

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

2A1  
Revision 4  
MULTITECH  
D-16  
D-16A  
  
June 11, 1968

AIRCRAFT SPECIFICATION NO. 2A1

Holder of Type Certificate                      Multitech Engineering Corporation  
P.O. Box 2503  
Airport Station  
Oakland, California 94614

I - Model D-16 (See NOTE 3), 4 PCLM (Normal Category), Approved August 26, 1953

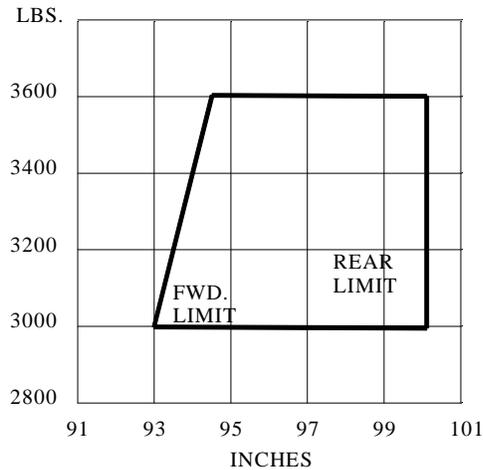
Engines	2 Lycoming O-320 (See Item 107 for optional engines)			
Fuel	80/87 Min. grade aviation gasoline			
Engine limits	For all operations, 2700 rpm (150 hp)			
Airspeed limits	Maximum structural cruising	153 mph	(133 knots) C.A.S.	
	Never exceed	190 mph	(165 knots) C.A.S.	
	Flaps and gear extended	100 mph	( 87 knots) C.A.S.	
C.G. range	(+94.0) to (+98.0). Effect of gear retraction (+1480 in. lbs.) (See NOTE 4 for increased C.G. range)			
Maximum weight	2950 lbs. (See NOTE 4 for increased weight)			
No. of seats	4 (2 at +96 and 2 at +132)			
Maximum baggage	134 lbs. (+30), 180 lbs. (+159)			
Fuel capacity	59.5 gals. total. (See NOTE 6 for additional fuel)			
Oil capacity	4 gals. (2 gal./engine) (+54)			
Control surface movements	Elevator	Up 33°	Down 17°	
	Elevator tab	Up 22°	Down 34°	
	Aileron	Up 25°	Down 17°	
	Rudder (Measured from fuselage centerline)	Left 20°	Right 20°	
	Rudder tab bungee - Rig with 47.5 lbs. tension with rudder and trim control neutral.	Flaps	Down 35°	
	Serial Nos. eligible (See NOTE 3(a))	Serial Nos. TTN-1 thru TTN-38, and TTN-40 thru TTN-47. Riley Aircraft Corporation: Serial Nos. TN-1 and up.		
Required equipment	In addition to pertinent required basic equipment specified in CAR 3, the following items of equipment must be installed: 1(a), 2(a) or (b); 102(a), (c) and (e); 103(a) or (b), 105(a), 106(A) or (B), 201(a), 202(a), 205(a), 206(a); 301(a), (b) or (c); 302(a), (b) or (c); 303(a), 401(a).			

II - Model D-16A, 4 PCLM, (Normal Category), Approved April 8, 1955

Engines	2 Lycoming O-340-A1A (See NOTE 5 for required carburetor modification)		
Fuel	91/98 Min. grade aviation gasoline		
Engine limits	For all operations, 2700 rpm (170 hp)		
Airspeed limits	Never exceed	190 mph	(165 knots) C.A.S.
	Maximum structural cruising	153 mph	(133 knots) C.A.S.
	Maneuvering	149 mph	(129 knots) C.A.S.
	Flaps and gear extended	116 mph	(101 knots) C.A.S.

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C.G. range (+94.6) to (+100.0) at 3600 lbs.  
 (Gear extended) (+93.0) to (+100.0) at 3000 lbs. or less  
 Straight line variation between points given.  
 Effect of gear retraction (+1480 in.lbs.)



Empty weight	(+94.0) to (+94.6)		
C.G. range (gear extended)	When empty weight C.G. falls within the above range, it is unnecessary to check forward and aft C.G. for standard D-16A arrangement.		
Maximum weight	3600 lbs.		
No. seats	4 (2 at +96 and 2 at +132)		
Maximum baggage	134 lbs. (+30), 180 lbs. (+159)		
Fuel capacity	104.5 gals. total: 39.5 gals. (+103), 65 gals. (two 32.5 gal. nacelle tanks) (+96) (See item 108(i) for additional fuel)		
Oil capacity	4 gals. (2 gal./engine) (+54)		
Control surface movements	Elevator	Up 33°	Down 17°
	Elevator tab	Up 22°	Down 34°
	Aileron	Up 25°	Down 17°
	Rudder (Measured from fuselage centerline)	Left 20°	Right 20°
	Rudder tab	Left 45°	Right 45°
	Flaps		Down 35°
Serial Nos. eligible	Serial Nos. TTN-39, TTN-48 and up.		
Required equipment	CAR 3.655 plus the following items of equipment must be installed. 1(b), 2(a), (b) or (c), 3, 102(b) and (d), 103(a), 105(b), 106(C), 201(a), 202(b), 205(a), 206(b); 301(d), 302(c), 303(b), 401(c).		

#### Specifications Pertinent to All Models

Datum	Fuselage station O, located 93.25 in. fwd. of the fwd. bolt centerline (jig point), wing lower surface bolting angle.
Leveling means	External lugs on right side of fuselage at stations 58 and 98.43.
Certification basis	Model D-16: Type Certificate No. 782 (CAR 3) and Flight Requirements of Amendment 3-4 dated January 15, 1951. Model D-16A: Type Certificate No. 2A1 (CAR 3) and Amendments thereto inclusive of Amendment 3-12 dated May 18, 1954.
Production basis	None. Prior to original certification a FAA representative must perform a detailed inspection for workmanship, materials, and conformity with the approved technical data, and a check of the flight characteristics.
Export eligibility	Eligible for export to all countries, subject to the provisions of MOP 2-4, except as follows: (a) Canada - Landplane eligible Skiplane not eligible

Equipment: Approval for the installation of all items of equipment listed herein has been obtained by the aircraft manufacturer except those items preceded by an asterisk (\*). The asterisk denotes that approval has been obtained by someone other than the aircraft manufacturer. An item marked with an asterisk may not have been manufactured under a FAA monitored or approved quality control system, and therefore conformity must be determined if the item is not identified by a form ACA-186, PMA or other evidence of FAA production approval.

#### Propellers and Propeller Accessories

1. Propellers - Hartzell, constant speed, hubs model HC82xG-2 with
  - (a) Blades Model 7636C-2 or 7636D-2 122 lbs. (+31)  
(Eligible on Lycoming O-320 engine only)  
Diameter: Not over 74 in., not under 72.5 in.  
No additional cut-off permitted.  
Pitch setting at 30 in. station: Low 11.3°, high 78°
  - (b) Blades Model 8433-12 125 lbs. (+31)  
(Eligible on Lycoming O-340-A1A engine only)  
Diameter: Not over 72 in., not under 70 in.  
No additional cut-off permitted.  
Pitch setting at 30 in. station: Low 11.1°, high 80°
2. Governors (Required with item 1)
  - (a) 2 Hamilton Standard Model 1Q12 5 lbs. (+58)
  - (b) 2 Woodward Model 210065 5 lbs. (+58)
  - (c) 2 Woodward Model 210130 5 lbs. (+58)
3. Spinners (Required with Item 1(b) only - 2 Hartzell domes Model C-888, as modified per Temco Dwg. TN5201, and Hartzell spinner bulkheads Model C-885. 6 lbs. (+27)

#### Engines and Engine Accessories - Fuel and Oil Systems

101. Starters - 2 Delco Remy Model 1109657 34 lbs. (+43)
102. (a) Carburetor air filters, 2 Cessna P/N 40599 1 lb. (+45)  
(Eligible D-16 only)
- (b) Carburetor air filters, 2 Temco P/N TN-5645 3 lbs. (+37)  
(Eligible D-16A, D-16 with Item 107(b))
- (c) Carburetor air intake system, 2 Piper P/N 13765-05 modified 2 lbs. (+48)  
per Temco Dwg. TN-5157 (Eligible D-16 only)
- (d) Carburetor air intake system, 2, per Temco Dwg. TN-5609 2 lbs. (+47)  
(Eligible D-16A, D-16 with Item 107(b))
- (e) Carburetor air dump tube assy., 2 Temco P/N TN-5214-1 1 lb. (+48)  
(Eligible D-16 only)
103. (a) Hydraulic pump, left engine only, New York Airbrake Model 67A025 3 lbs. (+52)
- (b) Hydraulic pump, left engine only, Ryan P/N 145-58020 2 lbs. (+52)  
(Eligible D-16 only)
104. Vacuum pump, right engine only, Pesco Model 3P-194F, Type B-11 4 lbs. (+50)
105. (a) Oil coolers, 2 Piper P/N 455-168 (Eligible D-16 only) 12 lbs. (+38)
- (b) Oil coolers, 2 Harrison P/N 8522277 (Eligible D-16A, D-16 with Item 107(b)) 5 lbs. (+52)
106. Fuel systems
  - (A) Per Riley Dwg. R-402 (Eligible D-16 only)
    - (1) Engine-driven pumps, A.C. P/N 5594068 4 lbs. (+59)
    - and (2) (a) Aux. pumps, 2 Adel P/N 20113 or 19372 8 lbs. (+71)
    - or (b) Aux. pumps, 2 Airsupply P/N 54609-1 5 lbs. (+96)
  - (B) Per Temco Dwg. TN-5229 (Eligible D-16 only)
    - (1) Engine-driven pumps, 2 A.C. P/N 5594068 4 lbs. (+59)
    - (2) Aux. pumps, 2 Airsupply P/N 54609-1 5 lbs. (+96)
  - (C) Per Temco Dwg. TN-5608 (Eligible D-16A, D-16 with Item 405(a))
    - (1) Engine-driven pumps, 2 A.C. P/N 5594068 4 lbs. (+59)
    - and (2) Aux. pumps, Bendix P/N 47087 4 lbs. (+70)

- (D) Per Temco Dwg. TN-5687 (Eligible D16 only)
- (1) Engine-driven pumps, 2 A.C. P/N 5594068 4 lbs. (+59)
  - (2) Aux. pumps, 2 Bendix P/N 47087 4 lbs. (+70)
  - or (3) Aux. pumps, 2 Air Supply, P/N 54609-1 5 lbs. (+96)  
Eligible with O-290 & O-320 engines only)
  - (4) Transfer pump, Bendix P/N 47087 2 lbs. (+121)  
(Required with fuselage tanks, Ref. NOTE 6)
107. Engines
- (a) 2 Lycoming O-290-D2A (Eligible on D-16 only, serial Nos. TTN-1 thru TTN-15, and Riley TN-1 and up) No weight change  
Engine limits: Takeoff (one minute), 2750 rpm (139 bhp)  
Maximum continuous, 2600 rpm (135 bhp)  
Propeller: Item 1(a) except blade model 7636C-2 only.  
Pitch at 30 in. station: Low 10.5°, high 78°  
Item 102(e) not required. Item 401(e) required.
  - (b) 2 Lycoming O-340-A1A 501 lbs. (+47)  
(Eligible on D-16 with gross weight limitations as specified in NOTE 4 and carburetor modification as specified in NOTE 5)  
Engine limits: For all operations, 2700 rpm (170 bhp)  
Required equipment: 1(b), 2(a), (b) or (c), 3, 102(b) and (d), 103(a), 105(b), 106(c) or (d), 301(c) or (d), 303(b), 401(g)
108. Auxiliary fuel tank installation (See NOTES 2, 6 and 7 for required placard, description and installation of fuel systems)
- \*(a) 20 gal. as per Toth Aircraft and Accessories Company, Kansas City, Mo., 10 lbs. (+59)  
Dwgs. 1 thru 5, 34 and approved Installation Instructions. (Eligible on D-16 only)  
Substitute following for baggage placard:  
"Maximum Baggage compartment load:  
Auxiliary fuel tank empty, 170 lbs.  
Auxiliary fuel tank full, 50 lbs.
  - (b) 20 gal. as per Ryan Dwgs. 145-482201A and 145-48225A 19 lbs. (+151)  
(Eligible on D-16 only)  
Substitute following for baggage placard:  
"Maximum baggage compartment load:  
Auxiliary fuel tank empty, 161 lbs.  
Auxiliary fuel tank full, 41 lbs.
  - (c) 20.4 gal. as per Ryan Dwg. 145-89067 (Eligible D-16 only) 20 lbs. (+130)
  - \*(d) 20 gal. as per Dwg. and Installation Kit No. CJKM 3100, 14 lbs. (+132)  
Neo Air Inc., Metropolitan Airport, Van Nuys, Calif.  
(Eligible D-16 only)
  - \*(e) 20 gal. as per Dwgs. 503A, 503B and 503C and "Instruction for 12 lbs. (+132)  
Install. Long Beach Airmotive Auxiliary Fuel Tank Kits in North American Navion," Long Beach Airmotive, Long Beach, Cal.  
(Eligible D-16 only)
  - \*(f) 20 gal. as per Symons Engr. Dwg. SY-102 and Installation 10 lbs. (+130)  
Instructions (Eligible on D-16 only)
  - (g) 40 gal. as per Temco Dwg. TN-5217 (Eligible D-16 only) 39 lbs. (+145)
  - (h) 50 gal. as per Temco Dwg. TN-5273 (Eligible D-16 only) 48 lbs. (+148)
  - (i) 2 - 20-gal. tip tanks per Temco Dwg. TN-5304 32 lbs. (+107)  
(Aileron modification required per Temco Dwg. TN-5304)
  - (j) 2 - 32.5 gal. nacelle tanks per Temco Dwg. TN-5602 28 lbs. (+96)

Landing Gear

201.	2 Main wheel-brake assemblies, 7.00-8	
	(a) Goodrich	(+114)
	Wheel Assy. Model G-3-637-MD-1	
	Brake Assy. Model D-2-559-1	
202.	(a) 7.00-8 4-ply rating tires (Eligible D-16 only)	(+114)
	(b) 7.00-8 6-ply rating tires	(+114)
205.	Nose gear wheel	(+46)
	(a) Wheel Assy., Firestone Model 6C-5	
	(b) Wheel Assy., Goodrich Model 613-MD	
206.	(a) 6.00-6 4-ply rating tire (Eligible D-16 only)	(+46)
	(b) 6.00-6 6-ply rating tire	(+46)
*210.	Tennes-Navion landing gear-wheel fairing kit. (Eligible D-16 and D-16A)	8 lbs. (+114)
	Landing gear fairing fabricated and installed in accordance with	
	Dwgs. T-100 and T-101, and wheel fairing fabricated and installed in	
	accordance with Dwgs. T-200-F and T-200-F1 for Firestone wheels or	
	in accordance with Dwgs. C-T-200-G and T-200-G1 for Goodrich (Hayes) wheels.	
*211.	Nose gear enclosure	6 lbs. (+60)
	Main wheel enclosures, both wheels	5 lbs. (+114)
	(Eligible D-16 and D-16A)	
	Installed per Long Beach Aeromotive Dwgs. LB505a and LB505b.	
*212.	Landing gear fairing installation, Ryan Dwg. 145-33301	
	(Eligible D-16 and D-16A)	
	(a) Nose gear fairing	6 lbs. (+60)
	(b) Main gear fairing	5 lbs. (+114)
*213.	Landing gear fairing installation, Symons Engineering Installation	
	Dwgs. SY-105-A and SY-105-B, Symons Engineering, Box 2262, El Segundo, Calif.	
	(Eligible D-16 and D-16A)	
	(a) Nose gear fairings	3 lbs. (+50)
	(b) Main gear fairings	4 lbs. (+114)

Electrical Equipment

301.	Generators	
	(a) Per Riley Dwg. No. R-604-19, 2 Delco Remy P/N 1101891 (20 amp)	21 lbs. (+44)
	(Eligible D-16 Riley TN-1 and up only)	
	(b) Per Temco Dwg. TN-5025, 2 Delco Remy P/N 1101891 (20 amp)	21 lbs. (+44)
	(Eligible on D-16 Riley TN-1 and up, and Temco	
	TTN-1 thru TTN-13 only)	
	(c) Per Temco Dwg. TN-5025, 2 Delco Remy P/N 1101900 (35 amp)	38 lbs. (+44)
	(Eligible D-16 only)	
	(d) Per Temco Dwg. TN-5801, 2 Delco Remy P/N 1101900 (35 amp)	38 lbs. (+44)
	(Eligible D-16A only)	
302.	Voltage regulator and paralleling relay	
	(a) Per Riley Dwg. R-604-19 (Voltage regulator only), 2 Delco Remy	1.5 lbs. (+48)
	P/N 1118882 (20 amp) (Eligible with Item 301(a) only)	
	(b) Per Temco Dwg. TN-5025, (Eligible with item 301(b) only)	2 lbs. (+48)
	(1) 2 Delco Remy P/N 1118882 (20 amp)	
	(2) 1 Delco Remy P/N 1116887	
	(c) Per Temco Dwg. TN-5025 and TN-5801,	2 lbs. (+48)
	(1) 2 Delco Remy P/N 1118840 (35 amp)	
	(2) 1 Delco Remy P/N 1116887	
	(Eligible with item 301(c) and (d) only)	
303.	Battery	
	(a) 12 volt - 33 amp-hour (Eligible D-16 only)	27 lbs. (+151)
	(b) 12 volt - 55 amp-hour	51 lbs. (+151)
304.	Landing lights, 2 Grimes P/N M-4509	3 lbs. (+9)
305.	Grimes No. D7080 rotating beacon installation per Temco Dwg. TN-5977.	2 lbs. (+305)

Interior Equipment

One of the following CAA Approved Airplane Flight Manuals and any applicable supplement or revisions must be carried in the aircraft at all times:

- AFM dated August 26, 1953 (for D-16 with Lycoming O-320 engines and 2950 lbs. gross weight)
  - AFM dated March 8, 1954 (for D-16 with Lycoming O-320 engines and 3350 lbs. gross w
  - (c) AFM's dated February 25, 1955, and December 1, 1955 (for D-16A
  - (d) Supplement to Items 401(a), (b) and (e) dated June 25, 1954.
  - (e) AFM dated December 17, 1952 (for D-16 with Lycoming O-290-D2A
  - \*(f) Mitchell AFM Supplement to Items 401(a), (b), (c) and (e) dated  
ed.
  - (g)  
Lycoming O-340-A1A engines, Item 107(b).)
  - \*(h)  
(Required when Item 402(c) is installed.)
- 402.
- (a) Lear L-2B per Lear Dwg. 700150, Revision A  
1404 or 2203 altitude controller optional as per Lear Dwg. 82984  
26 lbs. (+182)
  - Servo stall torques (in.lbs.) \_ 5% measured at servo clutch:  
Aileron 25 in.lbs., elevator 30 in.lbs., rudder 55 in.lbs.
  - Eligible only:
    - (1)
    - (2) To gross weight up to 3350 lbs.  
At all C.G. limits including those specified in NOTE 4(a).
    - (4)
  - \*(b) Mitchell Co-Pilot Model AK045 in accordance with Mitchell  
Industries, P. O. Box 17, Mineral Wells, Texas, Bulletin No. 104.  
(Item 401(f) required.)
  - \*(c) P.O. Box 2146, Tulsa, Okla., Dwg. No. 416A-1000. Eligible on  
58 lbs. (+165)
  - servo pulley size 1-3/8 in. Servo stall torques  $\pm$   
servo clutch:  
Aileron 25 in. lbs., elevator 32 in. lbs., rudder 55 in. lbs.
  - Placard required:  
SINGLE-ENGINE OPERATION."
- 403.
- (a) Per Temco Dwg. TN-5104
  - (b) Per Temco Dwg. TN-5702
  - (c) Per Temco Dwg. TN-5791
- 404.
- (a) 48 lbs. (+99)
  - (b) 44 lbs. (+99)
405. TN-5000-16-8 Interior and instrumentation. (Eligible D-16 with  
use actual weight  
and arm
- TN5504 Instrument panel installation
  - (2)
  - (3) TN5694 Fuel selector valve installation.  
TN5510 Rudder trim installation.  
(TN5509 rudder and elevator installation required).
- Baggage compartment door installation per Temco Dwg. TN5546  
9 lbs. (+170)

407. Flare installation
- (a) 4 International MK-1 parachute flares and Kilgore Mfg. Co. Model R4M switch per Temco Dwg. TN5978-1 22 lbs. (+186)
  - (b) 3 International MK-1 parachute flares Kilgore Mfg. Co. Model R3M switch per Temco Dwg. TN5978-2 16 lbs. (+188)

Miscellaneous (Not listed above)

601. Heated pitot installation, Kollsman 373D-01, per Temco Dwg. TN5145 2 lbs. (+130)

- NOTE 1. Current weight and balance report including list of equipment included in certificated weight empty, and loading instructions, when necessary, must be in each aircraft at the time of original certification and at all times thereafter (except in the case of air carrier operators having an approved weight control system).
- NOTE 2. The following placards must be shown in locations specified:
- (a) In front of and in clear view of the pilot:
    - (1) "This airplane must be operated in compliance with the FAA Approved Operating Limitations."
    - (2) "Normal Category (G.W. as applicable lbs.) No acrobatic maneuvers including spins approved."
    - (3) "Do not use auxiliary tanks for take-off or landing." (Model D-16A only)
    - (4) (Model D-16 only) "Do not use auxiliary tanks for take-off or landing" or "Use auxiliary tanks level flight only." (Not required when Item 108(g) or (h) installed)
    - (5) Placard for item 402 if installed.
  - (b) On the left hand canopy track 7 1/2 inches from windshield and in clear view of the occupants: "Do not open enclosure beyond this point while in flight except in emergency."
- NOTE 3. (a) All of the aircraft covered by this specification are conversions of the single- engine Navion, Aircraft Specification A-782. The aircraft herein described as the Model D-16 were originally approved for the Dauby Equipment Company under NOTE 3 of A-782. Subsequently, the Riley Aircraft Corporation and later Temco obtained modification rights from Dauby for the conversion of these aircraft. Therefore, all aircraft previously modified in accordance with NOTE 3 of A-782 are eligible for certification under Model D-16 of this specification which supersedes NOTE 3 of A- 782. All model D-16 aircraft carry, in addition to Temco or Riley serial number, the original Navion serial number. All aircraft eligible under Specification A-782 are eligible for remanufacture to this specification.
- (b) All Model D-16A aircraft covered by this specification are conversions of the single- engine Navion, Aircraft Specification A-782. Aircraft produced under this type certificate will be identified by Temco nameplate only, and airworthiness considerations pertaining to the single-engine Navion only do not apply to the Temco Model D-16A.
- NOTE 4. Model D-16 is eligible for the following maximum weights and C.C. ranges:
- (a) 3350 lbs. when modified in accordance with Temco Dwg. TN-5240. Lycoming O-320 or Lycoming O-340-A1A engines and appropriate Airplane Flight Manual (Ref. Item 401) are required.  
Applicable C.G. range: (+97.5) to (+100.0) at 3350 lbs.  
(+93.0) to (+100.0) at 2900 lbs. or less  
(Straight line variation between points given)
  - (b) 3600 lbs. when modified in accordance with Temco Dwg. TN-5906. Lycoming O-340-A1A engines and appropriate Airplane Flight Manual (Ref. Item 401) are required.  
Applicable C.G. range: (+95.0) to (+100.0) at 3600 lbs.  
(+93.0) to (+100.0) at 3000 lbs. or less  
(Straight line variation between points given)
- NOTE 5. The Lycoming O-340-A1A engines installed in Model D-16A and D-16 must be modified to include a carburetor throttle stop which limits the throttle opening to 6° from full open in order to provide optimum fuel distribution.
- (a) MA-4-5 carburetors through Serial No. 3982035 externally modified per Temco Dwg. TN-5682.
  - (b) MA-4-5 carburetors Serial No. 3982036 and subsequent internally modified by Marvel.

## NOTE 6.

wing tanks located at 103 in. and 20 gals. either in underseat tank (Item 108(c), (d), (e) or (f) or baggage compartment tank Item 108(a) or (b).) If additional fuel is desired one of the following install accomplished:

- (1)
  - (a) Install baggage compartment tank if standard system has underseat tank.
  - (b) Install underseat tank if standard system has baggage compartment tank.
  - (c) Install auxiliary tank Item 108(g).

For 89.5 gals. total fuel capacity: (Eligible all TN and TTN D-16 airplanes).

  - (a)
- (3) For 99.5 gals. total fuel capacity: (Eligible al
  - (a) Install underseat tank (Item 108(c), (d), (e) or (f).)
  - (b) Install baggage compartment tank (Item 108(a) or (b).)

Install tip tanks (Item 108(i).)

  - (d)
- (4) For 104.5 gals. total fuel capacity (Eligible all TN and TTN D-16 airplanes modified)
  - (a) Install nacelle tanks (Item 108(j).)

Fuel system Item 106(d) required.
- (5) capacity: (Eligible all TN and TTN D-16 modified per NOTE 4(b).)
  - (a)
  - (b) Install tip tanks (Item 108(i).)

Fuel system Item 106(c) required.

Removal of any auxiliary tanks not called out in the desired system above is required.

All fuselage fuel installations, Items 108(a) thru (f), must be installed in accordance with Temco Service Bulletin No. 2 and Temco Dwg. No. TN-5962. Weight change is 2 lbs. at the appropriate arm.