

## 2 LIMITATIONS

### 2.1 General

The limitations section of this AOI outlines the various operating limitations, instrument function and placards necessary for the safe operation of this aircraft, engine and standard equipment.

### 2.2 Airspeed Limitations

#### 2.2.0.1 XT912 Streak and XT912 STT

Speed	KIAS	KCAS	Comments
Never Exceed Speed ( $V_{ne}$ )	85 knots	74 knots	Do not exceed this speed in any operation
Maximum Manoeuvring Speed ( $V_a$ )	80 knots	70 knots	Do not make full or abrupt control movements above this speed

Table 1 Section 2. Airspeed Limitations

#### 2.2.0.2 XT912 Cruze

Speed	KIAS	KCAS	Comments
Never Exceed Speed ( $V_{ne}$ )	73 knots	65 knots	Do not exceed this speed in any operation
Maximum Manoeuvring Speed ( $V_a$ )	73 knots	65 knots	Limited by $V_{ne}$ *

Table 2 Section 2. Airspeed Limitations

#### 2.2.0.3 XT912 Merlin

Speed	KIAS	KCAS	Comments
Never Exceed Speed ( $V_{ne}$ )	66 knots	59 knots	Do not exceed this speed in any operation
Maximum Manoeuvring Speed ( $V_a$ )	66 knots	59 knots	Limited by $V_{ne}$ *

\* $V_{ne}$  is limited by the maximum speed capable of being demonstrated in a dive, this results in a  $V_{ne}$  less than the nominal  $V_a$  for nominal 4g loading. It is difficult to attain speeds high enough to reach 4 g loadings in smooth air in these aircraft.

Table 3 Section 2. Airspeed Limitations

### 2.3 Airspeed Indicator markings

The standard pressure airspeed indicator on the left side of the dash has multiple red radial markings indicating  $V_{ne}$  for the wing base combinations. The pilot should be aware of the combination of wing and base and be familiar with the appropriate  $V_{ne}$  marking.