



SUBJECT: Hartzell Propeller

MODELS AFFECTED: M20E S/N 400, 470 thru 831 (1965 Models)

TIME OF COMPLIANCE: At Owners Discretion

INTRODUCTION: Vibration may be reduced on some M20E aircraft if the propeller is rotated with respect to the engine crankshaft in accordance with Hartzell Service Letter No. 40 dated November 16, 1965. Send the propeller to Hartzell Propeller, Inc., Piqua, Ohio, for rework or take the propeller to the nearest Hartzell distributor or Hartzell repair station as listed on Page 3 of this Service Letter or replace the propeller with HC-C2YK-1/7666-2.

INSTRUCTIONS: Removing Propeller

1. Remove propeller spinner by taking off fourteen screws and washers.
2. Loosen six bolts from the propeller flange and gently remove propeller from the engine shaft noting position of the propeller in reference to the engine as per Figure 1.
3. Carefully remove the "O" ring from flange mounting.
4. Remove spinner adapter by taking off twelve nuts and washers noting location of spinner adapter as per Figure 1.

Installing Propeller

1. Clean engine shaft and propeller hub at flange.
2. Install spinner adapter, rotating 60° clockwise (looking fwd) from original position.
3. Insert new "O" ring into the groove located inside the flange mounting, lubricating it liberally with clean oil.
4. Install propeller onto shaft, rotating propeller 60° clockwise (looking fwd) from original position of propeller.
5. Torque the 1/2" studs to 60-70 ft. lb. and safety wire pairs of studs together with AN 995C32 safety wire.
6. Install spinner dome.

COMPLIANCE: Upon compliance of this Service Letter, fill out the enclosed card and mail it to Mooney Aircraft, Inc. for our files.

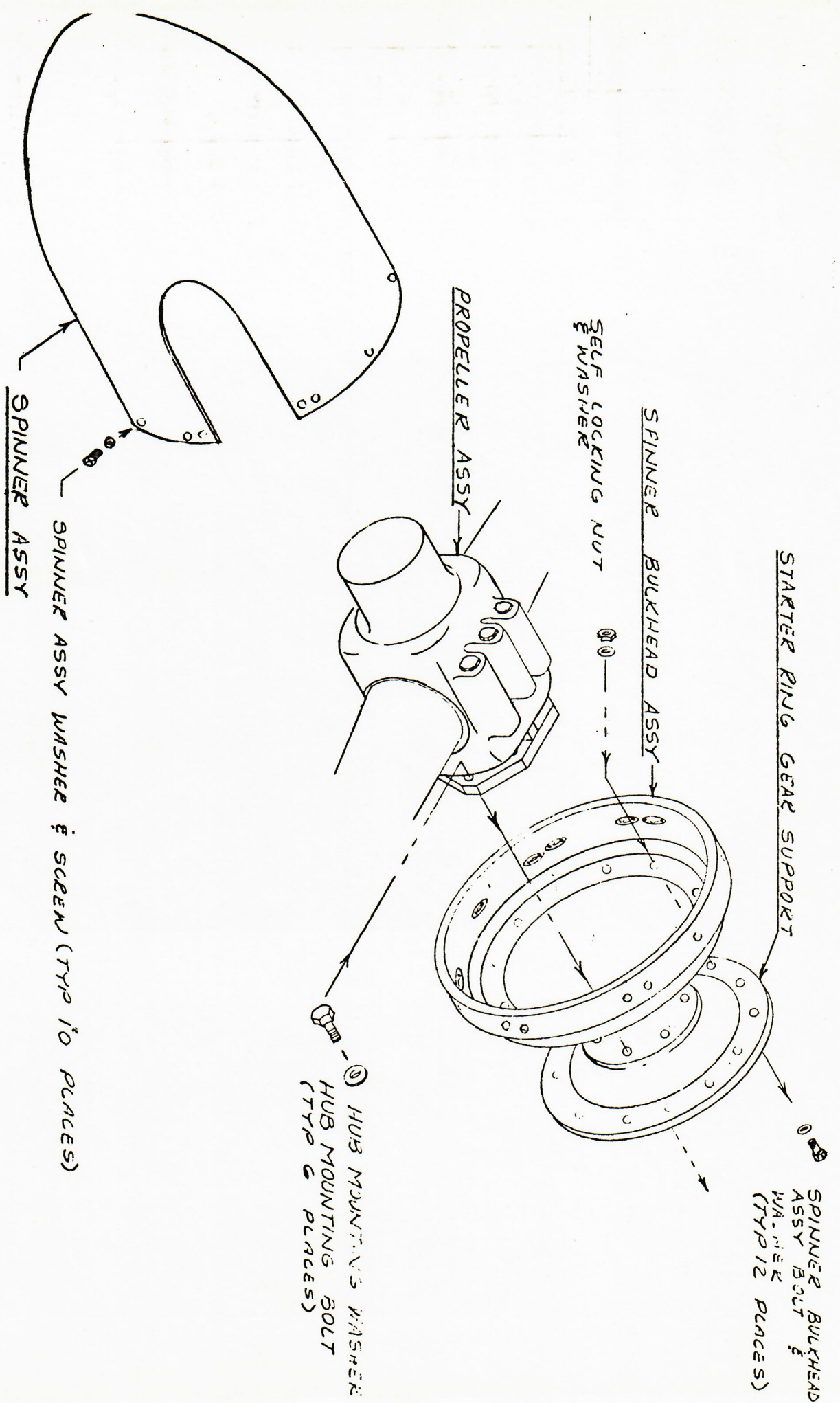


FIGURE 1

HARTZELL DISTRIBUTORS

Leavens Bros., Ltd.
3220 Dufferin St.
Toronto 19, Ontario, Canada
Attn: Mr. A. McNaughton

Maxwell Aircraft Service
Crystal Airport
Robbinsdale, Minnesota
Attn: Mr. K. E. Maxwell

Ottosan Propeller Service, Inc.
2536 E. Harrison St.
Phoenix, Arizona
Attn: Mr. Don Ottosen

Sensenich Corporation
P. O. Box 1168
Lancaster, Pennsylvania
Attn: Mr. Don Strickler

L. L. Walker Company
Box 5158
Houston 12, Texas
Attn: Mr. L. L. Walker, Jr.

West Coast Propeller Co.
Box 101
Burbank, California
Attn: Mr. Carl Bailey

Propeller Service of Miami, Inc.
P. O. Box 756
International Airport
Miami, Florida 33148
Attn: Mr. Ed Derringer

The Golden Propeller Co.
20401 Hesperian Blvd.
Hayward, California