



SUBJECT: INCREASED AIRSPEED LIMITATIONS - MODEL M20J

MODELS

AFFECTED: M20J -- 24-0002 thru 24-0170
(All subsequent M20J aircraft have been updated at the factory).

COMPLIANCE: MANDATORY before operation beyond V_{ne} of 200 MPH.

INTRODUCTION: The purpose of this bulletin is to provide instructions and replacement parts necessary to increase the design airspeed limitations of Model M20J aircraft. The old and new airspeed limitations are as follows:

	Old (CAS-MPH)	New (CAS-MPH)
V_{ne} (Never exceed speed)	200	225
V_{no} (Max structural cruising speed)	175	200

The changes to the aircraft are simply a replacement of the airspeed indicator, and removal of the propeller high pitch stop spacer. Replacement of appropriate Airplane Flight Manual pages is also required.

- INSTRUCTIONS:
1. Replace 820216-Basic airspeed indicator with one listed in kits below. (NOTE: Leak check pitot and static system in accord with AC 43.13-1A, Chapter 16, paragraph 913 and 914.)
 2. Remove prop spinner and remove high pitch propeller stop spacer per McCauley Service Bulletin #126 (copy attached). Re-install spinner as removed. NOTE: High pitch blade angle at 30 inch station should now be $29.5 \pm .5^\circ$.
 3. Remove and replace Pilot's Operating Handbook pages per Service Kit package.
 4. Make appropriate log book entry. Return old, undamaged airspeed indicator along with completed Compliance Card to Mooney Aircraft Corporation.
 5. Make appropriate entry in Equipment List for new airspeed indicator installed. (Pages 6-14 and 6-15 of the Pilot's Operating Handbook.)

S.B. Kit M20-198-1: (No charge, exchange)	820216-505 Airspeed Indicator (MPH and Knots) 1 ea. Service Bulletin #126 McCauley . . . 1 ea. Rev. "A" to Pilot's Operating Handbook 1 ea.
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S.B. Kit M20-198-2: (No charge, exchange)	820296-505 Airspeed Indicator (Knots only) 1 ea. Service Bulletin #126 McCauley . . . 1 ea. Rev. "A" to Pilot's Operating Handbook 1 ea.
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S.B. Kit M20-198-3: (\$60.00 exchange)	820308-505 <u>True</u> Airspeed Indicator (MPH and Knots) 1 ea. Service Bulletin #126 McCauley . . . 1 ea. Rev. "A" to Pilot's Operating Handbook 1 ea.
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S.B. Kit M20-198-4: (\$60.00 exchange)	820308-507 <u>True</u> Airspeed Indicator (Knots only) 1 ea. Service Bulletin #126 McCauley . . . 1 ea. Rev. "A" to Pilot's Operating Handbook 1 ea.
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NOTE: Kit prices indicated expire 8/1/77.