

Weight and Balance

N18MD

Beech D55 TE-455

11/5/2020

<u>Item</u>	<u>Weight</u>	<u>Arm</u>	<u>Moment</u>
<i>Aircraft Configuration: Six seats installed, full alcohol de-ice onboard</i>			
Aircraft Former Empty Weight	3419.65	78.85	270076.30
Remove 4 x Hoses for Factory Fuel Gauge	-2.34	37.00	-86.58
Remove Dual Control Arm	-10.60	68.00	-720.80
Remove Factory Fuel Pressure Gauge	-1.20	58.50	-70.20
Install Single Control Arm	3.90	68.00	265.20
Install Shadin Fuel Flow Gauge	1.00	58.50	58.50
New Aircraft Empty Weight	3410.41	79.03	269522.42

<i>Alternate Configuration: Five seats installed, full alcohol de-ice onboard</i>			
Aircraft Standard Configuration Empty Weight	3410.41	79.03	269522.42
Remove seat six from third row	-12.20	152.00	-1854.40
Configuration Two Empty Weight	3398.21	78.77	267668.02

<i>Alternate Configuration: Four seats installed, full alcohol de-ice onboard</i>			
Aircraft Standard Configuration Empty Weight	3410.41	79.03	269522.42
Remove third row seat hardware and safety belts	-1.00	152.00	-152.00
Remove seat five from third row	-12.20	152.00	-1854.40
Remove seat six from third row	-12.20	152.00	-1854.40
Configuration Three Empty Weight	3385.01	78.48	265661.62

<i>Alternate Configuration: Six seats installed, no alcohol de-ice onboard</i>			
Aircraft Standard Configuration Empty Weight	3410.41	79.03	269522.42
Remove 3 gallons isopropyl alcohol	-21.00	13.25	-278.25
Configuration Four Empty Weight	3389.41	79.44	269244.17

<i>Alternate Configuration: Five seats installed, no alcohol de-ice onboard</i>			
Aircraft Standard Configuration Empty Weight	3410.41	79.03	269522.42
Remove 3 gallons isopropyl alcohol	-21.00	13.25	-278.25
Remove seat six from third row	-12.20	152.00	-1854.40
Configuration Five Empty Weight	3389.41	78.89	267389.77

<i>Alternate Configuration: Four seats installed, no alcohol de-ice onboard</i>			
Aircraft Standard Configuration Empty Weight	3410.41	79.03	269522.42
Remove 3 gallons isopropyl alcohol	-21.00	13.25	-278.25
Remove third row seat hardware and safety belts	-1.00	152.00	-152.00
Remove seat five from third row	-12.20	152.00	-1854.40
Remove seat six from third row	-12.20	152.00	-1854.40
Configuration Six Empty Weight	3364.01	78.89	265383.37