

DEPARTMENT OF TRANSPORT
 AIR SERVICES BRANCH
 OTTAWA, CANADA

A-39 Issue 1
 Avro 683 (Lancaster 10)

AIRCRAFT TYPE APPROVAL

June 12, 1956

Manufacturer: Victory Aircraft Limited,
 Toronto, Canada.

1. Model: Avro 683 (Lancaster 10) (Restricted Category)
 (Aerial Survey Only)

Engines: 4 Packard Merlin 224/5 or
 4 Rolls-Royce Merlin 502.

Fuel: Aviation Gasoline, Grade 100/130.

Engine Limits: Packard Merlin 224/5

	Alt.	Rated HP	RPM	MP lb./sq.in.
Take-off (5 min.)	S.L.	1610	3000	18
Maximum Continuous	S.L.	1240	2850	7

Rolls-Royce Merlin 502

	Alt.	Rated HP	RPM	MP lb./sq.in.
Take-off (5 min.)	S.L.	1635	3000	14
Maximum Continuous	S.L.	1240	2850	9

Airspeed Limits: V_C (maximum cruising) 295 mph
 V_{ne} (never exceed) 360 mph
 V_F (flaps down) 200 mph
 V_{le} (Landing gear extended) 200 mph

Maximum Weight: Take-off 65,000 lb.
 Landing 58,000 lb.

Datum: Station 240.0 inches (port side)

C.G. Range: Landing gear extended or retracted.
 (Take-off or landing)
 Fwd C.G. (41.0) inches aft of datum.
 Aft C.G. (50.9) inches aft of datum.

Minimum Crew: 2

Fuel Capacity: 2154 Imperial Gallons (Max.)

No. 1 tanks	1160	(+299)
No. 2 tanks	766	(+300)
No. 3 tanks	228	(+311)
Forward Bomb Bay tanks	400	(+174)
Rear Bomb Bay tanks	400	(+401)

Oil Capacity: 148 Imperial Gallons (Max.)
Inboard tanks 2 at 37½ each (+234)
Outboard tanks 2 at 36½ each (+268)

Serial Nos. Eligible: 3423, 37208, 37210.

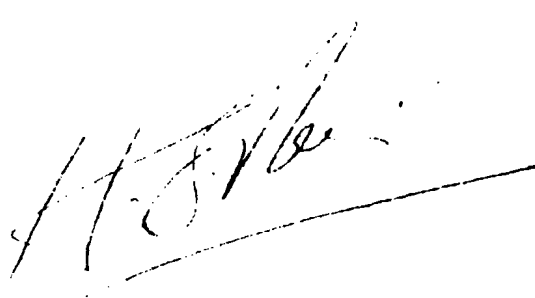
Required Equipment: (Spartan Air Services Limited, Air Operations Manual
(containing Pilot's Notes, Flight Manual and Performance
(Data.
(Weight and Balance Report.

Propeller and 4 Hamilton Standard, constant speed, full feathering
Propeller Accessories: type A5/159, 3 bladed metal
Diameter 13 ft. 0 in.

NOTE 1. For aerial survey work, the crew is limited to that
necessary for safe operation of the aircraft and for the
operation of the survey and navigation equipment.
Maximum number of persons to be on board limited to 9
for aerial survey work.

NOTE 2. The following placard must be placed over the entrance
door:

"RESTRICTED - AERIAL SURVEY ONLY"



H. S. Rees,
Chief Aeronautical Engineer,
Department of Transport.