
Service Bulletin

April 2, 2007

SB07-80-01

TITLE

SKY-TEC STARTER INSTALLATION

EFFECTIVITY

Model	Serial Numbers
172R	17280001 thru 17281376
172S	172S08001 thru 172S10461
182S	18280001 thru 18280944
182T	18280945 thru 18281917
T182T	T18208001 thru T18208704

REASON

To announce that modification kits are available to provide customers the option of installing a Sky-Tec manufactured starter in place of a Lamar manufactured starter.

DESCRIPTION

The Sky-Tec starter may be installed as specified in this Service Bulletin.

COMPLIANCE

Optional: may be accomplished if desired.

APPROVAL

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

MANPOWER

Approximately 3.3 man-hours to install MK172-80-01

Approximately 2.7 man-hours to install MK182-80-01, add 3.5 man-hours if starter cable assembly replacement is required

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To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

Cessna Aircraft Company, Product Support, P.O. Box 7706, Wichita, Kansas 67277, U.S.A. (316) 517-5800, Facsimile (316) 942-9006

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REFERENCES

Model 172 Series 1996 and On Maintenance Manual

Model 182/T182 Series 1997 and On Maintenance Manual

Model 206/T206 Series 1998 and On Maintenance Manual

NOTE: Make sure all publications used are complete and current.

NOTE: This information shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual.

OTHER PUBLICATIONS AFFECTED

Model 172R and Model 172S Illustrated Parts Catalog

Model 182S/182T/T182T Illustrated Parts Catalog

Model 206H & Model T206H Illustrated Parts Catalog

NOTE: Make sure all publications used are complete and current.

MATERIAL PRICE AND AVAILABILITY

The parts below are available from Cessna Parts Distribution through an appropriate Cessna Service Station for the suggested list price shown.

<u>Part Number</u>	<u>Description</u>	<u>Qty/Airplane</u>		<u>Price</u>
MK172-80-01	Sky-Tec Starter Modification Kit	1	\$	252.00 (A) ea
MK182-80-01	Sky-Tec Starter Modification Kit	1	\$	134.00 (A) ea
149-NL	Starter (See Note 1)	1	\$	699.00 (Y) ea
		Plus Core Deposit	\$	150.00 ea
0770512-7	Start Cable Assembly (See Note 2)	(if required)	\$	164.00 (SE) ea
U074093	Alodine 1132 Marker	(as required)	\$	152.00 (VR) ea

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

NOTE 1: Necessary in addition to MK172-80-01 or MK182-80-01.

NOTE 2: May be necessary in addition to MK182-80-01 for model T182T airplanes only.

CREDIT INFORMATION

Not applicable

ACCOMPLISHMENT INSTRUCTIONS

Modification Kits MK172-80-01 and MK182-80-01: Sky-Tec Starter Installation instructions are attached.

OWNER NOTIFICATION

On April 16, 2007 the following message will be sent to applicable owners of record in SB07-80-01A.

Dear Cessna Owner:

This Owner Advisory is to inform you that Service Bulletin SB07-80-01 has been issued to announce that modification kits are available to provide customers the option of installing a Sky-Tec manufactured starter in place of a Lamar manufactured starter.

Compliance is optional; may be accomplished if desired.

The information contained in the referenced Cessna Service Bulletin shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual.

Please contact a Cessna Single Engine Service Station for detailed information and if desired, arrange to have Cessna Service Bulletin SB07-80-01 accomplished on your airplane.

* * * * *

Single Engine

MODIFICATION KIT



MK172-80-01

TITLE

SKY-TEC STARTER INSTALLATION

EFFECTIVITY

Model	Serial Numbers
172R	17280001 thru 17281376
172S	172S08001 thru 172S10461

DESCRIPTION

This modification kit provides instructions and parts to replace the Lamar Starter with a new Sky-Tec Starter. A new baffle assembly, starter relay, and cable assembly are also installed.

APPROVAL

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

REFERENCE

SB07-80-01

CHANGE IN WEIGHT AND BALANCE

MODEL	172R/172S
WEIGHT CHANGE	-1.9 pounds
ARM	-25.26 inches
RESULTANT MOMENT	+48 Inch-Pounds
MOMENT/1000	+0.048 Inch-Pounds

April 2, 2007

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To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

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MATERIAL INFORMATION

NOTE: The parts below cover installation for one airplane.

NEW P/N	QUANTITY	DESCRIPTION	OLD P/N	DISPOSITION
MK172-80-01	1	Kit, consisting of the following parts:		
AN525-8R10	1	Screw	Same	Discard
AN525-10R10	5	Screw		
AN525-10R12	1	Screw		
AN970-3	6	Washers	Same	Discard
LW31-1.16	1	Bolt		
MS20426AD3-3A	4	Rivet	None	None
MS21047L3	2	Nutplate	None	None
S1781-2	2	Connector (Standoff)	None	
S2209A5A	2	Tie Strap (Blue)		
S2209-5	20	Tie Strap		
S2574-2	1	Nut, Nylon	None	
STD1410	3	Nut		
STD475	4	Lock Washer		
X61-0027	1	Starter Relay	X61-0012	Discard
0555324-22	1	Seal	None	None
0570512-8	1	Start Cable Assembly		Discard
	1	Instructions		

In addition to the MK172-80-01 kit, the part that follows will also be necessary:

NEW P/N	QUANTITY	DESCRIPTION	OLD P/N	DISPOSITION
149-NL	1	Starter	PM2401 (Lycoming P/N 31B22207)	Discard

The materials, or equivalent, listed in this table will be necessary.

NAME	NUMBER	MANUFACTURER	USE
Alodine 1132 Marker	U074093 (or equivalent)	Cessna Aircraft Company Cessna Parts Distribution 5800 East Pawnee PO Box 1521 Wichita, KS 67218 USA	To apply to bare metal.

ACCOMPLISHMENT INSTRUCTIONS

1. Prepare the airplane for maintenance.
 - A. Make sure that all switches are in the OFF/NORM position.

- B. Disconnect electrical power from the airplane.
 - (1) Disconnect the airplane battery.
 - (2) Disconnect external electrical power.
- C. Attach maintenance warning tags to the battery and external power receptacle that have **"DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS"** written on them.
- 2. Remove the upper and the lower engine cowl to get access to the starter. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 71, Cowl - Maintenance Practices.)
- 3. Begin the modification to the engine baffle installation as follows:
 - A. (Refer to Figure 1, Detail A.) Remove the four screws from the air intake duct that goes through the hole in the 0509079-2 Seal. Keep the screws.
 - B. Remove and keep the 0509079-2 Seal.
 - C. Remove and keep the 0555324-19 Closeout.
- 4. Remove the accessory bracket from the starter as necessary. Keep the attaching hardware. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 24, Alternator - Maintenance Practices.) (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 80, Starter - Maintenance Practices.)
- 5. (Refer to Figure 1, Detail A.) Remove and discard the 31B22207 Starter and attaching hardware. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 80, Starter - Maintenance Practices.)
- 6. Continue the modification to the engine baffle installation as follows:
 - A. (Refer to Figure 1, View B-B.) Do a modification to the 0555324-19 Closeout as follows:
 - (1) Trim the 0555324-19 Closeout to make a space for the 149-NL Starter start cable to go through the engine baffle.
 - (2) With a Number 3 drill, change the dimension of each of the two outboard holes from 0.194 inch in diameter to 0.213 inch in diameter as shown.
 - (3) Drill a new Number 10 (0.193-inch diameter) hole in the 0555324-19 Closeout.
 - (4) Drill two Number 40 (0.098 inch-diameter) holes with a countersink in the 0555324-19 Closeout for the MS20426AD3-3A Rivets that attach the MS21047L3 Nutplate.
 - (5) Deburr the five holes and apply Alodine to bare metal.
 - (6) Install the MS21047L3 Nutplate to the 0555324-19 Closeout with the two MS20426AD3-3A Rivets.
 - B. (Refer to Figure 1, View A-A.) Do a modification to the 0555250 Right Forward Baffle Assembly as follows:
 - (1) Drill a new Number 10 (0.193-inch diameter) hole in the 0555250 Right Forward Baffle Assembly.
 - (2) Drill two Number 40 (0.098 inch-diameter) holes with a countersink on the forward side in the 0555250 Right Forward Baffle Assembly for the MS20426AD3-3A Rivets that attach the MS21047L3 Nutplate.
 - (3) Deburr the three holes and apply Alodine to bare metal.
 - (4) Install the MS21047L3 Nutplate to the 0555250 Right Forward Baffle Assembly with the two MS20426AD3-3A Rivets.
- 7. Replace the X61-0012 Starter Relay with the X61-0027 Starter Relay as follows:
 - A. Remove the power junction box cover. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 24, Power Junction Box - Maintenance Practices.)
 - B. Remove and discard the X61-0012 Starter Relay. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 24, Power Junction Box - Maintenance Practices.)

C. Install the X61-0027 Starter Relay. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 24, Power Junction Box - Maintenance Practices.)

8. (Refer to Figure 1, Detail B and Figure 2.) Replace the start cable assembly that goes from the starter relay to the starter as follows:

NOTE: The 0570512-3 Start Cable Assembly is too short to be used for the installation of the 149-NL Starter.

A. Remove and discard the 0570512-3 Start Cable Assembly.

B. Begin the installation of the new 0570512-8 Start Cable Assembly as follows:

(1) Do the routing of the 0570512-8 Start Cable Assembly along the existing wire bundle and inside the black conduit to the 149-NL Starter. Attach the 0570512-8 Start Cable Assembly to the existing wire bundle as necessary with S2209-5 Tie Straps to the wire bundle.

(2) Connect the ring terminal on the end of the 0570512-8 Start Cable Assembly to the stud on the X61-0027 Starter Relay.

(3) Torque the stud nut on the X61-0027 Starter Relay to 40 inch-pounds, +5 or -5 inch-pounds.

C. Install the power junction box cover. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 24, Power Junction Box - Maintenance Practices.)

9. Install the 149-NL Starter as follows:

A. Discard the jumper wire that comes with the starter. You will not need it.

B. Remove and discard the S Terminal nut that comes with the starter and install the S2574-2 Nylon Nut on the S Terminal.

C. (Refer to Figure 1, Detail C.) With the three STD1410 Nuts, one LW31-1.16 Bolt, and four STD475 Lock Washers, install the 149-NL Starter. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 80, Starter - Maintenance Practices.)

CAUTION: BEFORE YOU TORQUE THE ACCESSORY BRACKETS, TORQUE THE NUTS AND THE BOLT THAT ATTACH THE 149-NL STARTER TO THE ENGINE.

D. Torque the mounting bolt and the nuts to 204 inch-pounds. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 20, Torque Data - Maintenance Practices.)

E. Attach the accessory bracket to the starter as follows:

(1) Attach the accessory bracket to the starter with the kept attaching hardware, and torque to 204 inch-pounds. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 80, Starter - Maintenance Practices.)

(2) Attach the accessory bracket to the alternator with the kept attaching hardware, and torque to from 235 to 255 inch-pounds. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 24, Alternator - Maintenance Practices.)

10. Complete the installation of the new 0570512-8 Start Cable Assembly as follows:

CAUTION: INSTALL ONLY THE METRIC NUT THAT IS SUPPLIED WITH THE 149-NL STARTER. THE POWER TERMINAL IS A METRIC STUD.

A. (Refer to Figure 1, Detail C.) Connect the ring terminal to the power terminal stud on the 149-NL Starter.

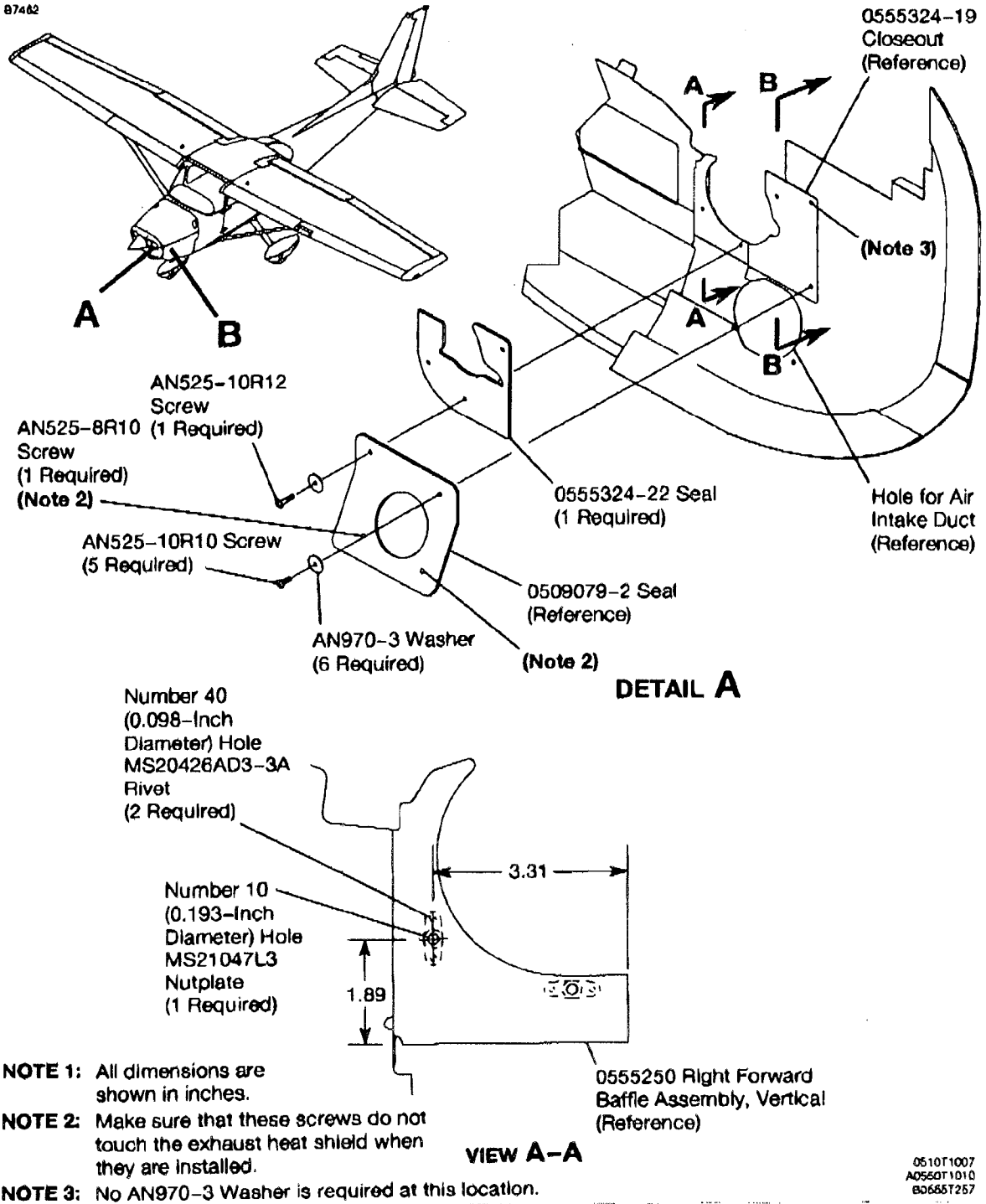
B. Torque the power terminal stud nut to 50 inch-pounds, +5 or -5 inch-pounds, and install the protective boot that is on the 0570512-8 Start Cable Assembly over the terminal.

C. (Refer to Figure 1, Detail C and Detail D.) Attach the 0570512-8 Start Cable Assembly to the 149-NL Starter with the two S2209A5A Tie Straps, one S2209-5 Tie Strap, and two S1781-2 Connectors (Standoffs).

11. Complete the installation of the engine baffles as follows:
 - A. Put the new 0555324-22 Seal in position, and make marks for the three screw holes.
 - B. Drill three Number 10 (0.193-inch diameter) holes in the 0555324-22 Seal.
 - C. (Refer to Figure 1, Detail A.) Put the 0555324-19 Closeout, 0555324-22 Seal, and 0509079-2 Seal in position on the engine baffle.
 - D. With three AN525-10R10 Screws and two AN970-3 Washers, begin the installation of the 0555324-19 Closeout and the 0555324-22 Seal on the engine baffle.

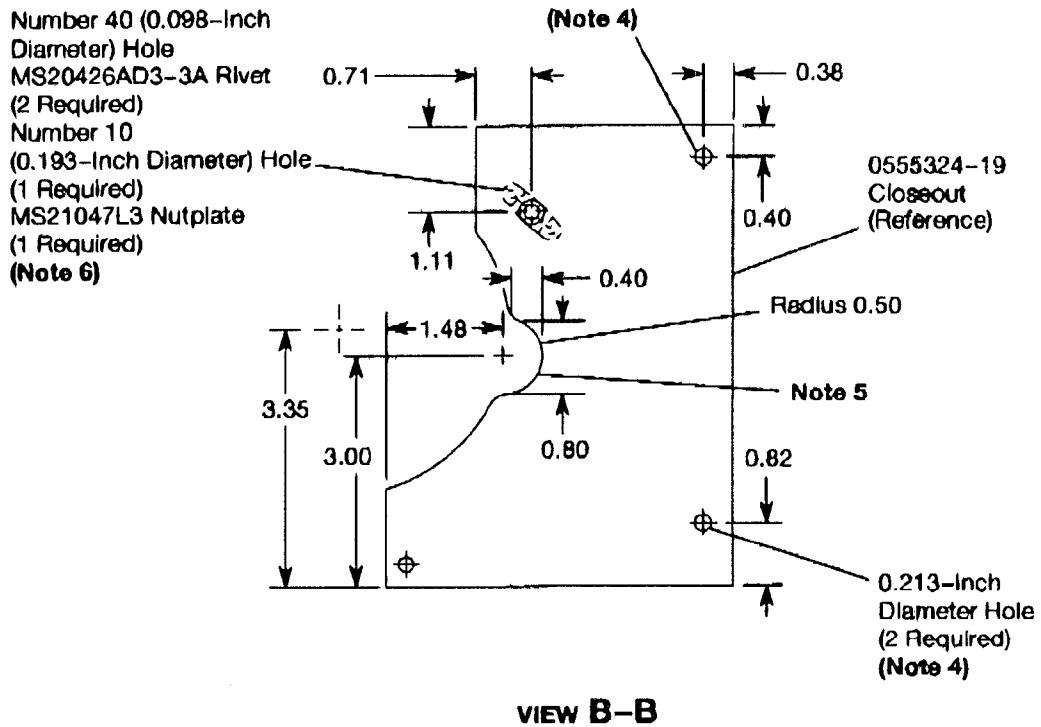
NOTE: No washer is required at the screw location on the 0555324-19 Closeout where the 0555324-22 Seal is not attached.
 - E. With the four AN970-3 Washers, one AN525-10R12 Screw, two AN525-10R10 Screws, and one AN525-8R10 Screw, complete the installation of the 0555324-19 Closeout and the 0555324-22 Seal, and install the 0509079-2 Seal on the engine baffle.
 - F. Install the four kept screws in the air intake duct that goes through the hole in the 0509079-2 Seal.
12. Remove maintenance warning tags from the battery and the external power receptacle, and connect the battery.
13. Install the upper and the lower engine cowls. (Refer to the Model 172 Series 1996 and On Maintenance Manual, Chapter 71, Cowl - Maintenance Practices.)
14. Do an operational test of the starter system.
15. Do a revision of the weight and balance information for the airplane to incorporate the effect of this modification.
16. Make an entry in the airplane logbook stating that this Modification Kit has been installed.

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0510T1007
 A0550T1010
 B0665T257

Figure 1. 172 Sky-Tec Starter Installation (Sheet 1)



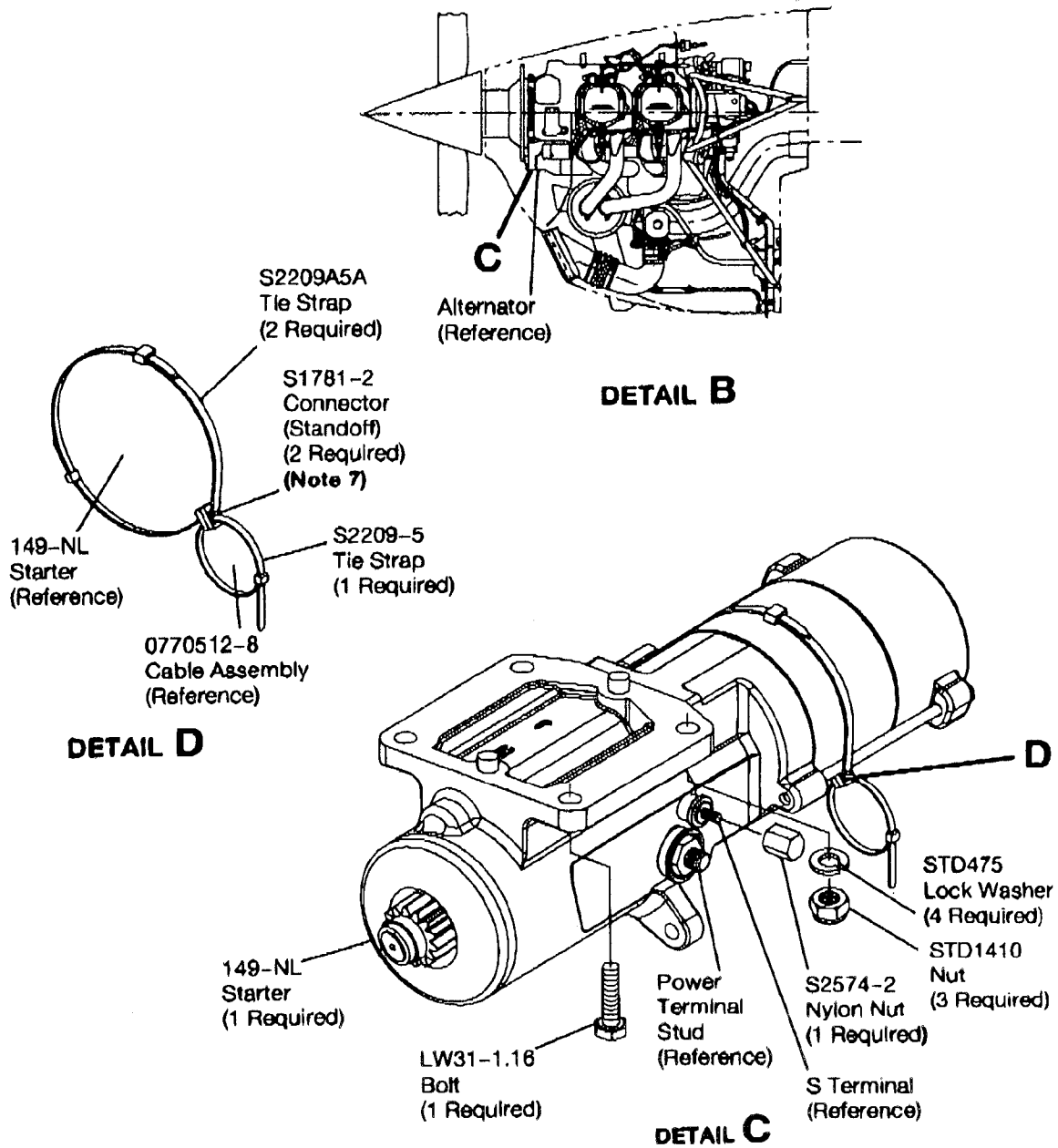
NOTE 4: Change the dimension of each of the two holes from 0.194 inch in diameter to 0.213 inch in diameter.

NOTE 5: Trim here to make a space for the 149-NL Starter start cable to go through the engine baffle.

NOTE 6: Install the MS21047L3 Nutplate on the aft side of the 0555324-19 Closeout.

A05557324

Figure 1. 172 Sky-Tec Starter Installation (Sheet 2)



NOTE 7: Install the S1781-2 Connectors (Standoffs) in a position that does not let the 0770512-8 Start Cable Assembly move and that gives the maximum distance possible between the 149-NL Starter and the 0770512-8 Start Cable Assembly.

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C0550T1010
D0550T1010

Figure 1. 172 Sky-Tec Starter Installation (Sheet 3)

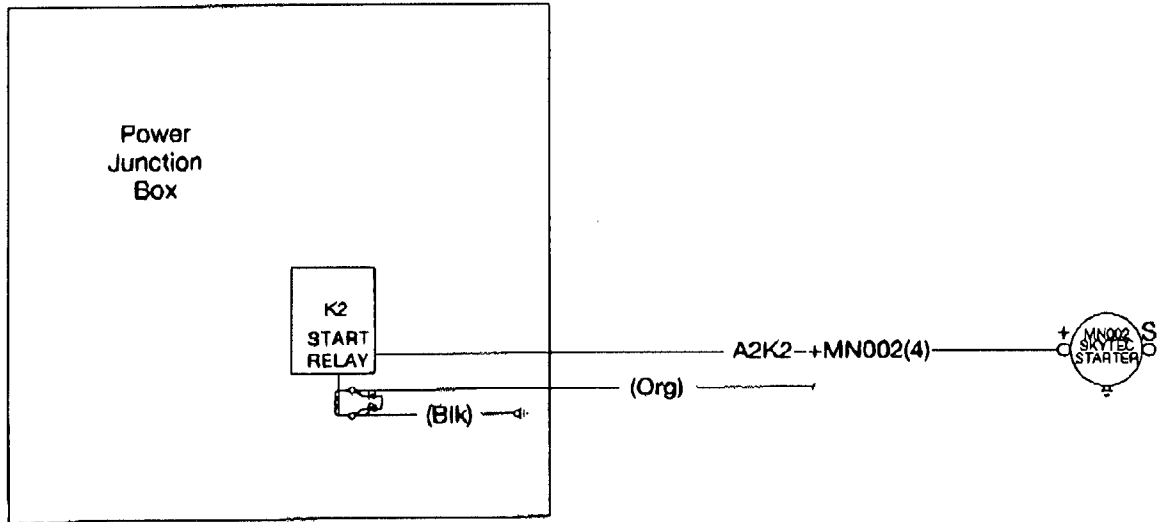


Figure 2. 0570512-8 Start Cable Assembly Installation (Sheet 1)



TITLE

SKY-TEC STARTER INSTALLATION

EFFECTIVITY

Model	Serial Numbers
182S	18280001 thru 18280944
182T	18280945 thru 18281917
T182T	T18208001 thru T18208704

DESCRIPTION

This modification kit provides instructions and parts to replace the Lamar Starter with a new Sky-Tec Starter. A new starter relay is also installed.

APPROVAL

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

REFERENCE

SB07-80-01

CHANGE IN WEIGHT AND BALANCE

MODEL	182S/182T/T182T
WEIGHT CHANGE	-1.9 pounds
ARM	-33.16 inches
RESULTANT MOMENT	+63 Inch-Pounds
MOMENT/1000	0.063 Inch-Pounds

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MATERIAL INFORMATION

NOTE: The parts below cover installation for one airplane.

NEW P/N	QUANTITY	DESCRIPTION	OLD P/N	DISPOSITION
MK182-80-01	1	Kit, consisting of the following parts:		
LW31-1.16	1	Bolt		
S1781-2	2	Connector (Standoff)	None	
S2209A5A	2	Tie Strap (Blue)		
S2209-5	20	Tie Strap		
S2574-2	1	Nut, Nylon	None	
STD1410	3	Nut		
STD475	4	Lock Washer		
X61-0027	1	Starter Relay	X61-0012	Discard
	1	Instructions		

In addition to the MK182-80-01 kit, the part that follows will also be necessary:

NEW P/N	QUANTITY	DESCRIPTION	OLD P/N	DISPOSITION
149-NL	1	Starter	PM2401 (Lycoming P/N 31B22207)	Discard

In addition to the MK182-80-01 kit, the part listed below may be necessary for Model T182T airplanes:

NEW P/N	QUANTITY	DESCRIPTION	OLD P/N	DISPOSITION
0770512-7	1	Start Cable Assembly	0770512-5	Discard

ACCOMPLISHMENT INSTRUCTIONS

1. Prepare the airplane for maintenance.
 - A. Make sure that all switches are in the OFF/NORM position.
 - B. Disconnect electrical power from the airplane.
 - (1) Disconnect the airplane battery.
 - (2) Disconnect external electrical power.
 - C. Attach maintenance warning tags to the battery and external power receptacle that have "DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS" written on them.
2. (Refer to Figure 1, Detail B.) Replace the starter as follows:
 - A. Remove the upper and the lower engine cowl to get access to the starter. (Refer to the Model 182/T182 Series 1997 and On Maintenance Manual, Chapter 71, Cowl - Maintenance Practices.)
 - B. Remove the alternator/starter connecting link from the starter as necessary. Keep the attaching hardware. (Refer to the Model 182/T182 Series 1997 and On Maintenance Manual, Chapter 24,

Alternator - Maintenance Practices.) (Refer to the Model 182/T182 Series 1997 and On Maintenance Manual, Chapter 80, Starter - Maintenance Practices.)

- C. Remove and discard the PM2401 Starter and attaching hardware. (Refer to the Model 182/T182 Series 1997 and On Maintenance Manual, Chapter 80, Starter - Maintenance Practices.)
- D. Install the 149-NL Starter as follows:
 - (1) Discard the jumper wire that comes with the starter. You will not need it.
 - (2) Remove and discard the S Terminal nut that comes with the starter and install the S2574-2 Nylon Nut on the S Terminal.
 - (3) With the three STD1410 Nuts, one LW31-1.16 Bolt, and four STD475 Lock Washers, install the 149-NL Starter. (Refer to the Model 182/T182 Series 1997 and On Maintenance Manual, Chapter 80, Starter - Maintenance Practices.)

CAUTION: BEFORE YOU TORQUE THE ACCESSORY BRACKETS, TORQUE THE NUTS AND THE BOLT THAT ATTACH THE 149-NL STARTER TO THE ENGINE.

- (4) Torque the LW31-1.16 Bolt and the three STD1410 Nuts to 204 inch-pounds. (Refer to the Model 182/T182 Series 1997 and On Maintenance Manual, Chapter 20, Torque Data - Maintenance Practices.)
 - (5) Attach the alternator/starter connecting link to the starter as follows:
 - (a) Attach the alternator/starter connecting link to the starter with the kept attaching hardware, and torque to 204 inch-pounds. (Refer to the Model 182/T182 Series 1997 and On Maintenance Manual, Chapter 80, Starter - Maintenance Practices.)
 - (b) Attach the alternator/starter connecting link to the alternator with the kept attaching hardware, and torque to from 235 to 255 inch-pounds. (Refer to the Model 182/T182 Series 1997 and On Maintenance Manual, Chapter 24, Alternator - Maintenance Practices.)
3. Replace the X61-0012 Starter Relay with the X61-0027 Starter Relay as follows:
- A. Remove the power junction box cover. (Refer to the Model 182/T182 Series 1997 and On Maintenance Manual, Chapter 24, Power Junction Box - Maintenance Practices.)
 - B. Remove and discard the X61-0012 Starter Relay. (Refer to the Model 182/T182 Series 1997 and On Maintenance Manual, Chapter 24, Power Junction Box - Maintenance Practices.)
 - C. Install the X61-0027 Starter Relay. (Refer to the Model 182/T182 Series 1997 and On Maintenance Manual, Chapter 24, Power Junction Box - Maintenance Practices.)
4. (Refer to Figure 1, Detail B and Figure 2.) Attach the existing 0770512-3 (or 0770512-5) Start Cable Assembly to the starter relay and to the starter as follows:
- NOTE:** The 0770512-3 Start Cable Assembly is installed on 182S and 182T model airplanes. The 0770512-5 Start Cable Assembly is installed on T182T model airplanes.
- A. Connect the ring terminal on the end of the 0770512-3 (or 0770512-5) Start Cable Assembly to the stud on the X61-0027 Starter Relay.
 - B. Torque the stud nut to 40 inch-pounds, +5 or -5 inch-pounds.
 - C. On some airplanes, you may have to make small adjustments to the routing of the 0770512-3 (or 0770512-5) Start Cable Assembly to make sure that there is sufficient length to attach the cable ring terminal on the power terminal stud on the starter.
 - (1) If the 0770512-3 (or 0770512-5) Start Cable Assembly has the necessary length to connect to the new 149-NL Starter, attach the 0770512-3 (or 0770512-5) Start Cable Assembly as necessary with S2209-5 Tie Straps to the wire bundle and go to Step 4D.

- (2) (For some T182T model airplanes) If the 0770512-5 Start Cable Assembly does not have the necessary length to connect to the new 149-NL Starter, you must do as follows:
- (a) Remove the 0770512-5 Start Cable Assembly from the airplane.
 - (b) Install and do the routing of the new 0770512-7 Start Cable Assembly along the existing wire bundle.
 - (c) Attach the 0770512-7 Start Cable Assembly as necessary with S2209-5 Tie Straps to the wire bundle and go to Step 4D.
- D. Do the routing of the 0770512-3 (or 0770512-5 or 0770512-7) Start Cable Assembly to the 149-NL Starter with the two blue S2209A5A Tie Straps, one S2209-5 Tie Strap, and two S1781-2 Connectors (Standoffs). Install the S1781-2 Connectors (Standoffs) in a position that does not let the 0770512-3 (or 0770512-5 or 0770512-7) Start Cable Assembly move and that gives the maximum distance possible between the starter and the 0770512-3 (or 0770512-5 or 0770512-7) Start Cable Assembly.

CAUTION: INSTALL ONLY THE METRIC NUT THAT IS SUPPLIED WITH THE 149-NL STARTER. THE POWER TERMINAL IS A METRIC STUD.

- E. Connect the ring terminal on the end of the 0770512-3 (or 0770512-5 or 0770512-7) Start Cable Assembly to the power terminal stud on the 149-NL Starter.
 - F. Torque the power terminal stud nut to 50 inch-pounds +5 or -6 inch-pounds, and install the protective boot that is on the 0770512-3 (or 0770512-5 or 0770512-7) Start Cable Assembly over the terminal.
5. Install the power junction box cover. (Refer to the Model 182/T182 Series 1997 and On Maintenance Manual, Chapter 24, Power Junction Box - Maintenance Practices.)
 6. Install the upper and the lower cowl. (Refer to the Model 182/T182 Series 1997 and On Maintenance Manual, Chapter 71, Cowl - Maintenance Practices.)
 7. Remove maintenance warning tags from the battery and the external power receptacle, and connect the battery.
 8. Do an operational test of the starter system.
 9. Do a revision of the weight and balance information for the airplane to incorporate the effect of this modification.
 10. Make an entry in the airplane logbook stating that this Modification Kit has been installed.

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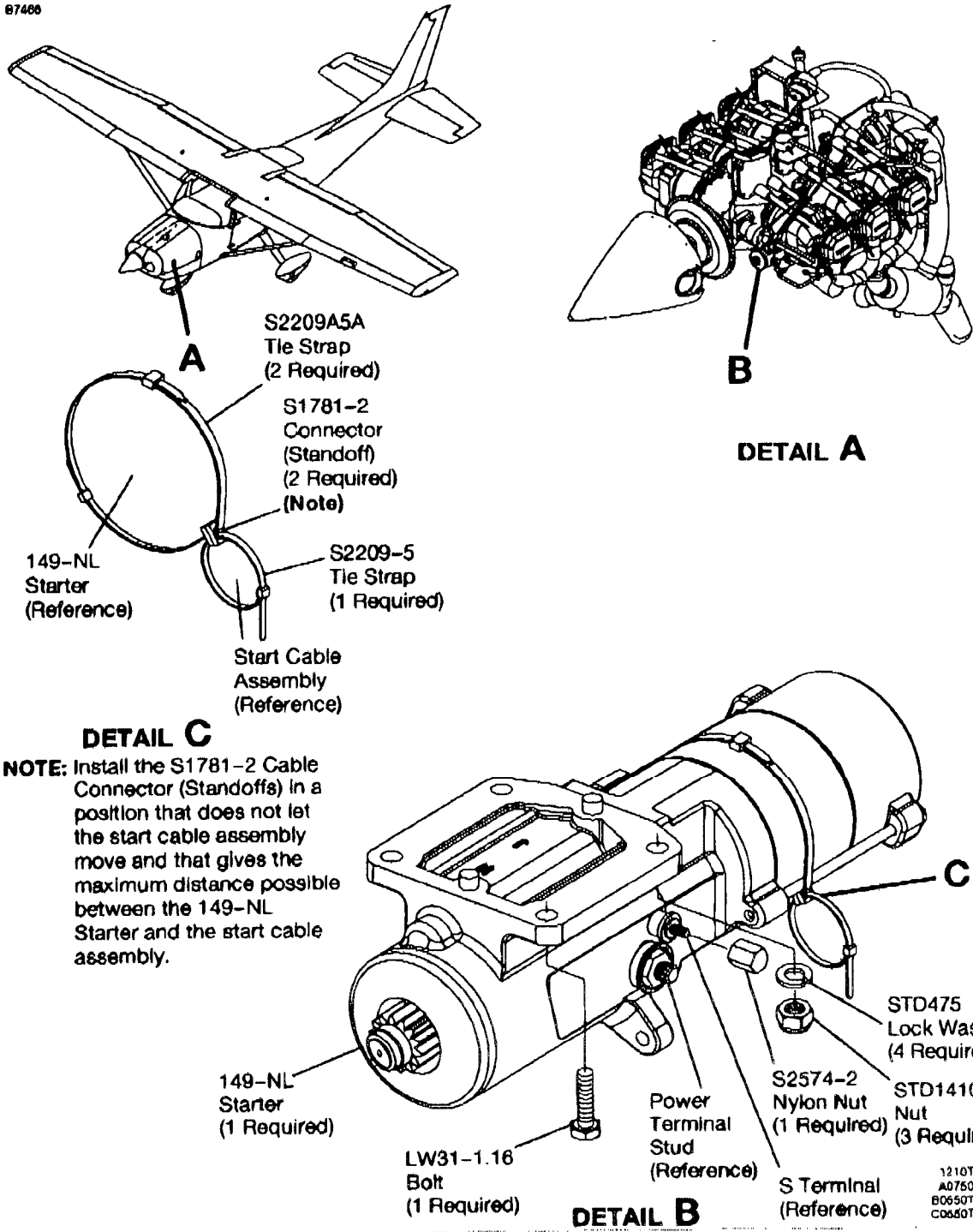
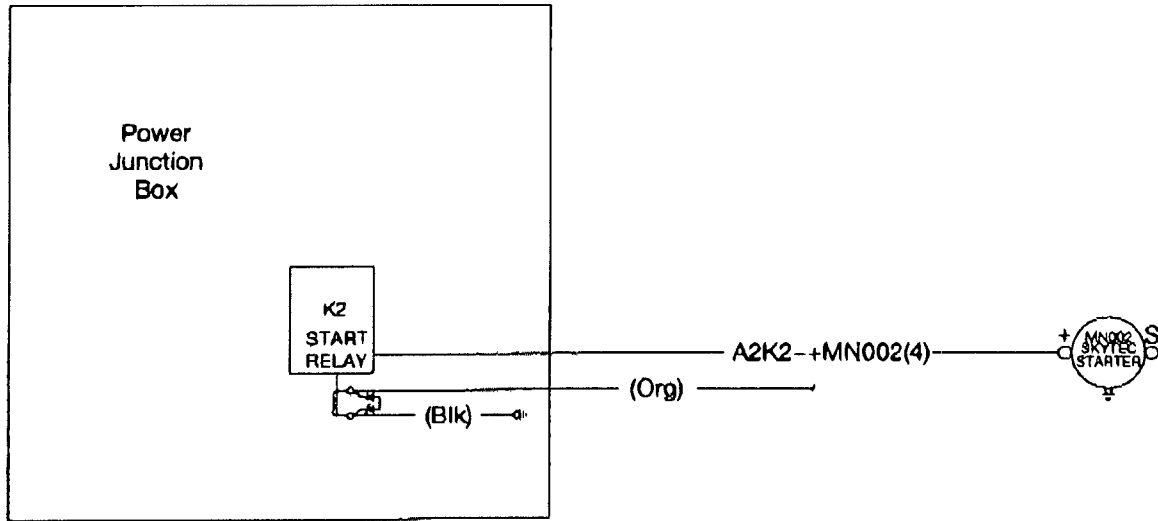


Figure 1. 182 Sky-Tec Starter Installation (Sheet 1)



0770512

Figure 2. 0770512-3 (or 0770512-5 or 0770512-7) Start Cable Assembly Installation (Sheet 1)