

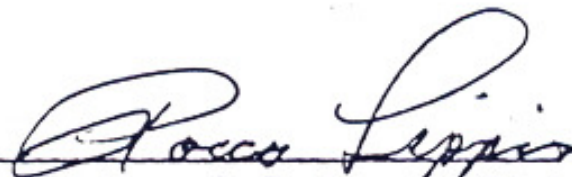
JOHNSTON AIRCRAFT SERVICE, INC.
P.O. BOX 1457
TULARE MUNICIPAL AIRPORT
TULARE, CA 93274

JOHNSTON AIRCRAFT SERVICE, INC.
FAA APPROVED AIRPLANE FLIGHT MANUAL SUPPLEMENT
TO
PIPER PA-36-285 AIRPLANE FLIGHT MANUAL

The information in this document is FAA approved material which, together with the basic Piper PA-36-285 AFM, is applicable and must be carried with the basic manual when the aircraft is modified by the installation of a Lycoming IO-720-A1B engine, Hartzell HC-C3YR-1RF/F8475R constant speed propeller and associated changes in accordance with STC SA3452WE.

The information in this document supersedes the basic manual only where covered in the items contained herein. For Limitations, Procedures and Performance not contained in this supplement, consult the basic manual.

REVISION NO. 1
FAA APPROVED:


Acting Chief, Aircraft Engineering Division
Western Region
Federal Aviation Administration

DATE

11/11/77

I. LIMITATIONS.

Engine: Lycoming IO-720-ALB

Engine Limits: For all operations - 2650 RPM 400 HP

Fuel: 100/130 Octane Aviation Gasoline (Minimum)

Propeller: Hartzell HC-C3YR-1RF/F8475R
Pitch settings at 30 in. station: High 28.2°
Low 14°

Diameter: Maximum not over 86 in.
Minimum not under 82.5 in.

Spinner: 82A2295-1
Propeller Governor Hartzell Model 49F-4-1

Instrument Markings:

Oil temperature -	
Green Arc (Normal Operating Range)	150°F to 245°F
Yellow Arc (Caution Range)	75°F to 100°F
Red Line (Maximum)	245°F
Oil Pressure -	
Green Arc (Normal Operating Range)	60 psi to 90 psi
Yellow Arc (Caution Range)	90 psi to 100 psi
Red Line (Minimum)	25 psi
Red Line (Maximum)	100 psi
Cylinder Head Temperature -	
Red Line (Maximum)	500°F
Fuel Flow -	
Red Line (Maximum)	34 GPH
Tachometer -	
Red Line (Maximum)	2650 RPM

Airspeed Limitations and Instrument

Markings (Calibrated Airspeed):

Maximum Operating Speed 135 MPH (117 KTS)

Placards: On the instrument panel in full view of the pilot -

Delete existing reference to normal category.

Delete "AVOID CONTINUOUS OPERATION ON THE GROUND BETWEEN
950 AND 1150 PROP RPM IN WINDS ABOVE 15 MPH."

Adjacent to Starter Switch, delete - "PUSH TO PRIME".

Delete from Takeoff Checklist - "ALT. AIR --- OFF".

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SUPPLEMENT NO. 1

AFM SUPPLEMENT TO
PIPER PA-36-285

STC SA3452WE

II. PROCEDURES.

Delete: "B. Emergency Fuel Pump Operating Instructions".

III. PERFORMANCE.

Performance with the Lycoming IO-720-A1B engine and Hartzell HC-C3YR-1RF/F8475R propeller is equal to or better than that of the basic unmodified aircraft.

WEIGHT AND BALANCE MODIFICATION

New Items	lbs Weight	inch Arm	inlbs Moment	Date
Airplane as weighed (incl. unusable fuel)	2373	143.7	340937	24-10-75
Cabin Heat System	14.1	110.3	1555	22-01-78
Distributor Inst. - Dry Material	105.0	155.7	16349	22-01-78
Spinner and Spinner Plate	-/- 2.5	43.2	-/- 108	06-07-81
Hydraulic Governor Hartzell F-4-6A	-/- 5.6	18.9	-/- 105.84	06-07-81
Propeller Hartzell HC-C3YF-1RF-F9684	-/- 87.0	45.8	-/- 3985.0	06-07-81
Propeller Hartzell HC-C3YR-1RF-F8475	76.0	43.8	3328.8	06-07-81
Spinner and Spinner Plate	2.5	42.2	105.5	06-07-81
Hydraulic Governor Hartzell 49F-4-1	4.0	53.0	212.0	06-07-81
Engine - Continental 6-285-CA2	-/- 427.0	70.2	-/- 29975.0	06-07-81
Induction Air Filter AC 6485710	-/- 0.9	95.0	-/- 86.0	06-07-81
Fuel Pump Engine Driven TCM638193-1	-/- 0.0	0.0	0.0	06-07-81
System Oil 4 qts	-/- 7.5	87.0	-/- 653.0	06-07-81
Engine - Lycoming IO-720-A1B	599.0	69.2	41450.8	06-07-81
Induction Air Filter AC AAF-100	4.5	58.0	261.0	06-07-81
Oil Cooler PAC 98414	-/- 6.0	85.0	-/- 510.0	06-07-81
Oil Cooler	6.0	85.5	513.0	06-07-81
Battery - 24V 17 Amp Hour	-/- 27.5	108.2	-/- 2976.0	06-07-81
Battery - 24V 17 Amp Hour	27.5	303.0	8332.5	06-07-81
HF Transceiver Narco Com 120	3.5	198.3	694.05	22-01-78
Voltage Converter Narco MP-10	1.0	152.3	152.3	22-01-78
Actual Weight and Balance	2652.1	141.58	375492.11	06-07-81

