



# KELLY AEROSPACE

## Thermal Systems

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Project Number:  
Title: 182S, 182T and T182T Back-up Alternator System  
Weight and Balance  
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## Revisions

Rev.	Description	Author	Date	Approved
A	Initial Release	EP	5/12/08	EP
B	Addition of T182T Information	EP	9/17/08	EP
C	Addition of 182S Information	EP	8/4/10	EP

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## 1.0 WEIGHT AND BALANCE SUMMARY

The Back Up Alternator System has 1 possible kit for each aircraft model. Weight and Balance for the kits was determined through kit weight measurement, initial weighing and final weighing of the aircraft with approved calibrated scales

### 1.1 Aircraft Model 182T

Kit Number KATS 08-002 includes all back up alternator system components for the 182S and 182T. This kit would be installed in conjunction with air conditioning kit KATS 08-003.

KATS 08-002 WEIGHT = 22.99 lbs.

KATS 08-002 MOMENT ARM = -32.55 in.

KATS 08-002 MOMENT = -748.48 in-lbs

### 1.2 Aircraft Model T182T

Kit Number KATS 08-005 includes all back up alternator system components for the T182T. This kit would be installed in conjunction with air conditioning kit KATS 08-006.

KATS 08-005 WEIGHT = 23.18 lbs.

KATS 08-005 MOMENT ARM = -32.58 in.

KATS 08-005 MOMENT = -755.32 in-lbs

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