FEDERAL AVIATION AGENCY

6A5 Revision 24 LOCKHEED 1049-54 1049B-55 (Navy R7V-1) 1049C-55 1049D-55 1049F-55 (USAF C-121C) 1049G-82 1049H-82

July 1, 1963

AIRCRAFT SPECIFICATION NO. 6A5

Manufacturer Lockheed Aircraft Corporation

Burbank, California

<u>I - Model 1049-53 deleted June 9, 1953. All 1049-53 aircraft converted to Model 1049-54.</u>

II - Model 1049-54, Approved May 14, 1952

Engines 4 Wright Cyclones 975C18CB-1 with 16:7 reduction gear ratio

Fuel AN grade 115/145 (See NOTE 15 for engine limits when using low grade fuel)

Engine limits Low impeller ratio 6.46:1

Maximum continuous:

(Sea level) 48.0 in.hg., 2600 rpm (2400 hp)

(Straight line manifold pressure variation with altitude to 5300 ft.)

46.0 in. hg., 2600 rpm (2400 hp)

Take-off (2 minutes):

(Sea level) 54.5 in.hg., 2900 rpm (2800 hp)

(Straight line manifold pressure variation with altitude to 4500 ft.)

52.5 in.hg., 2900 rpm (2800 hp).

High impeller ratio 8.67:1

Maximum continuous:

(10,800 ft.) 47.5 in.hg., 2600 rpm (2000 hp)

(Straight line manifold pressure variation with altitude to

16,000 ft.) 46.0 in.hg., 2600 rpm (2000 hp).

Airspeed limits Vno (Normal Operation) 300 mph (260 knots) True Ind.

(Above 11,000' reduce speed 10 mph (9 knots) for each

additional 2000')

Vne (Never Exceed) 338 mph (293 knots) True Ind.

(Above 11,000' reduce speed 12 mph (11 knots) for each

additional 2000')

Va(Maneuvering)208 mph (180 knots) True Ind.Vf(Takeoff position-60%)212 mph (184 knots) True Ind.

Vf (Approach position-66%)

Vf (80%)

Vf (Landing position-100%)

Vlo (Landing Corr Operation)

Vlo (Landing Gorr Operation)

186 mph (161 knots) True Ind.

177 mph (148 knots) True Ind.

180 mph (165 knots) True Ind.

Vlo (Landing Gear Operation) 190 mph (165 knots) True Ind. Vle (Landing Gear Extension) 190 mph (165 knots) True Ind.

Mach No. - Never Exceed .54

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See NOTE 1(b)	for required	loading and	gear retraction moment.

Condition	Weight	Landing	Fwd.	Limit	Aft.	Limit
<u> </u>	lbs.	gear	sta.	%MAC	sta.	%Mac
Take-off	120,000*	Down	665.8*	21.0	685.2	32.0
	98,500*	Down	660.5*	18.0	685.2	32.0
	or less					
Landing	98,500	Down	660.5	18.0	685.2	32.0
	or less					
Cruising	120,000*	Up	661.5*	18.6	688.7	34.0
Flight	98,500*	Up	655.2*	15.0	688.7	34.0
-	or less	-				

^{*} Straight line variation between these values.

Weight limits

(See NOTE 15 for limits when using low grade fuel)

Minimum crew Passengers

Baggage

Landing 98,500 lbs. See NOTE 8 for higher weight

Take-off 120,000 lbs. (Dump valves are required)

Maximum zero fuel weight 93,500 lbs. See NOTES 1(e) for fuel loading and 8 for higher weight.

3-engine ferrying 100,000 lbs. See FAA Approved Airplane Flight Manual for applicable restrictions.

3. Pilot and Copilot at +190 and Flight Engineer at +226.

Maximum 88 (CAR 4b.433). See Approved Weight and Balance Report for actual number and location.

Maximum capacity of internal baggage and storage compartments:

	Vol.	Max. Floor	Cap.	Compt.
	(cu. ft.)	loading psf	<u>(lbs.</u>)	<u>C.G.</u>
Fwd. cargo compartment,				
fwd. portion F.S. 333.6 to 482	72	70	1440	(+407.8)
Fwd. cargo compartment,				
aft portion F.S. 482 to 638	194	70	3880	(+560)
Aft cargo compartment,				
fwd. portion F.S. 750 to 932	230	70	4600	(+841)
Aft cargo compartment,				
aft portion F.S. 932 to 1139.8	160	70	3200	(+1036)
-67 interior				
Left hand fwd.			450	(+ 497)
Right hand fwd.			700	(+ 497)
Left hand aft			600	(+1150)
Wash water, -67 interiors			209	(+1075)
Galley water, -67 interiors			125	(+380)
Galley installation and supplies, 67 in	nteriors	45 (a)		

(a) Galley areas between Stations 260 and 343.5 are structurally satisfactory for a uniformly distributed load over the entire area of 45 psf or a uniformly distributed load of 55 psf on each side of the 20 inch aisle. Galley installations and their contents shall not exceed these loadings. Fixed equipment such as galleys shall be listed on the Approved Equipment List together with pertinent weights and arms.

Fuel capacity

See NOTE 1(c) regarding "Usable fuel and System Oil."

Tanks 2 and 3 (inboard) (790 gal. ea.) 9,480 lbs. (+692) Tanks 1 and 4 (middle) (1555 gal. ea.) 18,660 lbs. (+689) Tanks 2a and 3a (outboard) (565 gal. ea.) 6,780 lbs. (+687)

Tank 5 (center section (730 gallons) 4,380 lbs. (+694) when installed)

Oil capacity

See NOTE 1(c) regarding "Unusable Fuel and System Oil."

- (a) (2 inboard tanks (with aux. tank) and (58 gal.ea.) 870 lbs. (+584) (2 outboard tanks (with aux. tank); or (58 gal.ea.) 870 lbs. (+603).
- (b) (2 inboard tanks (without aux. tank) and (55 gal.ea.) 825 lbs. (+584) (2 outboard tanks (without aux. tank) (55 gal.ea.) 825 lbs. (+603).

Serial Nos. eligible 1049/4001 through 1049/4024 (See Equipment Item 400)

Required equipment In addition to the pertinent required basic equipment specified in CAR 4b, the following

items of equipment must be installed:

Items 1(a) or (c); 101(a) or (b); 103(a); 104(a); 105(a); 107(a) or (b); 200(a) or (b); 201(a); 202(a)(1), (2) or (3); 203(a) or (b); 204(a)(1), (a)(2) or (b)(1); 205(a) or (b);

206(a) or (b); 300(a); 301(a); 303(a) or (b); 400; 440; 441(a) or (b); 508(a).

<u>III - Model 1049B-55 (Navy R7V-1)</u>, <u>Approved October 28, 1953.</u> (Same as Model 1049-54 except engines, design weights, and certain structural changes. This airplane is basically a cargo rather than passenger carrier) (See NOTE 5 for modifications necessary for civil conversion of R7V-1).

Engines

4 Wright Cyclones 972TC18DA1 with 16:7 reduction gear ratio and 6.52:1 Turbo drive

Fuel

AN grade 115/145 (See NOTE 16 for engine limits when using low grade fuel)

Engine limits

Low impeller ratio 6.46:1 Maximum continuous:

(Sea level) 47.5 in.hg., 2600 rpm (2600 hp)

(Straight line manifold pressure variation with altitude to 6500 ft.) 45.0 in. hg.,

2600 rpm (2650 hp) Takeoff (2 minutes):

(Sea level) 56.5 in.hg., 2900 rpm (3250 hp)

(Straight line manifold pressure variation with altitude to 5000 ft.) 53.0 in.hg.,

2900 rpm (3250 hp). High impeller ratio 8.67:1

Maximum continuous:

(9,550 ft.) 48.5 in.hg., 2600 rpm (2400 hp)

(Straight line manifold pressure variation with altitude to $16,400~\rm{ft.}$) $47.0~\rm{in.hg.}$, $2600~\rm{rpm}$ ($2450~\rm{hp}$).

Airspeed limits

C.G. range

Vno (Normal Operation)	300 mph (260 knots) True Ind.
(Above 12,500' reduce speed	11 mph (10 knots) for ea. additional 2000')
Vne (Never Exceed)	338 mph (293 knots) True Ind.
(Above 12,500' reduce speed	13 mph (11 knots) for ea. additional 2000')
Va (Maneuvering)	218 mph (189 knots) True Ind.
Vf (Takeoff position-60%)	220 mph (191 knots) True Ind.
Vf (Approach position-66%)	200 mph (174 knots) True Ind.
Vf (80%)	200 mph (174 knots) True Ind.
Vf (Landing position-100%)	180 mph (156 knots) True Ind.
Vlo (Landing Gear Operation)	190 mph (165 knots) True Ind.
Vle (Landing Gear Extension)	190 mph (165 knots) True Ind.

Mach No. - Never Exceed .56

See NOTE 1(b) for required loading and gear retraction moment.

Condition	Weight	Landing	Fwd.	Limit	Aft.	Limit
	lbs.	gear	sta.	%MAC	sta.	%Mac
Take-off	135,000*	Down	667.2*	21.0	685.2	32.0
	105,000*	Down	660.5*	18.0	685.2	32.0
	or less					
Landing	110,000*	Down	661.6	18.0	685.2	32.0
	105,000*	Down	660.5*	18.0	685.2	32.0
	or less					
Cruising	133,000*	Up	665.8*	21.0	688.7	34.0
Flight	90,000*	Up	655.2*	15.0	688.7	34.0
	or less					

^{*} Straight line variation between these values.

Weight limits (See NOTE 16 for limits when using low grade fuel) Landing 110,000 lbs.

Takeoff 133,000 lbs. # with auto-feathering (Dump valves are required.) See Equipment Item 1 (b), or (c) or (d) for takeoff weight

with auto feathering inoperative.

#130,000 lbs. for serial Nos. 4101 through 4139 unless modified in accordance with NOTE 6.

Maximum zero fuel weight 105,000 lbs. See NOTE 1(e) for fuel loading.

3-engine ferrying 100,000 lbs. See FAA Approved Airplane Flight Manual for applicable restrictions.

Minimum crew

3. Pilot and Co-pilot at +190 and Flight Engineer at +226.

Passengers

All Serial Numbers originally certificated as cargo carriers. See NOTE 9 for conversion to passenger configuration.

Maximum cargo

		Maximum	Maximum Floor	
<u>Compartment</u>	<u>Station</u>	<u>Cap. (lbs.)</u>	loading psf	<u>Arm</u>
C (Main Cabin)	260-287	1000**	300	274
D (Main Cabin)	287-370	3900	300	329
E (Main Cabin)	370-444	6100	300	408
F (Main Cabin)	444-509	5400	300	477
G (Main Cabin)	509-583	6100	300	546
H (Main Cabin)	583-656	6100	300	620
I (Main Cabin)	656-732	6300	300	694
J (Main Cabin)	732-806	6100	300	769
K (Main Cabin)	806-879	6100	300	842
L (Main Cabin)	879-953	6100	300	916
M (Main Cabin)	953-1026	6100	300	989
N (Main Cabin)	1026-1158	7200	300	1089
O (Main Cabin)	1158-1258	2900	300	1198
Q (Lower Cargo Compt)	334-482	2800	70	402
R (Lower Cargo Compt)	482-638	5040	70	558
S (Lower Cargo Compt)	750-932	5950	70	821
T (Lower Cargo Compt)	932-1140	6370	70	1004

Maximum combined accumulated load of both cabin and lower cargo compartments from extremities of cabin toward main frames:

Foreboo	<u>ly</u>	<u>Afterl</u>	<u>Afterbody</u>				
From Sta. 260	to	From Sta. 12:	58 forward to:				
Sta. 287	300 lbs.	Sta. 1158	2,900 lbs.				
Sta. 370	3,900 lbs.	Sta. 1026	7,200 lbs.				
Sta. 444	6,900 lbs.	Sta. 953	9,800 lbs.				
Sta. 509	9,700 lbs.	Sta. 879	14,100 lbs.				
Sta. 583	14,700 lbs.	Sta. 806	18,300 lbs.				
Sta. 656	20.800 lbs.	Sta. 732	23 500 lbs				

^{**} Including radio and galley equipment (700#) in compartment C.

All cargo loading must be secured with the tie-downs provided since there are no restraining or crash bulkhead provisions.

Fuel capacity

See NOTE 1(c) regarding "Unusable Fuel & System Oil."

Tanks 2 and 3	(inboard)	(790 gal. ea.) 9,480 lbs. (+692).
Tanks 1 and 4	(middle)	(1555 gal. ea.) 18,660 lbs. (+689)
Tanks 2a and 3a	(outboard)	(565 gal. ea.) 6,780 lbs. (+687).
Tank 5	(center section)	(730 gallons) 4.380 lbs. (+694)

Oil capacity See NOTE 1(c) regarding "Unusable Fuel & System Oil."

2 inboard tanks (40 gal. ea.) 600 lbs. (+634) 2 outboard tanks (40 gal. ea.) 600 lbs. (+636) 1 auxiliary cell (center section) (67 gallons) 502 lbs. (+674)

Serial Nos. eligible 1049B/4101 through 1049B/4111; 1049B/4122 through 1049B/4130; 1049B/4133

through 1049B/4150; 1049B/4152 through 1049B/4160; and 1049B/4167 through

1049B/4169.

Required equipment In addition to the pertinent required basic equipment specified in CAR 4b, the following

items of equipment must be installed:

Items 1(b), (c) or (d); 101(c), (d), (e), (f), (g) or (h); 103(b) or (c); 104(b) or (c); 105(a); 107(b); 200(b); 201(a); 202(a)(2) or (3); 203(b); 204(a)(1), (a)(2) or (b)(1); 205(a) or (b); 206(a) or (b); 300(b); 301(a); 303(c) or (e); 400; 440; 441(e); 508(a).

IV - Model 1049C-55, Approved June 9, 1953, and Model 1049E-55, Approved May 26, 1954.

(Same as Model 1049-54 except engines, design weights, structural changes of wings, fuselage, nacelles and landing gear, and installation of sealed "Class D" lower cargo compartments. The Model 1049E-55 is the same as the Model 1049C-55 with miscellaneous structural revisions.)

Engines 4 Wright Compound 972TC18DA1 with 16:7 reduction gear ratio and 6.52:1 Turbo

drive ratio. (Also eligible with 972TC18DA3, 988TC18EA3, and 988TC18EA6. See

Item 111 for engine limits with these engines)

Fuel AN grade 115/145 (See NOTE 16 for engine limits when using low grade fuel)

Engine limits Low impeller ratio 6.46:1

Maximum continuous:

(Sea level) 47.5 in.hg., 2600 rpm (2600 hp)

(Straight line manifold pressure variation with altitude to 6500 ft.) 45.0 in. hg.,

2600 rpm (2650 hp)

Takeoff (2 minutes at sea level; 5 minutes at 7500 ft.; straight line variation of takeoff

power time with altitude to 7500 ft.):

(Sea level) 56.5 in.Hg., 2900 rpm (3250 hp)

(Straight line manifold pressure variation with altitude to $5000\ \text{ft.}$) $53.0\ \text{in.Hg.}$,

2900 rpm (3250 hp)

High impeller ratio 8.67:1

Maximum continuous:

(9550 ft.) 48.5 in.hg., 2600 rpm (2400 hp)

(Straight line manifold pressure variation with altitude to 16,400 ft.) 47.0 in.hg.,

2600 rpm (2450 hp).

Airspeed limits Vno (Normal Operation) 300 mph (260 knots) True Ind.

(Above 12,500' reduce speed 11 mph (10 knots) for each additional 2000')

Vne (Never Exceed) 338 mph (293 knots) True Ind.

(Above 12,500' reduce speed 13 mph (11 knots) for each additional 2000')

Va (Maneuvering)

Vf (Takeoff position-60%)

Vf (Approach position-66%)

218 mph (189 knots) True Ind.

220 mph (191 knots) True Ind.

200 mph (174 knots) True Ind.

Vf(80%)200 mph (174 knots) True Ind.Vf(Landing position-100%)180 mph (156 knots) True Ind.Vlo(Landing Gear Operation)190 mph (165 knots) True Ind.Vle(Landing Gear Extension)190 mph (165 knots) True Ind.

Mach No. - Never Exceed .56

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See NOTE 1(b) for required loading and gear retraction moment.

Condition	Weight	Landing	Fwd. Limit		Aft.L	Aft.Limit	
	lbs.	gear	sta.	%MAC	sta.	%Mac	
Take-off	133,000*	Down	670.3*	23.5	685.2	32.0	
	90,000*	Down	660.5*	18.0	685.2	32.0	
	or less						
Landing	110,000*	Down	664.9	20.5	685.2	32.0	
	90,000*	Down	660.5*	18.0	685.2	32.0	
	or less						
Cruising	133,000*	Up	665.8*	21.0	688.7	34.0	
Flight	90,000*	Up	655.2*	15.0	688.7	34.0	
	or less	•					

^{*} Straight line variation between these values.

Weight limits (See NOTE 16 for limits when using low grade fuel.) Landing 110,000 lbs. See NOTE 13 for higher landing weight.

Takeoff 133,000 lbs. with autofeathering (Dump valves are required.

See Equipment Item 1(b), (c), (d), (e) or (f) for takeoff weight with autofeathering inoperative, and NOTE 7 for takeoff weight when oil transfer system is not installed. See NOTE 12 for higher takeoff weight.

Maximum zero fuel weight 103,500 lbs. See NOTE 1(e) for fuel loading. 3-engine ferrying 100,000 lbs. See FAA Approved Airplane Flight Manual for applicable restrictions.

Minimum crew

3. Pilot and Co-pilot at +190 and Flight engineer at +226.

Passengers

Maximum 99 occupants (passengers plus crew) (CAR 4b.433 and SR 389 effective October 27, 1952.) See Approved Weight and Balance Report for actual number and location.

Baggage

Maximum capacity of internal baggage and storage compartments:

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	<u>(cu. ft.)</u>	loading psf	<u>(lbs.</u>)	<u>C.G.</u>
(A) Fwd. cargo compartment,				
fwd. portion F.S. 334 to 482	77	70	1500	(+402)
(B) Fwd. cargo compartment,				
aft portion F.S. 482 to 638	194	70	3880	(+558)
(C) Aft cargo compartment,				
fwd. portion F.S. 750 to 932	230	70	4600	(+821)
(D) Aft cargo compartment,				
aft portion F.S. 932 to 1140	194	70	3880	(+1004)
Coat closet			200	(+1000)
Coat closets L. & R.			400	(+1165)
Wash water			500	(+980)

Galley areas between Stations 930 and 1014 and 10" from airplane centerline R.H. side is structurally satisfactory for a maximum total load of 2,300 pounds, with a maximum unit floor loading of 70 pounds per square foot.

Galley storage area between Stations 930 and 950 and 10" from airplane centerline L.H. side is structurally satisfactory for a maximum total load of 500 pounds with a maximum unit floor loading of 90 pounds per square foot.

Cabin Cargo Compartment A (optional) Fus. Sta. 260-339 R.H. 900 (+309) Cabin Cargo Compartment B (optional) Fus. Sta. 339-467.5 5200* (+403)

^{*}With lower cargo Compartment A empty. Maximum capacity must be decreased by the amount of any load carried in lower cargo Compartment A.

Fuel capacity See NOTE 1(c) regarding "Usable fuel and System Oil." Tanks 2 and 3 (790 gal. ea.) (inboard) 9,480 lbs. (+692) Tanks 1 and 4 (middle) (1555 gal. ea.) 18,660 lbs. (+689) Tanks 2a and 3a (outboard) (565 gal. ea.) 6,780 lbs. (+687) Tank 5 (center section) (730 gal. ea.) 4,380 lbs. (+694) Oil capacity See NOTE 1(c) regarding "Unusable Fuel and System Oil." 2 inboard tanks (40 gal. ea.) 600 lbs. (+634) 2 outboard tanks (40 gal. ea.) 600 lbs. (+636). 1 auxiliary cell (center sect.) (67 gal. ea.) 502 lbs. (+674) 1049C/4501 through 1049C/4548; 1049E/4549 through 1049E/4665, 1049E/4573, Serial Nos. eligible 1049E/4574; 1049E/4578 through 1049E/4581; 1049E/4606, 1049E/4607; 1049E/4613 through 1049E/4615. Required equipment In addition to the pertinent required basic equipment specified in CAR 4b, the following items of equipment must be installed: Items 1(b), (c), (d), (e) or (f); 101(c), (d), (e), (f), (g) or (h); 103(b) or (c); 104(b) or $(c); \ 105(a); \ 107(b); \ 200(b); \ 201(a); \ 202(a)(2) \ or \ (3); \ 203(b); \ 204(a)(1), \ (a)(2) \ or \ (b)(1); \\$ 205(a) or (b); 206(a) or (b); 300(b); 301(a); 303(c) or (e); 400; 440; 441(c), (d) or (f); V - Model 1049D-55, Approved August 12, 1954. (Same as Model 1049B-55 except for passenger seat installation, additional emergency exits are installed, and the lower cargo compartments are Class D per CAR 4b-383(d).) 4 Wright Compound 972TC18DA1 with 16:7 reduction gear ratio and 6.52:1 Turbo Engines drive ratio. (Also eligible with 972TC18DA3, 988TC18EA3 and 988TC18EA6. See Item 111 for engine limits with these engines) Fuel AN grade 115/145 (See NOTE 16 for engine limits when using low grade fuel) Engine limits Low impeller ratio 6.46:1 Maximum continuous: (Sea level) 47.5 in.hg., 2600 rpm (2600 hp) (Straight line manifold pressure variation with altitude to 6500 ft.) 45.0 in. hg., 2600 rpm (2650 hp) Takeoff (2 minutes at sea level; 5 minutes at 7500 ft.; straight line variation of takeoff power time with altitude to 7500 ft.): (Sea level) 56.5 in.hg., 2900 rpm (3250 hp) (Straight line manifold pressure variation with altitude to 5000 ft.) 53.0 in.hg., 2900 rpm (3250 hp). High impeller ratio 8.67:1 Maximum continuous: (9550 ft.) 48.5 in.hg., 2600 rpm (2400 hp) (Straight line manifold pressure variation with altitude to 16,400 ft.) 47.0 in.hg., 2600 rpm (2450 hp). Vno (Normal Operation) 300 mph (260 knots) True Ind. Airspeed limits (Above 12,500' reduce speed 11 mph (10 knots) for each additional 2000') Vne (Never Exceed) 338 mph (293 knots) True Ind. (Above 12,500' reduce speed 13 mph (11 knots) for each additional 2000') Va (Maneuvering) 218 mph (189 knots) True Ind. Vf (Takeoff position-60%) 220 mph (191 knots) True Ind. Vf (Approach position-66%) 200 mph (174 knots) True Ind. Vf (80%) 200 mph (174 knots) True Ind. Vf (Landing position-100%) 180 mph (156 knots) True Ind. Vlo (Landing Gear Operation) 190 mph (165 knots) True Ind. Vle (Landing Gear Extension) 190 mph (165 knots) True Ind. Mach No. - Never Exceed .56

C.G. range

See NOTE 1(b) for required loading and gear retraction moment.

(A) Passenger or Mixed Cargo-Passenger Loading

Condition	Weight	Landing	Fwd. Limit		Aft.Limit	
	lbs.	gear	sta.	%MAC	sta.	%Mac
Take-off	133,000*	Down	670.23*	23.5	685.2	32.0
	90,000* or less	Down	660.5*	18.0	685.2	32.0
Landing	110,000*	Down	661.6*	20.5	685.2	32.0
	105,000* or less	Down	660.5*	18.0	685.2	32.0
Cruising	133,000*	Up	665.8*	21.0	688.7	34.0
Flight	90,000* or less	Up	655.2*	15.0	688.7	34.0

^{*}Straight line variation between these values.

(B) All Cargo Loading

Condition	Weight	Landing	Fwd. Limit		Aft.L	<u>imit</u>
	lbs.	gear	sta.	%MAC	sta.	%Mac
Take-off	133,000*	Down	670.23*	21.8	685.2	32.0
	105,000* or less	Down	660.5*	18.0	685.2	32.0
Landing	110,000*	Down	661.6*	18.6	685.2	32.0
J	105,000* or less	Down	660.5*	18.0	685.2	32.0
Cruising	133,000*	Up	665.8*	21.0	688.7	34.0
Flight	90,000*	Up	655.2*	15.0	688.7	34.0
	or less					

^{*}Straight line variation between these values.

Weight limits (See NOTE 11 for higher weights; NOTE 16 for weight limits when using low grade fuel; NOTE 19 for application of SR-411A) Landing 110,000 lbs. Takeoff 133,000 lbs.

with autofeathering (Dump valves are required. See Equipment Item 1(b), (c), (d), (e) or (f) for takeoff weight with autofeathering inoperative, and NOTE 7 for takeoff weight when oil transfer system is not installed. Maximum zero fuel weight 105,000 lbs. See NOTE 1(e) for fuel loading.

3-engine ferrying 100,000 lbs. See FAA Approved Airplane Flight Manual for applicable restrictions.

Minimum crew passengers

3. Pilot and Copilot at +190 and Flight Engineer at +226. Maximum 112 occupants (passengers plus crew) (CAR 4b.433 and SR 389 effective October 27, 1952.) See approved Weight and Balance Report for actual number and location.

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		Maximum	Maximum Floor				
<u>Compartment</u>	Station	Cap. (lbs.)	loading psf	Arm			
A (Main Cabin)	260-339	2900	300	300			
B (Main Cabin)	339-444	7200	300	392			
C (Main Cabin)	444-509	5400	300	477			
D (Main Cabin)	509-583	6100	300	546			
E (Main Cabin)	583-656	6100	300	620			
F (Main Cabin)	656-732	6300	300	694			
G (Main Cabin)	732-806	6100	300	769			
H (Main Cabin)	806-879	6100	300	842			
I (Main Cabin)	879-953	6100	300	916			
J (Main Cabin)	953-1026	6100	300	989			
K (Main Cabin)	1026-1158	7700	300	1089			
L (Main Cabin)	1158-1258	3400	300	1198			
A (Lower Cargo Compt)	334-482	2800	70	402			
B (Lower Cargo Compt)	482-638	5040	70	558			
C (Lower Cargo Compt)	750-932	5950	70	821			
D (Lower Cargo Compt)	932-1140	6370	70	1004			
Maximum combined against lead of both solin and larger componentment							

Maximum combined accumulated load of both cabin and lower cargocompartments from extremities of cabin toward main frames:

<u>Forebody</u>		<u>Afterbody</u>			
From Sta. 260	to:	From Sta. 12	58 forward to:		
Sta. 339	2,900 lbs.	Sta. 1158	3,400 lbs.		
Sta. 444	7,200 lbs.	Sta. 1026	7,700 lbs.		
Sta. 509	10,000 lbs.	Sta. 953	10,300 lbs.		
Sta. 583	15,000 lbs.	Sta. 879	14,600 lbs.		
Sta. 656	21,100 lbs.	Sta. 806	18,800 lbs.		
		Sta. 732	24,000 lbs.		

All cargo loading must be secured with the tie-downs provided since there are no restraining or crash bulkhead provisions.

Fuel capacity	See NOTE 1(c) r Tanks 2 and 3 Tanks 1 and 4 Tanks 2a and 3a Tank 5	(inboard) (middle)	(8
Oil capacity	See NOTE 1(c) r 2 inboard tanks 2 outboard tanks 1 auxiliary cell (c		ole Fuel & System Oil." (40 gal. ea.) 600 lbs. (+634) (40 gal. ea.) 600 lbs. (+636) (67 gallons) 502 lbs. (+674)
Serial Nos. eligible	1049D/4163 thro	ough 1049D/4166	

In addition to the pertinent required basic equipment specified in CAR 4b, the following items of equipment must be installed:

Items 1(b), (c), (d), (e) or (f); 101(c), (d), (e), (f), (g) or (h); 103(b) or (c); 104(b) or (c); 105(a); 107(b); 200(b); 201(a); 202(a)(2) or (3); 203(b); 204(a)(1), (a)(2) or (b)(1); 205(a) or (b); 206(b); 300(b); 301(a); 303(c) or (e); 400; 440; 441(g); 508(a).

VI - Model 1049G-82, Approved January 14, 1955.

Required equipment

Maximum cargo

(Same as Model 1049C except engines, propellers, brakes, provisions for tip tanks and structural reinforcements.)

Engines 4 Wright Compound 972TC18DA3 with 16:7 reduction gear ratio and 6.52:1 turbo

drive ratio. (Also elig. with 988TC18EA3 & 988TC18EA6. See Item 111 for engine

limits with these engines.).

Fuel AN grade 115/145. (See NOTE 17 for engine limits when using low grade fuel)

Engine limits

Low impeller ratio 6.46:1

Maximum continuous:

(Sea level) 49.0 in.hg., 2600 rpm (2700 hp)

(Straight line manifold pressure variation with altitude to 5800 ft.) 47.0 in. hg., 2600 rpm (2750 hp)

Takeoff (2 minutes at sea level; 5 minutes at 7500 ft.;

straight line variation of takeoff power time with altitude to 7500 ft.):

(Sea level) 56.5 in.hg., 2900 rpm (3250 hp).

(Straight line manifold pressure variation with altitude to 5500 ft.)

53.5 in.Hg., 2900 rpm (3250 hp)

High impeller ratio 8.67:1

Maximum continuous:

(10,050 ft.) 48.5 in.hg., 2600 rpm (2400 hp)

(Straight line manifold pressure variation with altitude to 16,400 ft.) 47.0 in.hg., 2600 rpm (2450 hp).

Airspeed limits

Vno (Normal Operation) 300 mph (261 knots) True Ind. (Above 12,500' reduce speed 11 mph (10 knots) for each additional 2000') Vne (Never Exceed) 338 mph (294 knots) True Ind. (Above 12,500' reduce speed 13 mph (11 knots) for each additional 2000') Va Maneuvering) 222 mph (193 knots) True Ind. Vf Takeoff position-60%) 224 mph (195 knots) True Ind. Vf (Approach position-66%) 200 mph (174 knots) True Ind. Vf (80%) 200 mph (174 knots) True Ind. Vf (Landing position-100%) 182 mph (158 knots) True Ind. Vlo (Landing Gear Operation) 190 mph (165 knots) True Ind. Vle (Landing Gear Extension) 190 mph (165 knots) True Ind.

Mach No. - Never Exceed .56

C.G. range

See NOTE 1(b) for required loading and gear retraction moment.

Condition	Weight	Landing	Fwd. Limit		Aft.Limit	
	lbs.	gear	sta.	%MAC	sta.	%Mac
Take-off	137,500*	Down	671.3*	24.1	685.2	32.0
	90,000*	Down	660.5*	18.0	685.2	32.0
	or less					
Landing	113,000*	Down	665.8	21.0	685.2	32.0
	90,000*	Down	660.5*	18.0	685.2	32.0
	or less					
Cruising	137,500*	Up	667.0*	21.7	688.7	34.0
Flight	90,000*	Up	655.2*	15.0	688.7	34.0
	or less					

^{*} Straight line variation between these values.

Weight limits (See NOTE 17 for weights using low grade fuel) Landing 113,000 lbs.

Takeoff 137,500 lbs. with autofeathering (Dump valves are

required). See Equipment Item 1(b), (e) or (f) for takeoff weight with autofeathering autofeathering inoperative.

Maximum zero fuel weight 103,500 lbs. (tip tanks off) 104,200 lbs. (tip tanks on) See NOTE 1(e) for fuel loading.

3-engine ferrying 100,000 lbs. See FAA Approved Airplane Flight Manual for applicable restrictions.

Minimum crew

3. Pilot and Co-pilot at +190 and Flight Engineer at +226.

Passengers

Maximum 112, 104 or 96 occupants (passengers plus crew) with 11, 10 or 9 usable passenger exits, respectively. (CAR 4b.433 and SR 389 effective October 27, 1952.) See approved Weight and Balance Report for actual number and location.

Maximum capacity of	internal baggage a	and storage comp	artments:	
	Vol.	Max. Floor	Cap.	Compt.
	(cu. ft.)	loading psf	<u>(lbs.</u>)	C.G.
(A) Fwd. cargo compartment,				
fwd. portion F.S. 334 to 482	75	70	1500	(+402)
(B) Fwd. cargo compartment,				
aft portion F.S. 482 to 638	194	70	3880	(+558)
(C) Aft cargo compartment,				
fwd. portion F.S. 750 to 932	230	70	4600	(+821)
(D) Aft cargo compartment,				
aft portion F.S. 932 to 1140	194	70	3880	(+1004)
Coat closet			200	(+1000)
Coat closets L. & R.			400	(+1165)
Wash water			500	(+ 980)

Baggage

Galley areas between Stations 930 and 1014 and 10" from airplane centerline R.H. side is structurally satisfactory for a maximum total load of 2,300 pounds, with a maximum unit floor loading of 70 pounds per square foot.

Galley storage area between Stations 930 and 950 and 10" from airplane centerline L.H. side is structurally satisfactory for a maximum total load of 500 pounds with a maximum unit floor loading of 90 pounds per square foot.

Fuel capacity	See NOTE 1(c) regarding "Unusable Fuel & System Oil."				
	Tanks 2 and 3 (inboard)	(790 gal. ea.)	9480 lbs. (+692).		
	Tanks 1 and 4 (middle)	(1555 gal. ea.)	18660 lbs. (+689)		
	Tanks 2a and 3a (outboard)	(565 gal. ea.)	6780 lbs. (+687).		
	Tank 5 (center section)	(730 gallons)	4380 lbs. (+694)		
	Tanks 1a and 4a (wing tips)	(609 gal. ea.)	7308 lbs. (+688)		
Oil capacity	See NOTE 1(c) regarding "Uni	usable Fuel and O	il System Oil."		
• •	2 inboard tanks	(42.5 gal. ea.)	638 lbs. (+634)		
	2 outboard tanks	(42.5 gal. ea.)	638 lbs. (+636)		
	1 auxiliary cell (center section)	(67 gallons)	502 lbs. (+674)		
Serial Nos. eligible	1049G/4572, 1049G/4575 thro 1049G/4608 through 1049G/46	C	, 1049G/4582 through 1049G/4605; through 1049G/4699.		
Required equipment	CAR 4b, the following items of equipment must be installed: Items 1(b), (e) or (f); 101(i), (j), (k), or (l); 103(b) or (c); 104(b), (c), or (d); 105(a); 107(b); 200(d); 201(a);				
	(3) or (b)(1); (c), (d) or (e);				

<u>VII - Model 1049F-55 (USAF C121C)</u>, <u>Approved October 10, 1955.</u> (Same as Model 1049B-55 except 34 rectangular windows replace 17 round windows, Class D lower cargo compartments replace Class C compartments, Solar APU replaces AiResearch APU, and heater is added to nose radome. This airplane is basically a cargo rather than a passenger carrier). (See NOTE 5 for modifications necessary for civil conversion of C121C).

Engines 4 Wright Compound 972TC18DA1 with 16:7 reduction gear ratio and 6.52:1 Turbo

drive ratio.

Fuel Grade 115/145 (See NOTE 16 for engine limits when using low grade fuel)

12 6A5

Engine limits

Low impeller ratio 6.46:1

Maximum continuous:

(Sea level) 47.5 in.hg., 2600 rpm (2600 hp)

(Straight line manifold pressure variation with altitude to 6500 ft.) 45.0 in. hg., 2600 rpm (2650 hp)

Takeoff (2 minutes at sea level; 5 minutes at 7500 ft.;

straight line variation of takeoff power time to 7500 ft.):

(Sea level) 56.5 in.hg., 2900 rpm (3250 hp)

(Straight line manifold pressure variation with altitude to 5000 ft.) 53.0 in.hg., 2900 rpm (3250 hp).

High impeller ratio 8.67:1

Maximum continuous:

(9550 ft.) 48.5 in.hg., 2600 rpm (2400 hp)

(Straight line manifold pressure variation with altitude to 16,400 ft.) 47.0 in.hg., 2600 rpm (2450 hp).

Airspeed limits

C.G. range

Vno (Normal Operation) 300 mph (260 knots) True Ind. (Above 12,500' reduce speed 11 mph (10 knots) for each additional 2000') Vne (Never Exceed) 338 mph (293 knots) True Ind. (Above 12,500' reduce speed 13 mph (11 knots) for each additional 2000') Va (Maneuvering) 218 mph (189 knots) True Ind. Vf (Takeoff position-60%) 220 mph (191 knots) True Ind. Vf (Approach position-66%) 200 mph (174 knots) True Ind. Vf (80%) 200 mph (174 knots) True Ind. Vf (Landing position-100%) 180 mph (156 knots) True Ind. Vlo (Landing Gear Operation) 190 mph (165 knots) True Ind.

Vle (Landing Gear Extension) Mach No. - Never Exceed .56

See NOTE 1(b) for required loading and gear retraction moment.

Condition	Weight	Landing	<u>Fwd. Limit</u>		<u>Aft.Limit</u>	
	lbs.	gear	sta.	%MAC	sta.	%Mac
Take-off	133,000*	Down	677.2*	21.1	685.2	32.0
	105,000*	Down	660.5*	18.0	685.2	32.0
	or less					
Landing	110,000*	Down	661.6	18.6	685.2	32.0
	105,000*	Down	660.5*	18.0	685.2	32.0
	or less					
Cruising	133,000*	Up	665.8*	21.0	688.7	34.0
Flight	90,000*	Up	665.2*	15.0	688.7	34.0
	or less					

^{*} Straight line variation between these values.

Weight limits (See NOTE 16 for weights when using low grade fuel)

110,000 lbs. Landing

Takeoff 133,000 lbs. with autofeathering (Dump valves are required.)

See Equipment Item 1(b), (e) or (f) for takeoff weight with autofeathering inoperative.

190 mph (165 knots) True Ind.

Maximum zero fuel weight 105,000 lbs. See NOTE 1(e) for fuel loading. 3-engine ferrying 100,000 lbs. See FAA Approved Airplane Flight Manual for applicable restrictions.

Minimum crew

3. Pilot and Co-pilot at +190 and Flight Engineer at +226.

Passengers

All serial numbers originally certificated as cargo carriers. See Note 9 for conversion to passenger configuration.

Maximum cargo

		Maximum	Maximum Floor	
<u>Compartment</u>	Station	Cap. (lbs.)	loading psf	<u>Arm</u>
C (Main Cabin)	260-287	1000**	300	274
D (Main Cabin)	287-420	5900	300	355
E (Main Cabin)	420-509	7400	300	465
F (Main Cabin)	509-583	6100	300	546
G (Main Cabin)	583-656	6100	300	620
H (Main Cabin)	656-732	6300	300	694
I (Main Cabin)	732-806	6100	300	769
J (Main Cabin)	806-879	6100	300	842
K (Main Cabin)	879-953	6100	300	916
L (Main Cabin)	953-1026	6100	300	989
M (Main Cabin)	1026-1158	7200	300	1089
N (Main Cabin)	1158-1258	2900	300	1198
P (Lower Cargo Compt)	334-482	2800	70	402
Q (Lower Cargo Compt)	482-638	5040	70	558
R (Lower Cargo Compt)	750-932	5950	70	821
S (Lower Cargo Compt)	932-1140	6370	70	1004

Maximum combined accumulated load of both cabin and lower cargocompartments from extremities of cabin toward main frames:

<u>Forebody</u>		<u>Afterbody</u>			
From Sta. 260	to:	From Sta. 12	58 forward to:		
Sta. 287	300 lbs.	Sta. 1158	2,900 lbs.		
Sta. 420	5,900 lbs.	Sta. 1026	7,200 lbs.		
Sta. 509	9,700 lbs.	Sta. 953	9,800 lbs.		
Sta. 583	14,700 lbs.	Sta. 879	14,100 lbs.		
Sta. 656	20,800 lbs.	Sta. 806	18,300 lbs.		
		Sta. 732	23,500 lbs.		

^{**}Including radio and galley equipment (700#) in compartment C.

All cargo loading must be secured with the tie-downs provided since there are no restraining or crash bulkhead provisions.

Fuel capacity	See NOTE 1(c) re	egarding "Unusab	le Fuel & System Oil."
	Tanks 2 and 3	(inboard)	(790 gal. ea.) 9,480 lbs. (+692)
	Tanks 1 and 4	(middle)	(1555 gal. ea.) 18,660 lbs. (+689)
	Tanks 2a and 3a	(outboard)	(565 gal. ea.) 6,780 lbs. (+687)
	Tank 5	(center section)	(730 gallons) 4,380 lbs. (+694)
Oil capacity	See NOTE 1(c) re	egarding "Unusab	le Fuel & System Oil."
	2 inboard tanks		(42.5 gal. ea.) 638 lbs. (+634)
	2 outboard tanks		(42.5 gal. ea.) 638 lbs. (+636)
	1 auxiliary cell (c	enter section)	(67 gallons) 502 lbs. (+674)

Serial Nos. eligible

1049F/4170 through 1049F/4202.

Required equipment

In addition to the pertinent required basic equipment specified in CAR 4b, the following items of equipment must be installed:

1(c); 101(d); 103(b) or (c); 104(b), (c) or (d); 105(a) and (b); 107(b); 200(b), (c) or (d); 201(a); 202(a)(2), (a)(3) or (a)(4); 203(b); 204(a)(1), (a)(2) or (b)(1); 205(a) or (b); 206(b) or (d); 300(b); 301(a); 303(d) or (e); 400; 440; 441(j); 508(a) or (b).

VIII - Model 1049H-82, Approved October 9, 1956.

(Same as Model 1049D/01-55, except for engines of higher power rating, higher takeoff weight; and other minor changes.)

Engines 4 Wright Compound 972TC18DA3 with 16:7 reduction gear ratio and 6.52:1 turbo

drive ratio. (Also eligible with 988TC18EA3 and 988TC18EA6. See Item 111 for

engine limits with these engines.)

Fuel Grade 115/145. (See NOTE 17 for engine limits when using low grade fuel)

Engine limits Low impeller ratio 6.46:1

Maximum continuous:

(Sea level) 49.0 in.hg., 2600 rpm (2700 hp)

(Straight line manifold pressure variation with altitude to 5800 ft.) 47.0 in. hg.,

2600 rpm (2750 hp)

Take-off (2 minutes at sea level; 5 minutes at 7500 ft.; straight line variation of takeoff

power time with altitude to 7500 ft.):

(Sea level) 56.5 in.hg., 2900 rpm (3250 hp). (Straight line manifold pressure variation with altitude to 5500 ft.) 53.5 in.Hg.,

2900 rpm (3250 hp) High impeller ratio 8.67:1

Maximum continuous:

(10,050 ft.) 48.5 in.hg., 2600 rpm (2400 hp)

(Straight line manifold pressure variation with altitude to 16,400 ft.) 47.0 in.hg.,

2600 rpm (2450 hp).

Airspeed limits Vno (Normal Operation) 300 mph (261 knots) True Ind.

(Above 12,500' reduce speed 11 mph (10 knots) for each additional 2000')

190 mph (165 knots) True Ind.

Vne (Never Exceed) 338 mph (294 knots) True Ind.

(Above 12,500' reduce speed 13 mph (11 knots) for each additional 2000')

Va(Maneuvering)222 mph (193 knots) True Ind.Vf(Takeoff position-60%)224 mph (195 knots) True Ind.Vf(Approach position-66%)200 mph (174 knots) True Ind.

Vf (80%) 200 mph (174 knots) True Ind. Vf (Landing position-100%) 182 mph (158 knots) True Ind. Vlo (Landing Gear Operation) 190 mph (165 knots) True Ind.

Vle (Landing Gear Extension) Mach No. - Never Exceed .56

See Note 1(b) for required loading and gear retraction moment.

(A) Passenger or Mixed Cargo-Passenger Loading

Condition	Weight	Landing <u>Fwd. Limit</u> <u>Aft.L.</u>		<u> _imit</u>		
	lbs.	gear	sta.	%MAC	sta.	%Mac
Take-off	137,500*	Down	671.3*	24.1	685.2	32.0
	90,000*	Down	660.5*	18.0	685.2	32.0
	or less					
Landing	113,000*	Down	665.8*	21.0	685.2	32.0
	90,000*	Down	660.5*	18.0	685.2	32.0
	or less					
Cruising	137,500*	Up	667.0*	21.7	688.7	34.0
Flight	90,000*	Up	655.2*	15.0	688.7	34.0
	or less					

C.G. range

(B) All Cargo Loading

Condition	Weight	Landing	Fwd. I	Fwd. Limit		<u>imit</u>
	lbs.	gear	sta.	%MAC	sta.	%Mac
Take-off	137,500*	Down	668.4*	22.4	685.2	32.0
	105,000* or less	Down	660.5*	18.0	685.2	32.0
Landing	113,000*	Down	662.3*	19.0	685.2	32.0
	105,000* or less	Down	660.5*	18.0	685.2	32.0
Cruising	137,000*	Up	667.0*	21.7	688.7	34.0
Flight	90,000* or less	Up	655.2*	15.0	688.7	34.0

^{*}Straight line variation between these values.

Weight limits (See NOTE 17 for limits when using low grade fuel, and Note 19 for application of SR-411A)

Landina	113,000 lbs.	See NOTE 14 for higher landing weight
Landing	- ,	See NOTE 14 for higher landing weight.
Takeoff	137,500 lbs.	with autofeathering (Dump valves are required.
		See Equipment Item 1(b), (e) or (f) for takeoff
		weight with autofeathering inoperative, and
		and NOTE 14 for for higher takeoff weight.
Maximum zer	ro fuel weight	108 000 lbs (tip tanks off)

Maximum zero fuel weight 108,000 lbs. (tip tanks off) 104,200 lbs. *tip tanks on)

See NOTE 1(e) for fuel loading.

 $3\mbox{-engine}$ ferrying $100,\!000$ lbs. See FAA Approved Airplane Flight Manual for applicable restrictions.

Minimum crew passengers

3. Pilot and Copilot at +190 and Flight Engineer at +226.

Passengers

Maximum 112 occupants (passengers plus crew) (CAR 4b.433 and SR 389 effective October 27, 1952.) See approved Weight and Balance Report for actual number and location.

Maximum cargo

		Maximum	Maximum Floor	
Compartment	Station	Cap. (lbs.)	loading psf	Arm
A (Main Cabin)	260-339	2900	300	300
B (Main Cabin)	339-444	7200	300	392
C (Main Cabin)	444-509	5400	300	477
D (Main Cabin)	509-583	6100	300	546
E (Main Cabin)	583-656	6100	300	620
F (Main Cabin)	656-732	6300	300	694
G (Main Cabin)	732-806	6100	300	769
H (Main Cabin)	806-879	6100	300	842
I (Main Cabin)	879-953	6100	300	916
J (Main Cabin)	953-1026	6100	300	989
K (Main Cabin)	1026-1158	7700	300	1089
L (Main Cabin)	1158-1258	3400	300	1198
A (Lower Cargo Compt)	334-482	2800	70	402
B (Lower Cargo Compt)	482-638	5040	70	558
C (Lower Cargo Compt)	750-932	5950	70	821
D (Lower Cargo Compt)	932-1140	6370	70	1004
A (Lower Cargo Compt) B (Lower Cargo Compt) C (Lower Cargo Compt)	334-482 482-638 750-932 932-1140	2800 5040 5950 6370	70 70 70 70	402 558 821

Maximum combined accumulated load of both cabin and lower cargo compartments from extremities of cabin toward main frames:

<u>Forebody</u>		Afterboo	<u>Afterbody</u>		
From Sta. 260	to:	From Sta. 1258	forward to:		
Sta. 339	2,900 lbs.	Sta. 1158 3	,400 lbs.		
Sta. 444	7,200 lbs.	Sta. 1026 7	,700 lbs.		
Sta. 509	10,000 lbs.	Sta. 953 10	,300 lbs.		
Sta. 583	15,000 lbs.	Sta. 879 14	,600 lbs.		
Sta. 656	21,100 lbs.	Sta. 806 18	,800 lbs.		
		Sta. 732 24	,000 lbs.		

All cargo loading must be secured with the tie-downs provided since there are no restraining or crash bulkhead provisions.

Fuel capacity See NOTE 1(c) regarding "Unusable Fuel & System Oil."

Tanks 2 and 3 (inboard) (790 gal. ea.) 9,480 lbs. (+692). (1555 gal. ea.) 18,660 lbs. (+689) Tanks 1 and 4 (middle) Tanks 2a and 3a (565 gal. ea.) 6,780 lbs. (+687). (outboard) Tank 5 (center section) (730 gallons) 4,380 lbs. (+694) (609 gal. ea) Tanks 1a and 4a (wing tips) 7,308 lbs. (+688)

Oil capacity See NOTE 1(c) regarding "Unusable Fuel & System Oil."

2 inboard tanks (42.5 gal. ea.) 638 lbs. (+634) 2 outboard tanks (42.5 gal. ea.) 638 lbs. (+636) 1 auxiliary cell (center section) (67 gallons) 502 lbs. (+674)

Serial Nos. eligible 1049H/4801 through 1049H/4853

Required equipment In addition to the pertinent required basic equipment specified in CAR 4b, the following

items of equipment must be installed:

Items 1(b), (e) or (f); 101(i), (j), (k), or (l); 103(b) or (c); 104(b), (c), or (d); 105(a); 107(b); 200(d); 201(a); 202(a)(3) or (a)(4); 203(b); 204(a)(1), (a)(2) (a)(3), or (b)(1); 205(a) or (b); 206(c); 300(b) or (c); 301(a); 303(c), (d) or (e); 400;

440; 441(g) or (k); 508(c) or (d).

SPECIFICATIONS PERTINENT TO ALL MODELS

Datum 730.2 in. forward of jig point. (Screwhead on bottom surface of wing 1.8 in. fwd. of

center line of rearbeam and 3.5 in inboard of wing sta. 80).

MAC 176 inches. Leading edge of MAC Sta. 628.8. Leveling means Leveling plate under fuselage floor at ref. Sta. 657.

Control surface movements Main surfaces (booster pressure on) - Elevator 40° up 20° down

Aileron 25° up 10° down Rudder 30° right 30° left Elevator 22° up 22° down Aileron 12° up 12° down

Aileron 12° up 12° dow Rudder 25° right 25° left

Flaps - 41° total angular travel.

Tabs (main surfaces in neutral)

Certification basis Type Certificate No. 6A5 (CAR 4b - as amended to October 1, 1949.)

All 1049 Series Models have been examined and found to comply with the Standards of Transport Category A of Annex 8 to the Convention on International Civil Aviation, entitled "Airworthiness of Aircraft," as amended to December 1949 with the following

exception:

1. 2.4.4 Stalling, Symmetrical Power.

Compliance with the ditching requirements of CAR 4b has been demonstrated.

Maximum approved operational altitude 25,000 ft.

Production basis Production Certificate No. 600.

Equipment: A plus (+) or minus (-) sign preceding the weight of an item of equipment indicates net weight change when that item is installed.

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 FAA-186, PMA or other evidence of FAA production approval.

Propellers and Propeller Accessories (Except De-Icing Equipment)

1a. (1) 4 Propellers - Ham. Std. hubs 43E60, blades 6901-02

2281 lb. (+509)

(including slingers and shoes)

Diameter: Max. 15' 1-5/16", min. allowable for repairs 14' 9-3/16".

No further reduction permitted.

Pitch settings at 72 in. sta.: Low fwd. 12° , low reverse -21.5°, propeller

feathering setting must prevent engine windmilling (Approximately 81.5°) Propellers and

	(2)	4 Propeller spinners - Ham. Std. 76832	80 lbs. (+509)
	(3)	4 Feathering pumps - Pesco 1E-777-ML-1 (Mod.)	58 lbs. (+604)
	(4)	4 Propeller governors Ham. Std. Type 5AA-22-8 or 5U18 (See NOTE 20)	56 lbs. (+531)
	(5)	4 Master Synchronizer Generators Kollsman 1135GH-0120304	17 lbs. (+578)
	(6)	1 Propeller Synchronizing Control Box Ham. Std. Dwg. 322080	40 lbs. (+193)
b.	(1)	4 Propellers - Curtiss Electric hubs C634S-S, blades	2586 lbs. (+509)
		858-5C4-0 (including slingers and shoes) with or without trailing edge extension.	
		(G & H Series Models equipped with this propeller must use trailing edge extension) Diameter 15'0".).
		Pitch settings at 54 in. sta.: low fwd. 23.7° low reverse -11.8°,	
		propeller feathering pitch setting must prevent engine windmilling (approximate	elv 91.2°).
		Placard required in full view of flight engineer:	, , ,.
		"Do not operate propellers in flight below 1500 engine rpm."	
		Max. takeoff wt. auto-feathering inoperative - 129,800 lbs.	
	(2)	4 spinners - Curtiss Type 145491	84 lbs. (+509)
		4 Alternators - Curtiss Type 124512	16 lbs. (+545)
		1 Synchronizer Master Unit - Curtiss Type 119778-20	40 lbs. (+195)
		2 Voltage boosters Curtiss Type 116285-231	40 lbs. (+252)
	(6)	1 Master Unit Filter Curtiss Type 112148-9	6 lbs. (+171)
		4 Nacelle Filters Curtiss Type 111872	10 lbs. (+590)
c.	(1)	4 Propellers - Ham. Std. hubs 43E60, blades 6903B-0	2372 lbs. (+509)
		(including slingers and shoes)	
		Diameter: Max. 15' 1-1/16", min. allowable for repairs 14' 9-7/16". No further reduction permitted.	
		Pitch settings at 72 in. sta.: Low fwd. 14°, low reverse -21.5°, propeller feathering	
		pitch setting must prevent engine windmilling (Approximately 80.5°).	
		Placard required in full view of flight engineer:	
		"Airplane shall be headed into the wind during static	
		run-up when engine speeds exceed 2600 rpm."	
		Max. takeoff wt. with auto-feathering inoperative - 131,500 lbs.,	
		or maximum weight with auto feathering operative whichever is less.	
		4 Propeller spinners - Ham. Std. 83772	84 lbs. (+509)
	(3)	4 Propeller Feathering Pumps	
		(a) Pesco 112577-021-01	92 lbs. (+617)
		4 Propeller Governors Ham. Std. Type 5AA-22-8 or 5U18 (See NOTE 20)	56 lbs. (+532)
		4 Synchronizing Generators Kollsman Type 1492-0120304	17 lbs. (+579)
	(6)	1 Synchronizing Control Box Ham. Std. Dwg. 322080	40 lbs. (+193)
d.	(1)	4 Propellers - Curtiss electric hubs C634S-C500, blades	2610 lbs. (+509)
		830-21C4-0 (including slingers and shoes)	
		Diameter 15'1".	
		Pitch settings at 54 in. sta.: low fwd. 22.3° low reverse	
		-16°, propeller feathering pitch setting must prevent engine	
		windmilling (approximately 90.5°).	
		Placard required in full view of flight engineer:	
		"Do not operate propellers in flight below 1500 engine rpm."	
	(2)	Max. takeoff wt. autofeathering inoperative - 129,800 lbs.	0.4.11 (. 500)
	(2)	4 spinners - Curtiss Type 145491	84 lbs. (+509)
	(3)	* *	16 lbs. (+545)
		1 Synchronizer Master Unit - Curtiss Type 119778-20	40 lbs. (+195)
		2 Voltage boosters - Curtiss Type 116285-231	40 lbs. (+252)
		1 Master Unit Filter - Curtiss Type 112148-9 4 Nacelle Filters - Curtiss Type 11872	6 lbs. (+171)
	(7)	4 Nacelle Filters - Curtiss Type 11872	10 lbs. (+590)

(e) (1) 4 Propellers - Ham. Std. hubs 43H00, blades 6959B-0 or blades 6967-0 (nickel plated) (including slingers and shoes) Diameter: Max. 15 1-516", min. allowable for repairs 14"9-316", No further reduction permitted. Pitch settings at 72 in. star. Low fwd. 14", reverse -21.5" Propeller feathering pitch setting must prevent engine windmilling (approximately 80.5") Max. takeoff vt. with autofeathering inoperative - 134,600 lbs. or maximum weight with autofeathering operative whichever is less. (2) 4 Propeller spinners - Hamilton Standard 97197 70 lbs. (+509) (3) 4 Feathering pumps - Hamilton Standard 112577-041 or 112577-021 92 lbs. (+617) (4) 4 Propeller Governors - Hamilton Standard 37197 92 lbs. (+617) (5) 1 Synchronizing Control Box - Hamilton Standard 322080 40 lbs. (+93) (6) 1 Synchronizing Control Box - Hamilton Standard 322080 40 lbs. (+93) (6) 1 Synchronizing Control Box - Hamilton Standard 322080 40 lbs. (+93) (6) 1 Hubs C634D-A2, Blades 109652-12 (including blade heaters) (7) (1) 4 Propellers - Curriss electric (Duration) (8) 1 Hubs C634D-A2, Blades 109652-12 (including blade heaters) (9) 1 Hubs C634D-A2, Blades 109652-12 (including slingers & shoes) Diameter: 150°, min. allowable for repairs 14" 8-38". No further reduction permitted. Pitch settings at 54 in. star.: low fwd. 23", reverse - 10" Propeller feathering pitch setting must prevent engine windmilling (approximately 88.6°) Placard required in full view of flight engineer: "Do not operate propellers in flight below 1400 engine rpm." Max. takeoff wt. autofeathering inoperative - 130,700 lbs. (2) 4 Propeller Spinners - Curriss type 152331 or 153121 158 lbs. (+509) 2) 2 Voltage bootsers - Curriss type 116285 (3) 1 Alternators - Curriss type 116285 (4) 1 Synchronizer Master Unit - Curriss type 152923 40 lbs. (+545) (5) 2 Voltage bootsers - Curriss type 116285 (6) 1 Master Unit Filter - Curriss type 15293 (153) (7) 1 Master Unit Filter - Curriss type 15293 (153) (8) 1 Marter type 58-00-67 Md. 3 and 9-946-75 Md. 2 (154)	()	(1)	4 D 11	II G. 1 1 1 42	HCO 11 1 CO50D 0	11 1	2500 11 (.500)
Diameter: Max. 15 1-5167, min. allowable for repairs	(e)	(1)				or blades	2598 lbs. (+509)
14'9-3/16' No further reduction permitted.						_	
Pitch settings at 72 in. star. Low fwd. 147, reverse -21.5° Propeller feathering pitch setting must prevent engine windmilling (approximately 80.5°) Max. takooff wt. with autofeathering inoperative - 134,600 lbs. or maximum weight with autofeathering operative whichever is less. 24 Propeller spinners - Hamilton Standard 971977-021 92 lbs. (+617) 44 Propeller Governors - Hamilton Standard 5AA-22-8 55 lbs. (+527) 60 18 ynchronizing Generators - Kollsmand 1492-0120304 or 1492B-0120304 71 lbs. (+579) 60 18 ynchronizing Generators - Kollsmand 1492-0120304 or 1492B-0120304 71 lbs. (+579) 60 18 ynchronizing Generators - Kollsmand 1492-0120304 or 1492B-0120304 71 lbs. (+579) 71 lbs. (+					•	\$	
Propeller feathering pitch setting must prevent engine windmilling (approximately 8) 05/5) Max. takcoff wt. with autofeathering inonperative whichever is less. 2 4 Propeller spinners - Hamilton Standard 97197 70 10 15 (509) 3 4 Feathering pumps - Hamilton Standard 97197 12 12 92 lbs. (+617) 4 4 Propeller Groyenors - Hamilton Standard 112577-021 192 lbs. (+617) 3 4 Feathering pumps - Hamilton Standard 32-080 17 lbs. (+509) (6) 1 Synchronizing Generators - Kollsman 1492-0120304 17 lbs. (+532) (6) 1 Synchronizing Generators - Kollsman 1492-0120304 17 lbs. (+539) (6) 1 Synchronizing Generators - Kollsman 1492-0120304 17 lbs. (+539) (6) 1 Synchronizing Generators - Kollsman 1492-0120304 19 lbs. (+530) (1) 4 Propellers - Curtiss electric (Dural) (a) Hubs C63410-A2, Blades 109652-12 (including blade heaters) 2988 lbs. (+509) (b) Hubs C63410-A2, Blades 109652-12 (including slingers & shoes) 2934 lbs. (+509) Diameter: 150°, min. allowable for repairs 14° 8-338°. No further reduction permitted. Pitch settings at \$41 in. sta: low flowth. 23°, reverse - 10° Propeller feathering pitch setting must prevent engine windmilling (approximately 88.6°). Placard required in full view of flight engineer: "Do not operate propellers in flight below 1400 engine rpm." Max. takcoff W. taulofeathering inoperative - 130,700 lbs. (2) 4 Propeller Spinners - Curtiss type 152321 15 lbs. (+509) (3) 4 Alternators - Curtiss type 15293 40 lbs. (+52) (5) 2 Voltage boosters - Curtiss type 11248-9 6 lbs. (+171) Engines and Engine Accessories - Fuel and Oil System 100. Patch types 8-3046-75 Mas and 1-3946-75 Ms (2) Parker types 8-3046-75 Ms and 1-3946-75 Ms (2) Parker types 8-3046-75 Ms and 1-3946-75 Ms (2) Parker types 8-3046-75 Ms and 9-946-75 Ms (2) Parker types 8-3046-75 Ms and 9-946-75 Ms (2) Parker types 8-3046-75 Ms and 1-319-54637M (3) (1) Parker types 8-3046-75 Ms and 1-3946-75 Ms (2) Parker types						E 0	
Max. takeoff wt. with autofeathering inoperative - 134,600 lbs. or maximum weight with autofeathering operative whichever is less.						.5	
Max. takcoff wt. with autofeathering inoperative - 134,600 lbs. or maximum weight with autofeathering operative whichever is less. (2) 4 Propeller spinners - Hamilton Standard 97197 70 lbs. (+509) (3) 4 Feathering pumps - Hamilton Standard 97197 91 92 lbs. (+617) (4) 4 Propeller Governors - Hamilton Standard 32080 71 lbs. (+520) (5) 5 A Synchronizing Generators - Kollsman 1492-0120304 71 lbs. (+532) (6) 1 Synchronizing Generators - Kollsman 1492-0120304 71 lbs. (+539) (6) 1 Synchronizing Generators - Kollsman 1492-0120304 71 lbs. (+539) (7) (1) 4 Propeller Curtiss electric (Dural) (8) (1) 4 Propellers - Curtiss electric (Dural) (9) (1) 4 Propellers - Curtiss electric (Dural) (9) (1) 4 Propellers - Curtiss electric (Dural) (1) 4 Jubs C634D-A4, Blades 109652-12 (including blade heaters) (2) 934 lbs. (+509) (1) Hubs C634D-A4, Blades 109652-12 (including slingers & shoes) (2) 934 lbs. (+509) (3) 1 Jubs - 134 lbs. 1 lbs. 1 lbs. 1 lbs. (+509) (4) 1 Hubs C634D-A4, Blades 109652-12 (including slingers & shoes) (5) 2934 lbs. (+509) (6) 1 Macter 150°, min. allowable for repairs (7) 1 Hubs - 134 lbs. 1 lbs. (+509) (8) 1 Hubs - 134 lbs. 1 lbs. (+509) (9) Propeller feathering pitch setting must prevent engine (9) Propeller feathering pitch setting must prevent engine (9) Propeller feathering pitch setting must prevent engine (10) Hubs - 134 lbs. (+509) (2) 4 Propeller Spinners - Curtiss type 152331 or 153121 (3) 4 Alternators - Curtiss type 124512 (4) 1 Synchronizer Master Unit - Curtiss type 152923 (5) 2 Voltage boosters - Curtiss type 15293 (6) 1 Master Unit Fluster - Curtiss type 11248-9 (6) 1 Master Unit Fluster - Curtiss type 11248-9 (6) 1 Master Unit Fluster - Curtiss type 11248-9 (7) 1 Hubs - 14 lbs. (+509) (8) Parker types 8-3046-75 (Mod. 2) (9) Parker types 8-3046-75 (Mod. 2) (10) Parker types 8-							
(2) 4 Propeller spinners - Hamilton Standard 97197 (3) 4 Feathering pumps - Hamilton Standard 112577-041 or 112577-021 (4) 4 Propeller Governors - Hamilton Standard 112577-041 or 112577-021 (5) 4 Synchronizing Generators - Kollsman 1492-0120304 or 1492B-0120304 (6) 1 Synchronizing Generators - Kollsman 1492-0120304 or 1492B-0120304 (7) (1) 4 Propellers - Curtiss electric (Dural) (8) 1 Hubs C634D-A2, Blades 109652-12 (including blade heaters) (9) 1 Hubs C634D-A4, Blades 109652-12 (including slingers & shoes) (9) 1 Hubs C634D-A4, Blades 109652-12 (including slingers & shoes) (1) 1 Hubs C634D-A4, Blades 109652-12 (including slingers & shoes) (1) 1 Hubs C634D-A4, Blades 109652-12 (including slingers & shoes) (2) 1 Diameter: 15'0", min. allowable for repairs (1) 4 S-38". No further reduction permitted. (2) Pitch settings at \$4\$ in. stat. low fwd. 23", reverse - 10° (3) Propeller feathering pitch setting must prevent engine windmilling (approximately 88.6"). (2) Placard required in full view of flight engineer: (3) To not operate propellers in flight below 1400 engine rpm." (4) Max. takcoff wt. autofeathering inoperative - 130,700 lbs. (2) 4 Propeller Spinners - Curtis type 152331 or 153121 (3) 4 Alternators - Curtiss type 152331 or 153121 (4) 1 Synchronizer Master Unit - Curtiss type 152933 (4) 1 Synchronizer Master Unit - Curtiss type 152933 (5) 2 Voltage boosters - Curtiss type 11248-9 (6) 1 Master Unit Filter - Curtis type 11248-9 (7) 1 Master Unit Filter - Curtis type 11248-9 (8) 2 Voltage boosters - Curtiss type 11248-9 (9) 4 Parker types 8-3046-75 M and 9-946-75 M and 1.319-54637M (1) Fundable fuel and system oil (See NOTE 3 regarding use of dump valves) (2) Parker types 8-3046-75 M and 9-946-75 M and 1.319-54637M (2) Parker types 8-3046-75 M and 9-946-75 M and 1.319-54637M (3) 10 Unusable fuel and system oil (See NOTE 1 for definition). Airplane Prop. Item Center Section Center Section Model Installed Installe						600 lba	
(2) 4 Propeller spinners - Hamilton Standard 97197 70 lbs. (+692) (3) 4 Feathering pumps - Hamilton Standard 112577-041 or 112577-021 22 lbs. (+617) (4) 4 Propeller Governors - Hamilton Standard 112577-041 or 112577-021 71 lbs. (+652) (5) 4 Synchronizing Generators - Kollsman 1492-0120304 or 1492B-0120304 17 lbs. (+532) (6) 1 Synchronizing Control Box - Hamilton Standard 322080 40 lbs. (+193) (7) (1) 4 Propellers - Curtiss electric (Dural) (8) Hubs C634D-A2, Blades 190652-12 (including blade heaters) 2988 lbs. (+509) (9) Hubs C634D-A2, Blades 190652-12 (including slingers & shoes) 2934 lbs. (+509) Diameter 150°, min. allowable for repairs 14 8-38°. No further reduction permitted. Pitch settings at 54 in. sta.: low fwd. 23°, reverse -10° Propeller feathering pitch setting must prevent engine windmilling (approximately 88.6°). Placard required in full view of flight engineer: "Do not operate propellers in flight below 1400 engine rpm." Max. takeoff wt. autofeathering inoperative - 130,700 lbs. (2) 4 Propeller Spinners - Curtiss type 152331 or 153121 158 lbs. (+509) (3) 4 Alternators - Curtiss type 152331 or 153122 158 lbs. (+509) (3) 4 Alternators - Curtiss type 16285 40 lbs. (+545) (4) 1 Synchronizer Master Unit - Curtiss type 152923 40 lbs. (+525) (5) 2 Voltage boosters - Curtiss type 11248-9 61 lbs. (+545) (6) 1 Master Unit Filter - Curtiss type 112148-9 61 lbs. (+545) (6) 1 Master Unit Filter - Curtiss type 11248-9 61 lbs. (+617) Pengines and Engine Accessories - Fuel and Oil System 100. Fuel dump valves (See NOTE 3 regarding use of dump valves) (a) Parker types 8-3046-75 M3 and 1.319-34637M (b) Parker types 8-3046-75 M3 and 1.319-34637M (c) Parker types 8-3046-75 M3 and 1.319-34637M (d) Lususable fuel and system oil (See NOTE 1 for definition). Airplane Prop. Item Center Section Center Section Model Installed							
(3) 4 Feathering pumps - Hamilton Standard 112577-041 or 112577-021 (4) 4 Propeller Governors - Hamilton Standard 5A-22-8 (5) 4 Synchronizing Generators - Kollsman 1492-0120304 or 1492B-0120304 (7) (1) 4 Propellers - Curtiss electric Dural) (8) 1 Synchronizing Control Box - Hamilton Standard 322080 (8) 1 Hubs C634D-A2, Blades 109652-12 (including blade heaters) (9) 1 Hubs C634D-A4, Blades 109652-12 (including slingers & shoes) (9) 1 Hubs C634D-A4, Blades 109652-12 (including slingers & shoes) (9) 2934 lbs. (+509) (10) 2		(2)				irchever is less.	70 lbs (+500)
(4) 4 Propeller Governors - Hamilton Standard SAA-22-8 (5) 4 Synchronizing Generators - Kollsman 1492-0120304 or 1492B-0120304 17 lbs. (+579) (6) 1 Synchronizing Control Box - Hamilton Standard 322080 40 lbs. (+193) (7) (1) 4 Propellers - Curtiss electric (Dural) (8) 4 Hubs C634D-A2, Blades 109652-12 (including blade heaters) 2988 lbs. (+509) (9) Hubs C634D-A2, Blades 109652-12 (including slingers & shoes) 2934 lbs. (+509) Diameter: 150", min. allowable for repairs 14 8-38". No further reduction permitted. Pitch settings at 54 in. sta: 10w fwd. 23", reverse -10" Propeller feathering pitch setting must prevent engine windmilling (approximately 88-6"). Placard required in full view of Hight engineer: "Do not operate propellers in flight below 1400 engine rpm." Max. takeoff wt. autofeathering inoperative - 130,700 lbs. (2) 4 Propeller Spinners - Curtiss type 152331 or 153121 15 lbs. (+509) (3) 4 Alternators - Curtiss type 152331 or 153121 15 lbs. (+545) (4) 1 Synchronizer Master Unit - Curtiss type 152923 40 lbs. (+255) (5) 2 Voltage boosters - Curtiss type 11248-9 6 lbs. (+171) Engines and Engine Accessories - Fuel and Oil System 100. Fuel dump valves (See NOTE 3 regarding use of dump valves) (a) Parker types 8-3046-75 M3 and 9-946-75 M3. (b) Parker types 9-946-75-M3 and 1319-54637M 101. Unusable fuel and system oil (See NOTE 1 for definition). Airplane Prop. Item Center Section Center Section Model Installed Ins						or 112577 021	
(5) 4 Synchronizing Generators - Kollsman 1492-0120304 or 1492B-0120304 17 lbs. (+579) 40 lbs. (+193) (6) 1 Synchronizing Control Box - Hamilton Standard 322080 20 seption 1492B-0120304 41 lbs. (+193) (7) (1) 4 Propellers - Curtiss electric (Dural) (8) Hubs C634D-A2, Blades 109652-12 (including blade heaters) 2934 lbs. (+509) 2934 lbs.						01 112377-021	` '
(6) 1 Synchronizing Control Box - Hamilton Standard 322080 (7) (1) 4 Propellers - Curtiss electric (Dural) (8) 1 Hubs C634D-A2, Blades 109652-12 (including blade heaters) (9) 1 Hubs C634D-A4, Blades 109652-12 (including slingers & shoes) (10) 1 Hubs C634D-A4, Blades 109652-12 (including slingers & shoes) (11) 2934 lbs. (+509) (12) 2934 lbs. (+509) (13) 2934 lbs. (+509) (14) 2838". No further reduction permitted. (14) 2838". No further reduction permitted. (15) 294 Propeller feathering pitch setting must prevent engine windmilling (approximately 88.6"). (16) 294 Propeller feathering pitch setting must prevent engine windmilling (approximately 88.6"). (17) 295 Placard required in full view of flight engineer: (18) 295 Propeller Spinners - Curtiss type 15293 (19) 21 16 lbs. (+509) (19) 3 4 Alternators - Curtiss type 152331 or 153121 (15) 81 lbs. (+509) (10) 4 Alternators - Curtiss type 152331 or 153121 (16) lbs. (+545) (14) 1 Synchronizer Master Unit - Curtiss type 152923 (16) lbs. (+525) (16) 1 Master Unit Filter - Curtiss type 11248-9 (16) lbs. (+252) (16) 1 Master Unit Filter - Curtiss type 11248-9 (16) lbs. (+71) (17) 2 Voltage boosters - Curtiss type 11248-9 (16) lbs. (+71) (18) 2 Voltage boosters - Curtiss type 11248-9 (16) lbs. (+71) (19) 2 Purked dump valves (See NOTE 3 regarding use of dump valves) (10) 2 Parker types 8-3046-75 (Mod. 2) and 9-946-75 (Mod. 2) (10) 3 Parker types 8-3046-75 (Mod. 2) and 9-946-75 (Mod. 2) (10) 4 Parker types 8-3046-75 (Mod. 2) and 9-946-75 (Mod. 2) (10) 4 Parker types 8-3046-75 (Mod. 2) and 9-946-75 (Mod. 2) (10) 4 Parker types 8-3046-75 (Mod. 2) and 9-946-75 (Mod. 2) (10) 4 Parker types 8-3046-75 (Mod. 2) and 9-946-75 (Mod. 2) (10) 4 Parker types 8-3046-75 (Mod. 2) and 9-946-75 (Mod. 2) (10) 4 Parker types 8-946-75-40 (16) and 9-946-75 (Mod. 2) (10) 4 Parker types 8-946-75-40 (16) and 9-946-75 (Mod. 2) (10) 4 Parker types 8-946-75-40 (16) and 9-946-75 (Mod. 2) (10) 4 Parker types 8-946-75-40 (16) and 9-946-75 (Mod. 2) (10) 4 Parker types 8-946-75-40 (16) and 9-946-75 (Mod. 2						Lor 1402D 0120204	· · ·
(f) (1) 4 Propellers - Curtiss (a) Bades 109652-12 (including blade heaters) (2988 lbs. (+509) (b) Hubs C634D-A2, Blades 109652-12 (including slingers & shoes) (2934 lbs. (+509) Diameter: 150°, min. allowable for repairs 14 8-3/8°. No further reduction permitted. Pitch settings at 54 in. sta: low fwd. 23°, reverse -10° Propeller feathering pitch setting must prevent engine windmilling (approximately 88.6°). Placard required in full view of flight engineer: "Do not operate propellers in flight below 1400 engine rpm." Max. takeoff wt. autofeathering inoperative - 130,700 lbs. (2) 4 Propeller Spinners - Curtiss type 152331 or 153121 158 lbs. (+509) (3) 4 Alternators - Curtiss type 152331 or 153121 16 lbs. (+545) (4) 1 Synchronizer Master Unit - Curtiss type 152923 40 lbs. (+525) (5) 2 Voltage bootsters - Curtis type 116285 40 lbs. (+171) (5) 2 Voltage bootsters - Curtis type 116285 40 lbs. (+171) (5) 2 Voltage bootsters - Curtis type 11248-9 6 lbs. (+171) (7) (8) 2 Parker types 3-3046-75 Mod. 2) (9) Parker types 8-3046-75 M3 and 9-946-75 M3 (10) Parker types 8-3046-75 M3 and 9-946-75 M3 (10) Parker types 8-3046-75 M3 and 1.319-54637M (10) Parker types 9-946-75-M3 and 1.319-54637M			-	-			· · ·
(a) Hubs C634D-A2, Blades 109652-12 (including blade heaters) (b) Hubs C634D-A2, Blades 109652-12 (including blade heaters) (c) Diameter: 150°, min. allowable for repairs (c) 14° 8-38°. No further reduction permitted. (c) Pitch settings at 54 in. stat. low fwd. 23°, reverse -10° (c) Propeller feathering pitch setting must prevent engine windmilling (approximately 88.6°). (c) Placard required in full view of flight engineer: (c) Placard required in full view of flight engineer: (d) A Propeller Spinners - Curtiss type 152331 or 153121 (e) 4 Propeller Spinners - Curtiss type 152331 or 153121 (f) 158 lbs. (+509) (g) 4 A Hermators - Curtiss type 152331 or 153121 (g) 3 4 Alternators - Curtiss type 152933 (h) 1 Synchronizer Master Unit - Curtiss type 152923 (h) 1 Synchronizer Master Unit - Curtiss type 152923 (h) 1 Master Unit Filter - Curtiss type 116285 (h) 1 Master Unit Filter - Curtiss type 116285 (h) 1 Master Unit Filter - Curtiss type 116285 (h) 1 Master Unit Filter - Curtiss type 1148-9 (h) Parker types 8-3046-75 (Mod. 2) and 9-946-75 (Mod. 2) (h) Parker types 8-3046-75 (Mod. 2) and 9-946-75 (Mod. 2) (h) Parker types 8-3046-75 (Mod. 2) and 9-946-75 (Mod. 2) (h) Parker types 9-946-75-M3 and 1.319-54637M (l) Unusable fuel and system oil (See NOTE 1 for definition). Airplane Prop. Item Center Section Center Section Model Installed Installed Installed Installed Installed (a) 1049-54 (a) 1049-54 (b) 1(a) No n'a 876 lbs. (+633) (c) 1049B-55, 1(b) or (d) Yes Yes 940 lbs. (+642) (d) 1049C-55, 1(c) Yes Yes 991 los. (+638) (e) 1049D-55, 1(b) or (d) Yes No 993 lbs. (+637) (e) 1049B-55, 1(c) No No No 993 lbs. (+627) (g) or 1(b) or (d) Yes No 9991 lbs. (+638) (h) 1049F-55 1(c) Yes No 9991 lbs. (+638) (i) 1049B-55, 1(c) Yes Yes 1073 lbs. (+627) (i) 074 lbs. (+627) (i) 074 lbs. (+627) (i) 074 lbs. (+627) (ii) 074 lbs. (+627) (ii) 074 lbs. (+627) (iii)	(f)					.000	40 108. (+193)
(b) Hubs C634D-A4, Blades 109652-12 (including slingers & shoes) Diameter: 15'0'', min. allowable for repairs 14' 8-3'8''. No further reduction permitted. Pitch settings at 54 in. sta.: low fwd. 23°, reverse -10° Propeller feathering pitch setting must prevent engine windmilling (approximately 88.6°). Placard required in full view of flight engineer: "Do not operate propellers in flight below 1400 engine rpm." Max. takeoff wt. autofeathering incoperative - 130,700 lbs. (2) 4 Propeller Spinners - Curtiss type 152331 or 153121 158 lbs. (+509) (3) 4 Alternators - Curtiss type 124512 16 lbs. (+545) (4) 1 Synchronizer Muster Unit - Curtiss type 152923 40 lbs. (+525) (5) 2 Voltage boosters - Curtiss type 116285 40 lbs. (+525) (6) 1 Master Unit Filter - Curtiss type 11248-9 6 lbs. (+171) Engines and Engine Accessories - Fuel and Oil System 100. Fuel dump valves (See NOTE 3 regarding use of dump valves) (a) Parker types 8-3046-75 Mod. 2) and 9-946-75 (Mod. 2) (b) Parker types 8-3046-75 Mod. 2) and 9-946-75 (Mod. 2) (c) Parker types 9-946-75-M3 and 1.319-54637M 101. Unusable fuel and system oil (See NOTE 1 for definition). Airplane Prop. Item Center Section Center Section Model Installed Fuel Cells Aux. (Oil Tank Installed Installed Installed Installed (1049-54) 1(a) No n/a 945 lbs. (+633) (b) Lique 1049-55, 1(b) or (d) Yes Yes 940 lbs. (+642) (d) 1049C-55, 1(b) or (d) Yes Yes 940 lbs. (+642) (g) or 1(b) or (d) Yes No No 993 lbs. (+637) (g) or 1(b) or (d) Yes No No 993 lbs. (+627) (g) or 1(b) or (d) Yes No No 993 lbs. (+627) (i) 1049F-55, 1(c) Yes No No 103 lbs. (+627) (i) 1049F-55, 1(c) Yes Yes 995 lbs. (+637) 102. Starters (a) Jack and Heintz Type JH6 ER - Model 1049-54 installation 113 lbs. (+586) (b) Eclipse Type 36E00-4 - Model 1049-54 installation 113 lbs. (+585) (c) Jack and Heintz Type JH6 ER - Model 1049-54 installation 113 lbs. (+585) (d) Eclipse Type 36E00-4 - Model 1049-8 and 1049-C 113 lbs. (+596) (d) Eclipse Type 36E00-4 - Model 1049-B and 1049-C 113 lbs. (+596) (d) Eclipse	(1)	(1)	_			lada hastars)	2088 lbs (+500)
Diameter: ISO", min. allowable for repairs					_		
14"8-3/8". No further reduction permitted. Pitch settings at 54 in. sta.: low fwd. 23", reverse -10"					_	ingers & snoes)	2734 108. (+307)
Pitch settings at 54 in, sta.: low fwd, 23°, reverse -10° Propeller feathering pitch setting must prevent engine windmilling (approximately 88,6°). Placard required in full view of flight engineer: "Do not operate propellers in flight below 1400 engine rpm." Max. takeoff wt. autofeathering inoperative - 130,700 lbs. (2) 4 Propeller Spinners - Curtiss type 152331 or 153121 158 lbs. (+509) (3) 4 Alternators - Curtiss type 124512 16 lbs. (+545) (4) 1 Synchronizer Master Unit - Curtiss type 152923 40 lbs. (+195) (5) 2 Voltage boosters - Curtiss type 116285 40 lbs. (+252) (6) 1 Master Unit Filter - Curtiss type 11248-9 6 lbs. (+252) (6) 1 Master Unit Filter - Curtiss type 11248-9 6 lbs. (+171) Engines and Engine Accessories - Fuel and Oil System 100. Fuel dump valves (See NOTE 3 regarding use of dump valves) (a) Parker types 8-3046-75 M3 and 9-946-75 (Mod. 2) (b) Parker types 8-3046-75 M3 and 9-946-75 M3 (c) Parker types 8-3046-75 M3 and 9-946-75 M3 (d) Parker types 8-3046-75 M3 and 9-946-75 M3 (e) Parker types 8-3046-75 M3 and 9-946-75 M3 (f) Puel cells Aux. Oil Tank Installed I							
Propeller feathering pitch setting must prevent engine windmilling (approximately 88.6°). Placard required in full view of flight engineer: "Do not operate propellers in flight below 1400 engine rpm." Max. takeoff wt. autofeathering inoperative - 130,700 lbs.							
Windmilling (approximately 88.6°) Placard required in full view of flight engineer:							
Placard required in full view of flight engineer: "Do not operate propellers in flight below 1400 engine rpm." Max. takeoff wt. autofeathering inoperative - 130,700 lbs. Carrier of two. autofeathering in the two. autofeathering in the two. autofeathering Carrier of two. autofeathering C							
"Do not operate propellers in flight below 1400 engine rpm." Max. takeoff wt. autofeathering inoperative - 130,700 lbs. (2) 4 Propeller Spinners - Curtiss type 152331 or 153121							
Max. takeoff wt. autofeathering inoperative - 130,700 lbs.						rpm."	
(2) 4 Propeller Spinners - Curtiss type 152331 or 153121 (3) 4 Alternators - Curtiss type 124512 (4) 1 Synchronizer Master Unit - Curtiss type 152923 (4) Usynchronizer Master Unit - Curtiss type 152923 (5) 2 Voltage boosters - Curtiss type 116285 (6) 1 Master Unit Filter - Curtiss type 116285 (6) 1 Master Unit Filter - Curtiss type 112148-9 (6) 1 Master Unit Filter - Curtiss type 112148-9 (7) Engines and Engine Accessories - Fuel and Oil System (8) Parker types 8-3046-75 (Mod. 2) and 9-946-75 (Mod. 2) (9) Parker types 8-3046-75 (Mod. 2) and 9-946-75 (Mod. 2) (9) Parker types 8-3046-75 M3 and 9-946-75 M3 (10) Fuel dump valves (See NOTE 3 regarding use of dump valves) (11) Unusable fuel and system oil (See NOTE 1 for definition). Airplane Prop. Item Center Section Center Section Model Installed Fuel Cells Aux. Oil Tank Installed Installed Installed Installed (10) Mo n/a 876 lbs. (+633) (10) I (10) Yes n/a 945 lbs. (+633) (10) I (10) Yes Yes n/a 945 lbs. (+633) (10) I (10) Yes Yes 107 lbs. (+631) (10) I (10) Yes Yes 107 lbs. (+631) (10) I (10) Yes Yes 107 lbs. (+631) (11) I (10) I (10) Yes No 993 lbs. (+638) (11) I (10) I (10) Yes No 993 lbs. (+638) (11) I (10) I (10) Yes No 993 lbs. (+638) (11) I (10) I (10) Yes Yes No 992 lbs. (+638) (11) I (10) I (10) Yes Yes Yes 1113 lbs. (+630) (11) I (10) I (10) Yes Yes Yes 1113 lbs. (+630) (12) Starters (13) I (10) I (10) Yes Yes Yes 1113 lbs. (+630) (14) I (16) No No No 895 lbs. (+637) (15) I (16) I (16) No No No 895 lbs. (+637) (16) I (16) I (16) No No No 895 lbs. (+637) (17) I (16) I (16) No No No 895 lbs. (+637) (18) I (16) I (16							
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(4) 1 Synchronizer Master Unit - Curtiss type 152923							
(5) 2 Voltage boosters - Curtiss type 116285 (6) 1 Master Unit Filter - Curtiss type 112148-9 Engines and Engine Accessories - Fuel and Oil System 100. Fuel dump valves (See NOTE 3 regarding use of dump valves) (a) Parker types 8-3046-75 (Mod. 2) and 9-946-75 (Mod. 2) (b) Parker types 8-3046-75 M3 and 9-946-75 M3 (c) Parker types 9-946-75-M3 and 1.319-54637M 101. Unusable fuel and system oil (See NOTE 1 for definition). Airplane Prop. Item Center Section Center Section Model Installed Fuel Cells Aux. Oil Tank Installed Installed Installed Installed Installed (a) 1049-54 1(a) No n/a 876 lbs. (+633) (b) 1(a) Yes n/a 945 lbs. (+633) (c) 1049B-55, 1(b) or (d) Yes Yes 940 lbs. (+642) (d) 1049C-55, 1(c) Yes Yes 1073 lbs. (+631) (e) 1049B-55, 1(b) or (d) No No 860 lbs. (+638) (f) 1049E-55, 1(c) No No 993 lbs. (+627) (g) or 1(b) or (d) Yes No 929 lbs. (+638) (h) 1049F-55 1(c) Yes No 1062 lbs. (+637) (i) 1049G-82, 1(e) Yes Yes 98 (ii) 1049G-82, 1(e) Yes Yes 995 lbs. (+638) (j) or 1(e) No No No 1033 lbs. (+626) (k) 1049H-82 1(f) Yes Yes Yes 975 lbs. (+637) 102. Starters (a) Jack and Heintz Type JH6 ER - Model 1049-54 installation 105 lbs. (+585) (b) Eclipse Type 36E00-4 - Model 1049-54 installation 113 lbs. (+585) (d) Eclipse Type 36E00-4 - Models 1049-B and 1049-C 113 lbs. (+596) (f) Jack and Heintz Type JH6 ER - Models 1049-B and 1049-C 113 lbs. (+596) (f) Jack and Heintz Type JH6 ER - Models 1049-B and 1049-C 113 lbs. (+596) (f) Jack and Heintz Type JH6 ER - Models 1049-B and 1049-C 113 lbs. (+596) (f) Jack and Heintz Type JH6 ER - Models 1049-B and 1049-C 113 lbs. (+596) (f) Jack and Heintz Type JH6 ER - Models 1049-B and 1049-C 113 lbs. (+596) (f) Jack and Heintz Type JH6 ER - Models 1049-B and 1049-C 113 lbs. (+596) (f) Jack and Heintz Type JH6 ER - Models 1049-B and 1049-C 113 lbs. (+596) (f) Jack and Heintz Type JH6 ER - Models 1049-B and 1049-C 113 lbs. (+596)							· · ·
Engines and Engine Accessories - Fuel and Oil System			-				40 lbs. (+252)
100. Fuel dump valves (See NOTE 3 regarding use of dump valves) (a) Parker types 8-3046-75 (Mod. 2) and 9-946-75 M3 (c) Parker types 8-3046-75 M3 and 9-946-75 M3 (c) Parker types 9-946-75-M3 and 1.319-54637M 101. Unusable fuel and system oil (See NOTE 1 for definition). Airplane Prop. Item Center Section Center Section Model Installed Fuel Cells Aux. Oil Tank Installed Installed (a) 1049-54 1(a) No n/a 876 lbs. (+633) (b) 1(a) Yes n/a 945 lbs. (+633) (c) 1049B-55, 1(b) or (d) Yes Yes 940 lbs. (+642) (d) 1049C-55, 1(c) Yes Yes 1073 lbs. (+633) (e) 1049B-55, 1(b) or (d) No No 860 lbs. (+638) (f) 1049E-55, 1(c) No No 993 lbs. (+627) (g) or 1(b) or (d) Yes No 929 lbs. (+638) (h) 1049F-55 1(c) Yes No 1062 lbs. (+627) (i) 1049G-82, 1(e) Yes Yes Yes 1113 lbs. (+630) (j) or 1(e) No No No 1033 lbs. (+626) (k) 1049H-82 1(f) Yes Yes Yes 975 lbs. (+641) (l) 1(f) No No No 895 lbs. (+637) 102. Starters (a) Jack and Heintz Type JH6 ER - Model 1049-54 installation 105 lbs. (+585) (b) Eclipse Type 36E00-4 - Model 1049-54 installation 113 lbs. (+585) (c) Jack and Heintz Type JH6 ER - Models 1049B and 1049-C 113 lbs. (+596) (d) Eclipse Type 36E00-4 - Models 1049B and 1049-C 113 lbs. (+596) (f) Jack and Heintz Type JH6 ER - Models 1049B and 1049-C 1113 lbs. (+596) (f) Jack and Heintz Type JH6 ER - Models 1049B and 1049-C 1113 lbs. (+596) (f) Jack and Heintz Type JH6CE		(6)	1 Master Unit	Filter - Curtiss typ	e 112148-9		6 lbs. (+171)
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(d) 1049C-55, 1(c) Yes Yes 1073 lbs. (+631) (e) 1049D-55, 1(b) or (d) No No No 860 lbs. (+638) (f) 1049E-55, 1(c) No No No 993 lbs. (+627) (g) or 1(b) or (d) Yes No 929 lbs. (+638) (h) 1049F-55 1(c) Yes No 1062 lbs. (+627) (i) 1049G-82, 1(e) Yes Yes 1113 lbs. (+630) (j) or 1(e) No No No 1033 lbs. (+626) (k) 1049H-82 1(f) Yes Yes Yes 975 lbs. (+641) (l) 1(f) No No No 895 lbs. (+637) 102. Starters (a) Jack and Heintz Type JH6 ER - Model 1049-54 installation 105 lbs. (+585) (b) Eclipse Type 36E00-4 - Model 1049-54 installation 113 lbs. (+585) (c) Jack and Heintz Type JH6 ER - Models 1049B and 1049C (d) Eclipse Type 36E00-4 - Models 1049-B and 1049-C (e) AN 4116R6 - Model 1049B (f) Jack and Heintz Type JH6CE		(b)		1(a)	Yes	n/a	
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(e) AN 4116R6 - Model 1049B 113 lbs. (+596) (f) Jack and Heintz Type JH6CE 107 lbs. (+596)							· · · ·
(f) Jack and Heintz Type JH6CE 107 lbs. (+596)		` '					

102	4010 1	
103.	4 Oil Coolers	105 11- (+506)
	(a) AiResearch Type 86909-23 - Model 1049-54(b) AiResearch Type 87162-24 - Models 1049B and 1049C	185 lbs. (+586) 210 lbs. (+585)
	(c) AiResearch Type 87102-24 - Models 1049B and 1049C (c) AiResearch Type 87242-24 - Models 1049B and 1049C	210 lbs. (+585) 210 lbs. (+585)
104.	4 Engine-driven fuel pumps	210 lbs. (+383)
104.	(a) Thompson Type TF-2100 - Model 1049-54	17 lbs. (+571)
	(b) Pesco Type 2P-771-CE-1 - Models 1049B and 1049C	17 lbs. (+583)
	(c) AN4102-1 - Model 1049B	17 lbs. (+583)
	(d) Thompson Type TF2100	17 lbs. (+583)
105.	Auxiliary fuel pumps	` ,
	(a) 6 for tanks 1, 2, 3, 4, 2a, 3a	
	(1) Thompson TF-52300-1	48 lbs. (+712)
	(b) 1 for tank No. 5 (center section) (See NOTE 7)	
	(1) Thompson Type TF-42300-1	8 lbs. (+692)
106.	4 De-icer or vacuum pumps	
	(a) Pesco Type 3P-485 - Model 1049-54 installation	40 lbs. (+586)
107	(b) Pesco Type 3P-485 - Models 1049B and 1049C	40 lbs. (+592)
107.	4 Hydraulic pumps (a) Violent Time A 20511 Model 1040 54 installation	102 lbs (+592)
	(a) Vickers Type AA20511 - Model 1049-54 installation(b) Vickers Type AA20510 - Models 1049B and 1049C	102 lbs. (+583)
	(c) Vickers Type AA20513	112 lbs. (+595) 112 lbs. (+595)
108.	Auxiliary Oil pumps (See NOTE 7)	112 108. (+393)
100.	(a) Pesco Type 012634-010 - hydraulic	12 lbs. (+642)
	(b) Pesco Type 112127-010 - electric	40 lbs. (+650)
109.	Tip tank installation, consisting of:	
	Two tip tank assemblies per LAC Drawing 316076 including	521 lbs. (+704)
	Undrainable Fuel (29 lbs.) and Unusable Fuel (34 lbs.)	
	NOTE: When operating without tip tanks, it is necessary to	
	correct for the addition of wing tips as follows:	
	Two wing tips - removable (including deicer boots)	57 lbs. (+711)
110.	Omitted.	
111.	Optional Engines	
	(a) 4 Wright Compound 988TC18EA3 or 988TC18EA6 with 16:7 reduction	EA2 14 500 H (554)
	gear ratio and 6.52:1 turbo drive ratio. (When these	EA3: 14,580 lbs. (+554)
	optional engines are installed, the dash number on the airplane model designation becomes -03 or -06	EA6: 14,700 lbs. (+554)
	respectively)	
	Engine limits: (With fuel grade 115/145) (See NOTE 17 for engine	
	limits when using low grade fuel)	
	Low impeller ratio 6.46:1	
	Maximum continuous:	
	(Sea level) 51.0 in.Hg., 2650 rpm (2860 hp)	
	(Straight line manifold pressure variation with	
	altitude to 4800 ft.)	
	49.5 in.Hg., 2650 rpm (2920 hp)	
	Takeoff (2 minutes at sea level; 5 minutes at 7500 ft.;	
	straight line variation of takeoff power time with altitude	
	to 7500 ft.)	
	(Sea level) 58.5 in.Hg., 2900 rpm (3400 hp) (Straight line manifold pressure variation with altitude	
	to 4000 ft.)	
	56.0 in.Hg., 2900 rpm (3400 hp)	
	High impeller ratio 8.67:1	
	Maximum continuous:	
	(10,000 ft.) 48.5 in.Hg., 2600 rpm (2410 hp)	
	(Straight line manifold pressure variation with altitude	
	to 16,400 ft.)	
	47.0 in.Hg., 2600 rpm (2450 hp)	
	NOTE: Installation to be in accordance with Lockheed Service Bulletin No.	
	When Propeller Item 1(c) is used in conjunction with the above engin	
	the power of ratings of the Wright 972TC18DA1 engine must be use	u.

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(b) 4 Wright Compound 972TC18DA3 with 16:7 reduction gear ratio
                                                                                              14,200 lbs. (+554)
           and 6.52:1 turbo drive ratio
           Engine limits:
           Low impeller ratio 6.46:1
            Maximum continuous:
            (Sea level) 49.0 in.Hg., 2600 rpm (2700 hp)
              (Straight line manifold pressure variation with altitude
              to 5500 ft.)
                        53.5 in.Hg., 2900 rpm (3250 hp)
           High impeller ratio 8.67:1
            Maximum continuous:
             (10,050 ft.) 48.5 in.Hg., 2600 rpm (2400 hp)
              (Straight line manifold pressure variation with
              altitude to 16,400 ft.)
                        47.0 in.Hg., 2600 rpm (2450 hp)
           NOTE: Installation to be in accordance with Lockheed Service Bulletin No. 1049/SB-2514.
Landing Gear
200. 2 main gear shock struts
      (a) Cleveland Type 9040 - Model 1049-54
                                                                                                 986 lbs. (+713)
      (b) Cleveland Type 9106 - Models 1049B and 1049C
                                                                                                1040 lbs. (+713)
      (c) Cleveland Type 9106A
                                                                                                1048 lbs. (+713)
      (d) Cleveland Type 9291B
                                                                                                1048 lbs. (+713)
201. Nose gear shock strut
      (a) Cleveland Type 9054
                                                                                                 480 lbs. (+195)
202. 4 main wheel-brake assemblies
      (a) 17.00-20, Type III
           (1) Goodyear Model LF20DHBM Wheel Assembly No. 9540552
                                                                                                 512 lbs. (+708)
              * or Wheel Assembly No. 9540832
                                                                                                 546 lbs. (+708)
                Brake Assembly No. 9540528 (inboard)
                                                                                                 408 lbs. (+708)
                Brake Assembly No. 9540553 (outboard)
                                                                                                 240 lbs. (+708)
              * or Brake Assembly No. 9540781 (outboard)
                                                                                                 240 lbs. (+708)
           (2) Goodrich Model 1754M Wheel Assembly No. H-3-735M
                                                                                                 812 lbs. (+708)
                Brake Assembly No. G-2-597 (2 per wheel)
                                                                                                 240 lbs. (+708)
           (3) Goodvear
                Wheel Assembly No. 9540753
                                                                                                 554 lbs. (+708)
                Brake Assembly No. 9540754 (outboard)
                                                                                                 249 lbs. (+708)
                Brake Assembly No. 9540755 (inboard)
                                                                                                 457 lbs. (+708)
           (4) Goodrich
                Wheel Assembly No. H-3-772
                                                                                                 884 lbs. (+708)
                Brake Assembly No. G-2-639 (2 per wheel)
                                                                                                 264 lbs. (+708)
203. 4 main wheel tires and tubes Type III
      (a) 17.00-20, 20-ply rating nylon
           (Use actual weight) Maximum, incl. air
                                                                                                 884 lbs. (+708)
      (b) 17.00-20, 22-ply rating nylon
           (Use actual weight) Maximum, incl. air
                                                                                                 884 lbs. (+708)
204. 2 Nose wheel assemblies
      (a) 4x9.9, Type VII
           (1) Goodrich Assembly No. H-3-592M-1 (no fairing)
                                                                                                  68 lbs. (+184)
                                                                                                  74 lbs. (+184)
           (2) Goodrich Assembly No. H-3-592M (with fairing)
           (3) Goodrich Assembly No. H-3-753 (no fairing)
                                                                                                  73 lbs. (+184)
      (b) 33", S.C., Type I
           (1) Bendix Assembly No. 57608M
                                                                                                  62 lbs. (+184)
205. 2 Nose wheel 10-ply rating nylon tires
       (a) 34x9.9, Type VII B (with regular tubes) Use actual weight)
                                                                                                         (+184)
      (b) 33", S.C., Type I (with regular tubes) Use actual weight
                                                                                                         (+184)
206. 2 Main gear drag strut dampers
      (a) L.A.C. Dwg. No. 307503
                                                                                                 176 lbs. (+701)
      (b) L.A.C. Dwg. No. 310618
                                                                                                 180 lbs. (+701)
      (c) L.A.C. Dwg. No. 469080
                                                                                                 185 lbs. (+701)
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Electri	ical Equipment	
300.	Generators	
	(a) 4 D.C. Eclipse Type 30E02 - Model 1049-54 installation	254 lbs. (+584)
	(b) 4 D.C. Eclipse Type 30E02 - Model 1049B and 1049C	254 lbs. (+597)
	(c) 6 D.C. Eclipse Type 30E02-(9)	381 lbs. (+594)
301.	Batteries	
	(a) 2 24 Volt, 36 A.H.	152 lbs. (+283)
303.	Alternators	
	(a) 2 Pioneer Type 1631-7	19 lbs. (+588)
	(b) 2 Pioneer Type 1632-1	12 lbs. (+588)
	(c) 2 Eclipse Type 28E04	21 lbs. (+601)
	(d) 2 Eclipse Type 28E04	21 lbs. (+582)
	(e) Inverter (Bendix Model K-2496)	13 lbs. (+130)

Interior Equipment

400. FAA Approved Airplane Flight Manual. (A manual containing information required for the Airplane Flight Manual may be carried in lieu thereof in aircraft operated under the provisions of Parts 40, 41 and 42 of the Civil Air Regulations.) The following table identifies the airplane flight manuals and revisions thereto currently approved for each airplane:

		Lockheed	Date of	
	Serial	Report	Latest	For Aircraft
Model	Number	Number	Revision	with Item:
1049-54	4001 thru 4024	7787	4-14-58	
1049B-55	4101 thru 4111	(All of these seria	l numbered aircr	aft delivered
	4122 thru 4130	as Model R7V-1	or C121C. Appr	oved Manuals must
	4133 thru 4150	be provided at tim	e of conversion	to Model 1049B-55
	4152 thru 4160	or 1049F-55 per N	NOTE 5(d).)	
	4167 thru 4169	•		
1049F-55	4170 thru 4202			
1049C-55	4503, 4504, 4506	9153	6-27-58	1(b) or 1(d)
1049E-55	4507, 4509 thru	9154	5-29-58	1(c)
1049E/01-55	4552, 4554 thru			
1049E/02-55	4557, 4561 thru			
	4565, 4573, 4574			
	4578 thru 4581,			
	4606, 4607, 4613			
	thru 4615			
1049G-82	4572, 4575 thru	10051 (with	10-1-58	1(f)
	4577	Log of Pages i)		
	4553, 4558, 4559, 4560,	10051 (with		
	4629, 4630, 4631, 4635	Log of Pages Ai)		
	4641, 4643	10051 (with		
		Log of Pages Bi)		
	4682, 4683	10051 (with		
		Log of Pages Ci)		
	4679, 4680	10051 (with		
		Log of Pages Di)		
1049C-55	4501, 4502, 4505,	10051 (with		
Modified to	4508	Log of Pages Ei)		
1049G/02-82				
1049G-82	4582 thru 4601,	10052 (with	10-1-58	1(e)
	4648 thru 4652,	Log of Pages i)		
	4654, 4656, 4658		_	
	4602 thru 4605,	10052 (with		
	4637, 4640, 4642,	Log of Pages Ai)		
	4647		_	
	4610 thru 4612	10052 (with		
		Log of Pages Bi)		
	4620 thru 4627,	10052 (with		
	4668 thru 4671,	Log of Pages Ci)		
	4634, 4639		<u> </u>	

		Lockheed	Date of	
	Serial	Report	Latest	For Aircraft
Model	Number	Number	Revision	with Item:
	4616 thru 4618	10052 (with		
		Log of Page Di)		
	4628, 4646, 4666,	10052 (with		
	4667, 4686, 4687	Log of Pages Ei)		
	4619	10052 (with		
		Log of Pages Fi)		
	4636, 4674	10052 (with		
	1211 1212	Log of Pages Gi)		
	4644, 4645	10052 (with		
	1652 1655 1655	Log of Pages Hi)		
	4653, 4655, 4657,	10052 (with		
	4659 thru 4665	Log of Pages Ji)		
	4673, 4676	10052 (with		
	ACTO ACTO ACTO	Log of Pages Ki)		
	4672, 4677, 4678	10052 (with		
	4601 4604 4605	Log of Pages Li)		
	4681, 4684, 4685	10052 (with		
	4622 4622 4675	Log of Pages Mi)		
	4632, 4633, 4675	10052 (with		
1040D/01 00	4165 4166	Log of Pages Ni)	1 12 50	1/1)
1049D/01-82	4165, 4166	11020 (with	1-12-59	1(b)
104011	4901 4902	Log of Page i)	10 1 50	1/f)
1049H	4801, 4803	11020 (with	10-1-58	1(f)
	1902 1905 them	Log of Pages Ai)	1 12 50	1/b)
	4802, 4805 thru	11020 (with	1-12-59	1(b)
	4808 4828, 4829, 4831,	Log of Pages Bi) 11020 (with	10-1-58	1(c) or 1(e)
	4832	Log of Pages Fi)	10-1-36	1(c) or 1(e)
10/0H/01_03	4839, 4842, 4844,	11020 (with	10-23-58	
or	4845	Log of Pages Ci)	10-23-36	
	4804, 4809 thru 4812,	11020 (with		
Modified to	4814, 4815, 4816,	Log of Pages Di)		
	4819, 4822, 4827,	Log of Tages DI)		
1049H/05-03				
	4813, 4817, 4818, 4820,	11020 (with	=	
104711/00/03	4821, 4823 thru 4826	Log of Pages Ei)		
	4830	11020 (with		
	1030	Log of Pages Gi)		
	4833, 4834, 4837,	11020 (with		
	4838	Log of Pages Hi)		
	4835, 4836	11020 (with		<u>1(f)</u>
		Log of Pages Ji)		
	4840, 4841, 4843	11020 (with		1(c) or 1(e)
	, - ,	Log of Pages Li)		
	4846, 4847	11020 (with		
	,	Log of Pages Mi)		
1049D/01-82	4163, 4164	11020 (with	1-12-59	1(b)
Modified to		Log of Pages Ki)		• •
1049H/03-82				
1049H/02-03	4850, 4851	11020 (with	1-12-59	
Modified to		Log of Pages Ni)		
1049H/07-03				
1049H/07-03				

401. Surface Control Equipment (a) Automatic pilot (1) Pioneer PB-10 (3 servos 15601-1A, 1 servo 15620-2A) 141 lbs. (+700) NOTE: The following information may be used with Model 1049 only. When using automatic pilot in cruise configurations, minimum terrain clearance is 500 ft. When using automatic pilot during approach, minimum altitude is 200 ft., pilot's seat belt fastened and hand on control wheel. (Minimum altitude for each case does not overrule any higher minimum operational altitude.) (Maximum speed for autopilot is 338 MPH) Servo stall forces measured at the pilot's controls: Elevator 30 lbs. +0 lbs. -10 lbs. Aileron 30 lbs. +0 lbs. -10 lbs. Rudder 95 lbs. +0 lbs. -30 lbs. (These forces have not been demonstrated for Flight Path Control) (2) Pioneer PB-10 (3 servos 15601-1A or 15613-1, 1 servo 15620-2A.) 141 lbs. (+700) Maximum speed for operation with autopilot is 338 MPH (294 knots.) (See FAA Approved Airplane Flight Manual for altitude loss during autopilot malfunction.) Torques Measured at Servo Stall Forces Measured Servos with Control Component at Pilot's Controls Cable Disconnected Elevator 40 lbs. +0 lbs., -14 lbs. 310 in. lbs. <u>+</u> 10% Aileron 19 lbs. +0 lbs., - 6 lbs. 225 in. lbs. ± 10% 80 lbs. +0 lbs., -30 lbs. 400 in. lbs. + 10% Rudder (These forces are satisfactory for Flight Path Control) *(3) Lear L-5 in accordance with Lear Dwg. 700062 (3 main servos 183 lbs. (+687) 118AP, elevator and rudder trim service 2216A). Maximum speed for operation with autopilot is 325 mph. (See FAA approved Lear Airplane Flight Manual Supplement for altitude loss during autopilot malfunction). Servo torques measured in in. lbs. at the servos: Rudder 280 max. 225 min. Aileron 175 max. 140 min. Elevator 182 max. 154 min. (These torques are satisfactory for automatic approach) (b) Elevator boost unit - P/N 308575 or 322645 108 lbs. (+1420) (c) Rudder boost unit - P/N 308576 or 322646 105 lbs. (+1417) (d) 2 Aileron boost units P/N 289283-602 71 lbs. (+734) 420. 2 cabin superchargers (a) AiResearch Type 56930 (with snood) 187 lbs. (+634) (b) Airesearch Type 57910193 lbs. (+634) (c) AiResearch Type 57910B 202 lbs. (+642) (d) Airesearch Type 57970 421. 2 Supercharger drive shaft and disconnect assemblies (a) LAC 31145 shaft assembly and guard installation per LAC 109 lbs. (+613) Dwg. No. 308479 (b) LAC 311442 shaft assembly and guard installation per LAC Dwg. No. 311441 100 lbs. (+617) (c) LAC 315908 shaft assembly and guard installation per LAC Dwg. No. 315904 82 lbs. (+620) (d) LAC 329552 shaft assembly and guard installation per LAC Dwg. No. 315904 82 lbs. (+620) (e) L.A.C. 469864 shaft assembly and guard installation per LAC 82 lbs. (+620) Dwg. No. 470286. (f) L.A.C. 470093 shaft assembly and guard installation per LAC Dwg. No. 470286. 82 lbs. (+620)

		h 205400 shaft and guard installation per LAC Dwg. No. RR1393	80 lbs. (+620)
422.	2 Cabin heaters(a) Surface co	mbustion Type A77A63	42 lbs. (+800)
423.	2 Recirculating		
	•	Air Type 8862B-8B	74 lbs. (+800)
	(b) Joy Type 2		70 lbs. (+800)
424.	Cabin refrigerat		45.11 (54.4)
		units, AiResearch Type 56910-1 and 2	47 lbs. (+744)
		hange cooling blowers, AiResearch Type 30980	45 lbs. (+759)
		heat exchangers, AiResearch Type 19658 ry heat exchangers, AiResearch Type 81118	70 lbs. (+740) 82 lbs. (+747)
		parators, AiResearch Type 81148-3 and -4	39 lbs. (+730)
440.		ler or emergency chute	39 IUS. (±730)
440.		Master Equipment List for approved locations,	
		and arms for various configurations.	
441.	Fixed Oxygen s		
		19-54 installed in accordance with LAC Dwg. No. 309287, including:	
		Kidde Type 870324 cylinder	27 lbs. (+26)
		sks (full face or oval-nasal with goggles)	Negligible
		19-54 installed in accordance with LAC	8 8
		311142, including:	
		de Type 870326 cylinders LAC Dwg. No. 654112	177 lbs. (+254)
	(2) 3 Mas	sks, TWA 1-45981-1	Negligible
	(c) Model 104	9C-55-81 installed in accordance with LAC Dwg. No.	
	313262, in	cluding:	
		de Type 870275 cylinders LAC Dwg. No. 654092	68 lbs. (+218)
		9C-55-81 installed in accordance with LAC Dwg.	
		1, including:	
		Kidde Type 870326 cylinder LAC Dwg. No. 654112	63 lbs. (+218)
		19B-55-75 installed in accordance with LAC Dwg.	
		8, including:	40.11 (40.4)
		de Type 870557 cylinders LAC Dwg. No. 654114	69 lbs. (+224)
		19C-55-94 installed in accordance with LAC Dwg. No.	
	321501, in		24.11 (.221)
		Kidde Type 870 cylinder (LAC Dwg. NO. 654092)	34 lbs. (+231)
	-	19D-55-85 installed in accordance with LAC Dwg. No.	
	322662, in	de Type 870275	
		19G-82-101 installed in accordance with LAC Dwg. No.	
	465081 inc	· · · · · · · · · · · · · · · · · · ·	
		de Type 870326 cylinders LAC Dwg. No. 654112	125 lbs. (+215)
		19G-82-102 installed in accordance with LAC Dwg.	123 103. (1213)
		1 including:	
		de Type 870275 cylinders LAC Dwg. No. 654092	68 lbs. (+218)
		19F-55-96 installed in accordance with LAC Dwg.	,
		9, including:	
		Kidde Type 870275 cylinders (LAC Dwg. No. 654114)	69 lbs. (+224)
		19H-82-133 installed in accordance with LAC Dwg.	
	No. 49693	8, including:	
	(1) Two l	Kidde Type 870275 cylinders LAC Dwg. No. 654092	64 lbs. (+219)
	ng Equipment		
500.	Wing de-icer bo		150 11 (242)
		Type 21 Pneumatic	150 lbs. (+642)
501		Type 22 Pneumatic	165 lbs. (+640)
501.	Stabilizer de-ice		60 IL - (· 1045)
		ype 21 Pneumatic	68 lbs. (+1345)
502.	Fin de-icer boo	Гуре 22 Pneumatic	76 lbs. (+1345)
302.		ts Гуре 21 Pneumatic	39 lbs. (+1365)
	(a) Goodiicii	Type 21 Freumane	39 108. (+1303)

508. Windshield wipers

(a)	1 Dual Marquette (electric) installed in accordance with	17 lbs. (+189)
	LAC Dwg. No. 309368	
(b)	1 Dual Marquette installed in accordance with LAC Drawing No. 325296	18 lbs. (+189)
(c)	1 Dual Alco installed in accordance with LAC Dwg. No. 326072	13 lbs. (+183)
(d)	2 wipers Alco installed in accordance with LAC Dwg. No. 327329	11 lbs. (+163)

- NOTE 1. (a) Current weight and balance report including list of equipment included in certificated weight empty, and loading instructions, 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). See approved Master Equipment List (LAC Report 8097) for list of approved items of equipment in addition to those items listed in this specification.
 - (b) The airplane must be loaded so that the C.G. is within the specified limits at all times, with the effects of fuel use, gear retraction, and movement of crew and passengers from their assigned positions being considered (retraction of the main and nose gears causes the C.G. to move forward, a value of 186,000 in. lbs. is a satisfactory approximation of the change in moment for all approved wheel items). At takeoff, the airplane shall be loaded so that, due to fuel use, the C.G. cannot move forward of 18% MAC. A 34% aft C.G. limit (gear retracted) for cruising flight may be used when the effect of passenger and crew movements from their assigned positions has been taken into account.
 - (c) "Unusable Fuel and System Oil" and all hydraulic fluid must be included in the certificated weight empty. (See Item 101)

<u>Unusable fuel</u> is that quantity of fuel in the system and in the tanks which is unavailable to the engines under critical flight conditions as defined in CAR 4b.494. Thus <u>unusable</u> fuel, includes "system fuel" which is defined as the quantity required to fill the system and tanks to the tank outlet level when the airplane is in the ground level attitude. The fuel gages are calibrated with the unusable fuel level as the zero datum. The total amount of fuel (Unusable included in Item 101) is as follows:

		Center Section Fuel	Usable Fuel	Unusable Fuel
	Model	Cells Installed	(lbs.)	(lbs.)
	1049-54	Yes	39,300	491
		No	34,920	422
	1049B-55**			
or	1049C-55**	Yes	39,300*	457
or	1049D-55**	No	34,920*	388
or	1049E-55**			
or	1049F-55**			
or	1049G-82**			
or	1049H-82**			
10490	G-82, 10498-82			
	with tip tanks	Yes	46,608	520

^{*}The total usable fuel must be limited to 28,800 lbs. when the oil transfer system is not installed (See NOTE 7). ** No tip tanks (See ITEM 109).

System oil is that amount of oil required to fill the oil systems and tanks to the tank outlets to the engines. The propeller feathering oil is not considered usable oil, and, when applicable, is included in "System oil." The oil tank capacities shown in this specification include only the usable oil for which the tanks are placarded. Dipstick readings indicate the amount of usable oil.

			With Oil			
		With Aux.	Transfer	Prop. Item	Usable	System Oil
	Model	Oil Tanks	System	Installed	Oil (lbs.)	(lbs.)
or	1049-54	Yes		1(a)	1740	454
		No		1(a)	1650	454
	1049B-55		Yes	1(b) or (d)	1702	483
or	1049C-55		Yes	1(c)	1702	616
or	1049D-55		No	1(b) or (d)	1200	472
or	1049E-55		No	1(c)	1200	605
or	1049F-55					
	1049G-82		Yes	1(e)	1702	656
or	1049H-82		Yes	1(f)	1702	518
			No	1(e)	1200	645
			No	1(f)	1200	507

(d)	Fuel dumping. When fuel dump valves (Item	100) are installed per NOTE 3, the amount of usable fuel, over
	and above the unusable fuel listed in Item 101	, remaining after dumping is as follows:

		Gal	lons Remaining	in Tanks			
(A) Model		Tanks	Tanks	Tanks	Tanks		
	Tank 5	2 & 3	1 & 4	2a & 3a	1a & 4a		Remarks
1049-54	-	45 ea.	139 ea.	152 ea.	-		
1049B-55		45 ea.	145 ea.	149 ea.	-		No standpipes in Tanks
	See						2 & 3 - 4" connector
1049C-55		145 ea.	145 ea.	149 ea.	-	(D)	Standpipes installed in Tanks
	Foot-						2 & 3 - 4" connector
1049D-55		174 ea.	145 ea.	149 ea.	-	(D)	Standpipes installed in Tanks
	note						2 & 3 - 2-1/2" connector
1049E-55		71 ea.	145 ea.	149 ea.	-		No standpipes in Tanks
or	Below						2 & 3 - 2-1/2" connector
1049F-55							
1049G-82		45 ea.	(C) 175 ea.	(C) 175 ea.	-		No Standpipes in Tanks
							2 & 3 - 4" connector
1049H-82		145 ea.	(C) 175 ea.	(C) 175 ea.	-	(D)	Standpipes installed in Tanks
							2 & 3 - 4" connector
1049G-03							
or							
1049H-03							
1049G-82		45 ea.	(C) 175 ea.	(C) 175 ea.	15 ea.		No Standpipes in Tanks
							2 & 3 - 4" connector
1049H-82		145 ea.	(C) 175 ea.	(C) 175 ea.	15 ea.	(D)	Standpipes installed in Tanks
10105.00							2 & 3 - 4" connector
1049G-03							
or							
1049H-03							

The indicated combinations of undumpable fuel and the corresponding standpipe arrangement apply to any model within a given block.

(Same as amount prior to dumping (no dump valves in this tank).

Standpipe height increased to accommodate EA-3 engines.

Operational zero fuel weight must not exceed the design landing weight minus the total undumpable fuel weight (including fuel in tank No. 5 at take-off), but in any case must not exceed design zero fuel weight. (The above undumpable fuel quantities at 6 lbs. per gallon should be used in this determination).

(e) Fuel loading and usage.

- (1) Fuel must be distributed and used in a manner that will permit compliance with the lateral balance limitations in the FAA Approved Airplane Flight Manual.
- For minimum fuel at any takeoff weight, refer to fuel loading and usage chart in the pertinent Approved Operating Manual.
- (3) Fuel loaded in Tank No. 5 will affect the maximum zero fuel gross weight as follows:

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(4) By reason of structural limitations, the following fuel quantities shall not be exceeded during landing operations:

	Model	Tank 5	Tanks 2 & 3	Tanks 1 & 4	Tanks 2a & 3a	Tanks 1a & 4a
	1049-54	730 gal.	790 gal. ea.	1200 gal. ea.	515 gal. ea	
	1049-55					
or	1049C-55		No lim	itations.		
or	1049D-55		(Tanks 2a and	4a not installed)		
or	1049E-55					
or	1049F-55					
or	1049G-82					
or	1049H-82					
	1049G-82	730 gal.	790 gal. ea.	1555 gal. ea	565 gal. ea.	200 gal. ea.

NOTE 2. The following placards must be installed:

- (a) In full view of the pilots and flight engineer:
 - (1) "This airplane must be fueled and the fuel used in accordance with instructions contained in the FAA approved Airplane Flight Manual."
 - (2) "This airplane shall be operated in accordance with the Operating Limitations specified in the FAA Approved Airplane Flight Manual."
- (b) On the forward side of door at Station 303.5 for the -67 interior, or door at Station 339 for -81 interior: "This door must be locked open during all take-offs and landings."
- NOTE 3. Fuel dump valves (Item 100) must be installed for operation of the airplane at weights in excess of maximum landing weight. Refer to CAA Approved Airplane Flight Manual for limitations and cautionary procedures to be observed during the dumping of fuel.
- NOTE 4. The electric drive on the elevator trim tab mechanism on the control pedestal, formerly considered as an integral part of the airplane, may be retained or removed at the option of the operator.
- NOTE 5. Prior to civil certification of each military R7V-1 or C121-C aircraft of the Model 1049B-55 or 1049F-55 series, the following modifications will be required:
 - (a) The position and fuselage lights installation must be modified to conform to FAA requirements.
 - (b) On R7V-1 aircraft, fire detecting and extinguishing equipment must be installed in the lower baggage compartments in accordance with CAR 4b.383(c).
 - (c) All military special equipment must be removed.
 - (d) FAA approved operating manual (Airplane Flight Manual) (Item 400) must be provided.
 - (e) Airplanes bearing manufacturer's numbers 4102, 4103, 4104 and 4106 must be inspected for corrosion of the integrally stiffened machined plates of the inner wing lower surface. In order to accomplish this, the sealing of integral fuel tanks in this area must be removed. If detrimental corrosion is found, contact Lockheed Aircraft Corporation for corrective measures.
 - (f) Parachute flares must be installed.
 - (g) Airspeed placards limiting Vno and Vne in accordance with airspeed limits of Part III of this specification must be installed in full view of the pilots.
 - (h) Placards must be installed in the cabin which will insure that an aisle way will be maintained throughout the entire length of the cabin to:
 - (1) Provide access to an emergency exit over the wing for smoke evacuation purposes.
 - (2) Provide access to all cargo in the cabin area to facilitate fire fighting with a hand extinguisher.
 - Placards must be installed to warn ground and flight personnel that the airplane must not be flown with the cargo doors removed or unlatched.
 - Revise the engine nameplate to include the corresponding civil model designation (972TC18DA1) and Type Certificate No. (272).
 - (k) Compliance with Airworthiness Directive Note No. 55-23-2 or Lockheed Service Bulletin No. 1049/SB-2753 must be accomplished for Serial Nos. 4144 and up.
- NOTE 6. Lockheed Serial Nos. 4101 through 4139 of Model 1049B (Navy R7V-1) are eligible for certification at 130,000 pounds takeoff weight only. To be eligible for certification at 133,000 pounds takeoff weight, the following items must be accomplished:
 - (1) Fuel loading and usage procedure must be in accordance with that described in Lockheed Report No. 9154.
 - (2) Reinforce fuselage main frame and fuselage skin in accordance with Lockheed Rapid Revision Dwg. No. 173.

- NOTE 7. When auxiliary oil tank and oil transfer systems are not used on Model 1049B-55 and 1049C-55, total usable fuel must be limited to 4800 gallons (28,800 lbs.).
- NOTE 8. Model 1049-54 aircraft are eligible for certification at a landing weight of 101,500 lbs. and a maximum zero fuel weight of 95,500 lbs. when modified in accordance with Lockheed Service Bulletins No. 1049/SB2202, 1049/SB2223 and 1049/SB2224. These modifications include reinforcements of the fuselage and wings, revised orifice plates in the main landing gear oleos, and revised piston assemblies in the main landing gear drag link shock struts.
- NOTE 9. If cargo aircraft (Model 1049B-55 or 1049F-55) are converted for passenger operation or combination passenger-cargo operation, approved modifications must be incorporated to show compliance with CAR 4b.433, 4b.434 and SR389 effective October 27, 1952, or Amendment 4b-4, effective December 20, 1951.
- NOTE 10. In accordance with the agreement between the Department of Defense and the Civil Aeronautics Board, all air carrier operators utilizing aircraft which have been modified under the Civil Reserve Air Fleet Program, Part I, Phase II, may deduct the added weight of the military modification up to a maximum of 50 pounds for each aircraft so modified.
- NOTE 11. Model 1049D-55 is eligible for landing weight of 113,000 lbs., takeoff weight of 135,400 lbs., and maximum zero fuel weight of 108,000 lbs., when larger brakes are installed, stronger main landing gear side struts and drag strut dampers are installed and other minor modifications accomplished. These changes are described in Lockheed Service Bulletin 2373, 2504, 2508, 2509, 2529 and 2599. Upon completion of all of these items, the airplane is redesignated as Model 1049D/01-55.
- NOTE 12. Models 1049C-55 and 1049E-55 are eligible for a takeoff weight of 135,400 lbs. when stronger main landing gear side struts and drag strut dampers, speed recovery modifications, propeller spinner afterbodies, fuselage and wing reinforcements and propeller blade trailing edge fairings (on those airplanes having Curtiss 858 propellers) are installed. Lockheed Service Bulletin 2300, 2301, 2302, 2303, 2329, 2330, 2500, 2508, 2509 and 2599 describe those modifications required for Model 1049C. Service Bulletins 2500, 2508, 2509 and 2599 describe those required for Model 1049E. Upon completion of all of these items, the airplane is re-designated as Model 1049E/01-55.
- NOTE 13. Model 1049E/01-55 (See NOTE 12) is eligible for a landing weight of 113,000 lbs. when the landing gear incorporates wheel and brake assemblies as described under equipment items 202(a)(3), or (a)(4). The airplane is then designated as Model 1049E/02-055.
- NOTE 14. Model 1049H-82 is eligible for increased takeoff, landing and zero fuel weights when certain specific modifications are incorporated. Upon completion of the required items the aircraft model is redesignated. The redesignated aircraft with the required modifications and weight limitations are listed below.
 - A. Model 1049H/01-03 or 1049H/01-06

This model is basically a 1049H with the wing structure reinforced according to Lockheed Drawing No. 329998-505 "Wing Group Installation" and Item 111 (a) optional engines and propeller Item 1(e) are installed.

	Tip Tanks Off	Tip Tanks On
Gross Weight	140,000	140,000
Landing Weight	113,000	113,000
Zero Fuel Weight	109,500	106,700

B. Model 1049H/02-03 or 1049H/02-06

This model is a 1049H/01 modified in accordance with Lockheed Service Bulletin No. 3041. This results in a change in landing weight to 114,500 lbs. for both tip tanks on or off configurations.

C. Model 1049H/03. See NOTE 18.

D. Model 1049H/04-82

This model is basically a 1049H modified in accordance with Lockheed Service Bulletin No. 3041 making this model eligible for the following landing and zero fuel weights:

	Tip Tanks Off	<u>Tip Tanks On</u>
Landing Weight	114,500	114,500
Zero Fuel Weight	109,500	104,200

E. Model 1049H/05-03 or 1049H/05-06

This model is basically a 1049H/01 modified in accordance with Lockheed Service Bulletin No. 3060 rendering this model eligible for the following weights:

	Tip Tanks Off	Tip Tanks On
Takeoff Weight	142,100	142,100
Landing Weight	113,000	113,000
Zero Fuel Weight	108,000	108,000

F. Model 1049H/06-03 or 1049H/06-06

This model is basically a 1049H/06 modified in accordance with Lockheed Service Bulletin No. 3060 rendering this model eligible for the following weights:

	Tip Tanks Off	Tip Tanks On
Takeoff Weight	142,100	142,100
Landing Weight	114,500	114,500
Zero Fuel Weight	109,500	109,500

G. Model 1049H/07-03 or 1049H/07-06

This model is basically a 1049H/06 with the takeoff weight limited because of the substitution of propeller Item 1(b) for Item 1(e). The operational weights are as follows:

	Tip Tanks Off	Tip Tanks On
Takeoff Weight	141,700	141,700
Landing Weight	114,500	114,500
Zero Fuel Weight	109,500	109,500

NOTE 15. The 975C18CB1 engine is eligible for use with grade 100/130 or 108/135 fuel at the following ratings:

Lower impeller ratio 6.46:1

Maximum continuous:

(Sea level) 43.5 in.Hg., 2600 rpm (2150 hp)

(Straight line manifold pressure variation with altitude to 8700 ft.)

40.5 in.Hg., 2600 rpm (2150 hp)

Takeoff (2 minutes):

(Sea level) 47.0 in.Hg., 2600 rpm (2350 hp)

(Straight line manifold pressure variation with altitude to 5900 ft.)

45.0 in.Hg., 2600 rpm (2350 hp)

High impeller ratio 8.67:1

Maximum continuous:

(14,000 ft.) 42.0 in.Hg., 2600 rpm (1800 hp)

(Straight line manifold pressure variation with altitude to 18,800 ft.)

41.0 in.Hg., 2600 rpm (1800 hp)

When using the above grade fuel and power ratings, the airplane weight limitations are as follows:

Landing: 91,000 lbs.

Takeoff 100,000 lbs. (Dump valves are required)

Maximum zero fuel weight: 87,332 lbs.

NOTE 16. The 972TC18CDA1 engine is eligible for use with grade 100/130 or 108/135 fuel at the following ratings with automatic rich mixture settings only for all operations including cruise::

Lower impeller ratio 6.46:1

Maximum continuous:

(Sea level) 43.5 in.Hg., 2600 rpm (2380 hp)

(Straight line manifold pressure variation with altitude to 9100 ft.)

41.0 in.Hg., 2600 rpm (2450 hp)

Takeoff (2 minutes at sea level; 5 minutes at 7500 ft.

(Straight line variation of takeoff power time with altitude to 7500 ft.)

(Sea level) 51.0 in.Hg., 2900 rpm (2880 hp)

(Straight line manifold pressure variation with altitude to 8100 ft.)

47.5 in.Hg., 2900 rpm (2950 hp)

High impeller ratio 8.67:1

Operation with grade 100/130 fuel not permitted.

When using the above grade fuel and power ratings, the airplane weight limitations are as follows:

Landing: 101,500 lbs.

Takeoff 120,000 lbs. (Dump valves are required)

Maximum zero fuel weight: 95,884 lbs. (with 2-1/2 inch connector tubes)

95.560 lbs. (with 4 inch connector tubes)

NOTE 17. The 972TC18DA3, 988TC18EA3 and 988TC18EA6 engines are eligible for use with grade 100/130 or 108/135 fuel at the following ratings with automatic rich mixture settings only for all operations including cruise::

Lower impeller ratio 6.46:1

Maximum continuous:

(Sea level) 44.0 in.Hg., 2600 rpm (2380 hp)

(Straight line manifold pressure variation with altitude to 9400 ft.)

41.5 in.Hg., 2600 rpm (2450 hp)

Takeoff (2 minutes at sea level; 5 minutes at 7500 ft.;

straight line variation of takeoff power time with altitude to 7500 ft.):

(Sea level) 51.0 in.Hg., 2900 rpm (2880 hp)

(Straight line manifold pressure variation with altitude to 8500 ft.)

48.0 in.Hg., 2900 rpm (2950 hp)

High impeller ratio 8.67:1

Operation with grade 100/130 fuel not permitted.

When using the above grade fuel and power ratings, the airplane weight limitations are as follows:

Landing: 101,500 lbs.

Takeoff 120,000 lbs. (Dump valves are required)

Maximum zero fuel weight: 96,750 lbs. (Tip tanks off) Standard configuration)

96,580 lbs. (Tip tanks on)

95,560 lbs. (Tip tanks off and stand pipe in tanks 2 and 3) 95,380 lbs. (Tip tanks on and stand pipe in tanks 2 and 3)

NOTE 18. Model 1049D/01 may be modified to Model 1049H when modified in accordance with Lockheed Service Bulletin No. 2505. Upon completion of this item, the airplane is redesignated as 1049H/03-82.

NOTE 19. In accordance with Civil Aeronautics Board Special Regulation 411A, aircraft operated by "Air Carriers" for cargo operation only, are permitted to increase the zero fuel weight and landing weight by 5 per cent of the zero fuel weight. For aircraft covered by this specification, the landing and maximum zero fuel weights may be increased as follows for airplanes equipped with Hamilton Standard and Dural propellers and with 858 trailing edge propellers, respectively:

Tip Tanks		Landing Weight		Zero Fuel Weight	
		ON	OFF	ON	OFF
Hamilton Standard Propellers		(Equipment Ite	ems 1(c) and 1(e))		
Model 1049C &)	(1)	115,210	115,175	109,410	108,675
1049E & 1049E/01)	(2)	115,210	115,175	109,090	108,675
1049E/02	(1)	117,200	117,200	109,410	108,675
	(2)	117,200	117,200	109,410	108,675
1049G (equip. item 1(e) only)		118,210	118,175	109,410	108,675
1049H		118,210	118,400	109,410	113,400
1049H/01		118,335	118,400	112,035	113,400
1049H/02		119,835	119,975	112,035	114,975
1049H/05		118,400	118,400	113,400	113,400
1049H/06		119,975	119,975	114,975	114,975

Tip Tanks (cont'd)		Landing Weight		Zero Fuel Weight	
		ON	OFF	ON	OFF
Dural Propellers		(Equipment It	em 1(f))		
Model 1049C &)	(1)	115,210	115,175	109,410	108,675
1049E & 1049E/01)	(2)	115,210	115,175	109,090	108,675
1049E/02	(1)	116,600	116,600	109,410	108,675
	(2)	116,600	116,600	109,410	108,675
1049G		117,600	117,600	109,410	108,675
1049H		117,600	117,600	109,410	112,860
1049H/01		118,335	118,400	112,035	113,400
1049H/02		119,835	119,975	112,035	114,975
1049H/05		118,400	118,400	113,400	113,400
1049H/06		119,975	114,975	114,975	114,975
858 T.E. Propellers		(Equipment It	em 1(b))		
Model 1049C &	(1)	115,210	115,175	109,410	108,675
1049E & 1049E/01	(2)	115,210	115,175	109,090	108,675
1049E/02	(1)	115,600	115,600	109,410	108,675
	(2)	115,600	115,600	109,410	108,675
1049D/01	. ,	115,600	115,600	109,410	111,220
1049H		116,850	116,850	109,410	112,110
1049H/03		116,850	116,850	109,410	112,110
1049H/07		118,800	118,800	113,880	114,060

- (1) Standpipes in tanks 2 and 3 with 2-1/2" connecting tube.
- (2) Standpipes in tanks 2 and 3 with 4" connecting tube.

In addition to the operator's normal inspection program, aircraft operated in accordance with SR-411A must be inspected with the "Inspection Procedures for Cargo Aircraft Operated at Gross Weights Above Certificated Gross Weights" (Lockheed Report No. 11414, Pages 27 and 28) as revised and approved by the FAA. Requests for changes in the inspection procedure must be forwarded to the manufacturer for his recommendations and submittal to the FAA for approval.

The increased weights authorized in accordance with SR-411A do not apply to foreign operators when the aircraft is operated in the United States.

FAA Approved Airplane Flight Manual revision, including performance information for operation at the increased weights, should be obtained from the manufacturer or from the organization performing the modifications for cargo operation and submitting the corresponding Manual Supplement for FAA approval.

NOTE 20. Propeller governor Type 5U18 is eligible for use only on aircraft equipped with Wright 975C18CB-1 engines.

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