

Rockwell custom kit International

No. CK-AG-19

P.O. BOX 3090 ALBANY, GEORGIA 31706-3090 PHONE 229/883-1440 FAX 229/439-9790

Custom Kit CK-AG-19
December 8, 1980

PERMANENT BALLAST INSTALLATION

MODELS AFFECTED: MODEL S-2R-T34, S/N T34-033DC and subsequent, MODEL S-2R-T15 S/N T-15-010DC and subsequent, MODEL S2R-T11 S/N T11-004DC and subsequent

REASON FOR PUBLICATION: This kit will provide operators with a permanent ballast to allow full utilization of the dual cockpit passenger/cargo compartment for the turbine powered airplane.

COMPLIANCE: At owner's discretion

NOTE

If any problems are encountered while installing this kit, contact your nearest Ayres Thrush Dealer.

BY WHOM WORK WILL BE ACCOMPLISHED: A & P Mechanic or equivalent

APPROVAL: FAA DER Approved

ESTIMATED MAN HOURS: Sixteen (16) manhours

PARTS DATA: Parts required to comply with this Custom Kit may be obtained from your nearest Ayres Thrush Dealer at no cost. Reference this Custom Kit, aircraft model and factory serial number when ordering Custom Kit No. CK-AG-19 consist of the following:

<u>Qty</u>	<u>Part No.</u>		<u>Description</u>
1 ea.	60361-2	8002990	Lead Ballast-Left Side
1 ea.	60361-1	8002989	Lead Ballast-Right Side
1 ea.	60361-3	8002991	Lead Ballast-Center
2 ea.	AN5-40A	8500526	Bolt
12 ea.	AN970-5	1588000	Washer
12 ea.	AN363-524C	0055340	Nut
2 ea.	AN5-44A	0704605	Bolt
2 ea.	AN5-42A	0704600	Bolt

2 ea.	AN5-36A	8500524	Bolt
2 ea.	AN5-37A	8500525	Bolt
2 ea.	AN5-35A	8500523	Bolt
AR	AN960-516	1537000	Washer
1 ea.	60362		Ballast Installation Drawing
1 ea.	CK19-1	8002997	Duct Plug
1 ea.	CK19-F1		Weight and Balance Form

SPECIAL TOOLS: None

ACCOMPLISHMENT INSTRUCTIONS:

1. Remove the forward and the center cowlings.
2. Remove the cannular inlet coverings, which consist of 4 pieces.

CAUTION

Plug the lower air induction duct with P/N CK19-1 DUCT PLUG to prevent shavings, chips, washers and so forth from falling into the induction duct.

3. Remove the lead shot from the ballast tank by removing the lower plug. Save the lead shot because it must be reinstalled after the permanent ballast has been put in position.
4. The permanent ballast is to be attached to the existing ballast tank per Drawing 60362.

CAUTION

When drilling the ballast tank, be careful not to damage the engine, the Engine components, the airframe, the electrical components, and so forth.

5. Reinstall the lower plug in the ballast tank and resafety wire.
6. Remove the upper plug from the ballast tank and replace the lead shot was removed in Step 3.
7. Reinstall the upper plug and resafety wire.
8. Remove P/N CK19-1 DUCT PLUG from the lower air induction duct and check the duct for any foreign objects.
9. Reinstall the cannular inlet coverings.
10. Reinstall the forward and the center cowlings.
11. Determine the New Certificated Empty Weight by using the form CK19-F1.
12. Add the completed form CK19-F1 to the A/C Weight and Balance Report. This form is now considered as part of that Report.

ELECTRICAL LOAD: No change

WEIGHT AND BALANCE: See Accomplishment Instructions Step 11 and Step 12.

PUBLICATIONS AFFECTED: None

AIRCRAFT RECORDS: Make appropriate entry in airplane permanent maintenance records as follows: Custom Kit N0. CK-AG-19 dated December 8, 1980, entitled "Permanent Ballast Installation", accomplished (date).

AIRCRAFT WEIGHT AND BALANCE REPORT

- S-2R-T11 DUAL COCKPIT INSTALLATION
- S-2R-T15 DUAL COCKPIT INSTALLATION
- S-2R-T34 DUAL COCKPIT INSTALLATION

AYRES TURBO THRUSH

PERMANENT BALLAST INSTALLATION

This Form is to be used to correct the Airplane Certified Empty Weight so that it will include the Permanent Ballast which is supplied with this kit.

WEIGHT AND BALANCE CORRECTION

ITEM	WEIGHT (pound)	ARM (inch)	MOMENT (in.-lb.)
Certified Empty Weight From the original A/C factory supplied Weight and Balance Report			
Permanent Ballast Kit	145	-68	-9860.0
Revised Certified Empty Weight			

NOTE

A sample AFT Center of Gravity check should be made to assure that the A/C is within the Certificated C.G. range at a Gross Weight of 6000 pounds.

The completed Form must be added to the aircraft records as a permanent part of the Weight and Balance Report.

Date _____ BY _____