



Twin Commander Aircraft, LLC

Maintenance Alert

HOW TO IDENTIFY “HEAVY” MAIN LANDING GEAR

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15 August 2024

Ref MA24002

SUBJECT: HOW TO IDENTIFY "HEAVY" MAIN LANDING GEAR

EFFECTIVITY:

Models	S/N
500 A, B, U, S	ALL
560F	ALL
680F, FP, FL, FL(P), T, V, W	ALL
681	ALL
685	ALL
690, A, B, C, D	ALL
695, A, B	ALL

REASON FOR PUBLICATION: Reports from the field have identified aircraft models with the incorrect main landing gear (MLG) installed. Although the gear is certified for particular aircraft models, it is being installed on other models. The IPC has been noted as correctly stating the applicable aircraft models.

This Alert is to help identify aircraft models that are approved to have the higher gross weight "Heavy" MLG, and how to identify higher gross weight designated MLG, when placards are missing.

The aircraft models and S/N's below were certified with the higher gross weight "Heavy" MLG.

690C	11734-11735
690D	15039-15042
695A	96092-96200
695B	ALL

Higher gross weight "Heavy" MLG are identified by the following part numbers.

Manufactured	Spares
400-139-511 & -512	400-139-525 & -526
400-139-513 & -514	400-139-521 & -522
400-139-515 & -516	400-139-515 & -516
400-139-517 & -518	400-139-525 & -526

MAINTENANCE ALERT 24002
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BY WHOM WORK SHALL BE ACCOMPLISHED

FAA A&P Certificated Mechanic or FAA Repair Station

WHEN WORK SHALL BE ACCOMPLISHED

During landing gear inspection, repair, or overhaul.
Or when an aircraft is suspected of having the incorrect MLG installed.

INSTRUCTIONS:

In many cases the MLG Identification Plate, located on the forward, center line of the outer body housing is missing, damaged, or has been removed. Use the methods below to help identify high gross weight “Heavy” MLG.

1. Perform an inspection of the Outboard MLG Pins, on the LH and RH sides of the aircraft. See **Figure 1**.
2. Higher Gross Weight MLG will have a longer outboard MLG pivot pin (P/N 730083-1). The Pin Shaft Lengths (below), excluding the pin head length. The Pins may be marked with a P/N; however, the part marking may have been burnished off the part.
 - a. Short Pin, P/N ED12496-1, length 3.30
 - b. Long Pin, P/N 730083-1, length 3.50

Heavy Gross Weight MLG pin when installed on an aircraft not certified for Heavy Gross Weight MLG will result in the outboard MLG pin heads protruding proud of the MLG trunnion or may be shimmed to take-up the extra length.

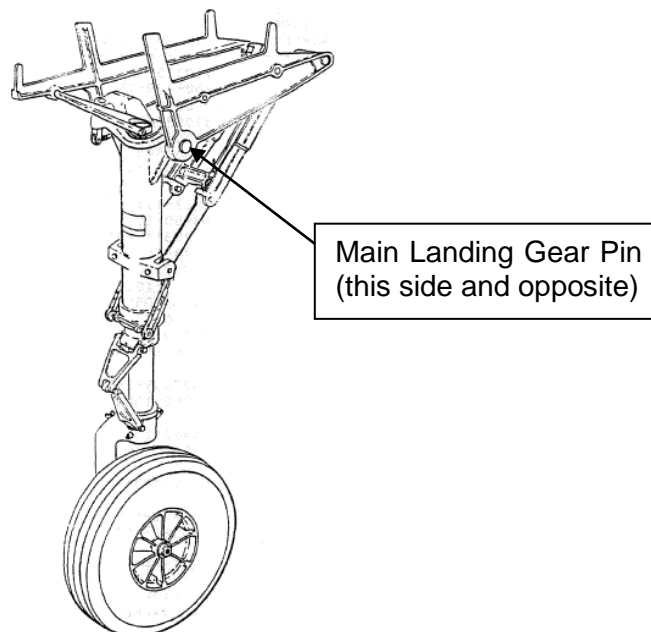


Figure 1

MAINTENANCE ALERT 24002
HOW TO IDENTIFY “HEAVY” MAIN LANDING GEAR

REPORTING:

Report findings to Twin Commander Aircraft LLC, noting aircraft model, serial number, total aircraft hours/cycles and non-compliances found.

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