



AIRPORT PLANNING MANUAL

**ON A/C ALL

OPERATING CONDITIONS AND NOISE DATA

1. Introduction

This section gives data on the engine noise levels and the intake and exhaust dangerous areas during normal operations. This section is divided into the subsections that follow:

- Engine dangerous areas – engine intake and exhaust
- Airport and community noise data for powerplants
- Engine emission data

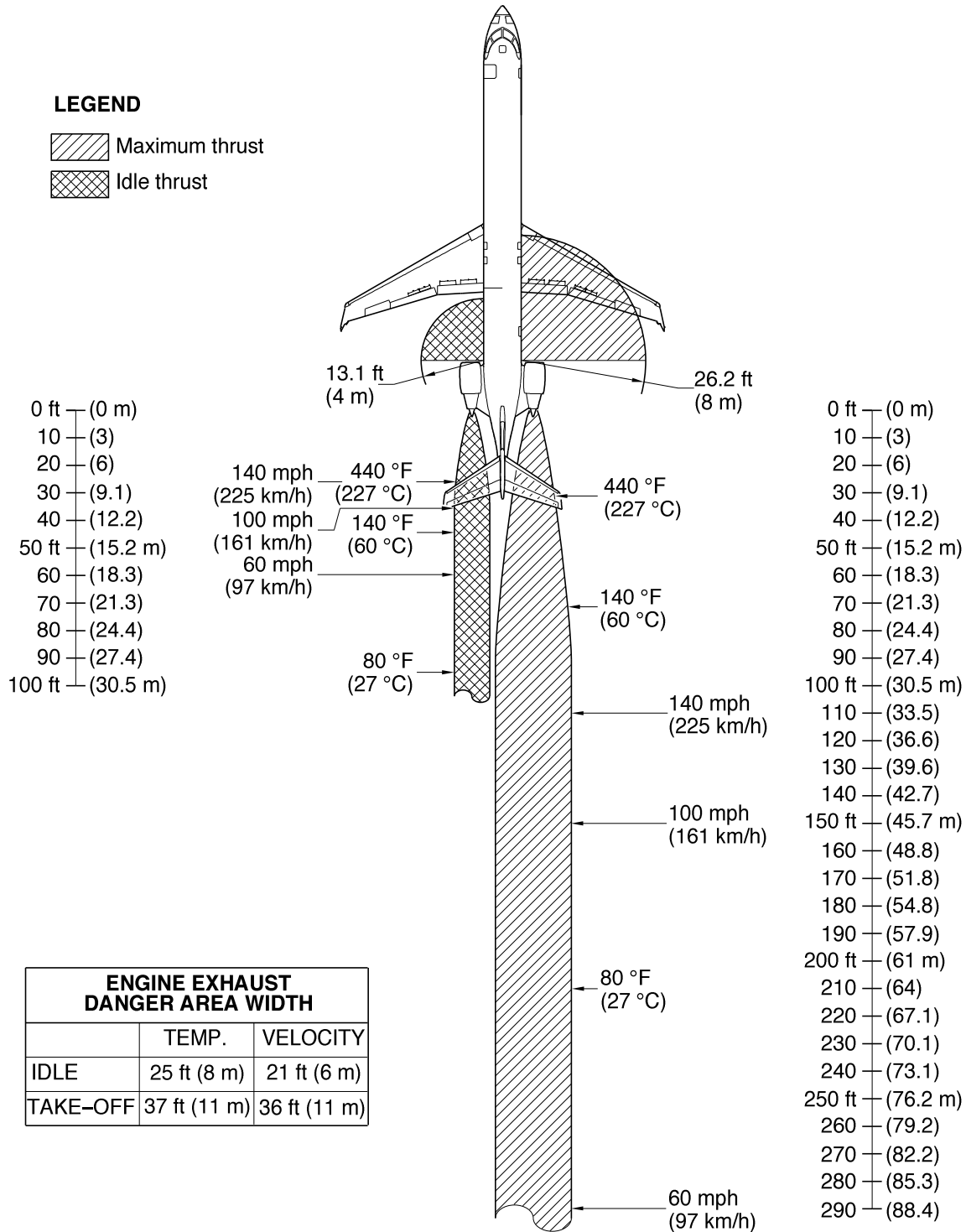
2. General

- A. Aircraft operating conditions and noise are important to airport and community planners. While an airport is a major element in a community transportation system and is vital to its growth, it must also be accountable to the best interests of the neighborhood in which it is located. This can only be accomplished with proper planning. Because aircraft noise extends beyond the boundaries of the airport, it is important to consider the impact on surrounding communities located near the airport.
- B. The CRJ Series aircraft is designed with advanced, quiet, turbofan technology. Its noise impact is minimal compared to most commercial aircraft, larger and smaller, currently being operated in a typical airport.

3. Engine Dangerous Areas – Engine Intake and Exhaust

- A. This section contains data on the engine intake and exhaust dangerous areas.
- B. Refer to Figure 1 for the zones and distances that should be considered dangerous during engine operation.

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Engine Intake and Exhaust Danger Areas
Figure 1