TAXIING - MAINTENANCE PRACTICES

EFFECTIVITY: ACFT MODEL(S) EMB-135

1. General

A. This section gives the aircraft taxiing procedure. Only approved persons who fully know the engine start and shutdown procedures, limitations, and taxiing techniques can do the aircraft taxiing. It must obey the Local Authorities' rules.

CAUTION: THE AREAS FOR TAXIING MUST BE FREE OF OBSTACLES AND HAVE THE NECESSARY SPACE FOR THE MANEUVERS.

B. The turning radii with related distances and the minimum turning radii are shown in the figures.

C. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	*DESCRIPTION*	*EFFECTIVITY*
09-20-00-500-801-A	AIRCRAFT TAXIING	ACFT MODEL(S) EMB-135

TASK 09-20-00-500-801-A
EFFECTIVITY: ACFT MODEL(S) EMB-135

2. AIRCRAFT TAXIING

A. General

(1) During the aircraft taxiing, one or the two engines can be on.

B. References

REFERENCE	*DESIGNATION*
AMM TASK 10-10-01-500-801-A/200	AIRCRAFT NORMAL PARKING
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	*FUNCTION*	*PLACE*
1	Operates the aircraft	At the cockpit LH seat
1	As an observer	At the cockpit RH seat

I. Preparation

SUBTASK 841-009-B

(1) Area clear for taxiing.

(2) Landing gear safety pins installed to the landing gears (AMM TASK 32-00-01-910-801-A/200).

(3) Brakes in serviceable conditions.

(4) Nose-landing-gear steering control in serviceable conditions.

J. Taxiing

SUBTASK 580-009-B

CAUTION: OBEY THE INSTRUCTIONS IN THE OPERATIONS MANUAL.

NOTE: Do not use differential braking during the taxiing. For the most satisfactory operation, use minimum engine power or, when necessary, a lightly asymmetric power and the steering control of the nose wheels.

(1) Always do the turns with the largest possible radius permitted by the available space (Figure 201) (Figure 202).

(2) Taxi the aircraft at a speed applicable to ramp operations.

(3) Do not do the turns at more than 25 km/h in speed.

K. Follow-on

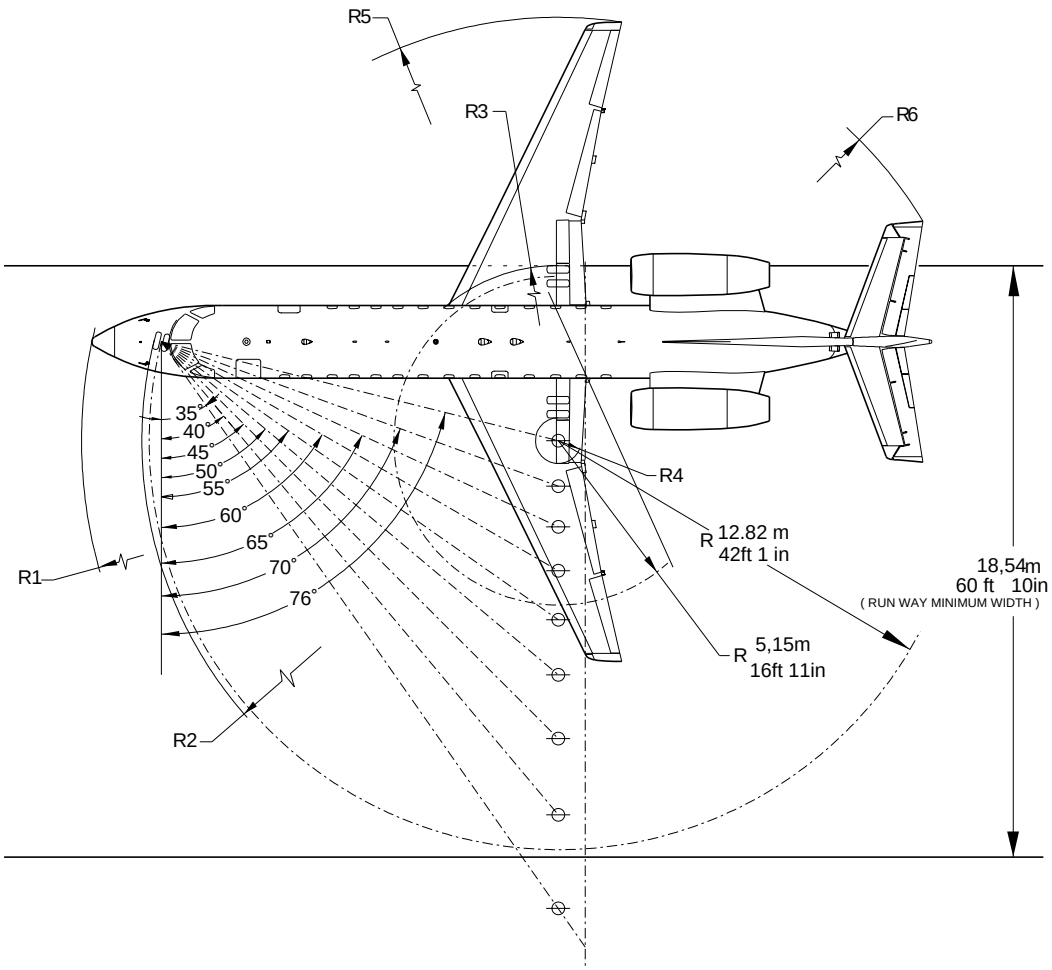
SUBTASK 842-009-B

(1) Install the wheel chocks (AMM TASK 10-10-01-500-801-A/200).

(2) Set the emergency/parking brake.

NOTE: To prevent hydraulic fluid transference from system 1 to system 2 or vice versa, first apply brakes with the pedals and pull or release the emergency/ parking brake handle.

EFFECTIVITY: ACFT MODEL(S) EMB-135
Turning Radii - No Slip Angle
Figure 201



STEERING STEEL	NOSE		NOSE GEAR		OUTBOARDGEAR		INBOARD GEAR		RIGHT WINGTIP		RIGHTTAILTIP	
	R1		R2		R3		R4		R5		R6	
35°	23,07 m	75ft 8in	21,91 m	71ft 11in	20,16 m	66ft 2in	15,38 m	50ft 6in	27,86 m	91ft 5in	24,39 m	80ft 0in
40°	20,87 m	68ft 6in	19,58 m	64ft 3in	17,22 m	56ft 6in	12,44 m	40ft 10in	24,93 m	81ft 9in	21,84 m	71ft 8in
45°	19,24 m	63ft 1in	17,82 m	58ft 5in	14,83 m	48ft 8in	10,06 m	33ft 0in	22,55 m	74ft 0in	19,84 m	65ft 1in
50°	17,99 m	59ft 0in	16,46 m	54ft 0in	12,83 m	42ft 1in	8,06 m	26ft 5in	20,56 m	67ft 5in	18,24 m	59ft 10in
55°	17,04 m	55ft 11in	15,41 m	50ft 7in	11,10 m	36ft 5in	6,33 m	20ft 9in	18,84 m	61ft 10in	16,93 m	55ft 7in
60°	16,33 m	53ft 6in	14,59 m	47ft 10in	9,58 m	31ft 5in	4,80 m	15ft 9in	17,32 m	56ft 10in	15,84 m	52ft 0in
65°	15,74 m	51ft 8in	13,95 m	45ft 9in	8,19 m	26ft 11in	3,42 m	11ft 3in	15,95 m	52ft 4in	14,91 m	48ft 11in
70°	15,31 m	50ft 3in	13,46 m	44ft 2in	6,92 m	22ft 8in	2,14 m	7ft 0in	14,69 m	48ft 2in	14,13 m	46ft 4in
76°	14,94 m	49ft 0in	13,05 m	42ft 10in	5,49 m	18ft 0in	0,72 m	2ft 4in	13,27 m	43ft 7in	13,34 m	43ft 9in

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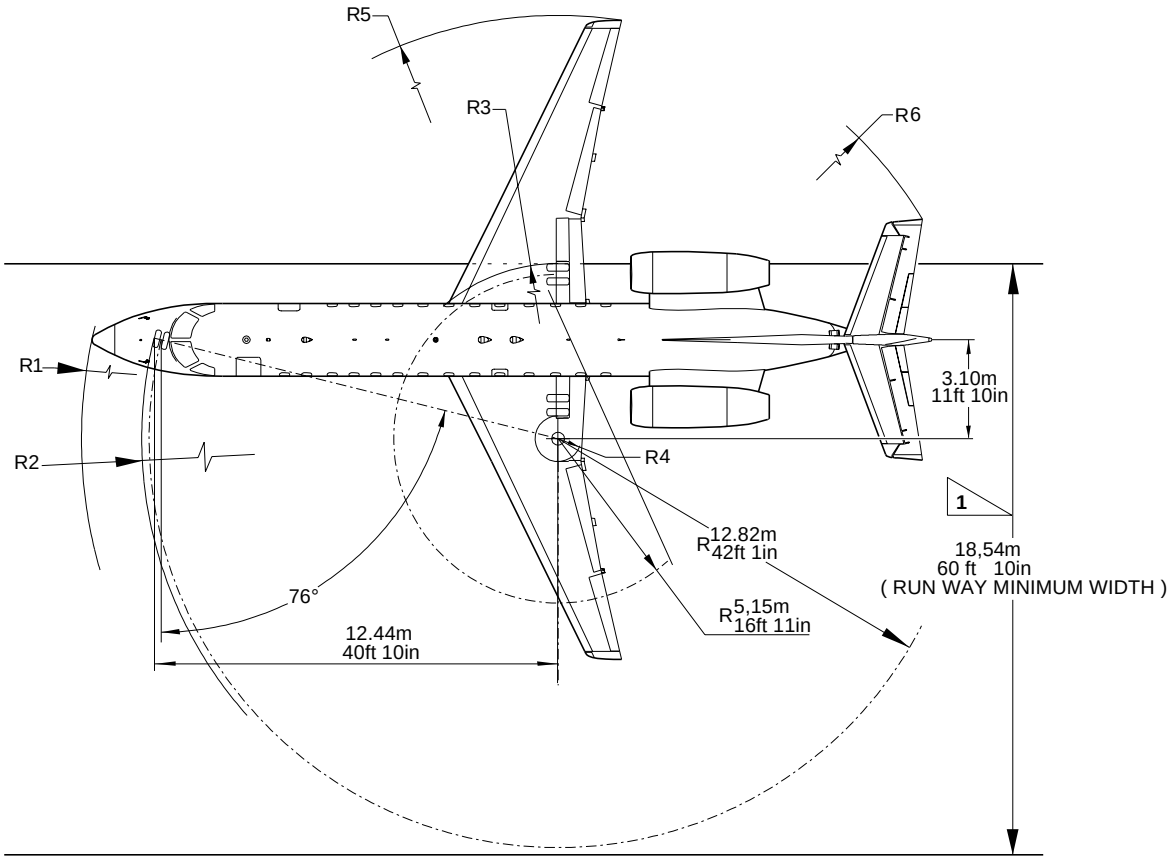
EFFECTIVITY: ACFT MODEL(S) EMB-135
Minimum Turning Radii - (Steering Angle 76°)
Figure 202



STEERING STEEL	NOSE		NOSE GEAR		OUTBOARD GEAR		INBOARD GEAR		RIGHT WINGTIP		RIGHT TAILTIP	
	R1		R2		R3		R4		R5		R6	
76°	14.94m	49ft 0in	13.05m	42ft 10in	5.49m	18ft 0in	0.72m	2ft 4in	13.27m	43ft 7in	13.34m	43ft 9in

NOTE: ACTUAL OPERATING DATA WILL BE GREATER THAN VALUES SHOWN SINCE TIRE SLIPPAGE IS NOT CONSIDERED IN THIS CALCULATION.

1 PAVEMENT WIDTH FOR 180° TURN

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