

USBF Example solutions

A solution for a blade which is 106in-lbs heavier than Spec

Location: HELI
 Operator: BLOGGS
 Date: 02/26/2002
 Time: 14:10:35
 Blade Type: UH1H
 Serial Number: AMR52677
 S-M=28972 S-CG=142.39 WGT=203.47
 C-M=112 C-CG=0.548
 UserTipChord 4.92
 Remove 5.82 Oz from "A12"
 Remove a "022-3 Retainer"
 Remove 3 "021-1 Weight"s
 Remove a "AN970-4 Washer"
 Remove 4 "AN960PD416"s
 Add 6.08 Oz to "A34"
 Add a "043-5 Retainer"
 Add 2 "025-1 Weight"s
 Add 2 "043-5 Ret/Wgt"s
 Add a "AN970-4 Washer"
 Add 2 "AN960PD416"s
 Remove 8.54 Oz from "B"
 Remove a "27-115 Retainer"
 Remove 2 "27-1 Weight"s
 Remove 5.30 Oz from "C12"
 Remove a "267-3 Retainer"
 Remove 5 "267-3 Ret/Wgt"s
 Remove a "043-5 Ret/Wgt"
 Remove a "-269-1 Washer"
 Remove a "AN960PD416"
 Predicted values after adjustment
 S-M=28866 S-CG=142.46 WGT=202.62
 C-M=105 C-CG=0.518

Adjustments by part number & mass to remove or add to which approved station

Current Span /Chord Moment, CofG, & Mass

A solution for a blade which is close to "Field" Specs but take a small adjustment if being overhauled

Location: HELI
 Operator: ALAN
 Date: 03/27/2002
 Time: 09:46:53
 Blade Type: SH60
 Serial Number: A237-01160
 SM=35789InLb SCG=173.70In W=206.05Lb
 CM=1177InLb CCG=5.711
 Good blade by Field requirements.
 Depot tolerances require:
 Add 0.56 Oz to "span wghts"
 Add a "-103"
 Add 3 "AN960-516L"s
 Predicted values after adjustment
 SM=35800InLb SCG=173.72In W=206.08Lb
 CM=1177InLb CCG=5.711