Title  RADIO COOLING - FOR CESSNA 500 SERIES TSO RADIO INSTALLATION ONLY

MODELS AFFECTED  SERIALS AFFECTED
180  18051313 & on
182  18253599 & on
185  185-0654 thru 185-1149
A185  185-0968 & on
205  ALL
206 Series  ALL
210  21058741 & on
T210  T210-0001 & on
336  336-0001 thru 336-0195
337  337-0001 & on
T337  337-0540 & on

NOTE

This kit is good for Accessory Kit installation of 2 or more 500 Series TSO radio installations.

PARTS LIST:

<table>
<thead>
<tr>
<th>QUANTITY</th>
<th>PART NUMBER</th>
<th>NOMENCLATURE</th>
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<tbody>
<tr>
<td>2</td>
<td>0770641-1</td>
<td>Adapter</td>
</tr>
<tr>
<td>2</td>
<td>1470219-1</td>
<td>Scoop</td>
</tr>
<tr>
<td>1</td>
<td>1470064-1</td>
<td>Clip - LH (336 only - attaches hose to &quot;A&quot; frame)</td>
</tr>
<tr>
<td>1</td>
<td>1470064-4</td>
<td>Clip - RH (336 only - attaches hose to &quot;A&quot; frame)</td>
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<tr>
<td>6 ft.</td>
<td>S-1053E7T</td>
<td>Hose</td>
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<tr>
<td>4</td>
<td>NAS397-16</td>
<td>Clamp</td>
</tr>
<tr>
<td>2</td>
<td>AN742D16</td>
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</tr>
<tr>
<td>2</td>
<td>AN520-10R8</td>
<td>Screw</td>
</tr>
<tr>
<td>2</td>
<td>NAS679A3</td>
<td>Nut</td>
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<tr>
<td>1</td>
<td></td>
<td>Installation Instructions</td>
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</tbody>
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CHANGE IN WEIGHT AND BALANCE:

* MODELS 180, 182, 185, A185, 205, 206, P206, U206, 210 & T210

WEIGHT INCREASE  0.6 pounds  0.6 pounds
ARM  10.0 inches  71.8 inches
RESULTANT MOMENT  6 pound-inches  43 pound-inches
INDEX  .006  .043

1. DESCRIPTION OF INSTALLATION.
   a. Installation of this kit consists of:
      (1) Installing a ram air scoop and adapter to both sides of aircraft.
      (2) Installing two plenum chambers (one on each side of radio stack).
      (3) Installing connecting hoses between adapter and plenum chambers.

2. INSTALLATION INSTRUCTIONS.
   a. Refer to the appropriate figures for installation instructions.
NOTES
1. THIS RADIO COOLING KIT IS ONLY USED WHEN CESSNA 500 RADIOS ARE INSTALLED.
2. RADIO COOLING IS BUILT INTO THE CESSNA 500 MOUNTINGS. REFER TO THE ELECTRONIC INSTALLATIONS & SERVICE/PARTS MANUAL FOR REPLACEMENT PART NUMBER OF CESSNA 500 MOUNTINGS.

Figure 1. Radio Cooling Kit Installation - All Models Except 336, 337 & T337
Figure 2. Radio Cooling Kit Installation - Model 336 Only

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Figure 3. Radio Cooling Kit Installation -Model 337 & T337 Only
Figure 4. Installation of Adapter and Scoop - Models 180 & 185 Only
Figure 5. Installation of Adapter and Scoop - Model 182 Only
NOTE
CENTER OF 7/8 INCH HOLE IS LOCATED 3 3/8 INCHES DOWN FROM EDGE OF COWL DECK SKIN AND 5.15 INCHES AFT OF UPPER FIREWALL STA. 3.85.

1 7/8 (.875) HOLE IN SKIN 1 REQD

2 NO. 40 (.098) HOLE (TO MATCH ADAPTER & SCOOP 8 REQD

3 NO. 40 (.098) DRAIN HOLE 1 REQD

4 MS20426AD3 RIVET (DIMPLE 100° X .180 DIA) 8 REQD

LEFT SIDE VIEW LOOKING INBOARD

NOTE
CENTER OF 7/8 INCH HOLE IS LOCATED 3 3/8 INCHES DOWN FROM EDGE OF COWL DECK SKIN AND 5.15 INCHES AFT OF UPPER FIREWALL STA. 3.85.

1 7/8 (.875) HOLE IN SKIN 1 REQD

2 NO. 40 (.098) HOLE (TO MATCH ADAPTER & SCOOP 8 REQD

3 NO. 40 (.098) DRAIN HOLE 1 REQD

4 MS20426AD3 RIVET (DIMPLE 100° X .180 DIA) 8 REQD

RIGHT SIDE VIEW LOOKING INBOARD

Figure 6. Installation of Adapter and Scoop - Models 205, 206, P206, U206, 210 & T210
Figure 7. Installation of Adapter and Scoop - Model 336 Only
CANCELLED

EXISTING RIVET PATTERN (REF)

NO. 40 (.098) HOLE (TO MATCH ADAPTER & SCOOP) 8 REQD

MS20428AD3 RIVET (DIMPLE 100° X .180 DIA) 8 REQD

1 7/8 (.875) HOLE IN SKIN 1 REQD

4 NO. 40 (.098) DRAIN HOLE 1 REQD

RIGHT SIDE VIEW LOOKING INBOARD

Figure 8. Installation of Adapter and Scoop - Models 337 & T337 (Sheet 1 of 2)
CANCELLED

FIREWALL
STA. 65.00

2 NO. 40 (.098)
HOLE (TO MATCH
ADAPTER & SCOOP)
8 REQD

1 7/8 (.875)
HOLE IN SKIN
1 REQD

3 MS20426AD3
RIVET (DIMPLE
100° X .180 DIA)
8 REQD

4 NO. 40 (.098)
DRAIN HOLE
1 REQD

EXISTING RIVET
PATTERN (REF)

LEFT SIDE
VIEW LOOKING INBOARD

MODEL 337 & T337

SCOOP AND ADAPTER
(LEFT SIDE OF AIRCRAFT)

Figure 8. Installation of Adapter and Scoop - Models 337 & T337 (Sheet 2 of 2)