



Instructions for Continued Airworthiness

McFarlane Aviation, LLC. Part Number PSK1101-1 BRACKET-GEAR MOD; PPA1201-1, ANGLE, LANDING GEAR ATTACH; and PPA1301-1 & 1301-2, BRACKET, LANDING GEAR SUPPORT.
FAA PMA Number: PQ3732CE

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www.McFarlaneAviation.com/ICA

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INTRODUCTION

This document is intended to provide for the continued airworthiness of parts approved under the following McFarlane Aviation FAA-approved STCs originally from P Ponk Aviation:

1. STC # SA2918NM

This STC covers a main landing gear modification bracket (P/N PSK1101-1). This approved bracket is offered in the PSK1101 kit with attaching hardware and other parts for installation of the bracket in accordance with the PSK-1100 installation instructions. It is eligible for installation on Cessna 170, 180, 185 aircraft and Regal Air 305 aircraft. The kit is designed to reinforce the landing gear at the attach point to improve strength to resist drag loads and side loads. This improved strength prevents the leg from folding under when subjected to large sideloads due to hard landings, rough terrain, and/or ground loops. Only one kit is required per aircraft.

2. STC # SA4170NM

This STC covers replacement left and right outboard landing gear support brackets (P/Ns PPA1301-1 & PPA1301-2) and inboard landing gear attachment angle brackets (P/N PPA1201-1) eligible for installation on Cessna 170, 180, and 185 aircraft. The outboard and inboard landing gear support brackets are redesigned for superior strength and corrosion resistance to reinforce the main gear box structure at the connection of the landing gear to the body. This improved strength reduces the risk of gear failure and structural damage due to hard landings, rough terrain, and/or ground loops. PPA1301-1 is the bracket for the left gear and PPA1301-2 is the bracket for the right gear. PPA1201-1 is useable on both left gear and right gear.

Refer to the basic airplane model service and parts manuals for all items not related to the installation of the following McFarlane Aviation, LLC. Parts:

- PSK1101: Gear Mod Kit
- PSK1101-1: BRACKET – GEAR MOD
- PPA1201-1: ANGLE, LANDING GEAR ATTACH
- PPA1301-1: BRACKET, LANDING GEAR SUPT
- PPA1301-2: BRACKET, LANDING GEAR SUPT

Hereafter, the above listed parts will be referred to as follows, for consistency and clarity:

- PSK1101: Gear Mod Kit
- PSK1101-1: Gear Mod Bracket
- PPA1201-1: Inner Angle Bracket
- PPA1301-1: Outboard Landing Gear Bracket (Left)
- PPA1301-2: Outboard Landing Gear Bracket (Right)

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SYSTEM DESCRIPTION

The parts approved under STC # SA2918NM and STC # SA4170NM all install in the main landing gear box (Figure 1).

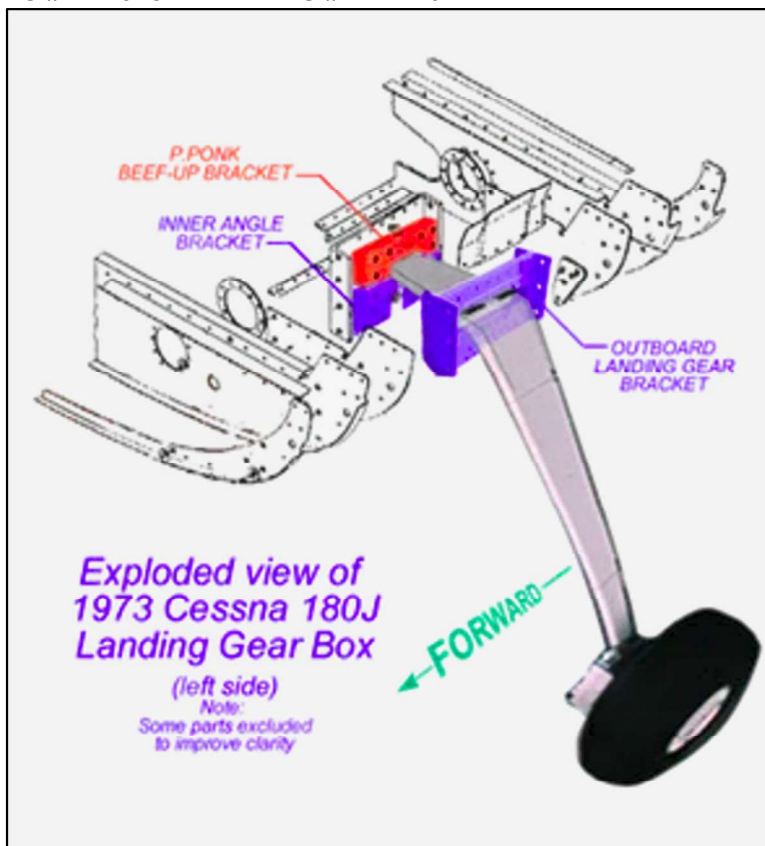


Figure 1: Exploded View, 1973 Cessna 180J Landing Gear Box, Left (PSK1101-1 upper left, PPA1201 lower left, PPA1301-1 lower right)

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PSK1101 & PSK1101-1

The gear mod kit installs at the attach point of the main gear legs and is to be installed in accordance with the PSK-1100 installation instructions. Only one kit is required for each aircraft as the gear mod kit comes with enough parts to reinforce the main gear leg on both sides of the aircraft. The PSK1101-1 bracket (Qty 2 provided in the kit) attaches to the inboard gear box bulkhead just above the gear leg attach point, one bracket for each main gear leg. The fasteners required for installation of the reinforcement brackets are detailed in the installation instructions (Drawing PSK-1100) provided with the kit.

The original installation (without the gear mod kit) is shown in Figure 2. The modified installation (with the PSK1101 gear mod kit) is shown in Figure 3 (this figure is a simplified depiction for reference only, see PSK-1100 for instructions). For the PSK1101 gear mod kit installation, the longer AN7-31A bolt now carries any drag loads in double shear, and any side loads are also carried by the PSK1101-1 bracket and its 6 AN5 bolts (in addition to the pre-existing mounting bracket and its 10 AN5 bolts). These adjustments increase the strength of the main gear and mitigate the tendency of the gear legs to collapse in the event of high side loads due to factors such as rough terrain and ground loops.

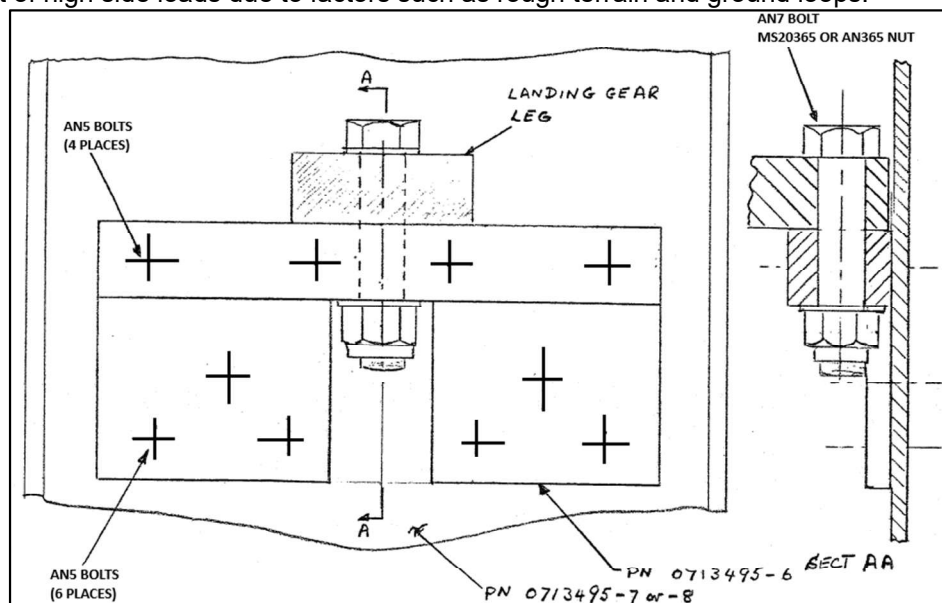


Figure 2: Original Installation, Right Main Gear

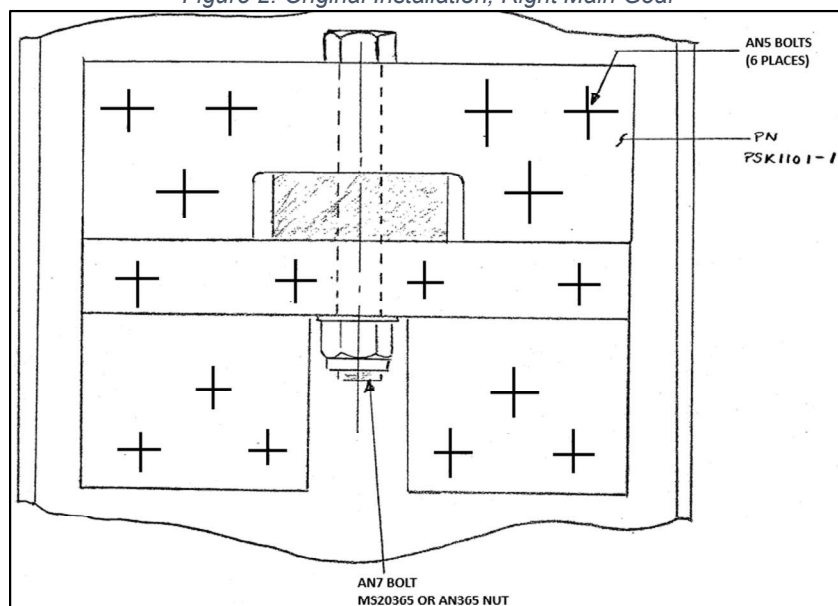


Figure 3: Modified Installation, Right Main Gear

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PPA1201-1

The PPA1201-1 Inner Angle Bracket (Figure 4) is a replacement for the original inboard gear box bracket. It also bolts to the inboard gear box bulkhead, but just under the main gear leg attach point (rather than above it, as in the case of the PSK1101-1 bracket provided in gear mod kit PSK1101). Two of these brackets are required for each aircraft, one bracket for each main gear assembly. This bracket has been redesigned for superior strength and corrosion resistance to the original Cessna parts.

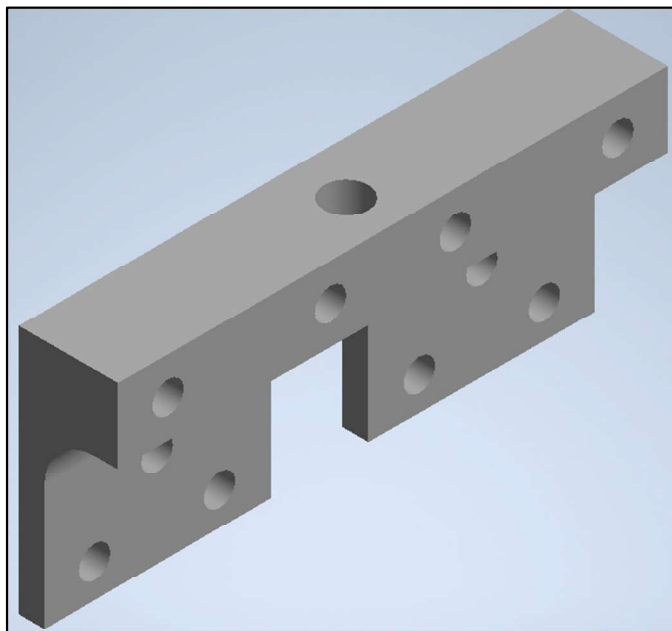


Figure 4: PPA1201-1 Inboard Angle Bracket

PPA1301-1 & PPA1301-2

The PPA1301-1 and PPA1301-2 Outboard Landing Gear Brackets (Figure 5) are replacements for the original outboard gear box brackets. They bolt to the outboard gear box bulkhead. One of each of these brackets is required for each aircraft: the PPA1301-1 for the left-hand main gear, and the PPA1301-2 for the right-hand main gear. These brackets have been redesigned for superior strength and corrosion resistance to the original Cessna parts.

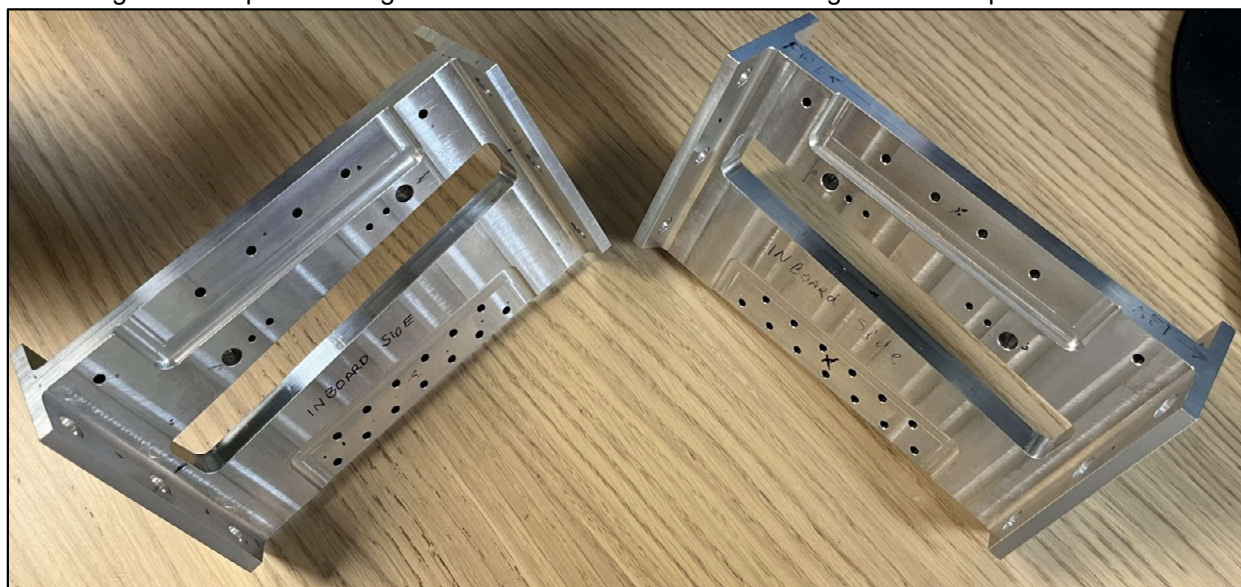


Figure 5: PPA1301-1 (Left) and PPA1301-2 (Right) Outboard Landing Gear Brackets

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SPECIAL OPERATING INFORMATION

The control and operation of the landing gear does not change with the installation of:

- The PSK1101-1 Gear Mod Bracket,
- The PPA1201-1 Inner Angle Bracket, or
- The PPA1301-1 & PPA1301-2 Outboard Landing Gear Brackets.

See applicable Service Manual for the operational control of this system.

PART REMOVAL, REPLACEMENT, AND SERVICE INFORMATION

Remove the Cessna outboard landing gear support brackets and install McFarlane PPA1301-1 and PPA1301-2 per the applicable Cessna or Regal Air Model Service Manual.

Remove the Cessna attachment angles and install McFarlane PPA1201-1 per the applicable Cessna or Regal Air Model Service Manual.

Refer to the applicable Cessna Service Manual for installation/maintenance instructions and the applicable Cessna Illustrated Parts Catalog for component part numbers.

The following instructions specific to the McFarlane parts apply:

Drawing PSK-1100, provided with purchase of the kit, details the installation instructions for PSK1101-1 brackets and attaching hardware.

TROUBLESHOOTING

Refer to the applicable Cessna or Regal Air Model Service Manual for troubleshooting instructions and the applicable Cessna or Regal Air Illustrated Parts Catalog for component part numbers.

PLACARDS

None applicable.

DATA

All information to support the continued airworthiness of this replacement part is as defined herein and contained in the relevant Cessna or Regal Air Service Manuals and Illustrated Parts Catalogs.

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INSPECTION

Inspection intervals for the main landing gear and surrounding structures are affected by the use of the McFarlane PSK1101-1 Gear Mod Brackets, PPA1201-1 Inner Angle Brackets, and/or PPA1301-1 & PA1301-2 Outboard Landing Gear Brackets. Refer to the Cessna or Regal Air Service Manuals and Service Letters for Inspection Instructions. For additional instructions specific to the McFarlane PSK1101-1 Gear Mod Brackets, PPA1201-1 Inner Angle Brackets, and/or PPA1301-1 & PA1301-2 Outboard Landing Gear Brackets, refer to the Airworthiness Limitations Section of this ICA below.

RECOMMENDED OVERHAUL PERIODS

No additional overhaul time limitations exist with the use of these parts.

AIRWORTHINESS LIMITATIONS

The Airworthiness Limitations section is FAA approved and specifies maintenance required under Sec. 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved. There are additional airworthiness limitations specific to the McFarlane PSK1101-1 Gear Mod Brackets, PPA1201-1 Inner Angle Brackets, and/or PPA1301-1 & PA1301-2 Outboard Landing Gear Brackets that exist as follows:

PSK1101-1

Parts should be inspected every 100 hours or immediately following a "hard" landing for security of attachment, cracks, metal distortion, corrosion, condition of coatings, and any other apparent damage. This includes attaching hardware. Any defects noted should be resolved per the Cessna Service Manual for the aircraft the parts are installed in.

PPA1201-1, PPA1301-1, & PPA1301-2

Parts should be inspected at every Annual Inspection or immediately following a "hard" landing for security of attachment, cracks, metal distortion, corrosion, condition of coatings, and any other apparent damage. Any defects noted should be resolved per the Cessna Service Manual for the aircraft the parts are installed in, or the parts should be replaced.

PAUL J

KALOWSKI JR

Digitally signed by PAUL
J KALOWSKI JR
Date: 2026.08.10
09:07:17 -05'00'

for Jason S. Deutschman
Acting Manager, Central Certification Branch
Compliance & Airworthiness Division
Aircraft Certification Service

ASSISTANCE & REVISIONS

ICA revisions shall be made available on the McFarlane website, www.mcfarlaneaviation.com/ICA. For questions or assistance regarding these Instructions for Continued Airworthiness (ICA), contact McFarlane Aviation, LLC. via email or phone. Email: engineering@mcfarlaneaviation.com Phone: 1-800-544-8594 (within the US) or 1-785-594-2741.