

DEPENDENT POSITION DETERMINING - DESCRIPTION AND OPERATION**1. Description**

- A. The dependent position determining systems include navigation receiver(s), DME, ADF(s), transponder(s), and area navigation and course indicators.
- B. Sperry Dependent Position Determining Equipment (Model 208 Only).

NOTE: Refer to the Supplier Publication List in the front of this manual for appropriate Sperry Maintenance Manual for the listed equipment.

- (1) NAV/COM systems:
 - (a) 300 Nav/Com(s) (RT-385A) - Airplanes 2080001 thru 20800145.
 - (b) 400 Nav/Com(s) (RT-485B) - Airplanes 2080001 thru 20800145.
- (2) ADF systems:
 - (a) 300 ADF (R-546E) - Airplanes 2080001 thru 20800145.
 - (b) 400 ADF (R-446A) - Airplanes 2080001 thru 20800145.
 - (c) 400 RNAV (RN-479A) - Airplanes 2080001 thru 20800145.
 - (d) RMI (IN-404A) - Airplanes 2080001 thru 20800145.
- (3) DME systems:
 - (a) SDM-77A DME (RT-377A) - Airplanes 2080001 thru 20800145.
- (4) Transponder systems:
 - (a) 400 Transponder (RT-459A) - Airplanes 2080001 thru 20800145.

- C. King Dependent Position Determining Equipment

NOTE: Refer to the Supplier Publication List in the front of this manual for appropriate King Maintenance Manual for the listed equipment.

- (1) NAV/COM systems:
 - (a) KX-165 Nav/Com with KI-206 Indicator - Airplanes 20800146 thru 20800499 and Airplanes 208B0180 thru 208B1999.
- (2) ADF systems:
 - (a) KR-87 ADF - Airplanes 20800500 and On and Airplanes 208B2000 and On.
- (3) DME systems:
 - (a) KN- 63 or KN-63(01) DME - Airplanes 20800001 and On and airplanes 208B0001 AND On.
 - (b) KI-229 RMI - Airplanes 20800001 thru 20800268 and Airplanes 208B0001 thru 208B1999.
 - (c) KNI-582 RMI - Airplanes 20800007 thru 20800268 and Airplanes 208B0001 thru 208B1999.
- (4) Transponder systems:
 - (a) KT-71 Transponder - Airplanes 2080212 thru 20800499 and Airplanes 208B0294 thru 208B1999.
 - (b) KT-73 Transponder - Airplanes 2080376 thru 20800499 and Airplanes 208B1051 thru 208B1999.
 - (c) KT-79 Transponder with KEA-130 Encoder - Airplanes 2080001 thru 20800211 and Airplanes 208B0180 thru 208B0293.
- (5) Integrated NAV systems:
 - (a) KNS- 81 Integrated RNAV System - Airplanes 2080001 and On and Airplanes 208B0180 and On.
- (6) Loran systems:
 - (a) KLN-88 Loran - Airplanes 20800202 thru 20800246 and Airplanes 208B0255 thru 208B0498.
- (7) Global Positioning Systems (GPS)
 - (a) KLN-89B GPS - Airplanes 20800247 thru 20800499 and Airplanes 208B0496 thru 208B1999.
 - (b) KLN-94 GPS - Airplanes 20800332 thru 20800499 and Airplanes 208B0876 thru 208B1999.

- D. Trimble Navigation Dependent Position Determining Equipment:

- (1) GPS/Loran TNL-3000T - Airplanes 20800236 thru 20800246 and Airplanes 208B0372 thru 208B0498.

- (2) GPS TNL-2000T - Airplanes 20800236 thru 20800259 and Airplanes 208B0372 thru 208B0560.
- E. ARNAV R-21/R-40 Loran Navigation Systems.
- F. Garmin Dependent Position Determining Equipment
 - (1) Transponders include the systems that follow:
 - (a) GTX-327 - Airplanes 20800350 thru 20800356 and Airplanes 208B0900 thru 208B0974.
 - (b) GTX-330 - Airplanes 20800365 thru 20800499 and Airplanes 208B1010 thru 208B1999.
 - (c) GTX-33 - Airplanes 20800500 thru 20800600 and 208B2000 thru 208B5271 incorporating CAB-34-04.
 - (d) GTX-33ES - Airplanes 20800582 and Airplanes 208B5272 thru 208B5400 and Airplanes 2080500 thru 2080600 and 208B2000 thru 208B5271 incorporating CAB-34-04.
 - (e) GTX-335R - Airplanes 20800601 and On and Airplanes 208B5401 and On.
 - (f) GTX-345R (ADS-B In enable, optional equipment) - Airplanes 20800601 and On and Airplanes 208B5401 and On.
 - (2) Global Positioning Systems (GPS)
 - (a) G1000 GPS - Airplanes 20800500 and On.
 - (b) G1000 GPS - Airplanes 208B2000 and On.