


5. REBUILD NOSE GEAR TORQUE KNEE ASSEMBLY. Torque knee junction bushing: P/N 35-820123. ($23.79 from Raytheon.) Bolt: 130909B170; nut: 130909N7; washers: 100951S063ZZ ($0.18 from Raytheon); 100951S063YH ($0.23 from Raytheon) Parts Manual: Figures 206-206B. Maintenance Manual: Chapter 32-20-00.

6. REPLACE FLAP ROLLER ASSEMBLIES. Flaps roll on these rollers. Eight rollers required: two front & two rear on each side P/N BC56984. ($78.87 each from Raytheon.) Usually only need to do four. Bolts: 130909B21, 130909B23; Nuts: 130909N29; Washers: AN960-10. Set up like railroad car wheels—flange on inside of tracks. Rubber bumper assemblies: P/N4988. ($2.70 from Raytheon.) Very cheap. Parts Manual: Figure 40. Maintenance Manual: Chapter 27-50-00.


8. REPLACE TRIM TAB ACTUATOR REAR ATTACH BUSHING AND HARDWARE. Trim tabs get loose. Lots of linkage and small wear amounts add up. Maximum allowable trim tab movement is about _”. Lots of places to be loose. This is an easy fix for part of the looseness. Bushing: P/N 105740X-ZH0115. ($27.54 from Raytheon.) Rod end: P/N 96-526011 ($145.04 from Raytheon) & 96-526012 ($169.25 from Raytheon)—usually don’t need the rod-ends. Bolt: 130909B171. Nut: 130909N45. Washers:

---Neil Pobanz, ABS Technical Consultant

NOTE: Part numbers listed will vary by aircraft model and serial number. Many of these tasks require at least supervision by a licensed A&P mechanic. Often components in the Beech product line appear similar but are actually different, so check the shop and parts manuals for your airplane.

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9. INSTALL FUEL SELECTOR VALVE SAFETY KIT. Kit installs button on fuel selector to keep from turning to “off” by mistake. Kit No. 36-5006-1 S. Per MS1 1248. Kit is $208.25 from Raytheon.

10. INSTALL LANDING GEAR SELECTOR SAFETY KIT. Very easy to install. Kit No. 58-8001-1 S. MSB 1215. Kit is $436.08 from Raytheon. Can be had in the aftermarket for about $75 new.


12. REPLACE NOSE GEAR DOOR BUSHINGS, BALL JOINTS. Remove the nose gear doors. Replace all attach bushings: P/N 105739S-ZG0250. ($3.70 from Raytheon.) Ball joints: P/N C100102. ($47.52 from Raytheon.) Parts Manual: Figure 208. Maintenance Manual: Chapter 32-20-00.


14. REPLACE SHIMMY DAMPER HARDWARE. You service and overhaul your shimmy dampener, but what about the attach hardware? Two bolts: 130909B17, AN6-31A; Two bushings: 105740X-YN1458 ($53.68 each from Raytheon), 105739X-ZK0190 ($82.15 each from Raytheon). Parts Manual: Figures 206-206B. Maintenance Manual: Chapter 32-20-00.


19. REPLACE INLINE INSTRUMENT CANISTER AIR FILTERS WITH AEROTECH COMPONENTS, INC. “CLEARVIEW” PNEUMATIC INLINE FILTERS. Old canister filters are replaced on time. Can’t see condition. “Clearview” filters are visible. Have darkness gauge. P/N CV1J4. STC SA289CH. FAA/PMA. Replaces 1J4-7, which is $45.75 from Airborne, $24.50 from Rapco. Clearview: $48.95 at Chief.

20. REPLACE BRAKE FLUID RESERVOIR & LOWER FLEXIBLE BRAKE LINES. Old brake fluid reservoir is a simple thin can. Brake fluid attracts water and tends to corrode out in time. New brake fluid reservoir is a beautiful item. P/N 9027A100-1. ($170.48 from Raytheon.) Brake lines harden with time. P/N MS28741-4-0160. ($57.04 from Raytheon.) Parts Manual: Figure 202. Maintenance Manual: chapter 32-40-00.

21. REMOVE & OVERHAUL AUXILIARY FUEL BOOST PUMP. Beech recommends overhaul every 10 years. Unhook wires. Unbolt unit. Send out for overhaul. Parts Manual: Figures 281-281C. Maintenance Manual: Chapter 28-00-00. Dukes pump. MSB: Re Nylatron Vanes. “-NV” P/N 1296-00-1NV S,323.07 new from Raytheon. About $450 for a factory overhaul by Dukes, including compliance with MSB & putting in Nylatron Vanes. Procedure: Drain & purge fuel system; remove pilot & copilot seats; remove royate cover over main spar; remove fuel selector handle & unscrew post-light covers from the royate truss cover, then remove the truss cover. Disconnect the fuel plumbing from the fuel selector valve. Remove the four bolts securing the auxiliary fuel pump to the mounting bracket & remove the auxiliary fuel pump. The auxiliary fuel pump is located in front of the spar carry-through on the pilot’s side.

22. REMOVE & OVERHAUL FUEL SELECTOR VALVE. Fuel selector valve removal requires a/c to be de-fueled. Remove valve. Send out for overhaul. Cost: About $200. Beech recommends overhaul every 10 years. Parts Manual: Figure 289A-289C. Maintenance Manual: Chapter 28-20-00. Procedures: Drain and purge fuel system. Remove royate cover over main spar. Remove fuel selector handle & unscrew postlight covers from the royate truss cover, then remove the truss cover. Disconnect the fuel plumbing from the fuel selector valve. Remove the four bolts securing the auxiliary fuel pump to the mounting bracket & remove the auxiliary fuel pump. The auxiliary fuel pump is located in front of the spar carry-through on the pilot’s side.


24. REPLACE DIPSTICK GASKET. Dipstick gasket is nothing to replace. TCM P/N 533355. ($2.16 from Raytheon.) Performance Aero has 1/8” & 1/16” gaskets.

25. REPLACE THROTTLE CABLE & MIXTURE CABLE ROD-ENDS AT ENGINE END. Throttle rod-end P/N 131765-1F which is a replacement for P/N F34-14M. Mixture control rod-end P/N 131765-1F, replacement for P/N F34-14M. ($41.08 from Raytheon.) Parts Manual: Figures 159-159A. Maintenance Manual: Chapters 71-00-00.

26. REPLACE INTERIOR & EXTERIOR PLACARDS. Maintenance Manual: Chapter 20-08-00. Parts Manual: Figures 15 and 16. See also POH/AFM “Limitations, Section II. Decals are self-explanatory. Performance Aero has emergency exit window placards, $9; emergency landing gear instructions to extend, $15; Arm Rest Emblems, $8.50; Seat Belt Buckle Emblems, $4; Glove Box Door Medallions, $45. They also have Fuselage Emblems: A36 Aft Fuselage Emblems with Crest, $87 per pair; V35B & F33A Aft Fuselage Emblems with Crest, $85 per pair. Beechcraft Crests only: $19 per pair. They also have Baron Exterior Cowl Door Emblems, $69 per pair. Numerous other placards and decals. Additionally, you can get them from Aerographics or have them made by Engravers, Inc.