

LOADING CONDITIONS	WS-1	WS-2	WS-3	WS-4	WS-5
LOADED WEIGHT	90,000	85,000	84,500	81,700	88,300
LOADED CG (% MAC)	22.5%	28.4%	19.8%	30.3%	25.5%
WEIGHT CHANGE (POUNDS)	2,500	1,800	3,000	2,100	3,300
FWD COMPT CENTROID – STA 352.1 AND –227.9 INDEX ARM AFT COMPT CENTROID – STA 724.9 AND +144.9 INDEX ARM MAC – 141.5 INCHES, LEMAC – STA 549.13, AND –30.87 INDEX ARM					

FIGURE 44.—DC-9 – Weight Shift.

OPERATING CONDITIONS	A-1	A-2	A-3	A-4	A-5
FIELD ELEVATION	2,500	600	4,200	5,100	2,100
ALTIMETER SETTING	29.40"	30.50"	1020mb	29.35"	1035mb
AMBIENT TEMPERATURE	+10 °F	+80 °F	0 °C	+30 °F	+20 °C
WEIGHT (X1000)	75	85	90	80	65
FLAP POSITION	20°	20°	20°	20°	20°
RUNWAY SLOPE %	+1%	–1.5%	0	+1.5%	–2%
WIND COMPONENT	10 HW	10 TW	15 HW	5 TW	20 HW
ICE PROTECTION	BOTH	NONE	BOTH	ENGINE	NONE
CG STATION	590.2	—	580.3	—	594.4
CG INDEX ARM	—	–3.1	—	+5.9	—
INDEX ARM REF – STA 580.0, LEMAC – STA 549.13, AND –30.87 INDEX, MAC 141.5 CG % MAC = STAB TRIM SETTING					

FIGURE 45.—DC-9 – Takeoff.

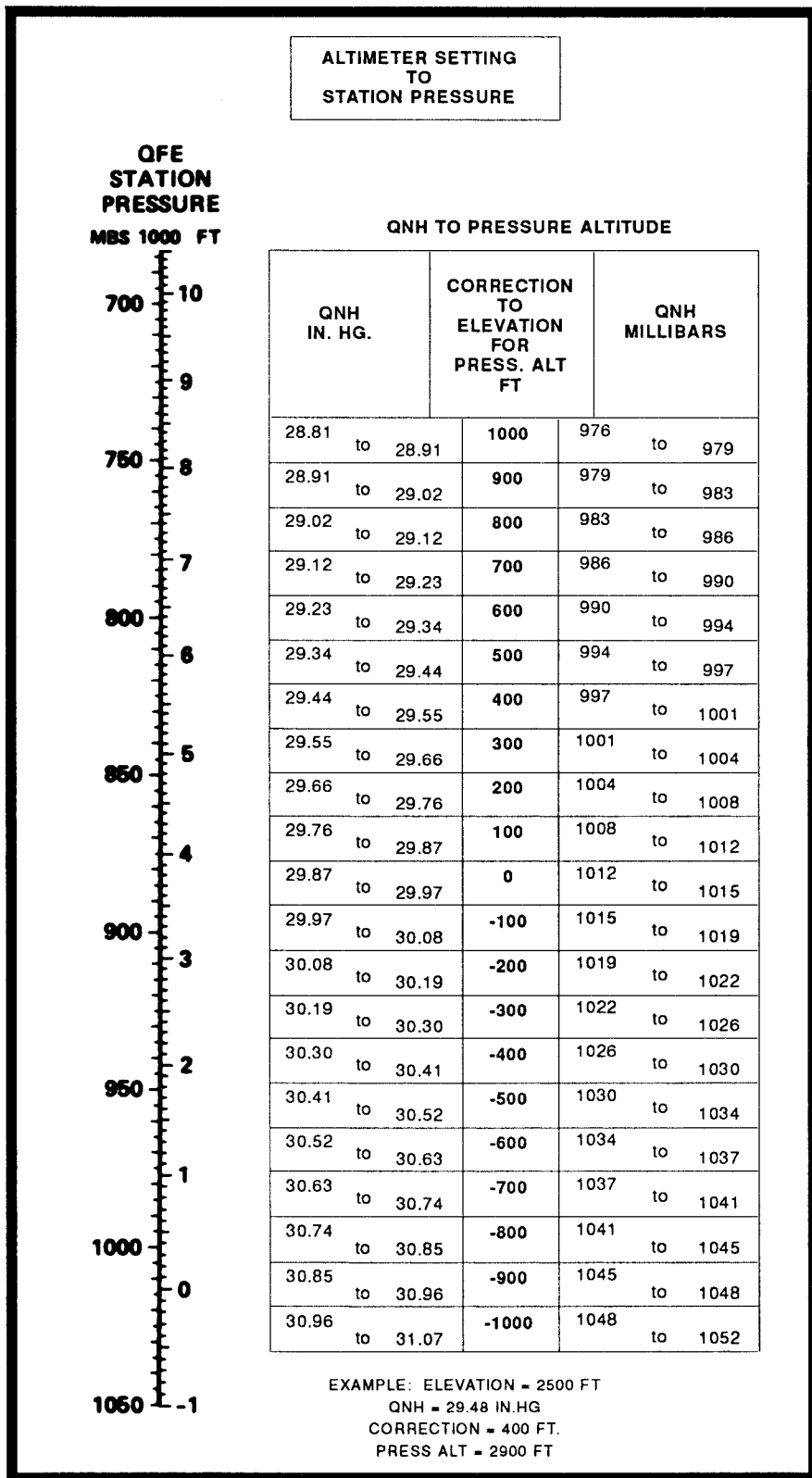
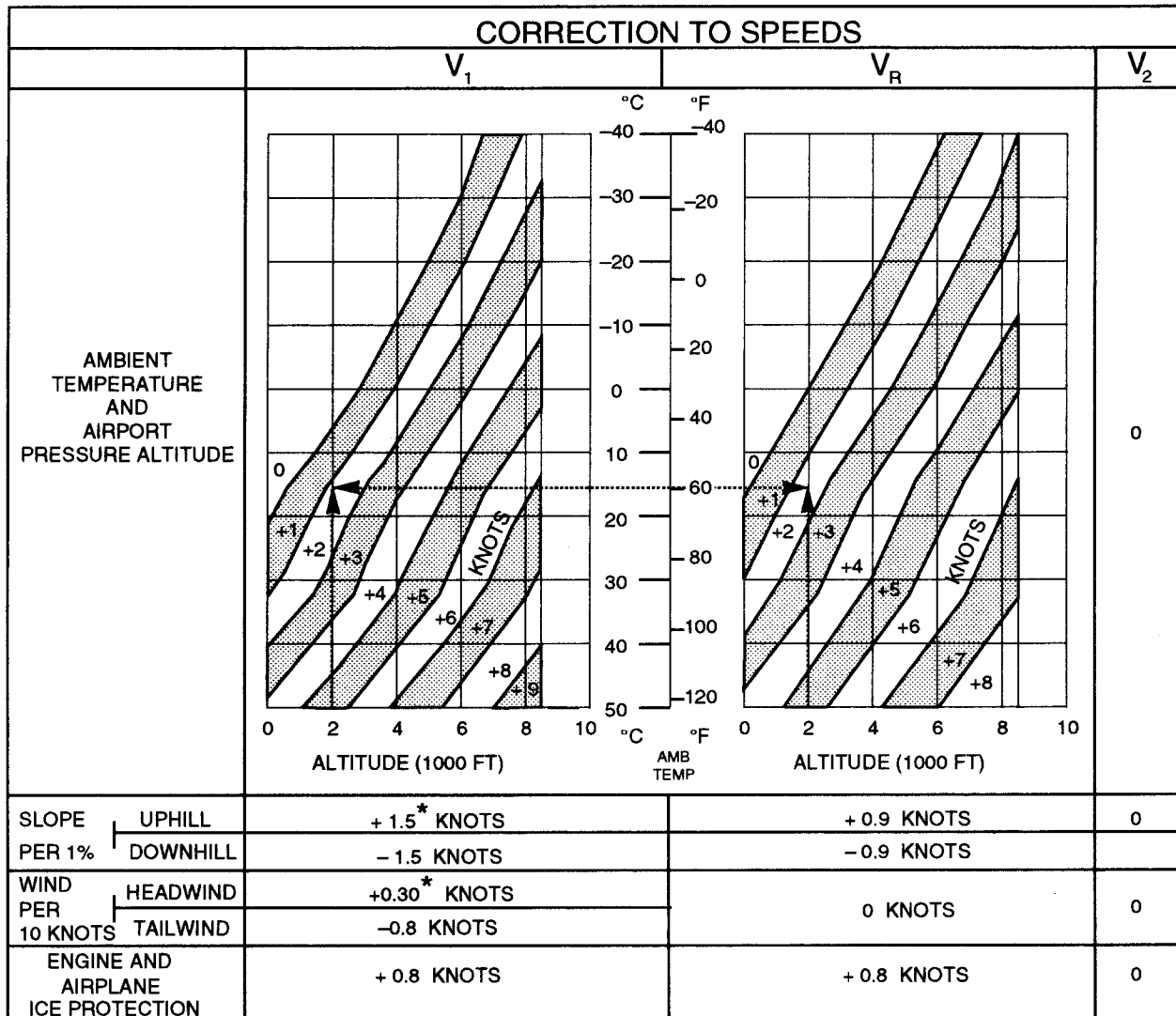


FIGURE 46.—Altimeter Setting to Pressure Altitude.

MODEL DC-9
TAKEOFF SPEEDS
JT8D-1 ENGINES

TAKEOFF SPEED - 20° FLAPS								
EITHER NO ICE PROTECTION OR ENGINE ICE PROTECTION ONLY								
TAKEOFF WEIGHT (1000 LB)	60	65	70	75	80	85	90	95
V ₁ (KNOTS, IAS)	104.0	110.0	115.0	120.5	125.0	129.5	133.5	136.0
V _R (KNOTS, IAS)	106.5	112.5	118.0	123.5	129.0	134.0	139.0	143.5
V ₂ (KNOTS, IAS)	117.0	121.5	126.5	130.5	135.0	139.0	143.0	147.0



* IF V₁ EXCEEDS V_R, SET V₁ EQUAL TO V_R

FIGURE 47.—DC-9 - Takeoff Speeds.