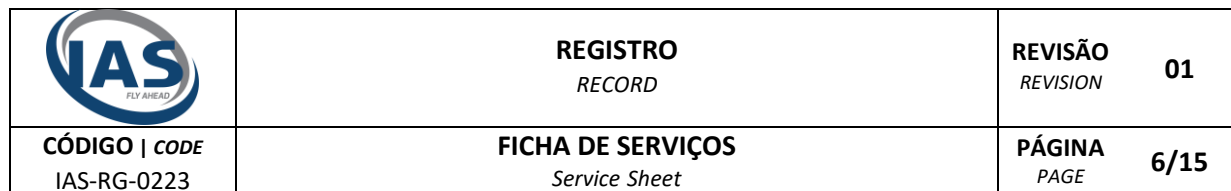
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              | <h1 style="margin: 0;">TEST<br/>SPECIFICATION</h1> |              |            |                        |                  | AETS 15808 |     |                |                        |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------|--------------|------------|------------------------|------------------|------------|-----|----------------|------------------------|-----------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |                                                    |              |            |                        |                  | SHEET<br>2 |     | SHEETS<br>of 8 |                        | REV.<br>W |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |                                                    |              |            |                        |                  |            |     |                |                        |           |
| TEST<br>POINT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SPEED<br>RPM | SUPPLY<br>PPH                                      | THRO<br>DEG. | TEMP<br>°F | P <sub>c</sub><br>psia | NOZZLE FLOW, PPH |            |     | P1-P2<br>"Hg   | P <sub>2</sub><br>psig |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |                                                    |              |            |                        | MIN              | REC        | MAX |                |                        |           |
| <p>H. Speed for test point 3.02, 4.01, 4.03, 5.01, 5.02 and 7.01 is to be set to <math>\pm 2</math> RPM of specified value. All other points are to be set within <math>\pm 20</math> PRM of specified value.</p> <p>I. Total supply is to be set to <math>\pm 20</math> PPH of the specified value or within limits when shown. When aircraft pump is used, ignore specified values of total supply and Po pressure settings, except at T.P. 1.02 and 8.02 adjust boost pressure to obtain specified Po values.</p> <p>J. Valve in spill valve outlet to be kept in closed position unless otherwise indicated.</p> <p>K. Close shutoff valve to Pn and Py gauge.</p> <p>L. Before calibration, check for external air leakage using "Lec-Tec". Slow bubbling is permitted at the joint of drive body and drive body adapter, at the torsion shaft cover and at the bellows and torsion shaft locknuts. No leakage is permitted at any other point. Pc = 100 psia. If leakage is considered excessive, measure Px-Py when Pc = 100 psia, RPM = 0, and T/A = max. Px to be measured at the bellows ratio lever cover.</p> <p>Px – Py <input style="width: 50px;" type="text"/> +1.2" Hg. Max.</p> |              |                                                    |              |            |                        |                  |            |     |                |                        |           |

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|                                                                                   | <b>CÓDIGO   CODE</b><br>IAS-RG-0223 | <b>FICHA DE SERVIÇOS</b><br>Service Sheet |

| <b>TEST SPECIFICATION</b>                                                                                                                                                                                                  |           |              |           |         |          | AETS 15808                 |                      |           |                      |                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|-----------|---------|----------|----------------------------|----------------------|-----------|----------------------|---------------------|
|                                                                                                                                                                                                                            |           |              |           |         |          | SHEET<br>3 of 8            | SHEETS<br>8          | REV.<br>W |                      |                     |
| TEST POINT                                                                                                                                                                                                                 | SPEED RPM | SUPPLY PPH   | THRO DEG. | TEMP °F | Pc psia  | NOZZLE FLOW, PPH           |                      |           | P1-P2 "Hg            | P <sub>2</sub> psig |
|                                                                                                                                                                                                                            |           |              |           |         |          | MIN                        | REC                  | MAX       |                      |                     |
| <b><u>CHECK RELIEF VALVE OPENING</u></b>                                                                                                                                                                                   |           |              |           |         |          |                            |                      |           |                      |                     |
| (a) Cap outlet port.                                                                                                                                                                                                       |           |              |           |         |          |                            |                      |           |                      |                     |
| (b) Increase fuel flow until supply is within limits specified and observe P1-Po differential.                                                                                                                             |           |              |           |         |          |                            |                      |           |                      |                     |
| (c) If P1-Po differential is out of limits, shim as required. Add shims to increase differential.                                                                                                                          |           |              |           |         |          |                            |                      |           |                      |                     |
| 1.01                                                                                                                                                                                                                       | 1<br>A.R. | 4<br>200-275 | 2<br>Max. |         | 3<br>120 |                            |                      |           |                      |                     |
|                                                                                                                                                                                                                            |           |              |           |         |          | Relief valve Opening       | P1-Po                | 1000      | <input type="text"/> | 1050 psi            |
| <b><u>CHECK PRESSURIZING VALVE OPENING</u></b>                                                                                                                                                                             |           |              |           |         |          |                            |                      |           |                      |                     |
| (a) Increase supply pressure with outlet port open, observe start of nozzle flow. During this test adjust and maintain Po at 40 ± 2 psig.                                                                                  |           |              |           |         |          |                            |                      |           |                      |                     |
| (b) If P1-Po differential is out of limits, shim as required. Add shims to increase differential.                                                                                                                          |           |              |           |         |          |                            |                      |           |                      |                     |
| 1.02                                                                                                                                                                                                                       | 1<br>A.R. | 4<br>A.R.    | 2<br>Max. |         | 3<br>120 |                            |                      |           |                      |                     |
|                                                                                                                                                                                                                            |           |              |           |         |          | Pressurizing valve opening | P1-Po                | 55        | <input type="text"/> | 68 psi              |
| If valve cover has been removed and re-assembled, torque screws to 4.5 – 5.0 in. lbs. in 1 in. lbs. increments maximum, while alternating between the screws.                                                              |           |              |           |         |          |                            |                      |           |                      |                     |
| <b><u>METERING VALVE ORIFICE AND BY-PASS HEAD (P1-P2 "HG) SETTING</u></b>                                                                                                                                                  |           |              |           |         |          |                            |                      |           |                      |                     |
| Test points 2.01 through 2.03 are 2.06 are interrelated and should be recorded after all four (4) adjustments have been made. At test points 2.01, 2.02, and 2.07 open shut-off valve to Pn Gauge. Close valve after test. |           |              |           |         |          |                            |                      |           |                      |                     |
| 2.01*                                                                                                                                                                                                                      | 2<br>6200 | 3-6<br>1300  | 1<br>Max. | -       | 4<br>40  | 243                        | <input type="text"/> | 253       | <input type="text"/> | 5                   |
|                                                                                                                                                                                                                            |           |              |           |         |          |                            |                      |           | Pn = 175 psig        |                     |
| Adjust head and orifice, P1-P2 = 30-48 in. Hg.                                                                                                                                                                             |           |              |           |         |          |                            |                      |           |                      |                     |
| 2.02*                                                                                                                                                                                                                      | 2900      | 660          | 28-30     | -       | 40       | 90                         | <input type="text"/> | 93        | <input type="text"/> |                     |
|                                                                                                                                                                                                                            |           |              |           |         |          |                            |                      |           | Pn = 35 psig         |                     |
| Set Min. M.V. stop after removing Py line.                                                                                                                                                                                 |           |              |           |         |          |                            |                      |           |                      |                     |

|                                                                                   |                                                  |                                             |
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| <b>CÓDIGO   CODE</b><br>IAS-RG-0223                                               | <b>FICHA DE SERVIÇOS</b><br><i>Service Sheet</i> | <b>PÁGINA</b><br><i>PAGE</i> <b>5/15</b>    |

| TEST POINT                                                                                                                                                                                                                                              |             | SPEED<br>RPM | SUPPLY<br>PPH | THRO<br>DEG. | TEMP<br>°F | Pc<br>psia | NOZZLE FLOW, PPH     |     |                      | P1-P2<br>"Hg | P2<br>psig |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|---------------|--------------|------------|------------|----------------------|-----|----------------------|--------------|------------|
|                                                                                                                                                                                                                                                         |             |              |               |              |            |            | MIN                  | REC | MAX                  |              |            |
|                                                                                                                                                                                                                                                         |             |              |               |              |            |            |                      |     |                      |              |            |
| <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <b>TEST<br/>SPECIFICATION</b> </div> <div style="text-align: right;"> AETS 15808<br/> SHEET 4 of SHEETS 8<br/> REV. W </div> </div> |             |              |               |              |            |            |                      |     |                      |              |            |
| 2.03*                                                                                                                                                                                                                                                   | 2<br>6200   | 3-6<br>1300  | 1<br>Max.     | -            | 4<br>90    | 547        | <input type="text"/> | 569 | <input type="text"/> | 5<br>760     |            |
| Px - Py <input type="text"/> 1.0 in. Hg. Max.                                                                                                                                                                                                           |             |              |               |              |            |            |                      |     |                      |              |            |
| If out of limits, adjust test point 4.01 and continue calibration from T.P. 2.01.                                                                                                                                                                       |             |              |               |              |            |            |                      |     |                      |              |            |
| 2.04*                                                                                                                                                                                                                                                   | 6200        | 1300         | Max.          | -            | 120        | 729        | <input type="text"/> | 759 | <input type="text"/> | 950          |            |
| 2.05*                                                                                                                                                                                                                                                   | 6200        | 1300         | Max.          | -            | 135        | 754        | <input type="text"/> | X   | <input type="text"/> | 950          |            |
| 2.06*                                                                                                                                                                                                                                                   | 6200        | 1300         | Max.          | -            | 135        | 735        | <input type="text"/> | 765 | <input type="text"/> | 950          |            |
| Set max. M.V. stop                                                                                                                                                                                                                                      |             |              |               |              |            |            |                      |     |                      |              |            |
| 2.07*                                                                                                                                                                                                                                                   | 6200        | 1300         | Max.          | -            | 40         | -10        | <input type="text"/> | +10 | <input type="text"/> |              |            |
| Pn=175 psig                                                                                                                                                                                                                                             |             |              |               |              |            |            |                      |     |                      |              |            |
| Hysteresis of T.P. 2.01.                                                                                                                                                                                                                                |             |              |               |              |            |            |                      |     |                      |              |            |
| <b><u>ENRICHMENT SPRING SETTING</u></b>                                                                                                                                                                                                                 |             |              |               |              |            |            |                      |     |                      |              |            |
| 3.01                                                                                                                                                                                                                                                    | 2-7<br>6200 | 3-6<br>1300  | 1<br>Max.     | -            | 4<br>70    | X          | <input type="text"/> | X   |                      | 5<br>480     |            |
| Record nozzle flow                                                                                                                                                                                                                                      |             |              |               |              |            |            |                      |     |                      |              |            |
| 3.02                                                                                                                                                                                                                                                    | 5950        | 1170         | Max.          | -            | 70         | -9         | <input type="text"/> | -13 |                      | 450          |            |
| Set speed enrichment -9 to -13 PPH less than 3.01 increasing spring tension (CW on Adj. nut) increases difference (decrease and reset speed after adj.)                                                                                                 |             |              |               |              |            |            |                      |     |                      |              |            |
| Px Bleed Size    49 <input type="text"/> 55                                                                                                                                                                                                             |             |              |               |              |            |            |                      |     |                      |              |            |
| 3.03                                                                                                                                                                                                                                                    | 4000        | 900          | Max.          | -            | 70         | 391        | <input type="text"/> | 407 |                      | 410          |            |
| If not in limits, select Px bleed per parts list. (Higher no. bleed reduces flow). If bleed has been changed, recheck test points 2.01 to 2.03, 2.06 and 3.01 to 3.03.                                                                                  |             |              |               |              |            |            |                      |     |                      |              |            |



## AETS 15808

SHEET 5 of 8 SHEETS

REV.  
W

| TEST<br>POINT | SPEED<br>RPM | SUPPLY<br>PPH | THRO<br>DEG. | TEMP<br>°F | Pc<br>psia | NOZZLE FLOW, PPH |     |     | P1-P2<br>"Hg | P2<br>psig |
|---------------|--------------|---------------|--------------|------------|------------|------------------|-----|-----|--------------|------------|
|               |              |               |              |            |            | MIN              | REC | MAX |              |            |

(a) Note removed

(b) Adjust eccentric shaft to meet flow limits.

(c) If unable to set with eccentric, Max. T.A. may be varied within T.A. limits.

(d) If unable to set with eccentric or Max. T.A. maintain eccentric on scribe line and determine amount of RPM off.

(e) Split control and adjust gov. spring as required. (CW adj. of gov. spring delays break approximately 1 flat on adj. nut per 50 RPM).

(f) At T.P. 4.02 adjust speed until nozzle flow is as shown. Approach from low speed.

(g) At T.P. 4.03 adjust speed until 150 RPM greater than recorded at T.P. 4.02. If nozzle flow is not in limits select Py bleed per parts list (higher number bleed to decrease flow).

(h) If bleed size change is required, re-check, T.P. 4.01 and reset if necessary.

BLEED SIZE                      58            62

(i) At T.P. 4.04 decrease speed from T.P. 4.03 until nozzle flow as shown is reached. Record speed. Speed to be less than that recorded at T.P. 4.02 by 50 RPM ( max.)

|      |           |             |                  |           |     |             |     |          |
|------|-----------|-------------|------------------|-----------|-----|-------------|-----|----------|
| 4.01 | 4<br>6487 | 3-7<br>1450 | 1<br><div></div> | 2.5<br>95 | 492 | <div></div> | 504 | 6<br>625 |
|------|-----------|-------------|------------------|-----------|-----|-------------|-----|----------|

|       |      |      |   |   |    |     |  |     |     |
|-------|------|------|---|---|----|-----|--|-----|-----|
| 4.01a | 6487 | 1450 | " | - | 95 | 485 |  | 510 | 625 |
|-------|------|------|---|---|----|-----|--|-----|-----|

|      |  |      |   |   |    |     |     |
|------|--|------|---|---|----|-----|-----|
| 4.02 |  | 1450 | " | - | 95 | 481 | 590 |
|------|--|------|---|---|----|-----|-----|

|      |  |      |   |   |    |     |  |     |     |
|------|--|------|---|---|----|-----|--|-----|-----|
| 4.03 |  | 1450 | " | - | 95 | 326 |  | 356 | 345 |
|------|--|------|---|---|----|-----|--|-----|-----|

|      |  |      |   |   |    |     |     |
|------|--|------|---|---|----|-----|-----|
| 4.04 |  | 1450 | " | - | 95 | 481 | 590 |
|------|--|------|---|---|----|-----|-----|

|      |      |      |         |    |   |  |     |               |
|------|------|------|---------|----|---|--|-----|---------------|
| 4.05 | 6487 | 1450 | 30°-35° | 95 | X |  | 235 | Pn = 160 psig |
|------|------|------|---------|----|---|--|-----|---------------|

FS.1031

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|  | <b>REGISTRO</b><br>RECORD                 | <b>REVISÃO</b><br>REVISION <b>01</b> |
| <b>CÓDIGO   CODE</b><br>IAS-RG-0223                                               | <b>FICHA DE SERVIÇOS</b><br>Service Sheet | <b>PÁGINA</b><br>PAGE <b>7/15</b>    |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              | TEST SPECIFICATION |              |            |            | AETS 15808                |                      |                      |                     |                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------|--------------|------------|------------|---------------------------|----------------------|----------------------|---------------------|------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                    |              |            |            | SHEET<br>6                | SHEETS<br>of 8       | REV.<br>W            |                     |                        |
| TEST POINT                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SPEED<br>RPM | SUPPLY<br>PPH      | THRO<br>DEG. | TEMP<br>°F | Pc<br>psia | NOZZLE FLOW, PPH          |                      |                      | P1-P2<br>"Hg        | P <sub>2</sub><br>psig |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                    |              |            |            | MIN                       | REC                  | MAX                  |                     |                        |
| <b><u>IDLE SPEED STOP SETTING AND PICK-UP ANGLE</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                    |              |            |            |                           |                      |                      |                     |                        |
| (a) At test point 5.01 insert .1875 dia. rigging pin and check T.A. If out of limits re-adjust rigging bracket position. At test point 5.02 increase T.A. until 4 pph max. fuel flow from 5.01 is observed. (T.A. where flow starts to increase is pick-up angle).                                                                                                                                                                                                                     |              |                    |              |            |            |                           |                      |                      |                     |                        |
| (b) If throttle cam pick-up angle is out of limits, replace governor spring. <ol style="list-style-type: none"> <li>1) Use a higher numbered spring to increase pick-up angle.</li> <li>2) Use a lower numbered spring to decrease pick-up angle.</li> <li>3) Adjust spring tension to same load as set on spring removed.</li> <li>4) Re-set governor break at test point 4.01 and re-run test points 4.02 to 4.03.</li> <li>5) Re-set idle stop screw at test point 5.01.</li> </ol> |              |                    |              |            |            |                           |                      |                      |                     |                        |
| 5.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4<br>3560    | 1-7<br>810         | 5<br>28-30   | -          | 2-6<br>34  | 135                       | <input type="text"/> | 145                  | 3-8<br>Pn = 52 psig |                        |
| Open shut-off valve to Pn gauge. Set idle stop screw (CW adj. to incr. flow) dec. and reset speed after adj. Throt. Cam<br>Pick-up angle.                                                                                                                                                                                                                                                                                                                                              |              |                    |              |            |            |                           |                      |                      |                     |                        |
| 5.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3560         | 810                |              |            |            |                           |                      |                      |                     |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                    |              |            |            | Idle throttle angle 35°   | <input type="text"/> | 39°                  | Remove rigging pin  |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                    |              |            |            | Spring Stripe             | <input type="text"/> |                      |                     |                        |
| <b><u>LOW END OF ACCELERATION FLOW AND THROTTLE MOVEMENT EFFECT</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                |              |                    |              |            |            |                           |                      |                      |                     |                        |
| 6.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2<br>815     | 5<br>200           | 3<br>40      | -          | 1<br>Local | 85                        | <input type="text"/> | X                    | 4-6<br>Pn = 25 psig |                        |
| 6.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1700         | 400                | 40           | -          | 25         | 138                       | <input type="text"/> | 148                  | Pn = 60 psig        |                        |
| Move T.A. to 30° <input type="text"/> 5 PPH maximum decrease                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                    |              |            |            |                           |                      |                      |                     |                        |
| (a) After recording nozzle flow at test point 6.02 move throttle to 30° T.A. Close shut-off valve to Pn gauge.<br>(b) Observe nozzle flow change and record.                                                                                                                                                                                                                                                                                                                           |              |                    |              |            |            |                           |                      |                      |                     |                        |
| <b><u>MAX. IDLE RESET STOP ADJ.</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                    |              |            |            |                           |                      |                      |                     |                        |
| 7.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1<br>4380    | 3-5<br>990         | -            | -          | 2<br>70    | 262                       | <input type="text"/> | 274                  | 4<br>Pn = 210 psig  |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                    |              |            |            | Set Max. idle reset stop. | Record T.A.          | <input type="text"/> |                     |                        |

|                                                                                   |                                     |                                           |
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|  | <b>REGISTRO</b><br>RECORD           | <b>REVISÃO</b><br>REVISION <b>01</b>      |
|                                                                                   | <b>CÓDIGO   CODE</b><br>IAS-RG-0223 | <b>FICHA DE SERVIÇOS</b><br>Service Sheet |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              | <b>TEST<br/>SPECIFICATION</b> |              |            |            | AETS 15808                                          |                      |             |                      |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------|--------------|------------|------------|-----------------------------------------------------|----------------------|-------------|----------------------|------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                               |              |            |            | SHEET 7 of SHEETS 8                                 |                      | REV.<br>W   |                      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                               |              |            |            |                                                     |                      |             |                      |            |
| TEST<br>POINT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SPEED<br>RPM | SUPPLY<br>PPH                 | THRO<br>DEG. | TEMP<br>°F | Pc<br>psia | NOZZLE FLOW, PPH                                    |                      |             | P1-P2<br>"Hg         | P2<br>psig |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                               |              |            |            | MIN                                                 | REC                  | MAX         |                      |            |
| <b>CUT-OFF MODULATION AND CUT-OFF LEAKAGE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                               |              |            |            |                                                     |                      |             |                      |            |
| <p>A) At test point 8.01 set test condition with 20° T.A.</p> <p>(a) Move thro. to 30° T.A. and observe nozzle flow change.</p> <p>(b) If nozzle flow change is excessive –</p> <ol style="list-style-type: none"> <li>1) Reset thro. to 20° T.A.</li> <li>2) Back off override adj. nut on cut-off link.</li> <li>3) Adjust cut-off link longer to meet max. flow change limit.</li> <li>4) Open shut-off valve to Pn Gauge. Close valve after test.</li> </ol>                                                                                                                                                                                                                                                                                                                             |              |                               |              |            |            |                                                     |                      |             |                      |            |
| 8.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2000         | 500                           | 20           | -          | A.R.       | 160                                                 | <input type="text"/> | 170         | <input type="text"/> |            |
| Pn = 60 psig<br>Nozzle flow change <input type="text"/> 2 PPH max.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                               |              |            |            |                                                     |                      |             |                      |            |
| <p>B) At test point 8.02 check cut-off leakage.</p> <p>(a) Remove nozzle outlet line from control.</p> <p>(b) Set total supply with throttle in cut-off position. (Highest T.A. position where no leakage is observed at outlet fitting).</p> <p>(c) Increase T.A. to permit flow out the outlet fitting, and adjust Po pressure to 40 ± 2 psig.</p> <p>(d) Decrease T.A. as required until no leakage is observed at outlet fitting (Observe T.A.).</p> <p>(e) If T.A. is out of limits, shim-cut-off valve seat.</p> <p>(f) Remove shims under C.O. valve seat to increase T.A. (.002" thickness shim changes T.A. approx. 2°).</p> <p>(g) Same Pc as established for T.P. 8.01.</p> <p>(h) Record cut-off leakage.</p> <p>(i) Record P1.</p> <p>(j) Open valve in spill valve outlet.</p> |              |                               |              |            |            |                                                     |                      |             |                      |            |
| 8.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2000         | 500                           | 8-10         | -          | A.R.       | 0                                                   | <input type="text"/> | 0.5 cc/MIN. | <input type="text"/> |            |
| P1 pressure <input type="text"/> 250 PSIG Max.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                               |              |            |            |                                                     |                      |             |                      |            |
| <p>C) At test point 8.03 (-5° T.A.)</p> <p>(a) Observe P1 pressure.</p> <p>(b) Adjust override nut .000" clearance between nut and bushing.</p> <p>(c) Adjust upper lever (idle reset lever) stop to just contact lever.</p> <p>(d) At 0° T.A. lower C.O. lever to be within ± 5° of horizontal.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                               |              |            |            |                                                     |                      |             |                      |            |
| At test point 9.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                               |              |            |            |                                                     |                      |             |                      |            |
| <p>(a) Operate throttle lever over full range of travel.</p> <p>(b) Record throttle torque.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                               |              |            |            |                                                     |                      |             |                      |            |
| 8.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2000         | 500                           | 1<br>-5      | -          | 4<br>A.R.  | P1 pressure equal to or less than T.P. 8.02         |                      |             |                      |            |
| 8.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2000         | 500                           | Min-Max-Min. |            | Local      | Throttle torque <input type="text"/> 15 in-lb. max. |                      |             |                      |            |

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|  | <b>REGISTRO</b><br>RECORD           | <b>REVISÃO</b><br>REVISION <b>01</b>      |
|                                                                                   | <b>CÓDIGO   CODE</b><br>IAS-RG-0223 | <b>FICHA DE SERVIÇOS</b><br>Service Sheet |

|                                                                                                                                                                                                                           |                            | <b>TEST SPECIFICATION</b> |           |         |                                                          | AETS 15808                                                                                                                                                                                             |                      |            |           |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------|-----------|---------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------|-----------|---------------------|
|                                                                                                                                                                                                                           |                            |                           |           |         |                                                          | SHEET<br>8                                                                                                                                                                                             | SHEETS<br>of 8       | REV.<br>W  |           |                     |
| TEST POINT                                                                                                                                                                                                                | SPEED RPM                  | SUPPLY PPH                | THRO DEG. | TEMP °F | Pc psia                                                  | NOZZLE FLOW, PPH                                                                                                                                                                                       |                      |            | P1-P2 "Hg | P <sub>2</sub> psig |
|                                                                                                                                                                                                                           |                            |                           |           |         |                                                          | MIN                                                                                                                                                                                                    | REC                  | MAX        |           |                     |
| 8.05                                                                                                                                                                                                                      | 2000                       | 500                       | 8-10      |         | Local                                                    | 0                                                                                                                                                                                                      | <input type="text"/> | 20 cc/min. |           | 250 psig            |
|                                                                                                                                                                                                                           |                            |                           |           |         |                                                          | P1 pressure max. <input type="text"/>                                                                                                                                                                  |                      |            |           |                     |
| 8.06                                                                                                                                                                                                                      | 6487                       | 1450                      | Max.      | -       | 135                                                      | Reconnect nozzle outlet. Set condition lever to -5°, distance between centers of idle reset lever shaft and max. idle reset link must be 0.30 Min. <input type="text"/> X Nozzle flow less than 85 PPH |                      |            |           |                     |
|                                                                                                                                                                                                                           |                            |                           |           |         |                                                          | O.K. <input type="text"/> Reject                                                                                                                                                                       |                      |            |           |                     |
| NOTE: Readjust Po to 40 psig.                                                                                                                                                                                             |                            |                           |           |         |                                                          |                                                                                                                                                                                                        |                      |            |           |                     |
| 9.01                                                                                                                                                                                                                      | 1530                       | 370                       | 28-30     |         | 1.0                                                      | X                                                                                                                                                                                                      | <input type="text"/> | X          |           |                     |
| Open shut-off valves to Pn and Py gauges. Set Pn to 32 psig. Valve in spill valve line closed.                                                                                                                            |                            |                           |           |         |                                                          |                                                                                                                                                                                                        |                      |            |           |                     |
| 9.02                                                                                                                                                                                                                      | 1530                       | 370                       | 28-30     |         | 1.0                                                      | X                                                                                                                                                                                                      | <input type="text"/> | X          |           |                     |
|                                                                                                                                                                                                                           |                            |                           |           |         |                                                          | Open spill valve outlet valve. Adjust screw so nozzle flow is within 1 PPH of T.P. 9.01 0 <input type="text"/> 1                                                                                       |                      |            |           |                     |
| 9.03                                                                                                                                                                                                                      | Check spill valve Pa port. |                           |           |         | Port may be wet but there must be no measurable leakage. |                                                                                                                                                                                                        |                      |            |           |                     |
| Note: Air pressure is Py in psig as shown in the appropriate column. Close shut-off valves to Pn and Py gauges.                                                                                                           |                            |                           |           |         |                                                          |                                                                                                                                                                                                        |                      |            |           |                     |
| <b>EXTERNAL LEAKAGE CHECK</b>                                                                                                                                                                                             |                            |                           |           |         |                                                          |                                                                                                                                                                                                        |                      |            |           |                     |
| A) Cap Po at drive flange by-pass tap.<br>B) Remove Po line to control and install Po plug.<br>C) Cap outlet port.<br>D) Set P1 pressure to 1000 psig.<br>E) Observe leakage for 2-3 minutes.<br>F) No leakage permitted. |                            |                           |           |         |                                                          |                                                                                                                                                                                                        |                      |            |           |                     |
|                                                                                                                                                                                                                           |                            |                           |           |         |                                                          | OK <input type="text"/> Reject                                                                                                                                                                         |                      |            |           |                     |



|                                                                                   |                                                  |                                             |
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|  | <b>REGISTRO</b><br><i>RECORD</i>                 | <b>REVISÃO</b><br><i>REVISION</i> <b>01</b> |
| <b>CÓDIGO   CODE</b><br>IAS-RG-0223                                               | <b>FICHA DE SERVIÇOS</b><br><i>Service Sheet</i> | <b>PÁGINA</b><br><i>PAGE</i> <b>11/15</b>   |

|                                                                                                                                          |              | TEST SPECIFICATION |              |            |                                    |                  | AETS 15809           |                      |                                       | REV.<br>R             |                                           |
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|                                                                                                                                          |              |                    |              |            |                                    |                  | SHEET<br>2           | SHEETS<br>of 6       |                                       |                       |                                           |
| TEST POINT                                                                                                                               | SPEED<br>RPM | SUPPLY<br>PPH      | THRO<br>DEG. | TEMP<br>°F | Pc<br>psia                         | NOZZLE FLOW, PPH |                      |                      | P <sub>1</sub> -P <sub>2</sub><br>"Hg | P <sub>2</sub><br>psi |                                           |
|                                                                                                                                          |              |                    |              |            |                                    | MIN              | REC                  | MAX                  |                                       |                       |                                           |
| <b><u>CHECK RELIEF VALVE OPENING</u></b>                                                                                                 |              |                    |              |            |                                    |                  |                      |                      |                                       |                       |                                           |
| a) Cap outlet port.                                                                                                                      |              |                    |              |            |                                    |                  |                      |                      |                                       |                       |                                           |
| b) Increase fuel flow until fuel supply is within limits specified and observe P1-Po differential.                                       |              |                    |              |            |                                    |                  |                      |                      |                                       |                       |                                           |
| 1.01                                                                                                                                     | 1<br>A.R.    | 4<br>200-275       | 2<br>MAX     |            | 3<br>120                           |                  |                      |                      |                                       |                       |                                           |
|                                                                                                                                          |              |                    |              |            | Relief valve opening               | P1-Po            | 1000                 | <input type="text"/> | 1050 psi                              |                       |                                           |
| <b><u>CHECK PRESSURIZING VALVE OPENING</u></b>                                                                                           |              |                    |              |            |                                    |                  |                      |                      |                                       |                       |                                           |
| a) Increase supply pressure with outlet port open, observe start of nozzle flow. During this test adjust and maintain Po at 40 ± 2 PSIG. |              |                    |              |            |                                    |                  |                      |                      |                                       |                       |                                           |
| 1.02                                                                                                                                     | 1<br>A.R.    | 4<br>A.R.          | 2<br>MAX     |            | 3<br>120                           |                  |                      |                      |                                       |                       |                                           |
|                                                                                                                                          |              |                    |              |            | Pressurizing valve opening P1 – Po | 55               | <input type="text"/> | 68 PSI               |                                       |                       |                                           |
| <b><u>METERING VALVE ORIFICE AND BYPASS HEAD (P1 – P2 "HG) SETTING</u></b>                                                               |              |                    |              |            |                                    |                  |                      |                      |                                       |                       |                                           |
| <i>Note:</i> At test points 2.01, 2.02 & 2.05 open shut – off valve to Pn gauge. Close valve after test.                                 |              |                    |              |            |                                    |                  |                      |                      |                                       |                       |                                           |
| 2.01                                                                                                                                     | 2<br>6200    | 3-6<br>1300        | 1<br>Max     |            | 4<br>40.0                          | 241              | <input type="text"/> | 255                  | <input type="text"/>                  | 5                     |                                           |
|                                                                                                                                          |              |                    |              |            | P1 – P2 = 30 – 48 "HG              |                  |                      |                      |                                       |                       | Pn=175 psig                               |
| 2.02                                                                                                                                     | 2900         | 660                | 28-30        |            | 40.0                               | 88               | <input type="text"/> | 93                   | <input type="text"/>                  |                       |                                           |
|                                                                                                                                          |              |                    |              |            |                                    |                  |                      |                      |                                       |                       | Pn=35 psig. Remove Py line                |
| 2.03                                                                                                                                     | 6200         | 1300               | Max          |            | 90                                 | 541              | <input type="text"/> | 575                  | <input type="text"/>                  | 760                   |                                           |
|                                                                                                                                          |              |                    |              |            |                                    |                  |                      |                      |                                       |                       | Px – Py <input type="text"/> 1.0" HG max. |
| 2.04                                                                                                                                     | 6200         | 1300               | Max          |            | 135                                | 730              | <input type="text"/> | 770                  | <input type="text"/>                  | 950                   |                                           |
|                                                                                                                                          |              |                    |              |            |                                    |                  |                      |                      |                                       |                       | Max. M.V. Flow                            |
| 2.05                                                                                                                                     | 6200         | 1300               | Max          |            | 40.0                               | -10              | <input type="text"/> | +10                  | <input type="text"/>                  |                       |                                           |
|                                                                                                                                          |              |                    |              |            |                                    |                  |                      |                      |                                       |                       | Pn=175 psig. Hysteresis of T.P. 2.01      |

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|  | <b>REGISTRO</b><br><i>RECORD</i>                 | <b>REVISÃO</b><br><i>REVISION</i> <b>01</b> |
| <b>CÓDIGO   CODE</b><br>IAS-RG-0223                                               | <b>FICHA DE SERVIÇOS</b><br><i>Service Sheet</i> | <b>PÁGINA</b><br><i>PAGE</i> <b>12/15</b>   |

| TEST POINT                                    |                      | SPEED<br>RPM | SUPPLY<br>PPH             | THRO<br>DEG. | TEMP<br>°F | Pc<br>psia           | NOZZLE FLOW, PPH     |                                         |     | P <sub>1</sub> -P <sub>2</sub><br>"Hg | P <sub>2</sub><br>psi |
|-----------------------------------------------|----------------------|--------------|---------------------------|--------------|------------|----------------------|----------------------|-----------------------------------------|-----|---------------------------------------|-----------------------|
|                                               |                      |              |                           |              |            |                      | MIN                  | REC                                     | MAX |                                       |                       |
|                                               |                      |              |                           |              |            |                      | AETS 15809           |                                         |     |                                       |                       |
| <b>TEST SPECIFICATION</b>                     |                      |              |                           |              |            | SHEET 3 of 6         |                      | SHEETS 6                                |     | REV. R                                |                       |
| <b><u>ENRICHMENT SPRING SETTING</u></b>       |                      |              |                           |              |            |                      |                      |                                         |     |                                       |                       |
|                                               | 2-7                  | 3-6          | 1                         |              | 4          |                      |                      |                                         |     |                                       | 5                     |
| 3.01                                          | 6200                 | 1300         | Max.                      |              | 70         | X                    | <input type="text"/> | X                                       |     |                                       | 480                   |
| Record nozzle flow                            |                      |              |                           |              |            |                      |                      |                                         |     |                                       |                       |
| 3.02                                          | 5950                 | 1170         | Max.                      |              | 70         | -7                   | <input type="text"/> | -15                                     |     |                                       | 450                   |
| Nozzle flow to be 7 to 15 PPH less than 3.01  |                      |              |                           |              |            |                      |                      |                                         |     |                                       |                       |
| 3.03                                          | 4000                 | 900          | Max.                      |              | 70         | 387                  | <input type="text"/> | 411                                     |     |                                       | 410                   |
| <b><u>MAX. GOVERNOR SPRING SETTING</u></b>    |                      |              |                           |              |            |                      |                      |                                         |     |                                       |                       |
| Adjust max. gov. stop screw to 92.5° to 94.5° |                      |              |                           |              |            |                      |                      |                                         |     |                                       |                       |
| 4.01                                          | 4<br>6487            | 3-7<br>1450  | 1<br><input type="text"/> |              | 2-5<br>95  | 473                  | <input type="text"/> | 523                                     |     |                                       | 6<br>625              |
| 4.02                                          | <input type="text"/> | 1450         | "                         |              | 95         |                      | 481                  |                                         |     |                                       | 590                   |
| 4.03                                          | <input type="text"/> | 1450         | "                         |              | 95         | 321                  | <input type="text"/> | 381                                     |     |                                       | Record speed<br>345   |
| Adj. Speed 150 RPM greater than T.P. 4.02     |                      |              |                           |              |            |                      |                      |                                         |     |                                       |                       |
| 4.04                                          | <input type="text"/> | 1450         | "                         |              | 95         |                      | 481                  |                                         |     |                                       | 590                   |
|                                               |                      |              |                           |              | X          | <input type="text"/> | X                    | Hysteresis – 50 RPM (Max. of T.P. 4.02) |     |                                       |                       |
| 4.05                                          | 6487                 | 1450         | 30°-35°                   |              | 95         | X                    | <input type="text"/> | 240                                     |     |                                       | Pn=160                |

|                                                                                   |                                     |                                           |
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|  | <b>REGISTRO</b><br>RECORD           | <b>REVISÃO</b><br>REVISION <b>01</b>      |
|                                                                                   | <b>CÓDIGO   CODE</b><br>IAS-RG-0223 | <b>FICHA DE SERVIÇOS</b><br>Service Sheet |

|                                                                                                                                                                                                          |           | <b>TEST SPECIFICATION</b> |            |         |            | AETS 15809       |                |           |                                    |                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------|------------|---------|------------|------------------|----------------|-----------|------------------------------------|--------------------|
|                                                                                                                                                                                                          |           |                           |            |         |            | SHEET<br>4       | SHEETS<br>of 6 | REV.<br>R |                                    |                    |
| TEST POINT                                                                                                                                                                                               | SPEED RPM | SUPPLY PPH                | THRO DEG.  | TEMP °F | Pc psia    | NOZZLE FLOW, PPH |                |           | P <sub>1</sub> -P <sub>2</sub> "Hg | P <sub>2</sub> psi |
|                                                                                                                                                                                                          |           |                           |            |         |            | MIN              | REC            | MAX       |                                    |                    |
| <b><u>IDLE SPEED STOP SETTING AND PICK-UP ANGLE</u></b>                                                                                                                                                  |           |                           |            |         |            |                  |                |           |                                    |                    |
| At test point 5.01 insert .1875 dia. Rigging pin and check T.A. at test point 5.02 increase T.A. until 4 PPH max. fuel flow from 5.01 is observed (T.A. where flow starts to increase is pick-up angle). |           |                           |            |         |            |                  |                |           |                                    |                    |
| 5.01                                                                                                                                                                                                     | 4<br>3560 | 1-7<br>810                | 5<br>28-30 |         | 2-6<br>34  | 130              |                | 150       |                                    | 3-8<br>Pn=52 psig  |
| Open shut-off valve to Pn gauge. Set idle stop screw (Cw adj. incr. flow) dec. and reset speed after adj. Throt. Cam Pick-up angle.                                                                      |           |                           |            |         |            |                  |                |           |                                    |                    |
| 5.02                                                                                                                                                                                                     | 3560      | 810                       |            |         |            |                  |                |           |                                    |                    |
| Idle throttle angle 35° <input type="text"/> 39° Remove rigging pin.                                                                                                                                     |           |                           |            |         |            |                  |                |           |                                    |                    |
| <b><u>LOW END OF ACCEL. FLOW AND THROTTLE MOVEMENT EFFECT</u></b>                                                                                                                                        |           |                           |            |         |            |                  |                |           |                                    |                    |
| 6.01                                                                                                                                                                                                     | 2<br>815  | 5<br>200                  | 3<br>40    |         | 1<br>Local | 80               |                | X         |                                    | 4-6<br>Pn=25 psig  |
| 6.02                                                                                                                                                                                                     | 1700      | 400                       | 40         |         | 25         | 136              |                | 150       |                                    | Pn=50 psig         |
| Move. T.A. to 30° <input type="text"/> 5 PPH maximum decrease                                                                                                                                            |           |                           |            |         |            |                  |                |           |                                    |                    |
| (a) After recording nozzle flow at test point 6.02 move throttle to 30 T.A. Close shut-off valve to Pn gauge.<br>(b) Observe nozzle flow change and record.                                              |           |                           |            |         |            |                  |                |           |                                    |                    |
| <b><u>MAX. IDLE RESET STOP ADJ.</u></b>                                                                                                                                                                  |           |                           |            |         |            |                  |                |           |                                    |                    |
| (a) Hold idle reset lever against idle reset stop. Record fuel flow.                                                                                                                                     |           |                           |            |         |            |                  |                |           |                                    |                    |
| 7.01                                                                                                                                                                                                     | 1<br>4380 | 3-5<br>990                |            |         | 2-4<br>70  | 258              |                | 278       |                                    | 6<br>210           |
| Record T.A. <input type="text"/>                                                                                                                                                                         |           |                           |            |         |            |                  |                |           |                                    |                    |

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|  | <b>REGISTRO</b><br>RECORD           | <b>REVISÃO</b><br>REVISION <b>01</b>      |
|                                                                                   | <b>CÓDIGO   CODE</b><br>IAS-RG-0223 | <b>FICHA DE SERVIÇOS</b><br>Service Sheet |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              | <b>TEST<br/>SPECIFICATION</b> |              |            |            | AETS 15809                                                                                                                 |                      |                  |                                       |                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------|--------------|------------|------------|----------------------------------------------------------------------------------------------------------------------------|----------------------|------------------|---------------------------------------|------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                               |              |            |            | SHEET<br>5                                                                                                                 | SHEETS<br>of 6       | REV.<br>R        |                                       |                                                |
| TEST<br>POINT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SPEED<br>RPM | SUPPLY<br>PPH                 | THRO<br>DEG. | TEMP<br>°F | Pc<br>psia | NOZZLE FLOW, PPH                                                                                                           |                      |                  | P <sub>1</sub> -P <sub>2</sub><br>"Hg | P <sub>2</sub><br>psi                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                               |              |            |            | MIN                                                                                                                        | REC                  | MAX              |                                       |                                                |
| <b><u>CUT-OFF MODULATION AND CUT-OFF LEAKAGE</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |                               |              |            |            |                                                                                                                            |                      |                  |                                       |                                                |
| A. At test point 8.01, set test condition with 20° T.A.<br>(a) Move throttle to 30° T.A. and observe nozzle flow change.                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                               |              |            |            |                                                                                                                            |                      |                  |                                       |                                                |
| 8.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2<br>2000    | 3-6<br>500                    | 1<br>20      |            | 4<br>A.R.  | 160                                                                                                                        | <input type="text"/> | 170              | <input type="text"/>                  | 5-7<br>Pn=60 psig                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                               |              |            |            | Open shut-off valve to Pn gauge.<br>Nozzle flow change <input type="text"/> 2 PPH max.<br>Close shut-off valve after test. |                      |                  |                                       |                                                |
| B. At test point 8.02 check cut-off leakage.<br>(a) Remove nozzle outlet line from control.<br>(b) Set total supply with throttle in cut-off position. (Highest T.A. position where no leakage is observed at outlet fitting).<br>(c) Increase T.A. to permit flow out the outlet fitting, and adjust Po pressure to 40±2 psig.<br>(d) Decrease T.A. as required until no leakage is observed at outlet fitting (Observe T.A.).<br>(e) Same Pc as established for T.P. 8.01.<br>(f) Record cut-off leakage.<br>(g) Record P1.<br>(h) Open valve in spill valve outlet. |              |                               |              |            |            |                                                                                                                            |                      |                  |                                       |                                                |
| 8.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2000         | 500                           | 8-10         |            | A.R.       | 0.0                                                                                                                        | <input type="text"/> | 0.5 cc/MIN.      | <input type="text"/>                  | P1 pressure <input type="text"/> 250 PSIG Max. |
| C. At test point 8.03 (-5° T.A.).<br>(a) Observe P1 pressure.<br><br>At test point 8.04<br>(a) Operate throttle lever over full range of travel.<br>(b) Record throttle torque.                                                                                                                                                                                                                                                                                                                                                                                        |              |                               |              |            |            |                                                                                                                            |                      |                  |                                       |                                                |
| 8.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2000         | 500                           | -5           |            | A.R.       | P1 pressure equal to or less than T.P. 8.02                                                                                |                      |                  |                                       |                                                |
| 8.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2000         |                               | Min-Max-Min  |            | Local      | Thro. Torque                                                                                                               | <input type="text"/> | 15 in. lbs. Max. |                                       |                                                |

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|  | <b>REGISTRO</b><br>RECORD           | <b>REVISÃO</b><br>REVISION <b>01</b>      |
|                                                                                   | <b>CÓDIGO   CODE</b><br>IAS-RG-0223 | <b>FICHA DE SERVIÇOS</b><br>Service Sheet |

| <h1>TEST SPECIFICATION</h1>                                                                                                                                                                                                                          |                            |            |            |         |            | AETS 15809                                               |                      |           |                                    |                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------|------------|---------|------------|----------------------------------------------------------|----------------------|-----------|------------------------------------|--------------------|
|                                                                                                                                                                                                                                                      |                            |            |            |         |            | SHEET<br>6                                               | SHEETS<br>of 6       | REV.<br>R |                                    |                    |
| TEST POINT                                                                                                                                                                                                                                           | SPEED RPM                  | SUPPLY PPH | THRO DEG.  | TEMP °F | Pc psia    | NOZZLE FLOW,PPH                                          |                      |           | P <sub>1</sub> -P <sub>2</sub> "Hg | P <sub>2</sub> psi |
|                                                                                                                                                                                                                                                      |                            |            |            |         |            | MIN                                                      | REC                  | MAX       |                                    |                    |
| D. At test point 8.05 test spill valve reverse flow leakage through its check valve.<br>(a) Remove nozzle outlet from control<br>(b) Close valve in spill valve outlet<br>(c) Adjust Po=60 psig.                                                     |                            |            |            |         |            |                                                          |                      |           |                                    |                    |
| 8.05                                                                                                                                                                                                                                                 | 2<br>2000                  | 3-6<br>500 | 1<br>8-10  |         | 4<br>Local | 0                                                        |                      |           | 20 cc/min                          | 5-7                |
| 8.06                                                                                                                                                                                                                                                 | 6487                       | 1450       | Max.       | -       | 135        |                                                          |                      |           | PI pressure 250 psig max.          |                    |
| Reconnect nozzle outlet. Set condition lever to -5°, distance between centres of idle reset lever shaft and max. idle reset link must be .30 Min. <input type="text"/> X. Nozzle flow less than 85 pph.<br>O.K. <input type="text"/> Reject          |                            |            |            |         |            |                                                          |                      |           |                                    |                    |
| NOTE: Readjust Po to 40 psig.                                                                                                                                                                                                                        |                            |            |            |         |            |                                                          |                      |           |                                    |                    |
| 9.01                                                                                                                                                                                                                                                 | 1<br>1530                  | 3<br>370   | 2<br>28-30 |         | 4<br>1.0   | X                                                        |                      | X         |                                    |                    |
| Open shut-off valves to Pn and Py gauges. Set Pn to 32 psig. Valve in spill valve line closed.                                                                                                                                                       |                            |            |            |         |            |                                                          |                      |           |                                    |                    |
| 9.02                                                                                                                                                                                                                                                 | 1530                       | 370        | 28-30      |         | 1.0        | X                                                        |                      | X         |                                    |                    |
| Open spill valve outlet valve. Nozzle flow must be within 1 PPH of T.P. 9.01 0 <input type="text"/> 1                                                                                                                                                |                            |            |            |         |            |                                                          |                      |           |                                    |                    |
| 9.03                                                                                                                                                                                                                                                 | Check spill valve Po port. |            |            |         |            | Port may be wet but there must be no measurable leakage. |                      |           |                                    |                    |
| Note: Air pressure is Py in psig as shown in the appropriate column. Close shut-off valves to Pn and Py gauges.                                                                                                                                      |                            |            |            |         |            |                                                          |                      |           |                                    |                    |
| <b>EXTERNAL LEAKAGE CHECK</b>                                                                                                                                                                                                                        |                            |            |            |         |            |                                                          |                      |           |                                    |                    |
| A. Cap Po at drive flange by-pass tap.<br>B. Remove Po line to control and install Po plug.<br>C. Cap outlet port and both spill valve ports.<br>D. Set P1 pressure to 1000 PSIG.<br>E. Observe leakage for 2-3 minutes.<br>F. No leakage permitted. |                            |            |            |         |            |                                                          |                      |           |                                    |                    |
|                                                                                                                                                                                                                                                      |                            |            |            |         |            | OK                                                       | <input type="text"/> | REJECT    |                                    |                    |

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| <b>Observações</b><br>Remarks |  |
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| <b>Aprovação</b><br>Approval | <b>Nome</b><br>Name | <b>Data</b><br>Date | <b>Assinatura</b><br>Signature |
|------------------------------|---------------------|---------------------|--------------------------------|