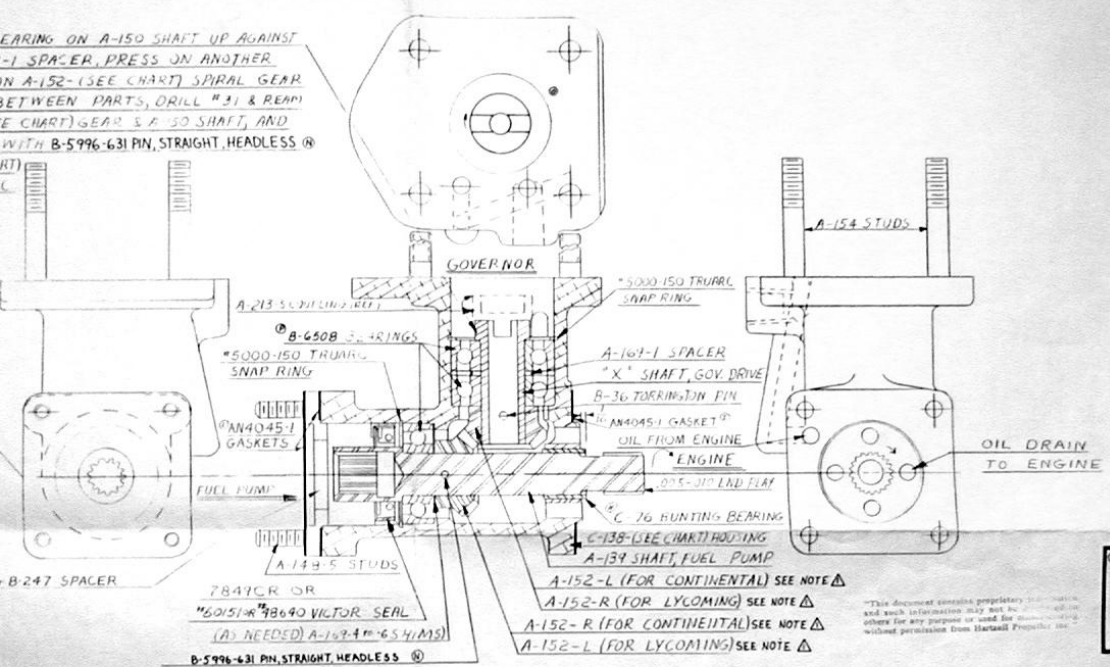
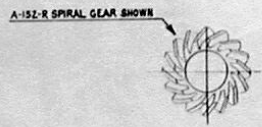


NOTE: PRESS B-650B BEARING ON A-150 SHAFT UP AGAINST SHOULDER, SLIP ON A-169-1 SPACER, PRESS ON ANOTHER B-650B BEARING, PRESS ON A-152- (SEE CHART) SPIRAL GEAR UNTIL NO PLAY EXISTS BETWEEN PARTS, DRILL #31 & REAM 1/25 HOLE THRU A-152- (SEE CHART) GEAR & A-50 SHAFT, AND STAKE GEAR TO SHAFT WITH B-5996-631 PIN, STRAIGHT, HEADLESS @ ASSEMBLE IN C-138- (SEE CHART) BODY WITH #5000-150 TRUARC SNAP RING.



PARTS LIST

LYCOMING	CONTINENTAL
C-137-2B	C-137-1B C-137-3B T DRIVE
C-138-1	C-138-1 HADWIN T DRIVE
C-76	C-76 BUNTING BEARING (76)
A-150	A-150 A-150 R-254 SHAFT (SEE CHART)
B-650B	B-650B BEARING
A-169-1	A-169-1 SPACER BEARING
B-650B	B-650B BEARING
A-152-L	A-152-L SPIRAL GEAR
B-36	B-36 TORRINGTON NEEDLE PIN (M)
#5000-150	#5000-150 TRUARC SNAP RING
A-154	A-154 STUDS, GOV. MTS.
A-148-5	A-148-5 STUDS, FUEL PUMP MTS.
A-139	A-139 SHAFT, FUEL PUMP
B-650B	B-650B BEARING
A-169-4	A-169-4 SHIMS (AS NEEDED)
A-152-L	A-152-L SPIRAL GEAR
C-76	C-76 BUNTING BEARING
#5000-150	#5000-150 TRUARC SNAP RING
SHIM	#50151 OR #8640 VICTOR SEAL OR 784YCR CHICAGO RAWHIDE
SAME	#530371 or B-247 SPACER, T DRIVE MTG.
A-148-2	A-148-2 STUDS, T DRIVE MTG.
AN4045-1	AN4045-1 GASKETS, T DRIVE MTG.



NOTE: AFTER INSTALLATION OF A-150 SHAFT, PRESS B-650B BEARING ON A-139 SHAFT, PRESS A-152- (SEE CHART) SPIRAL GEAR AND CHECK END PLAY TO .005 TO .010 SHIMS BETWEEN BEARING AND GEAR TO LIMIT END PLAY TO .005 TO .010. DRILL #31 & REAM 1/25 HOLE THRU A-152- (SEE CHART) GEAR AND A-139 SHAFT, AND STAKE GEAR TO SHAFT WITH B-5996-631 PIN, STRAIGHT, HEADLESS. ASSEMBLE WITH #5000-150 TRUARC SNAP RING AND #50151 OR #8640 VICTOR SEAL OR 784YCR CHICAGO RAWHIDE. CLEAN A-148-5 AND A-154 STUDS WITH MEX AND DRY. USE LOCTITE PRIMER GRADE T AND DRY. USE LOCTITE THREAD LOCKING COMPOUND #807. INSTALL AND ALLOW TO DRY.

NOTE: USE ONLY BOSTON GEAR SET OR BROWNING GEAR SETS, DO NOT MIX MANUFACTURERS GEARS.

TEST 25 HP 275 PSI, 1-27-41 OK
 GEAR CAPACITY @ 4300 RPM, 60 IN. LB.
 @ STATIC, 500 IN. LB.
 LYC. ENGINE DRIVE CAPACITY 825 IN. LB.
 GOVERNOR LOAD @ 4300 RPM, 5 IN. LB.
 9-213 CAPACITY @ 72°F 140 IN. LB.
 @ 40°F 200 IN. LB.
 BREAK AWAY TORQUE, 40°F, 36 IN. LB. 120 EA
 A-213 CAPACITY @ 200-250°F, 110 IN. LB.

A-150	CONTINENTAL E-205	C-137-1B	C-138-1	A-152-L	A-152-R
A-254	CONT. E-205, 225	C-137-38	C-138-1	A-152-R	A-152-L
A-150	CONTINENTAL E-205	C-137-1B	C-138-1	A-152-R	A-152-L
A-150	LYCOMING 60-435-C	C-137-2B	C-138-2	A-152-L	A-152-R
SHAFT X	ENGINE	PART NO.	BODY	A-139 GEAR	A-150 GEAR

DO NOT SCALE DWG. REPORT ANY CHANGES	MATERIAL	HEAT-TREAT	FINISH	WEIGHT	2.5"	11.15	71C	1/2-1/4	TOLERANCES (SEE A-213) FRACTIONS & 10 DECIMALS IN IN IN IN IN
HARTZELL PROPELLER INC. PIQUA, OHIO					T DRIVE GOVERNOR & FUEL PUMP				
REPLACES E-137-1B					NO. REQ'D. 5 F				

L	C-137-1B ADDED	1-30-41	C.W.	J.
K	NOTE Δ ADDED	10-1-41	E.W. <td>J.</td>	J.
L	A-148-2 STUDS, T DRIVE MTG.	1-1-41	H.O.P. <td>J.</td>	J.
M	REDRAWN; C-76 WAS B-70	1-28-41	H.O.P. <td>J.</td>	J.
N	CHANGED	DATE	CHECKER	M

C-137-1B