

## SERVICE BULLETIN

**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:

<u>Speed</u>	<u>Old (CAS-MPH)</u>	<u>New (CAS-MPH)</u>
Vne (Never exceed speed)	200	225
Vno (Max structural cruising speed)	175	200

The changes to the aircraft involve replacement of  
the airspeed indicator, removal of the propeller high  
pitch stop spacer and updating of the Pilot's Operating  
Handbook.

**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. Install autopilot limitations placard on or adjacent  
to the autopilot control head. Install throttle  
operation caution placard between throttle and prop  
control levers on the quadrant cover.

(NOTE: Clean surface for placard installation  
lightly with isopropyl alcohol prior to placard  
installation.)

- Instructions cont... 4. Remove and replace Pilot's Operating Handbook pages per Service Kit package.
5. Make appropriate log book entry. Return old, undamaged airspeed indicator along with completed Compliance Card to Mooney Aircraft Corporation.

S. B. Kit M20-198-1: 820216-505 Airspeed Indicator  
(No charge, exchange) (MPH and Knots) . . . . . 1 ea.  
Service Bulletin #126 McCauley . . . . . 1 ea.  
Rev. "A" to Pilot's Operating Handbook . . . 1 ea.  
150080-351 Placard - A/P Limit . . . . . 1 ea.  
150080-359 Placard . . . . . 1 ea.

S. B. Kit M20-198-2: 820296-505 Airspeed Indicator  
(No charge, exchange) (Knots only) . . . . . 1 ea.  
Service Bulletin #126 McCauley . . . . . 1 ea.  
Rev. "A" to Pilot's Operating Handbook . . . 1 ea.  
150080-351 Placard - A/P Limit . . . . . 1 ea.  
150080-359 Placard . . . . . 1 ea.

S. B. Kit M20-198-3: 820308-505 True Airspeed Indicator  
(\$60.00 exchange) (MPH and Knots) . . . . . 1 ea.  
Service Bulletin #126 McCauley . . . . . 1 ea.  
Rev. "A" to Pilot's Operating Handbook . . . 1 ea.  
150080-351 Placard - A/P Limit . . . . . 1 ea.  
150080-359 Placard . . . . . 1 ea.

S. B. Kit M20-198-4: 820308-507 True Airspeed Indicator  
(\$60.00 exchange) (Knots only) . . . . . 1 ea.  
Service Bulletin #126 McCauley . . . . . 1 ea.  
Rev. "A" to Pilot's Operating Handbook . . . 1 ea.  
150080-351 Placard - A/P Limit . . . . . 1 ea.  
150080-359 Placard . . . . . 1 ea.

- NOTES: 1) Kit prices indicated expire 7/1/77.
- 2) All aircraft with Brittain LSA6, B-5, B-11, B-12, King KFC-200, Pathfinder "P" Series, or Edo-Aire Century Series installed must install 150080-351 placard on flight panel or autopilot control limiting use to original placard speeds.