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|  | <b>REGISTRO</b><br>RECORD                 | <b>REVISÃO</b><br>REVISION <b>01</b> |
| <b>CODIGO   CODE</b><br>IAS-RG-0223                                               | <b>FICHA DE SERVIÇOS</b><br>Service Sheet | <b>PÁGINA</b><br>PAGE <b>1/4</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>                  | <b>FICHA PARA REGISTROS DE TESTE DA FUEL CONTROL UNIT</b> |
| TITLE                          | FUEL CONTROL UNIT TEST SHEET                              |

| PUBLICAÇÃO   PUBLICATION                                 | REFERÊNCIA   REFERENCE | TLN      | DATA   DATE                 |
|----------------------------------------------------------|------------------------|----------|-----------------------------|
| COMPONENT MAINTENANCE MANUAL WITH ILLUSTRATED PARTS LIST | 73-20-08               | TLN02349 | June 23/2020<br>Revision 14 |
| CONJUNTO MAIOR   MAIN PART                               |                        |          |                             |
|                                                          |                        | PN       | SN                          |
|                                                          |                        |          |                             |

| TESTE APPLICÁVEL AOS PART NUMBERS   TEST APPLICABLE TO PART NUMBERS |            |            |
|---------------------------------------------------------------------|------------|------------|
| 3244752-6                                                           | 3244752-7  | 3244752-8  |
| 3244752-9                                                           | 3244752-10 | 3244752-11 |

| 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 |
| <b>A</b>                                                             | Monte a FCU na bancada de teste, usando o adaptador estriado e o adaptador de montagem.<br><i>Assemble the Main Fuel Control Unit to the test stand, using spline adapter and mounting adapter, or equivalent.</i>                                                                                                                                                                                                                                                                                                                                                                                                  |                     |              |                            |
| <b>B</b>                                                             | Remova o plugue e instale o acessório especial de teste. Remova o plugue e instale um adaptador padrão nas portas.<br><i>Remove plug and assemble, special testing fixture. Remove plug and install a standard adapter into ports.</i>                                                                                                                                                                                                                                                                                                                                                                              |                     |              |                            |
| <b>C</b>                                                             | 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 and pointer on the end of throttle shaft and tighten to 40-45 lb.in.</i>                                                                                                                                                                                                                                                                                  |                     |              |                            |
| <b>D</b>                                                             | Mantenha uma pressão Po de 30-50 psig na conexão de Po, exceto quando houver outra especificação. Mantenha a pressão P2 dentro de $\pm 10$ psi do valor especificado em pressões abaixo de 200 psig e dentro de $\pm 25$ psig 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. Maintain P2 pressure within <math>\pm 10</math> psi of the value specified at pressures below 200 pph and within <math>\pm 25</math> psig at higher pressures, using Pn back pressure regulator valve.</i> |                     |              |                            |
| <b>E</b>                                                             | Ajuste o parafuso de pressão diferencial P1-P2 para uma pressão de 30 - 42 in.Hg. Ajuste o orifício da sleeve da metering valve até a pressão diferencial P1-P2 e o fluxo de injeção estarem de acordo com os limites especificados.<br><i>Adjust P1-P2 pressure differential adjustment screw for a pressure of 30 - 42 in.Hg. Adjust metering valve sleeve assembly orifice until P1-P2 pressure differential and nozzle flow are within the limits specified.</i>                                                                                                                                                |                     |              |                            |

|                                                                                   |                                                  |                                             |
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| <b>CODIGO   CODE</b><br>IAS-RG-0223                                               | <b>FICHA DE SERVIÇOS</b><br><b>Service Sheet</b> | <b>PÁGINA</b><br><b>PAGE</b> <b>2/4</b>     |

| ITEM | PROCEDIMENTOS   TOLERÂNCIAS                                                                                                                                                                                                                                                                                                                                                               | Resultado | Data | Executante   |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|--------------|
| Item | Procedures   Serviceable limits                                                                                                                                                                                                                                                                                                                                                           | Result    | Date | Performed by |
| F    | Torqueie as porcas de 35-40 lb.in e 25-35 lb.in respectivamente. Registre todas as pressões diferenciais de P1-P2 e o fluxo de injeção e adicionalmente, as pressões diferenciais de Pc-Px e Px-Py.<br><i>Torque nuts to 35-40 lb.in and 25-35 lb.in respectively. Record all P1-P2 differential pressures and nozzle flows and additionally, Pc-Px and Px-Py differential pressures.</i> |           |      |              |
| G    | Ajuste a porca até que o fluxo de injeção leia 9-13 pph.<br><i>Adjust nut until the nozzle flow reads 9-13 pph.</i>                                                                                                                                                                                                                                                                       |           |      |              |
| H    | Se o fluxo do injetor não estiver de acordo com os limites especificados, troque o fluxo de ar Py. Torqueie o fluxo de ar Py de 9 – 11 lb.in.<br><i>If the nozzle flow is not within the specified limits, change Py air flow jet. Torque air flow jet to 9 – 11 lb.in.</i>                                                                                                               |           |      |              |
| I    | Após ajustar o parafuso de ajuste da velocidade de marcha lenta, torqueie a porca de 20 – 25 lb.in.<br><i>After adjustment of idle speed adjustment screw, torque nut to 20 – 25 lb.in.</i>                                                                                                                                                                                               |           |      |              |

### CALIBRAÇÃO E LIMITAÇÕES DO TESTE | CALIBRATION AND TEST LIMITATIONS

| Calibration and Test Limitations For Units P/N 3244752-6 through 3244752-11                                            |             |                   |                       |                      |                   |                 |           |               |       |                                             |
|------------------------------------------------------------------------------------------------------------------------|-------------|-------------------|-----------------------|----------------------|-------------------|-----------------|-----------|---------------|-------|---------------------------------------------|
| TEST POINT                                                                                                             | SPEED (rpm) | FUEL SUPPLY (pph) | THROTTLE ANGLE (deg.) | Pc AIR SUPPLY (psia) | NOZZLE FLOW (pph) | P1-P2 (in. Hg.) | P2 (psig) | MISCELLANEOUS | NOTES | NOTES                                       |
| <u>Relief Valve Opening Check</u>                                                                                      |             |                   |                       |                      |                   |                 |           |               |       |                                             |
| SEQ.                                                                                                                   | 1           | 4                 | 2                     | 3                    |                   |                 |           |               |       |                                             |
| 1.01                                                                                                                   | 0           | 200/275           | MAX.                  | 120                  |                   |                 | 1000      | 1050          | 1.    | 1. Record relief valve opening pressure.    |
| <div> <div>P1-Po(psi)</div> <div>1000 <input type="text"/> 1050</div> </div>                                           |             |                   |                       |                      |                   |                 |           |               |       |                                             |
| <u>Pressurizing Valve Opening Check</u>                                                                                |             |                   |                       |                      |                   |                 |           |               |       |                                             |
| SEQ.                                                                                                                   | 1           |                   | 2                     | 3                    |                   |                 |           |               |       |                                             |
| 1.02                                                                                                                   | 0           | -                 | MAX.                  | 120                  |                   |                 | 55        | 68            | 2.    | Record pressurizing valve opening pressure. |
| <div> <div>P1-Po(psi)</div> <div>55 <input type="text"/> 68</div> </div>                                               |             |                   |                       |                      |                   |                 |           |               |       |                                             |
| <u>Metering Valve Orifice and Bypass Valve Differential Pressure Setting</u>                                           |             |                   |                       |                      |                   |                 |           |               |       |                                             |
| SEQ.                                                                                                                   | 2           | 3,6               | 1                     | 4                    |                   |                 | 5         |               |       |                                             |
| * 2.01 5800 1300 MAX. 40.0 223 <input type="text"/> 233 <input type="text"/> 160                                       |             |                   |                       |                      |                   |                 |           |               |       |                                             |
| * 2.02 2900 660 28-30 40.0 90 <input type="text"/> 93 <input type="text"/> <div>Pn 35 psig <input type="text"/></div>  |             |                   |                       |                      |                   |                 |           |               |       |                                             |
| * 2.03 5800 1300 MAX. 90.0 503 <input type="text"/> 523 <input type="text"/> 650 <div>Pc-Py <input type="text"/></div> |             |                   |                       |                      |                   |                 |           |               |       |                                             |
| * 2.04 5800 1300 MAX. 120.0 662 <input type="text"/> 705 <input type="text"/> 950                                      |             |                   |                       |                      |                   |                 |           |               |       |                                             |
| 2.05 5800 1300 MAX. 135.0 700 <input type="text"/> X <input type="text"/> 950                                          |             |                   |                       |                      |                   |                 |           |               |       |                                             |
| * 2.06 5800 1300 MAX. 135.0 578 <input type="text"/> 593 <input type="text"/> 870                                      |             |                   |                       |                      |                   |                 |           |               |       |                                             |
| 2.07 5800 1300 MAX. 40.0 -10 <input type="text"/> +10 <input type="text"/> 160                                         |             |                   |                       |                      |                   |                 |           |               |       |                                             |

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| Calibration and Test Limitations For Units P/N 3244752-6 through 3244752-11 |             |                   |                       |                      |                   |          |                 |           |                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------|-------------|-------------------|-----------------------|----------------------|-------------------|----------|-----------------|-----------|----------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TEST POINT                                                                  | SPEED (rpm) | FUEL SUPPLY (pph) | THROTTLE ANGLE (deg.) | Pc AIR SUPPLY (psia) | NOZZLE FLOW (pph) |          | P1-P2 (in. Hg.) | P2 (psig) | MISCELLANEOUS        | NOTES | NOTES                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                             |             |                   |                       |                      | Min.              | Recorded | Max.            |           |                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <u>Governor Spring Setting</u>                                              |             |                   |                       |                      |                   |          |                 |           |                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SEQ.                                                                        | 4           | 3,7               | 1                     | 2,5                  |                   |          |                 | 6         |                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 4.01                                                                        | 6360        | 1420              |                       | 95                   | 492               |          | 504             | 625       |                      | 7.    | 7. Set governor break throttle angle to between 89 and 91 degrees [gap between throttle stop (550, IPL Fig. 1) and unmachined surface of stop lever (495) must be 0.050 inch minimum (Ref. ASSEMBLY, Fig. 513)].<br><br>Record air flow jet (115, IPL Fig. 1) size finally installed (size 58D to 62D).<br><br>Hysteresis from Test Point 4.01A. Observe that speed is not more than -50 rpm of that at T.P. 4.01A and record. |
| 4.01A                                                                       |             | 1450              |                       | 95                   |                   | 481      |                 | 590       |                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 4.02                                                                        |             | 1450              |                       | 95                   | 371               |          | 391             | 410       | Bleed Size           | 8.    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 4.03                                                                        |             | 1420              |                       | 95                   |                   | 481      |                 | 590       |                      | 9.    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <u>Idle Speed Stop Setting and Throttle Pick-up Angle</u>                   |             |                   |                       |                      |                   |          |                 |           |                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SEQ.                                                                        | 3           | 1,6               | 4                     | 2,5                  |                   |          |                 |           |                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 5.01                                                                        | 3250        | 740               | 28-30                 | 30.0                 | 115               |          | 125             |           | Pn 42 psig           |       | 10.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 5.02                                                                        | 3250        | 740               |                       | 30.0                 | X                 |          | X               |           | pph Incr.            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <u>Low End Acceleration and Throttle Movement Effect</u>                    |             |                   |                       |                      |                   |          |                 |           |                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SEQ.                                                                        | 2           | 4                 | 3                     | 1                    |                   |          |                 | 4,6       |                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 6.01                                                                        | 815         | 200               | 40                    | Ambient              | 85                |          | X               |           | Pn 25 psig           |       | 11.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 6.02                                                                        | 1700        | 400               | 40                    | 25.0                 | 138               |          | 146             |           | Pn 60 psig pph Decr. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Calibration and Test Limitations For Units P/N 3244752-6 through 3244752-11 |                           |                   |                       |                      |                   |          |                 |           |                 |           |        |
|-----------------------------------------------------------------------------|---------------------------|-------------------|-----------------------|----------------------|-------------------|----------|-----------------|-----------|-----------------|-----------|--------|
| TEST POINT                                                                  | SPEED (rpm)               | FUEL SUPPLY (pph) | THROTTLE ANGLE (deg.) | Pc AIR SUPPLY (psia) | NOZZLE FLOW (pph) |          | P1-P2 (in. Hg.) | P2 (psig) | MISCELLANEOUS   | NOTES     | NOTES  |
|                                                                             |                           |                   |                       |                      | Min.              | Recorded | Max.            |           |                 |           |        |
| <u>Maximum Idle Reset Stop Adjustment</u>                                   |                           |                   |                       |                      |                   |          |                 |           |                 |           |        |
| SEQ.                                                                        | 1                         | 3,5               |                       | 2                    |                   |          |                 | 4         |                 |           |        |
| 7.01                                                                        | 4380                      | 990               |                       | 70                   | 262               |          | 274             | -         | 210             | -         | 12.    |
| <u>Cut-off Modulation and Cut-off Leakage</u>                               |                           |                   |                       |                      |                   |          |                 |           |                 |           |        |
| SEQ.                                                                        | 2                         | 3,5               | 1                     | 4                    |                   |          |                 | Pn (psig) |                 |           |        |
| 8.01                                                                        | 2000                      | 500               | 20                    | A.R.                 | 160               |          | 170             | 60        | pph Incr.       |           | 13,14. |
| 8.02                                                                        | 2000                      | 500               | 8-10                  | A.R.                 | 0                 |          | 0.5 cc/min.     | -         | P1 pressure     |           | 14,15. |
| SEQ.                                                                        | 2                         | 3,5               | 1                     | 4                    |                   |          |                 |           | P1 pressure     |           |        |
| 8.03                                                                        | 2000                      | 500               | -5                    | A.R.                 | -                 |          | -               | -         | Throttle Torque |           | 16.    |
| 8.04                                                                        | 2000                      | 500               | 0-MAX-0               | Ambient              | -                 |          | -               | -         | P1 pressure     |           | 17.    |
| 8.05                                                                        | 2000                      | 500               | 8-10                  | Ambient              | 0                 |          | 20.0 cc/min.    | -         |                 |           | 15.    |
| <u>Spill Valve Setting</u>                                                  |                           |                   |                       |                      |                   |          |                 |           |                 |           |        |
| SEQ.                                                                        | 1                         | 3                 | 2                     | 4                    |                   |          |                 |           |                 |           |        |
| 9.01                                                                        | 1530                      | 370               | 28-30                 | 1.0                  | X                 |          | X               | -         | 32              | -         | 18.    |
| 9.02                                                                        | 1530                      | 370               | 28-30                 | 1.0                  | 79                |          | 83              | -         | 25              | -         | 18.    |
| 9.03                                                                        | 2400                      | 550               | 28-30                 | 9.0                  | X                 |          | X               | -         | 60              | -         | 18.    |
| 9.04                                                                        | 2400                      | 550               | 28-30                 | 9.0                  | X                 |          | X               | -         | -               | pph Diff. | 18,19. |
| 9.05                                                                        | Check spill valve Pa port |                   |                       | -                    | -                 |          | -               | -         | OK              | REV.      | 20.    |

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