

CHAPTER

74

IGNITION

AKS



737-600/700/800/900 TASK CARDS

CHAPTER 74 IGNITION

| Subject/Page | Date | COC | Subject/Page | Date | COC | Subject/Page | Date | COC |
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| 74-EFFECTIVE PAGES | | | | | | | | |
| 1 | JUN 15/2016 | | | | | | | |
| 2 | BLANK | | | | | | | |
| 74-020-01-01 | SYS | | | | | | | |
| 1 | Oct 15/2015 | | | | | | | |
| 2 | Oct 15/2015 | | | | | | | |
| 3 | Oct 15/2015 | | | | | | | |
| 4 | Oct 15/2015 | | | | | | | |
| R 5 | Jun 15/2016 | | | | | | | |
| 74-020-02-01 | SYS | | | | | | | |
| 1 | Oct 15/2015 | | | | | | | |
| 2 | Oct 15/2015 | | | | | | | |
| 3 | Oct 15/2015 | | | | | | | |
| 4 | Oct 15/2015 | | | | | | | |
| R 5 | Jun 15/2016 | | | | | | | |

A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change

74-EFFECTIVE PAGES

D633A109-AKS

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| | | | | | |
|-----------------|--|--------------------------------|-----------------------------|--------------------------|--|
| AIRLINE CARD NO | | TITLE IGNITION LEADS | | | BOEING CARD NO. 74-020-01-01 |
| DATE | TASK INSPECTION - DETAILED | | | | RELATED CARD |
| TAIL NUMBER | WORK AREA LEFT ENGINE | VERSION 1.1 | THRESHOLD 4000 FC | REPEAT 4000 FC | APPLICABILITY AIRPLANE ALL ENGINE ALL |
| STATION | SKILL AIRPL | | | | |
| | | ACCESS 413 414 | | | ZONE 411 |
| | | | | | |

Detailed inspection of both left engine ignition leads.

A. References

| Reference | Title |
|--------------------------|--|
| AMM 71-00-00-800-811-F00 | Power Plant Test Reference Table (P/B 501) |
| AMM 71-11-02-010-801-F00 | Open the Fan Cowl Panels (P/B 201) |
| AMM 71-11-02-410-801-F00 | Close the Fan Cowl Panels (P/B 201) |
| AMM 74-21-01-000-801-F00 | Ignition Lead Removal (P/B 401) |
| AMM 74-21-01-400-801-F00 | Ignition Lead Installation (P/B 401) |

B. Consumable Materials

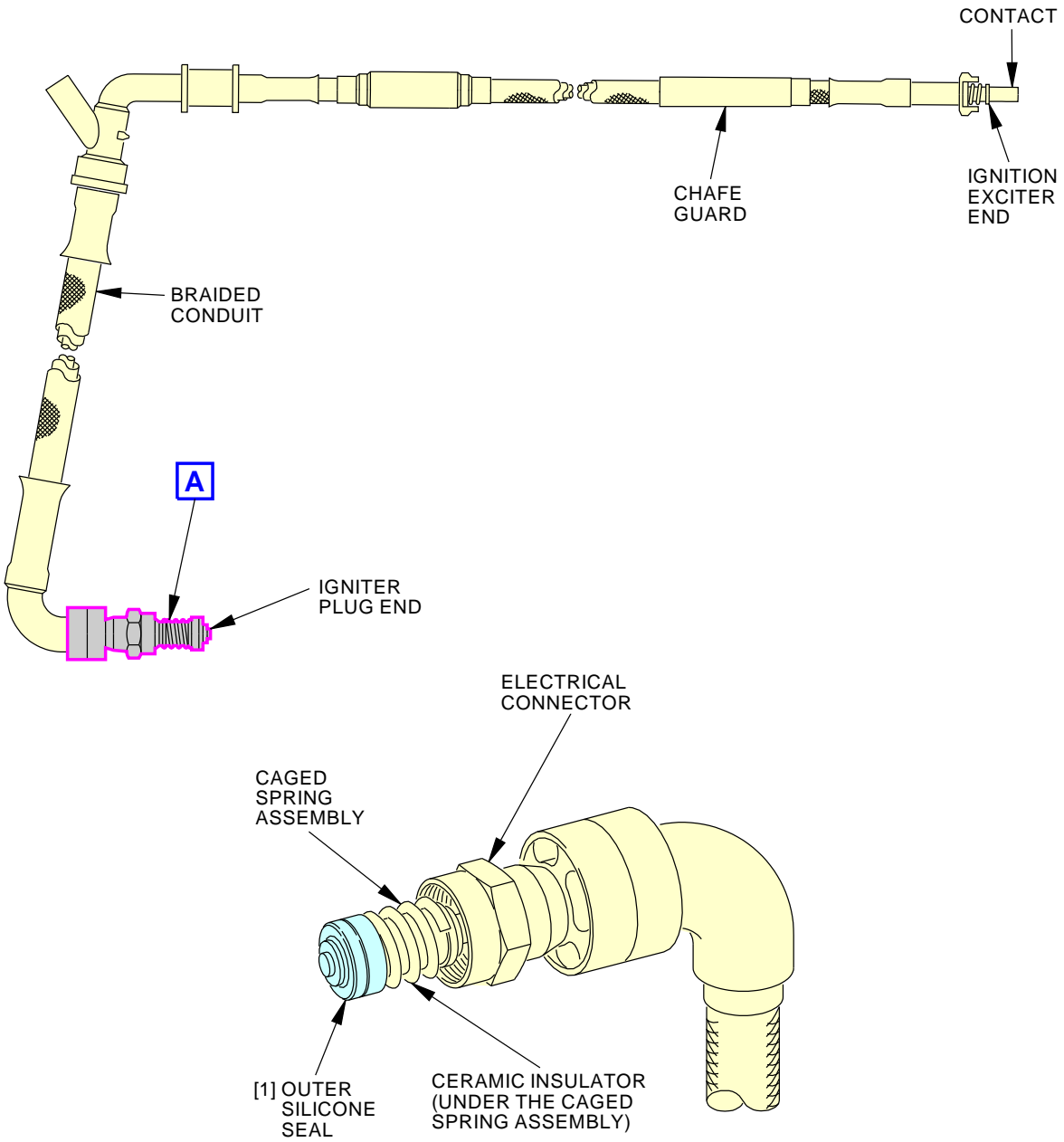
| Reference | Description | Specification |
|--------------------|--|---------------------------|
| B00682 [CP2011] | Solvent - Stoddard | P-D-680 Type I, II or III |
| B00683 [CP1008] | Solvent - Stabilized Trichloroethylene | |
| G00834 | Cloth - Lint-free Cotton | |

| | | | |
|-------------------------------|----------------------|---|--|
| EFFECTIVITY AKS ALL | SOURCE MRB | IGNITION LEADS D633A109-AKS 74-020-01-01 | Page 1 of 5 Oct 15/2015 |
|-------------------------------|----------------------|---|--|

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. 74-020-01-01 | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|----------------------|---|--|-----|--------|------|---|---|--------|-------------------------|---|---|--------|------------------------|-----|-----|--------|------|---|---|--------|-------------------------|---|---|--------|------------------------|------|------|
| TASK 74-21-01-200-801-F00 1. Ignition Lead Inspection (Figure 1) A. General (1) This task is to examine the condition of the ignition leads. (2) The left ignition lead connects the left igniter plug with the bottom ignition exciter. (3) The right ignition lead connects the right igniter plug with the top ignition exciter. B. Prepare for the Inspection SUBTASK 74-21-01-860-022-F00 (1) For Engine 1, open these circuit breakers and install safety tags: CAPT Electrical System Panel, P18-2 <table border="1"> <thead> <tr> <th>Row</th> <th>Col</th> <th>Number</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>1</td> <td>C00458</td> <td>ENGINE 1 IGNITION RIGHT</td> </tr> <tr> <td>A</td> <td>3</td> <td>C00153</td> <td>ENGINE 1 IGNITION LEFT</td> </tr> </tbody> </table> SUBTASK 74-21-01-860-023-F00 (2) For Engine 2, open these circuit breakers and install safety tags: F/O Electrical System Panel, P6-2 <table border="1"> <thead> <tr> <th>Row</th> <th>Col</th> <th>Number</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>D</td> <td>4</td> <td>C00459</td> <td>ENGINE 2 IGNITION RIGHT</td> </tr> <tr> <td>D</td> <td>6</td> <td>C00151</td> <td>ENGINE 2 IGNITION LEFT</td> </tr> </tbody> </table> SUBTASK 74-21-01-040-001-F00 (3) Make sure that the start lever is in the CUTOFF position and install a DO-NOT-OPERATE tag. SUBTASK 74-21-01-040-002-F00 (4) Make sure that the engine start switch is off and install a DO-NOT-OPERATE tag. SUBTASK 74-21-01-010-004-F00 (5) Open the left and right fan cowl panels (AMM TASK 71-11-02-010-801-F00). SUBTASK 74-21-01-040-003-F00 WARNING: MAKE SURE THAT THE IGNITION EXCITERS ARE DE-ENERGIZED FOR A MINIMUM OF FIVE MINUTES BEFORE YOU START WORK ON THE IGNITION SYSTEM. THE IGNITION SYSTEM VOLTAGE IS DANGEROUSLY HIGH. DO NOT TOUCH THE ELECTRICAL CONTACTS. THE IGNITION EXCITERS CAN HAVE AN ELECTRICAL CHARGE EVEN WHEN NOT ENERGIZED. IF YOU DO NOT OBEY THIS PROCEDURE, INJURY TO PERSONS CAN OCCUR. (6) Wait a minimum of five minutes after you remove power from the ignition system before you do the next step. | | | | Row | Col | Number | Name | A | 1 | C00458 | ENGINE 1 IGNITION RIGHT | A | 3 | C00153 | ENGINE 1 IGNITION LEFT | Row | Col | Number | Name | D | 4 | C00459 | ENGINE 2 IGNITION RIGHT | D | 6 | C00151 | ENGINE 2 IGNITION LEFT | MECH | INSP |
| | | | | Row | Col | Number | Name | | | | | | | | | | | | | | | | | | | | | | |
| A | 1 | C00458 | ENGINE 1 IGNITION RIGHT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 3 | C00153 | ENGINE 1 IGNITION LEFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Row | Col | Number | Name | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | 4 | C00459 | ENGINE 2 IGNITION RIGHT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | 6 | C00151 | ENGINE 2 IGNITION LEFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EFFECTIVITY AKS ALL | | SOURCE MRB | IGNITION LEADS D633A109-AKS 74-020-01-01 | | | | | | | | | | | | | | | | | | | | | | | | | | |

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. 74-020-01-01 | | | | | | | | | | | | | |
|---|-------------|----------------------|---|--|-----|--------|------|---|---|--------|-------------------------|---|---|--------|------------------------|------|------|
| SUBTASK 74-21-01-020-001-F00 <u>CAUTION:</u> MAKE SURE THAT YOUR HANDS AND TOOLS ARE CLEAN. DO NOT TOUCH THE IGNITION LEAD WITH DIRT OR GREASE ON HANDS OR TOOLS. DIRT AND GREASE WILL CAUSE DAMAGE TO THE IGNITION LEAD. (7) Disconnect the ignition leads from the aft side of the ignition exciters. (a) Put the protective covers on the ignition exciters. C. Ignition Lead Inspection SUBTASK 74-21-01-210-015-F00 (1) Examine the ignition exciter end of the ignition lead. (a) Signs of arcing, burning, or flash over are not permitted. Replace the lead (AMM TASK 74-21-01-000-801-F00 and AMM TASK 74-21-01-400-801-F00). SUBTASK 74-21-01-900-002-F00 (2) If you find damage that is not in the limits, replace the ignition lead (AMM TASK 74-21-01-000-801-F00 and AMM TASK 74-21-01-400-801-F00). SUBTASK 74-21-01-110-001-F00 <u>WARNING:</u> DO NOT GET CLEANING SOLVENT IN YOUR MOUTH OR EYES OR ON YOUR SKIN. DO NOT BREATHE THE FUMES FROM THE CLEANING SOLVENT. PUT ON A PROTECTIVE SPLASH GOGGLE AND GLOVES WHEN YOU USE THE CLEANING SOLVENT. KEEP THE CLEANING SOLVENT AWAY FROM SPARKS, FLAME AND HEAT. THE CLEANING SOLVENT IS POISONOUS AND FLAMMABLE AND CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT. (3) Clean the contact with lint-free cloth, G00834 that is moist with solvent, B00683 [CP1008] or solvent, B00682 [CP2011]. D. Put the Airplane Back to Its Usual Condition SUBTASK 74-21-01-420-002-F00 (1) Do these steps to connect the ignition lead to the aft side of the ignition exciter: (a) Remove the protective cover from the ignition exciter. (b) Connect the ignition lead to the aft side of the ignition exciter. (c) Tighten the connector nut on the ignition lead to 140-160 pound-inches (16.0-18.0 Newton-meters). SUBTASK 74-21-01-410-004-F00 (2) Do this task: Close the Fan Cowl Panels, AMM TASK 71-11-02-410-801-F00. SUBTASK 74-21-01-860-024-F00 (3) For Engine 1, remove the safety tags and close these circuit breakers: CAPT Electrical System Panel, P18-2 <table border="1"> <thead> <tr> <th>Row</th> <th>Col</th> <th>Number</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>1</td> <td>C00458</td> <td>ENGINE 1 IGNITION RIGHT</td> </tr> <tr> <td>A</td> <td>3</td> <td>C00153</td> <td>ENGINE 1 IGNITION LEFT</td> </tr> </tbody> </table> | | | | Row | Col | Number | Name | A | 1 | C00458 | ENGINE 1 IGNITION RIGHT | A | 3 | C00153 | ENGINE 1 IGNITION LEFT | MECH | INSP |
| Row | Col | Number | Name | | | | | | | | | | | | | | |
| A | 1 | C00458 | ENGINE 1 IGNITION RIGHT | | | | | | | | | | | | | | |
| A | 3 | C00153 | ENGINE 1 IGNITION LEFT | | | | | | | | | | | | | | |
| EFFECTIVITY AKS ALL | | SOURCE MRB | IGNITION LEADS D633A109-AKS 74-020-01-01 | | | | | | | | | | | | | | |

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. 74-020-01-01 | | | | | | | | | | | | | |
|--|-------------|----------------------|---|--|------------|---------------|-------------|---|---|--------|-------------------------|---|---|--------|------------------------|------|------|
| <p>SUBTASK 74-21-01-860-025-F00</p> <p>(4) For Engine 2, remove the safety tags and close these circuit breakers:</p> <p>F/O Electrical System Panel, P6-2</p> <table border="1"> <thead> <tr> <th><u>Row</u></th> <th><u>Col</u></th> <th><u>Number</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>D</td> <td>4</td> <td>C00459</td> <td>ENGINE 2 IGNITION RIGHT</td> </tr> <tr> <td>D</td> <td>6</td> <td>C00151</td> <td>ENGINE 2 IGNITION LEFT</td> </tr> </tbody> </table> <p>SUBTASK 74-21-01-860-005-F00</p> <p>(5) Remove the DO-NOT-OPERATE tags from the start lever and the engine start switch.</p> <p>E. Ignition Lead Test</p> <p>SUBTASK 74-21-01-700-004-F00</p> <p>(1) Do the test(s) listed in the Power Plant Test Reference Table (AMM TASK 71-00-00-800-811-F00).</p> <p style="text-align: center;">————— END OF TASK —————</p> | | | | <u>Row</u> | <u>Col</u> | <u>Number</u> | <u>Name</u> | D | 4 | C00459 | ENGINE 2 IGNITION RIGHT | D | 6 | C00151 | ENGINE 2 IGNITION LEFT | MECH | INSP |
| | | | | <u>Row</u> | <u>Col</u> | <u>Number</u> | <u>Name</u> | | | | | | | | | | |
| D | 4 | C00459 | ENGINE 2 IGNITION RIGHT | | | | | | | | | | | | | | |
| D | 6 | C00151 | ENGINE 2 IGNITION LEFT | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| EFFECTIVITY AKS ALL | | SOURCE MRB | IGNITION LEADS D633A109-AKS 74-020-01-01 | | | | | | | | | | | | | | |

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. 74-020-01-01 |
|---|----------------------|---|------------------|--|
| <div></div> <div><div><div>A</div></div><div>Ignition Leads Inspection Figure 1</div></div> <div>GMM-1132313-00-A G15676 S0006582938_V2</div> | | | | |
| EFFECTIVITY AKS ALL | SOURCE MRB | IGNITION LEADS D633A109-AKS 74-020-01-01 | | |

| AIRLINE CARD NO | | TITLE IGNITION LEADS | | | BOEING CARD NO. 74-020-02-01 |
|-----------------|--|--------------------------|-----------------------------|--------------------------|--|
| DATE | TASK INSPECTION - DETAILED | | | | RELATED CARD |
| TAIL NUMBER | WORK AREA RIGHT ENGINE | VERSION 1.1 | THRESHOLD 4000 FC | REPEAT 4000 FC | APPLICABILITY AIRPLANE ALL ENGINE ALL |
| STATION | SKILL AIRPL | | | | |
| | | ACCESS 423 424 | | | ZONE 421 |
| | | | | | |

Detailed inspection of both right engine ignition leads.

A. References

| Reference | Title |
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| AMM 71-00-00-800-811-F00 | Power Plant Test Reference Table (P/B 501) |
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B. Consumable Materials

| Reference | Description | Specification |
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| B00682 [CP2011] | Solvent - Stoddard | P-D-680 Type I, II or III |
| B00683 [CP1008] | Solvent - Stabilized Trichloroethylene | |
| G00834 | Cloth - Lint-free Cotton | |

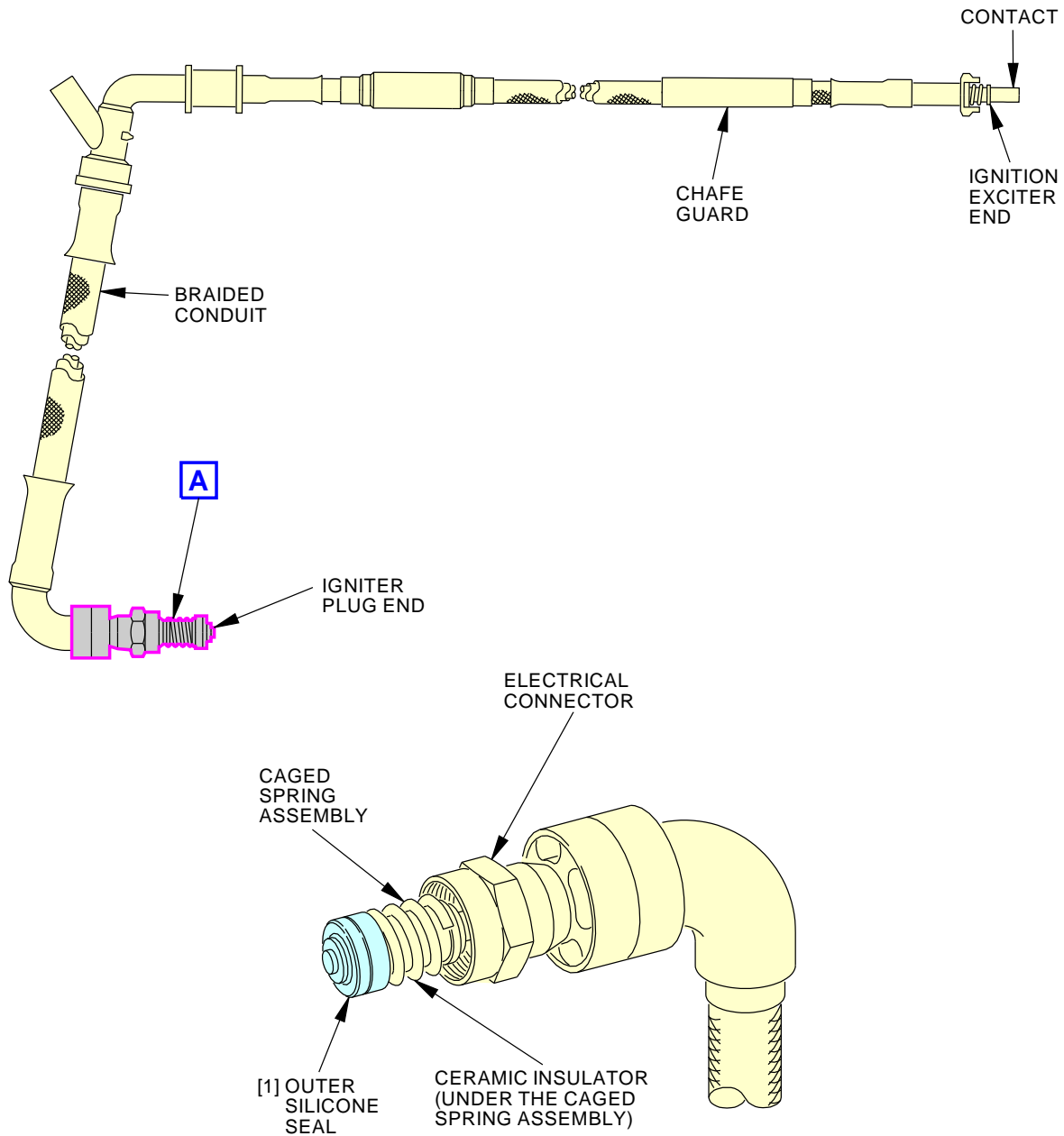
| | | | |
|-------------------------------|----------------------|--|------------------------------------|
| EFFECTIVITY AKS ALL | SOURCE MRB | IGNITION LEADS D633A109-AKS 74-020-02-01 | Page 1 of 5 Oct 15/2015 |
|-------------------------------|----------------------|--|------------------------------------|

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. 74-020-02-01 | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|----------------------|---|--|-----|--------|------|---|---|--------|-------------------------|---|---|--------|------------------------|-----|-----|--------|------|---|---|--------|-------------------------|---|---|--------|------------------------|------|------|
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| Row | Col | Number | Name | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | 4 | C00459 | ENGINE 2 IGNITION RIGHT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | 6 | C00151 | ENGINE 2 IGNITION LEFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EFFECTIVITY AKS ALL | | SOURCE MRB | IGNITION LEADS D633A109-AKS 74-020-02-01 | | | | | | | | | | | | | | | | | | | | | | | | | | |

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. 74-020-02-01 | MECH | INSP | | | | | | | | | | | | |
|---|-------------|----------------------|---|--|------|------|--------|------|---|---|--------|-------------------------|---|---|--------|------------------------|--|--|
| SUBTASK 74-21-01-020-001-F00 <u>CAUTION:</u> MAKE SURE THAT YOUR HANDS AND TOOLS ARE CLEAN. DO NOT TOUCH THE IGNITION LEAD WITH DIRT OR GREASE ON HANDS OR TOOLS. DIRT AND GREASE WILL CAUSE DAMAGE TO THE IGNITION LEAD. (7) Disconnect the ignition leads from the aft side of the ignition exciters. (a) Put the protective covers on the ignition exciters. C. Ignition Lead Inspection SUBTASK 74-21-01-210-015-F00 (1) Examine the ignition exciter end of the ignition lead. (a) Signs of arcing, burning, or flash over are not permitted. Replace the lead (AMM TASK 74-21-01-000-801-F00 and AMM TASK 74-21-01-400-801-F00). SUBTASK 74-21-01-900-002-F00 (2) If you find damage that is not in the limits, replace the ignition lead (AMM TASK 74-21-01-000-801-F00 and AMM TASK 74-21-01-400-801-F00). SUBTASK 74-21-01-110-001-F00 <u>WARNING:</u> DO NOT GET CLEANING SOLVENT IN YOUR MOUTH OR EYES OR ON YOUR SKIN. DO NOT BREATHE THE FUMES FROM THE CLEANING SOLVENT. PUT ON A PROTECTIVE SPLASH GOGGLE AND GLOVES WHEN YOU USE THE CLEANING SOLVENT. KEEP THE CLEANING SOLVENT AWAY FROM SPARKS, FLAME AND HEAT. THE CLEANING SOLVENT IS POISONOUS AND FLAMMABLE AND CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT. (3) Clean the contact with lint-free cloth, G00834 that is moist with solvent, B00683 [CP1008] or solvent, B00682 [CP2011]. D. Put the Airplane Back to Its Usual Condition SUBTASK 74-21-01-420-002-F00 (1) Do these steps to connect the ignition lead to the aft side of the ignition exciter: (a) Remove the protective cover from the ignition exciter. (b) Connect the ignition lead to the aft side of the ignition exciter. (c) Tighten the connector nut on the ignition lead to 140-160 pound-inches (16.0-18.0 Newton-meters). SUBTASK 74-21-01-410-004-F00 (2) Do this task: Close the Fan Cowl Panels, AMM TASK 71-11-02-410-801-F00. SUBTASK 74-21-01-860-024-F00 (3) For Engine 1, remove the safety tags and close these circuit breakers: CAPT Electrical System Panel, P18-2 <table border="1"> <thead> <tr> <th>Row</th> <th>Col</th> <th>Number</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>1</td> <td>C00458</td> <td>ENGINE 1 IGNITION RIGHT</td> </tr> <tr> <td>A</td> <td>3</td> <td>C00153</td> <td>ENGINE 1 IGNITION LEFT</td> </tr> </tbody> </table> | | | | | Row | Col | Number | Name | A | 1 | C00458 | ENGINE 1 IGNITION RIGHT | A | 3 | C00153 | ENGINE 1 IGNITION LEFT | | |
| Row | Col | Number | Name | | | | | | | | | | | | | | | |
| A | 1 | C00458 | ENGINE 1 IGNITION RIGHT | | | | | | | | | | | | | | | |
| A | 3 | C00153 | ENGINE 1 IGNITION LEFT | | | | | | | | | | | | | | | |
| EFFECTIVITY AKS ALL | | SOURCE MRB | IGNITION LEADS D633A109-AKS 74-020-02-01 | | | | | | | | | | | | | | | |

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. 74-020-02-01 | | | | | | | | | | | | | |
|---|-------------|----------------------|---|--|------------|---------------|-------------|---|---|--------|-------------------------|---|---|--------|------------------------|------|------|
| <p>SUBTASK 74-21-01-860-025-F00</p> <p>(4) For Engine 2, remove the safety tags and close these circuit breakers:</p> <p>F/O Electrical System Panel, P6-2</p> <table><thead><tr><th><u>Row</u></th><th><u>Col</u></th><th><u>Number</u></th><th><u>Name</u></th></tr></thead><tbody><tr><td>D</td><td>4</td><td>C00459</td><td>ENGINE 2 IGNITION RIGHT</td></tr><tr><td>D</td><td>6</td><td>C00151</td><td>ENGINE 2 IGNITION LEFT</td></tr></tbody></table> <p>SUBTASK 74-21-01-860-005-F00</p> <p>(5) Remove the DO-NOT-OPERATE tags from the start lever and the engine start switch.</p> <p>E. Ignition Lead Test</p> <p>SUBTASK 74-21-01-700-004-F00</p> <p>(1) Do the test(s) listed in the Power Plant Test Reference Table (AMM TASK 71-00-00-800-811-F00).</p> <p style="text-align: center;">————— END OF TASK —————</p> | | | | <u>Row</u> | <u>Col</u> | <u>Number</u> | <u>Name</u> | D | 4 | C00459 | ENGINE 2 IGNITION RIGHT | D | 6 | C00151 | ENGINE 2 IGNITION LEFT | MECH | INSP |
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| D | 4 | C00459 | ENGINE 2 IGNITION RIGHT | | | | | | | | | | | | | | |
| D | 6 | C00151 | ENGINE 2 IGNITION LEFT | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| EFFECTIVITY AKS ALL | | SOURCE MRB | IGNITION LEADS D633A109-AKS 74-020-02-01 | | | | | | | | | | | | | | |

| DATE | TAIL NUMBER | STATION | AIRLINE CARD NO. | BOEING CARD NO. 74-020-02-01 |
|------|-------------|---------|------------------|--|
|------|-------------|---------|------------------|--|



A

**Ignition Leads Inspection
Figure 1**

GMM-1132313-00-A

G15676 S0006582938_V2

| | | | |
|-------------------------------|----------------------|--|----------------------------|
| EFFECTIVITY AKS ALL | SOURCE MRB | IGNITION LEADS D633A109-AKS 74-020-02-01 | Page 5 of 5 Jun 15/2016 |
|-------------------------------|----------------------|--|----------------------------|