TITLE
SECURITY LOCK INSTALLATION

EFFECTIVITY

<table>
<thead>
<tr>
<th>Model</th>
<th>Serial Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>172R</td>
<td>17280001 and On</td>
</tr>
<tr>
<td>172S</td>
<td>172S8001 and On</td>
</tr>
<tr>
<td>182S</td>
<td>18280001 thru 18280944</td>
</tr>
<tr>
<td>182T</td>
<td>18280945 and On</td>
</tr>
<tr>
<td>T182T</td>
<td>T18208001 and On</td>
</tr>
<tr>
<td>206H</td>
<td>20608001 and On</td>
</tr>
<tr>
<td>T206H</td>
<td>T20608001 and On</td>
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</table>

DESCRIPTION
This modification kit provides parts and instructions to install security locks.

APPROVAL
FAA approval has been obtained on technical data in this publication that affects airplane type design.

REFERENCE
SB04-52-01
CHANGE IN WEIGHT AND BALANCE

**Model** ........... 172R/172S 182S/182/T182T 206H/T206H
**Weight Change** .... Negligible Negligible Negligible

MATERIAL INFORMATION

The parts below are necessary to install the cabin door lock and baggage door lock on the Model 172 and Model 182:

<table>
<thead>
<tr>
<th>NEW P/N</th>
<th>QUANTITY</th>
<th>DESCRIPTION</th>
<th>OLD P/N</th>
<th>DISPOSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MK172-52-01-1</td>
<td>1</td>
<td>Kit, consisting of the following parts:</td>
<td></td>
<td></td>
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<tr>
<td>ASC182-2</td>
<td>1</td>
<td>Lock Assemblies</td>
<td>C253001-0102 and C253001-0101</td>
<td>Discard</td>
</tr>
<tr>
<td>MS24665-132</td>
<td>1</td>
<td>Cotter Pin</td>
<td>MS24665-132</td>
<td>Discard</td>
</tr>
<tr>
<td>NAS1149FN416P</td>
<td>1</td>
<td>Washer</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>MK172-52-01</td>
<td>1</td>
<td>Instructions</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The parts below are necessary to install the cabin door lock and cargo door lock on the Model 206 serial numbers 20608001 thru 20608208 and T20608001 thru T20608438:

<table>
<thead>
<tr>
<th>NEW P/N</th>
<th>QUANTITY</th>
<th>DESCRIPTION</th>
<th>OLD P/N</th>
<th>DISPOSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MK172-52-01-2</td>
<td>1</td>
<td>Kit, consisting of the following parts:</td>
<td></td>
<td></td>
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<tr>
<td>ASC206-2</td>
<td>1</td>
<td>Lock Assemblies</td>
<td>C253001-0101 and C253001-0102</td>
<td>Discard</td>
</tr>
<tr>
<td>MS24665-132</td>
<td>1</td>
<td>Cotter Pin</td>
<td>MS24665-132</td>
<td>Discard</td>
</tr>
<tr>
<td>NAS1149FN416P</td>
<td>1</td>
<td>Washer</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>MK172-52-01</td>
<td>1</td>
<td>Instructions</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The parts below are necessary to install the cabin door lock on the Model 206 serial numbers 20608209 and On and T20608439 and On:

<table>
<thead>
<tr>
<th>NEW P/N</th>
<th>QUANTITY</th>
<th>DESCRIPTION</th>
<th>OLD P/N</th>
<th>DISPOSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MK172-52-01-3</td>
<td>1</td>
<td>Kit, consisting of the following parts:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASL210C</td>
<td>1</td>
<td>Lock Assembly</td>
<td>C253001-0101</td>
<td>Discard</td>
</tr>
<tr>
<td>MS24665-132</td>
<td>1</td>
<td>Cotter Pin</td>
<td>MS24665-132</td>
<td>Discard</td>
</tr>
<tr>
<td>NAS1149FN416P</td>
<td>1</td>
<td>Washer</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>MK172-52-01</td>
<td>1</td>
<td>Instructions</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ACCOMPLISHMENT INSTRUCTIONS

1. Electrically ground the airplane and turn all switches to the "OFF" position. If external power is connected to the airplane, disconnect external power from receptacle.

2. Disconnect the airplane battery. (Refer to the applicable Maintenance Manual, Chapter 24, Electrical Power.)

3. Attach maintenance warning tags to the battery and external power receptacle with the following instruction: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS.

   NOTE: The ASC182-2 part number is for the Models 172 and 182 containing one ASL210C Lock with one key for the pilot's door, and one AS210PB Lock with one key for the baggage door. Both of these locks are keyed alike.

   NOTE: The ASC206-2 part number is for the Model 206 serial numbers 20608001 thru 20608208 and T20608001 thru T20608438 and contains one ASL210C Lock with one key for the pilot’s door, and one ASE210C Lock with one key for the cargo door. Both of these locks are keyed alike.

4. (Model 172, 182 and 206 airplanes refer to Figure 1, Sheets 1 and 2.) Install the pilot’s door ASL210C Lock Assembly.
   
   A. Remove and keep the pilot’s door interior trim, structural components and hardware as necessary to get to the key lock assembly. (Refer to the applicable Model Maintenance Manual, Chapter 25, Upholstery - Maintenance Practices.)

   B. Disconnect the door handle/lock linkage as necessary and keep the linkage hardware. (Refer to the applicable Model Maintenance Manual, Chapter 52, Cabin Doors - Maintenance Practices.)

   C. Remove the lock assembly installed in the pilot’s door and discard the lock and the lock hardware. NOTE: Keep the key for use in the ignition switch.

   D. (Refer to Figure 1, Sheet 3, Detail C.) Remove the aft flat area material of the door lock cutout hole in the cabin door skin.

   E. (Refer to Figure 1, Sheet 2, Detail A and View A-A, and Sheet 3, Detail D.) Install the ASL210C Lock Assembly with the anti-rotation washer installed under the 0.75 inch hex nut.

   F. Turn the key in the lock to make sure it operates correctly with a 90° rotation.

   G. (Refer to Figure 1, Sheet 3, Detail D.) Tighten the 0.75 inch hex nut and bend the applicable tab against the flat of the nut to make sure the nut does not rotate.

   H. (Refer to Figure 1, Sheet 3, Detail D.) Install the door handle/lock linkage with the kept hardware, a new MS24665-132 Cotter Pin and nylon spacer. (Refer to the applicable Model Maintenance Manual, Chapter 52, Cabin Doors - Maintenance Practices.)

   I. Turn the key in the lock to make sure it operates correctly. Operate the door handle and door to make sure the mechanism works smoothly.

   J. Install the pilot’s door interior trim, structural components and hardware with the kept hardware as necessary. (Refer to the applicable Model Maintenance Manual, Chapter 52, Cabin Doors - Maintenance Practices.)

5. (Model 172 and 182 airplanes refer to Figure 1, Sheets 1, 4 and 5.) Install the baggage door AS210PB Lock Assembly.

   A. Remove and keep the baggage door interior trim, structural components and hardware as necessary to get to the key lock assembly. (Refer to the applicable Model Maintenance Manual, Chapter 52, Baggage Doors - Maintenance Practices.)

   B. (Refer to Figure 1, Sheet 4 and Sheet 5.) Remove the lock assembly installed in the baggage door and discard the lock and the lock hardware.

   C. (Refer to Figure 1, Sheet 5, Detail F.) Remove the lower flat area material of the door lock cutout mount hole in the cabin door skin.
D. (Refer to Figure 1, Sheet 4 and Sheet 5.) Install the AS210PB Lock Assembly with the anti-rotation washer installed under the 0.75 inch hex nut.

E. Turn the key in the lock to make sure it operates correctly with a 90° rotation. Operate the baggage door to make sure it opens and closes smoothly.

F. Tighten the 0.75 inch hex nut and bend the applicable tab against the flat of the nut to make sure the nut does not rotate.

G. Install the baggage door interior trim, structural components and hardware with the kept hardware as necessary. (Refer to the applicable Model Maintenance Manual, Chapter 52, Baggage Doors - Maintenance Practices.)

6. (Model 206 airplanes refer to Figure 1, Sheets 1 and 6.) Install the cargo door ASE210C Lock Assembly.

A. Remove and keep the cargo door interior trim, structural components and hardware as necessary to get to the key lock assembly. (Refer to the applicable Model Maintenance Manual, Chapter 52, Cargo Doors - Maintenance Practices.)

B. (Refer to Figure 1, Sheet 6.) Remove the lock assembly installed in the cargo door and discard the lock and the lock hardware.

C. (Refer to Figure 1, Sheet 7, Detail I.) Remove the forward flat area material of the door lock cutout mount hole in the cargo door skin.

D. (Refer to Figure 1, Sheet 6 and Sheet 7.) Install the ASE210C Lock Assembly with the anti-rotation washer installed under the 0.75 inch hex nut.

   NOTE: It may be necessary to remove some material from the inside structure of the door to allow proper clearance of the lock assembly during operation.

E. Tighten the 0.75 inch hex nut and bend the applicable tab against the flat of the nut to make sure the nut does not rotate and interfere with the operation of the lock assembly.

F. Turn the key in the lock to make sure it operates correctly with a 90° rotation. Operate the cargo door to make sure it opens and closes smoothly.

G. Install the cargo door interior trim, structural components and hardware with the kept hardware as necessary. (Refer to the applicable Model Maintenance Manual, Chapter 52, Cargo Doors - Maintenance Practices.)

7. Remove maintenance warning tags from battery and external power receptacle.

8. Reconnect the airplane battery. (Refer to the applicable Maintenance Manual, Chapter 24, Electrical Power.)

9. Make an entry in the airplane logbook stating that this modification kit has been installed.
Figure 1. Security Lock Installation (Sheet 1)
Figure 1. Security Lock Installation (Sheet 2)

ASL210C LOCK ASSEMBLY

COTTER PIN
(REFERENCE)
NAS1149FN416P
 WASHER
(1 EACH REQUIRED)

VIEW A-A
(VIEW LOOKING DOWN)

BEND TABS TO AVOID
INTERFERENCE WITH
LATCH HOUSING

DETAIL A
(VIEW LOOKING INBOARD)
REMOVE AFT FLAT OF LOCK CUTOUT IN CABIN DOOR SKIN

DETAIL C
LOCK ASSEMBLY AND LINKAGE NOT SHOWN
(VIEW LOOKING INBOARD)

NYLON SPACER
MACHINE SCREW
SERRATED WASHER
RETAINING WASHER
CAM/PIN ASSEMBLY
SHELL
0.750 HEX NUT
ANTI-ROTATIONAL WASHER

MS24665-132
COTTER PIN
(1 EACH REQUIRED)
NAS1149FN416P
WASHER
(1 EACH REQUIRED)

DETAIL D
ASL210C LOCK ASSEMBLY PARTS
(VIEW LOOKING DOWN)

Figure 1. Security Lock Installation (Sheet 3)
Figure 1. Security Lock Installation (Sheet 4)
Figure 1. Security Lock Installation (Sheet 5)
Figure 1. Security Lock Installation (Sheet 6)
Figure 1. Security Lock Installation (Sheet 7)

Remove forward flat of lock cutout in cabin door skin.

Detail H
ASE210C lock assembly parts view looking down

- Hex nut
- Serrated washer
- Cam
- Stop washer
- Shell
- 0.750 hex nut
- Anti-rotational washer
- Lock tumbler assembly