

United States of America
Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SA1221GL

This certificate, issued to Eagle Aviation, Inc.
Municipal Airport
Faribault, MN 55021

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations. (See Type Certificate Data Sheet No. 3A24 for complete certification basis.)

Original Product — Type Certificate Number: 3A24
Make: Cessna
Model: 185

Description of Type Design Change:

Installation of fuel quick drain at lower end of accumulator tank at fuselage station 8.12.

Limitations and Conditions:

This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationships between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft. This installation is limited to aircraft Serial Numbers 185-0414 thru 185-03153, only.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: August 6, 1987

Date reissued:

Date of issuance: August 13, 1987

Date amended:



By and for the Administrator

W. F. Horn (Signature)
W. F. Horn
Manager, Chicago Aircraft Certification
Office, ACE-115C

Central Region (Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

EAGLE AVIATION, INC
Municipal Airport
Faribault, Mn.55021

STC NO. SA1221GL

TITLE: FUEL ACCUMULATOR DRAIN VALVE ASSEMBLY

Aircraft Models Affected

Cessna 185

Serial Numbers Affected

185-0414 thru -03153

PARTS LIST:

Quantity	Part Number	Nomenclature
1	203301-04-6S	Tee Fitting
1	CAW-160 1/4" NPT	Quick Drain

CHANGE IN WEIGHT AND BALANCE:

Weight Increase-Negligible

1. Parts Source Information:

See Page 2.

2. Description of Drain Valve Assembly Installation:

See Page 2.

EAGLE AVIATION, INC
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1. PARTS SOURCE INFORMATION:

Tee Fitting--Part Number 203301-04-6S
Manufacturer-Aeroquip Corporation
1225 W.Main Street
VAN WERT, OH.45891-0389
Call Aeroquip Corporation-419-238-1190, TWX:810-494-2601,
Telex: 2-42426 for the name of a Aeroquip dealer in your area
or call Eagle Aviation-507-334-6332 for assistance.

Quick Drain--Part Number CAV-160 $\frac{1}{4}$ NPT
Manufacturer-SAFAIR Products Co., Box 2062, Livonia, Mich.48151
Quick Drains are available from SAFAIR, from most Aircraft Parts
dealers or call Eagle Aviation.

2. INSTALLATION INFORMATION:

From the bottom of the fuselage at Station 8.12 (Page 4) remove
the inspection cover labeled item **23 (Page 5).

Remove the AN818 Nut from the elbow, Item 20 Page 3. Now remove
the elbow from the fuel shut-off valve.

Apply MIL-T-5544 Spec. Thread Compound to the threads of the
Quick Drain,, install the Quick Drain into the Tee Fitting and
tighten securely. See page 4 for the diagrams of the Quick Drain
and the Tee Fitting.

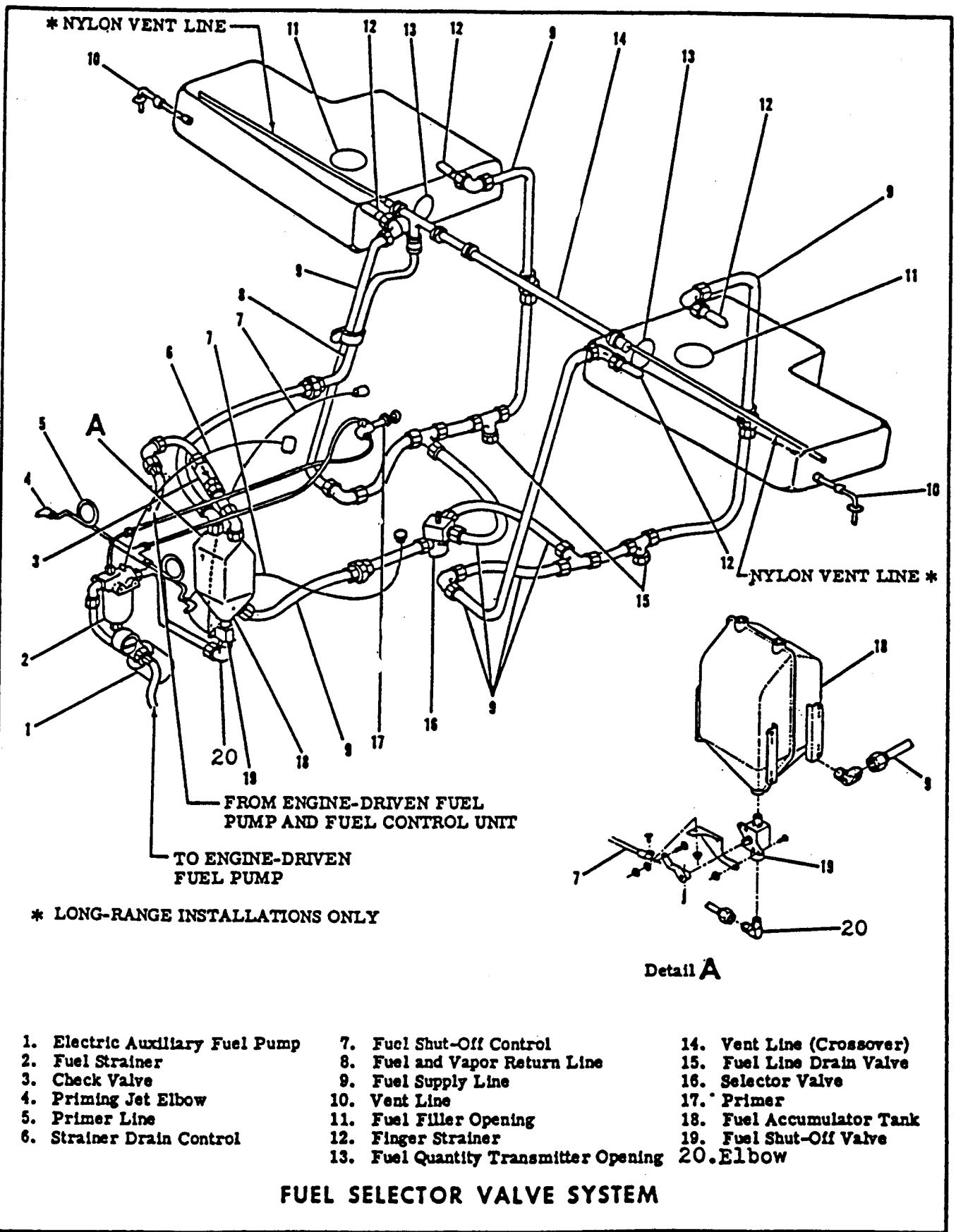
Apply MIL-T-5544 Spec. Thread Compound to the pipe threads of the
Tee Fitting and install the Drain Valve Assembly into the fuel
shut-off valve and tighten securely. NOTE--Do not apply thread
compound to the threads on the Tee Fitting labeled "T" Thread,
see diagram on page 4.

Connect the fuel line to the Drain Valve Assembly and tighten
the AN818 Nut securely.

Open the fuel shut-off valve and inspect the Drain Valve Assembly
for leaks. Test the operation of the Quick Drain and check for
proper seating of the Quick Drain "O" Ring Seal.

Cut a one(1)inch hole in the inspection cover in line with the
Quick Drain and install the inspection cover. Check to see that
the inspection cover opening is well clear of the Drain Valve
Assembly.

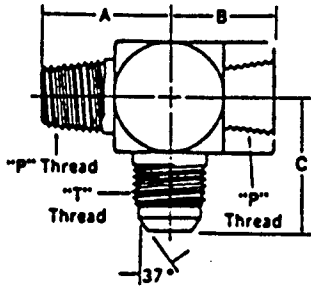
CAUTION--When removing the elbow from the fuel shut-off valve and
when installing the Fuel Drain Valve Assembly, hold the
fuel shut-off valve securely in place to prevent damage
to the fuel accumulator.



* LONG-RANGE INSTALLATIONS ONLY

- | | | |
|---------------------------------|---------------------------------------|---------------------------|
| 1. Electric Auxiliary Fuel Pump | 7. Fuel Shut-Off Control | 14. Vent Line (Crossover) |
| 2. Fuel Strainer | 8. Fuel and Vapor Return Line | 15. Fuel Line Drain Valve |
| 3. Check Valve | 9. Fuel Supply Line | 16. Selector Valve |
| 4. Priming Jet Elbow | 10. Vent Line | 17. Primer |
| 5. Primer Line | 11. Fuel Filler Opening | 18. Fuel Accumulator Tank |
| 6. Strainer Drain Control | 12. Finger Strainer | 19. Fuel Shut-Off Valve |
| | 13. Fuel Quantity Transmitter Opening | 20. Elbow |

FUEL SELECTOR VALVE SYSTEM

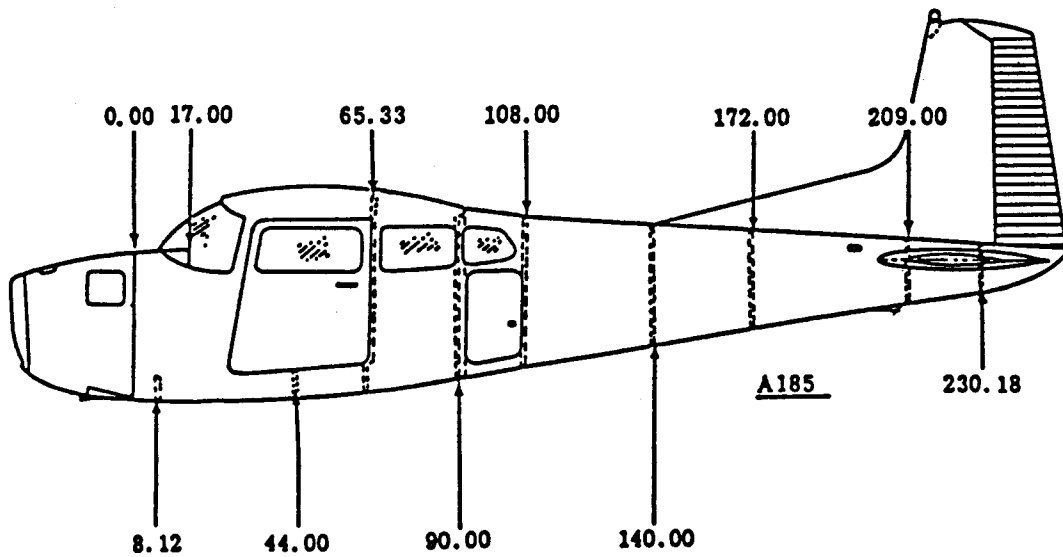


External pipe/Internal pipe/37° flare
Part no. 203301-(Dash size)

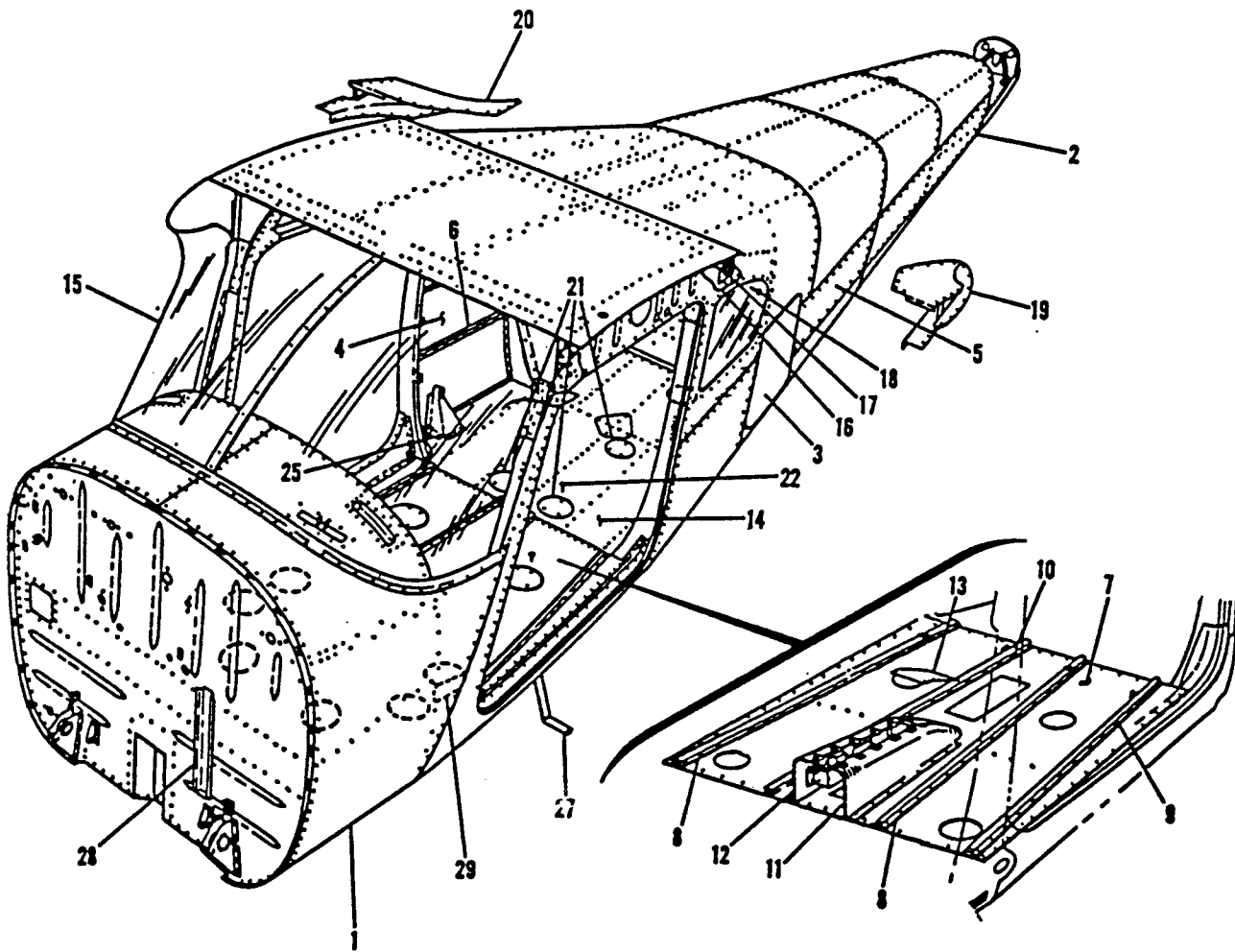
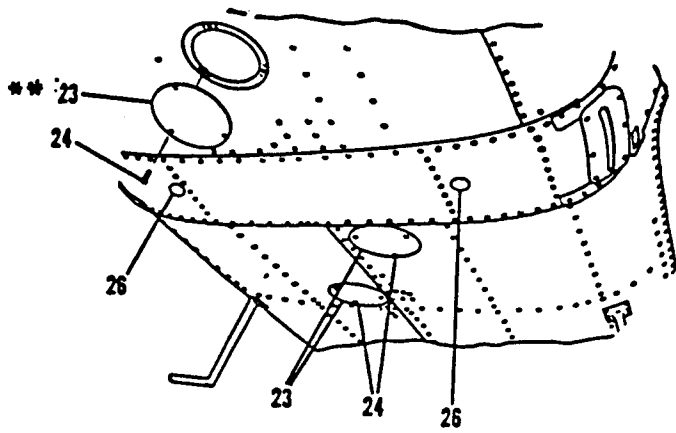
Dash size	Tube O.D.	Thread P	Thread T	A	B	C
2-4S	3/8	1/8-27	1/8-20	.78	.66	.96
4-6S	1/2	1/8-18	1/8-18	1.09	.88	1.14
6-8S	3/4	1/8-18	1/8-16	1.22	1.02	1.33
8-10S	1	1/8-14	1/8-14	1.47	1.23	1.57
12-12S	1 1/4	1/8-14	1 1/8-12	1.59	1.36	1.88
16-16S	2	1-11 1/8	1 1/8-12	1.97	1.62	2.09



Part Number	Thread Size	Hose End
CAV-110	1/8 NPT	(none)
CAV-160	1/4 NPT	(none)
CAV-170	7/16-20 NF-3	(none)
CAV-180	3/8-24 NF-3	(none)
CAV-110 H-4	1/8 NPT	1/4"
CAV-160 H-4	1/4 NPT	1/4"
CAV-170 H-4	7/16-20 NF-3	1/4"
CAV-180 H-4	3/8-24 NF-3	1/4"



Cessna 185 Fuselage Assembly



Fuselage Assembly

EAGLE AVIATION, INC
Municipal Airport
Faribault, Mn 55021

The enclosed Supplemental Type Certificate, Number SA1221GL, was issued to Eagle Aviation, Municipal Airport, Faribault, Minnesota 55021, on August 13, 1987.

Certain Airworthiness Directives issued by the Federal Aviation Administration require fuel quick drains to be installed in the fuel tank reservoirs and/or accumulators on some Cessna 185 aircraft.

Installation of the fuel accumulator drain valve assembly, described in this Certificate, will provide the owner with a means of complying with some of those Airworthiness Directives.

This Supplemental Type Certificate authorizes the owners of Cessna 185 aircraft Serial numbers 185-0414 thru 185-03153, to install in those aircraft, the fuel accumulator quick drain valve assembly, in accordance with the instructions attached to this Certificate.