

Checklist for Belt Tension and Pulley Alignment

1	Remove side cowlings, discharge tubes, and baggage compartment forward bulkhead.
2	Remove upright stiffener for baggage door hinge attach if applicable.
3	Remove dog house scupper covers, (4 black plastic and aluminum parts).
4	Remove air conditioning compressor if installed.
5	Remove igniter box and blower support covers.
6	Make a drawing of the flex plate and shim installations.
7	Remove blower short shaft and flex plates.
8	Remove the forward pulley drive shaft flex plate.
9	Lock up the aft pulley drive flex plate couplings to make the assembly rigid for alignment.
10	Connect the lower pulley link rods, if disconnected.
11	Set the pulley alignment.
12	Tension belt while maintaining alignment... target 2300 lbs.
13	Check vertical alignment between engine drive shaft and pulley drive shaft.
14	Shim engine if necessary.
15	Check the horizontal alignment between the engine drive shaft and the pulley drive shaft.
16	Correct the horizontal alignment with the forward pulley link rod if necessary.
17	Check the lateral parallelism of the two drive shafts.
18	Correct the lateral parallelism of the two drive shafts using the aft pulley link rod.
19	Re-check the horizontal alignment if the aft link rod is adjusted.
20	Re-check the vertical alignment between the engine and pulley driveshafts.
21	Re-check the pulley alignments.
22	Install tool # T-0166 on the blower flex plate coupling on the aft end of the pulley driveshaft.
23	Install the blower short shaft to the tool T-0166.
24	Check that the TIR of the short shaft is within limits.
25	Check the vertical alignment of the blower shafts at the coupling.
26	Correct for vertical misalignment by shimming forward blower support as necessary.
27	Check the vertical parallelism between the two couplings using a feeler gauge or caliper.
28	Correct for out of parallel by shimming the aft blower support as necessary.
29	Check the horizontal alignment of the two blower couplings.
30	Correct out of alignment by shifting the lower support attachment on the baggage floor.
31	Check for horizontal parallelism of the two blower couplings.
32	Correct for out of parallel by shifting the aft blower support as necessary.
33	Remove short shaft and tool # 0166.
34	Return the aft pulley flex plate couplings to their original configuration.
35	Install the aft blower short shaft and flex plates.
36	Install the forward flex plate to the pulley drive shaft.
37	Attach the flex plate to the engine drive shaft, adjust shim thickness as req.
38	Secure the engine mount, H strut adjusters, and flex plate bolts as required.
39	Install the igniter box.
40	Install air conditioning compressor if applicable.
41	Install the discharge tubes, oil cooler duct, blower support covers, dog house scupper parts.
42	Install baggage hinge support, and baggage compartment bulkheads.
43	Ground run and check lower pulley assembly for abnormal vibration.
44	Install side panels.
45	Update log card for belt maintenance.