Interior Upgrade Systems

Electronic bin latching system shown
As new types of aircraft are introduced to the flying public, and current offerings such as the Next-Generation B737 have their OEM interiors upgraded, existing airplanes with aging interiors fall short of satisfying passenger expectations by comparison. Travelers who fly often prefer interiors with pivot bins, such as those found on newer airliners, but these bin systems are usually expensive to retrofit into older aircraft with stock OEM shelf bins.

To solve this problem, we’ve designed a PBI (Pivot Bin Interior) with a unique bin configuration that fits in standard 80” modules, making it a cost effective option for B737NG and B757NG operators to implement. Due to Project Amber’s deep pivot bin design, passengers can stow up to seven roller bags transversely on their sides, in two bins, per 80” module. This is great news for airlines who want to significantly increase baggage capacity in the cabin, and especially so for those flying the latest B737NG with the Boeing Sky Interior, who want to offer a similar overhead stowage system across their narrow-body Boeing fleet.

But that’s not all she has to offer. Amber’s pivot bins are complemented by an interior upgrade system that includes electronic bin latching and bin assist systems, half-oval lowered ceilings, modern styled PSUs, sculpted sidewalls with wider looking reveals, and a LED mood lighting system that provides a continuous wash of light along the cabin.

Are you ready to WOW your frequent flyers and gain loyalty from new passengers? **Amber is your answer.**

**Key Features**

- Bin capacity for roller bags will increase by up to 86 bags per aircraft (based on a target customer’s LOPA)
- New lowered ceilings, pivot bins, PSUs, sidewalls, and LED lighting will give the cabin a contemporary appearance
- The spacious interior provides easier access to seats
- Bin loading/unloading is improved due to no internal hinges
- Electronic bin systems improve safety and reduce work
- LED fixtures offer efficiency and mood lighting effects
- New PSUs offer a better control layout for passengers

You want passengers to choose your brand every time. Travelers want a great flying experience. We’ve read the blogs, listened to the airlines, and have done our research. We’d like to introduce everyone to Project Amber.
An Odd Pairing Yields High Performance

For every 80" module, two pivot bins are configured in a 33" by 47" arrangement. This allows passengers to stow roller bags transversely on their sides with three bags in one bin, and four bags in the other. The pivot bins also feature an electronic latching option, which allows the crew to open all overhead bins simultaneously in preparation for boarding, as well as lock them in the closed position during TTOL (Taxi, Take Off, and Landing), all at the touch of a button. In addition, a bin assist system is offered to help passengers close heavy bins with minimal effort.

Passenger Service Units

A new PSU has been designed with the FA call button located away from the other switches. This will help to reduce accidental activation. For aircraft with 9" IFE monitors installed, they can be retrofitted into the new PSUs. The final design is subject to change based on airline feedback.
Interior Components

Architecture, Furnishings & More
We’ve listed everything below that you need to upgrade your B737/B757 with Project Amber. Often, when the architecture is upgraded, customers may want new furniture, seats, and IFE to really make over the cabin, and require assistance with getting a STC too. If you’re looking for a partner who can design and build cabin furnishings, engineer your seat and IFE installation, as well as provide certification, look no further than HT.

Baseline Kit
» Half-oval lowered ceilings with light fixtures
» Overhead stowage bin valances
» 80” support modules
» Pivot bins and actuation hardware
» End fillers and end caps as needed
» Passenger service units

Optional
» Electronic bin latching system
» Electronic bin assist system
» New drop down 9” monitors for the PSUs
» Sidewall panels with new window reveals
» Overwing exit door linings
» LED fixtures and mood lighting controls

Salvageable
» Ceiling panels (reworked) and air outlet nozzles
» Ceiling and sidewall wash light systems
» Bin supports (where possible)
» PSU monitors, hinges, and latches
» OEM sidewalls and air outlet rails
» Overwing exit door linings
» Dado panels

Need a STC? We’re certification experts

LED Fixtures & Mood Lighting
If LED fixtures are chosen, they will operate longer and burn cooler than incandescent lights. They will also reduce maintenance and offer mood lighting effects if color LEDs are specified.

Project Amber Prototype
We’ve built a prototype to give airline customers a feel for the interior architecture, as well as to demonstrate the electronic bin latching system and bin assist system.
B737-800NG Interior

Project Amber Interior

Courtesy of Altair78 & Cweyer | Wikipedia

COMPARE

OEM sidewall: 20 + years old design

Project Amber sidewall: contemporary design

rectilinear reveals date the OEM sidewall

wide looking reveals invite the eyes outward

Pivot bins will make the cabin feel more open

www.heath.com
**You Choose a Stowage Style**

Heath Tecna is currently optimizing Project Amber’s bin design by making it deeper, which will allow passengers to stow roller bags in the transverse position with wheels down or with bags stowed on their sides. A wheels down stowage style will yield 110 roller bags per 737-800NG aircraft, while a side stowage style will afford an astounding 156 roller bags per cabin.

**Table Notes**

- (1) Measured at 9” above base panel
- (2) Standard 22” roller bag (10 x 14 x 24)
- (3) Based on a target customer LOPA
- (4) All Boeing Sky Interior figures are estimates

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**TECHNICAL DATA REVIEW**

<table>
<thead>
<tr>
<th>Measurable Characteristic</th>
<th>Boeing NG Small Bin (80”)</th>
<th>Boeing NG Big Bin (80”)</th>
<th>Project Amber Pivot Bins (33” + 47”)</th>
<th>BSI (4) Pivot Bin (60”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door Length</td>
<td>39.7</td>
<td>39.7</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Shelf Width</td>
<td>25.9</td>
<td>28.6</td>
<td>25</td>
<td>23.5 Flat</td>
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<tr>
<td>Bin Depth (1)</td>
<td>22.7</td>
<td>20.4</td>
<td>26</td>
<td>25.8</td>
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<tr>
<td>Shelf Length</td>
<td>78.7</td>
<td>78.7</td>
<td>30 + 44</td>
<td>56.75</td>
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<tr>
<td>Area</td>
<td>297 in²</td>
<td>328 in²</td>
<td>380 in²</td>
<td>348 in²</td>
</tr>
<tr>
<td>Volume</td>
<td>13.5 ft³</td>
<td>14.9 ft³</td>
<td>6.7 + 9.8 ft³</td>
<td>11.4 ft³</td>
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<tr>
<td>Cabin Bin Volume</td>
<td>309 ft³</td>
<td>342 ft³</td>
<td>378 ft³</td>
<td>350 ft³</td>
</tr>
<tr>
<td>Bin Capacity: Bags (2)</td>
<td>3</td>
<td>5</td>
<td>3 + 4</td>
<td>4</td>
</tr>
<tr>
<td>Cabin Capacity: Bags (2)(3)</td>
<td>70</td>
<td>110</td>
<td>156</td>
<td>114</td>
</tr>
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Redefining the Experience of Flight