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Muniter SA317250

Causey Aviation Services, Inc. 6120 Smithwood Road Liberty, NG 27298

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Anginad Bredneb -- Topka (Exwisteates November: 2013) Plper

County Design Changes. Replacement of Piper stabilator, trim barrel 2/H 63530-000) with Gausey Aviation stabilator trim barrel (Causey Aviation 63530-100) os shown on Causey Aviation Drawing L-1, Rev. Original dated

Make: See Continuation Sheet

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Date of Affiliations September 3, 1991

Barch 5, 1992

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natiment of Transportation—Federal Abation Administration ilemental Type Certificate

(Continuation Siret)

Number 51317250

Hodel eligibility

of Me Clv11 Air

PA-28-140, S/M 28-20657 and up and earlier S/N's if kit 756-896 has been installed.

PA-28-150, -160 and -180, S/N 28-2172 and up.

PA-28-235, S/N 28-10606 and up.

EA-28R-180, S/N 28R-30005 to 28R-30681 inclusive and 28R-30683 and up.

FA-28R-200, S/N 28R-30482, 28R-35001 and up.

'All EA-28-151, -161, -181, -236, -2017 Series

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Model: PA-32, 3ZR, Sarian

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This enrighants may be transferred in exceedance with FAR 21.45.

Trim Barrel P/N CA63530-100 Replaces: Piper p/n 63530-000 PMA PRODUCTS, INC. ELIGIBILITY FAA - PMA

Piper: PA28-140 S/N 28-20657 and up earlier S/N's if kit 756-896 has been installed

PA28-150, -160, and -180 S/N 28-2172 and up PA28-235 S/N 28-10606 and up.

PA28R-200 S/N 28R-30482, 28R-35001 and up. PA28R-180 S/N 28R-30005 to 28R-30481 inclusive, and 28R-30483 and up.

All PA28R-201 / 201T series All PA28-151, -161, -181, -236, -201Tseries

All PA32, PA32R, PA32S, and PA32RT series

weight change series aircraft. Only first time installation requires a 337 form. There is no series aircraft and STC SA3159SO for PA32, PA32R, PA32S, and PA32RT This part is to be installed under STC SA3172SO for PA28 and PA28R

CA63530-100 (ref. Fig. L1-2 and L1-3) Replacement of Stabilator Trim Barrel for PMA Products, Inc. p/n

- are side by side. Remove the access panel to the aft section of the fuselage. Operate trim system until turnbuckles
- in the aft section of the fuseiage by a method shown in Fig. L1-3. 2. Block the trim cables at the first set of pulleys (33) forward of the cable turnbuckles (10 and 11)
- 3. Loosen the cable (12) at the turnbuckles (10 and 11) in the aft section of the fuselage two full
- Remove the tail cone by removing its attaching screws.
- the nut, washer, and bolt (24) that connects the link to the screws. 5. Disconnect the link (25) between the trim screw (23) and the trim control arm (28) by removing
- barrel (20), counting the number of turns to remove, and record for reinstallation later. 6.Remove the cotter pin from the top of the screw (23), and turn the screw down and out of the
- 7. Remove the snap ring (32), washer (31), and thrust washer (30) from the bottom of the barrel
- Disconnect the diagonal rib (22) from the horizontal rib (16) that supports the trim assembly by removing the four attaching nuts, washers, and bolts.
- Remove the barrel (20) from its supports, pulling aft to maintain slight tension on the cables.
- alternating from top to bottom, and counting the number of turns (wraps) until the barrel is completely unwrapped. Remove cable from diagonal slots. 10. While maintaining cable tension, unwrap the cable from the barrel, one turn at a time.
- old barrel and replace with a new p/n CA63530-100 at the same place on the cable. 11. Keeping a finger on the cable at the top of the vertical slot for reference, completely remove the
- 12. With a shop towel or rag, check entire length of exposed cable for broken wires. If broken wires are found, replace cable (ref. appropriate maintenance manual.
- should be 23 wraps on the barrel as viewed from the side opposite the slot and with the cables extending out from the slotted side. 13. Rewrap new trim barrel using reverse procedure of #10 above. When fully wrapped, there
- ribs. Attach the bottom diagonal rib (22) to horizontal rib (16) and secure with bolts, washers, and 15.Lubricate the bushings and install the trim barrel (20) in the bushings between the two support 14. Ascertain that the barrel bushings (19 and 29) are installed in the rib plate (17) and clip (21).
- 16. Install the thrust washer (30), washer (31), and snap ring (32) on the lower end of the barrel
- each end with a cotter pin through the screw. Reinstall connecting hardware removed in step #5. 17. Install the trim screw (23) into the barrel (20) the same number of turns as removed and secure
- 18. Retighten both turnbuckles the number of turns that were loosened
- Safety all turnbuckles and install tail cone and access panel Set cable tension and check rigging and adjustment per the appropriate maintenance manual

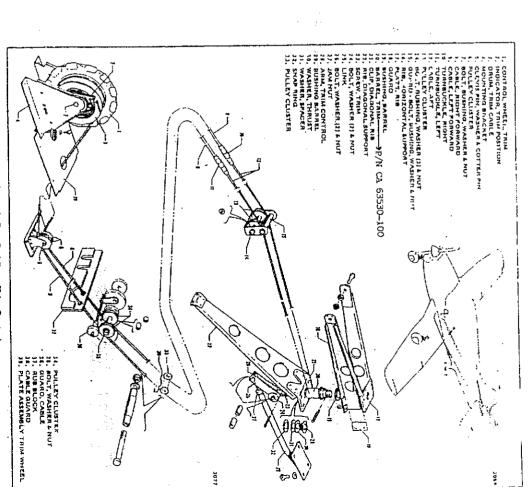


Fig. L1-2 Stabilator Trim Controls

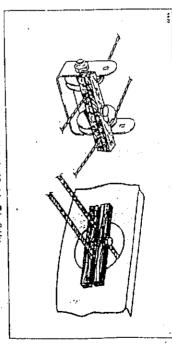


Fig. LL-3 Methods of Securing Trim Cables