

INITIAL ISSUE:

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DIAMANT 16.5 M SERIAL NO. 012 ASSEMBLY CHECKLIST

- \* REMOVE & ASSEMBLY WING DOLLY & (2) TWO WING STANDS.
- \* CHOCK & DISCONNECT TRAILER FROM CAR.
- \* RAISE TRAILER JACK TO HIGHEST POSSIBLE EXTENSION.
- \* UNLOCK & OPEN ALL TRAILER DOORS (BLOCK DOORS OPEN).
- \* LOWER FUSELAGE DOLLY RAMP, REPOSITION CARPETING AT FUSELAGE, & INSTALL WING DOLLY RAMP FOR LEFT WING.
- \* REMOVE FUSELAGE FROM TRAILER, UNTIL DOLLY WHEELS CLEAR RAMP.
- \* REMOVE ELEVATOR FROM FUSELAGE AND RETIRE SAME ON SUPPORT HOOKS ON LEFT SIDE OF TRAILER.
- \* REMOVE CANOPY COVER & RETIRE SAME ON TO LEFT SIDE OF TRAILER ON GROUND.
- \* UNLOCK CANOPY, OPEN CANOPY ABOUT (1) ONE FOOT, ENGAGE CANOPY RELEASE, REMOVE CANOPY & RETIRE SAME TO LEFT SIDE OF TRAILER ON GROUND.
- \* REMOVE SEAT BACK AND RETIRE TO LEFT SIDE OF TRAILER ON GROUND NEAR CANOPY.
- \* PLACE FUSELAGE SUPPORT STAND IN APPROXIMATE AREA OF ASSEMBLY.
- \* UNLOCK AND LOWER LANDING GEAR. AFT END OF FUSELAGE MAY HAVE TO BE RAISED ABOUT 2 TO 3 FEET. REPOSITION FUSELAGE TO AREA OF ASSEMBLY AND INSTALL FUSELAGE SUPPORT STAND. RETIRE FUSELAGE DOLLY TO RIGHT SIDE OF TAILER.
- \* OPEN FUSELAGE DOORS AT WING ROOT AND REMOVE AILERON INTERCONNECT PINS FROM AILERON BELLCRANKS AND PLACE ON COCKPIT FLOOR.
- \* REMOVE WING CARRY-THRU SAFETY AND PIN AND PLACE ON COCKPIT FLOOR.
- \* INSPECT ALL LINKAGES AND LIGHTLY GREASE ANY WING PINS, SOCKETS, INTERCONNECTS ETC.

- \* POSITION TILTABLE WING DOLLY IN AREA DIRECTLY BEHIND TRAILER IN ORDER THAT THE LEFT WING BE PLACED DIRECTLY ON IT.
- \* UNBOLT (BOTH FRONT AND REAR), LEFT WING DOLLY ASSEMBLIES FROM TRAILER FRAME & REMOVE LEFT WING FROM TRAILER, UNBOLT / REMOVE THE TRAILER DOLLIES FROM THE LEFT WING & PLACE ON TILTABLE WING DOLLY (DOLLY SHOULD BE POSITIONED APPROXIMATELY AT WING BALANCE AREA, WHICH IS APPROXIMATELY (3) THREE FEET OUTBOARD OF SPOILER BAY). RETIRE BOTH TRAILER DOLLIES FROM THE LEFT WING TO THE RIGHT SIDE OF THE TRAILER IN THE VICINITY OF THE FUSELAGE DOLLY.
- \* RELOCATE LEFT WING TO AREA OF ASSEMBLY & ALIGN WING FORK, WITH FUSELAGE BOX (DO NOT ATTEMPT TO INSTALL WING AT THIS TIME!!!)
- \* POSITION ADJUSTABLE (HEIGHT) STAND INTO AREA WHERE LEFT WING WILL BE MOUNTED IN FUSE. (THIS SHOULD BE APPROXIMATELY (1) ONE FOOT INBOARD OF THE OUTBOARD AILERON BREAK, AT THE WING TIP.

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- \* TAKE A BREAK, & REVIEW WHAT YOU HAVE ACCOMPLISHED THUS FAR! (FOR YOU ARE NOW READY TO INSTALL THE LEFT WING!)
- \* WITH ONE PERSON ON THE WING TIP, AND ANOTHER AT THE WING ROOT, A THIRD PERSON IS EXTREMELY HELPFUL (BUT NOT NECESSARY) AND WOULD BE POSITIONED AT THE "TILTABLE WING DOLLY". THE PURPOSE OF THIS PERSON IS TO ASSIST IN THE ROTATION OF THE WING, AND WHEN THE FORK IS BEING FITTED INTO THE FUSELAGE, THIS PERSON REMOVES THE "TILTABLE DOLLY" FROM THE WING; TO AN AREA AWAY FROM THE ASSEMBLY PROCEDURE. THE COMMAND "ROTATE" IS GIVEN, THE WING IS TILTED AND THE FORK IS INSERTED INTO THE WING BOX, AND ALIGNED ON THE WING PINS, AND PUSHED TO APPROXIMATELY (1) ONE INCH OF ITS FINAL POSITION. THE WING DOLLY IS REMOVED FROM THE LEADING EDGE (AND REPOSITIONED FAR ENOUGH AWAY NOT TO CAUSE DAMAGE SHOULD IT ACCIDENTALLY TIP OVER) AND THE ADJUSTABLE STAND IS PLACED IN ITS POSITION AT THE WING TIP.
- \* REPEAT THE ABOVE PROCEDURE FOR THE RIGHT WING USING THE TRIPOD STAND IN LIEU OF THE ADJUSTABLE STAND.

- \* WITH BOTH WING ROOTS APPROXIMATELY (1) ONE INCH OFF THE FUSELAGE, USE THE WING TOOL TO PULL THE WINGS TOGETHER. (A WING TIP MAY HAVE TO BE RAISED, LOWERED, OR WIGGLED TO ACCOMPLISH THIS TASK.)
- \* USING THE SPECIAL TOOL, INSERT THE WING PIN THROUGH THE ALIGNMENT HOLES IN THE WING FORK. (AGAIN, A WING TIP MAY HAVE TO BE RAISED OR LOWERED TO ACCOMPLISH THIS.) INSERT THE SAFETY PIN, & ITS SAFETY THROUGH THE FUSE. ALIGNMENT LUG & THE HOLE IN THE WING PIN.
- \* INSERT THE AILERON CONNECT PINS THROUGH THE BELLCRANKS, AFTER THE AIRLON PUSHROD HAS BEEN ALIGNED PROPERLY & CLOSE THE FUSE. DOORS.
- \* REMOVE THE ELEVATOR THROUGH BOLT SAFETY CATCH, UNSCREW THE BOLT ON THE LEFT SIDE OF THE VERT. STAB., AND REMOVE THE ELEVATOR CARRY THROUGH BOLT. (AGAIN THESE MAY BE PLACED IN THE COCKPIT FLOOR, WHILE AT THE COCKPIT SECURE THE STICK IN THE FULL AFT POSITION USING THE SEAT BELTS AS A LOCKING DEVICE.)
- \* INSTALL THE ELEVATOR (TRAILING EDGE DOWN) & REINSERT THE ELEVATOR THROUGH BOLT, & SAFETY CLIP.
- \* INSTALL THE SEAT BACK IN THE PROPER POSITION.
- \* INSTALL CANOPY.
- \* CLIMB-IN & EXECUTE A POSITIVE CONTROL CHECK.

GREEN AIR!!!!!!!!!!!!!!

ATAB "1"