



# **PINNACLE<sup>®</sup> 1047191 SERIES PASSENGER SEATS FOR ACLL / POBEDA AIRLINES B737-800 AIRCRAFT**

## **PART NUMBERS**

<b>1047191-001</b>	<b>1047191-005</b>	<b>1047191-009</b>	<b>1047191-015</b>
<b>1047191-002</b>	<b>1047191-006</b>	<b>1047191-010</b>	<b>1047191-016</b>
<b>1047191-003</b>	<b>1047191-007</b>	<b>1047191-011</b>	<b>1047191-101</b>
<b>1047191-004</b>	<b>1047191-008</b>	<b>1047191-012</b>	<b>1047191-102</b>

## **COMPONENT MAINTENANCE MANUAL WITH ILLUSTRATED PARTS LIST**

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SERVICE BULLETIN LIST

Service Bulletins (SBs) are B/E Aerospace engineering documents that authorize customers to modify B/E seating products. B/E Aerospace files all Service Bulletins with the Federal Aviation Administration (FAA).

All Service Bulletins that direct mandatory implementation will be incorporated into the Component Maintenance Manual (CMM). Optional Service Bulletins are implemented at the discretion of the customer. B/E Aerospace will incorporate only those optional Service Bulletins that the customer informs us have been implemented. Incorporation can occur in two ways:

- A. Scheduled CMM Revision - B/E Aerospace incorporates part number changes, Service Bulletins and other customer-requested changes into the next scheduled CMM revision.
- B. Temporary Revision - Part number changes that occur between scheduled CMM revisions are addressed by Temporary Revisions. These Temporary Revisions are minimal in nature and are designed to facilitate procurement of correct parts. Temporary Revision changes are incorporated in the next scheduled CMM revision.

SB NUMBER	REV	TITLE	DATE	DATE INCORPORATED

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INTRODUCTION

1. Purpose and Scope of This Manual

This Component Maintenance Manual (CMM) contains descriptive information, maintenance procedures, and an Illustrated Parts List (IPL) for ACLL / Pobeda Airlines B737-800 aircraft equipped with Pinnacle® 1047191 Series passenger seats manufactured by B/E Aerospace, Seating Products Group, 190 Oak Plaza Blvd, Winston-Salem, North Carolina 27105.

The CMM user can verify at any time whether the CMM in hand is the current revision and if there are any TRs (Temporary Revisions) issued to it by going to the public B/E Aerospace CMM Index online at: <http://beaerospace.com/technical-publications-index>.

2. Maintenance Concept

A. This CMM supports seat maintenance activities that may be reasonably done by first-tier maintenance personnel. This includes routine servicing and maintenance needed to maintain the B/E Aerospace seating system in a satisfactory operating condition throughout its life cycle. Areas addressed in this CMM include the following:

- (1) Required inspections and checks designed to ensure safety and operational readiness.
- (2) Fault isolation procedures for identifying components that may need adjustment or replacement.
- (3) Step-by-step disassembly and assembly instructions enabling technicians to remove and replace line-replaceable assemblies.
- (4) Commonly recurring adjustment and repair procedures.
- (5) Required tools and equipment.
- (6) Tolerances and torque values.
- (7) Detailed illustrations of the major assemblies and installations, with listings of all procurable items replaceable within the scope of the maintenance instructions.
- (8) Information regarding the incorporation of Service Bulletins/Letters.

B. This CMM does **not** support the repair of riveted, welded, or bonded assemblies. Repair of these types of assemblies can lead to a loss of structural integrity. Since these assemblies have very low incidences of failure under normal operating conditions, they are treated as the lowest replaceable assemblies in the maintenance concept for this seat.

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3. Arrangement of This CMM

This CMM is arranged in the following sections to facilitate the presentation of maintenance instructions.

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4. List of Abbreviations

The following abbreviations may be used in this CMM:

ABBREVIATION	EXPANSION
A/C	Aircraft
AAIR®	AmSafe Aviation Inflatable Restraint
ACOU	AC Outlet
AR	As Required
A/R	Armrest
ASSY	Assembly
AUH	Active USB Hub
AUX	Auxiliary
B/C	Business Class
BK	Back
BMDH	Back-Mounted Device Holder
BMFT	Back-Mounted Foodtray

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ABBREVIATION	EXPANSION
B/O	Breakover
BTM	Bottom
CCR	Credit Card Reader
CFE	Customer-Furnished Equipment
CRES	Corrosion Resistant Steel
CSK	Countersunk
CTR	Center
DBL	Double
DET	Detailed
DET BKDN	Detailed Breakdown
DPCU	Digital Passenger Control Unit
DSEBI	Digital Seat Electronics Box Interface
E/B	Endbay
EEPL	Emergency Escape Path Light
EFF	Effectivity
EMA	Electronic Module Assembly
EMI	Electro-Magnetic Interference
ENVIR	Environmental
EPL	Emergency Path Light
ESDS	Electrostatic Discharge Sensitive
FB	Fireblocking
FBL	Fireblocking Layer
F/C	First Class
FH	Firehard
FIG	Figure
FLDG	Folding
F/R	Front Row
F/T	Foodtray
FT-LB	Foot-Pounds
FWD	Forward
GND	Ground (Electrical)
HCEB	Handicapped Endbay
HD	Head

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ABBREVIATION	EXPANSION
HEX	Hexagonal
HIC	Head Injury Criteria
HMAR	Hatch-Mounted Armrest
IAFT	In-Arm Foodtray
IAT	In-Arm Table
IAV	In-Arm Video
I/B	Inboard
ICA	Instructions for Continued Airworthiness
IFE	In-Flight Entertainment
INBD	Inboard
IN-LB	Inch-Pounds
INSTL	Installation
IPL	Illustrated Parts List
ISPS	In-Seat Power Supply
LCD	Liquid Crystal Display
LED	Light Emitting Diode
LH	Left Hand
LIT	Literature
LK	Lock
LKG	Locking
LRU	Line-Replaceable Unit
LT	Light
LWR	Lower
MC	Mechanical Lock
MECH	Mechanical
MUX	Multiplexer
N/A	Not Applicable
NC	Not Connected
NHA	Next Higher Assembly
NP	Non-Procurement
NRW	Narrow
O/B	Outboard
OEM	Original Equipment Manufacturer

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ABBREVIATION	EXPANSION
OUTBD	Outboard
PAX	Passenger
PCP	Passenger Computer Power
PCU	Passenger Control Unit
P/N	Part Number
PMU	Passenger Media Unit
PNP	Plug-N-Play
PPUI	PC Power Use Indicator
PROX	Proximity
PVT	Pivot
PWR	Power
QAM	Quadrature Amplitude Modulation
QR CODE	Quick Response Code
QUAD	Quadruple
QUINT	Quintuple
REC	Recline
REF	Refer To
RF	Reference Only
RFID	Radio Frequency Identification
RH	Right Hand
RJU	Remote Jack Unit
RR	Rear
RTN	Return
SACS	Seat Actuation Control System
SAO	Seating Aftermarket Operations
SB	Service Bulletin
SCF	Scarf
SDU	Seat Disconnect Unit
SDU	Super-high Display Unit
SEB	Seat Electronics Box
SEU	Seat Electronic Unit
SGL	Single
SL	Service Letter

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ABBREVIATION	EXPANSION
SLFLKG	Self-Locking
SSB	Settop Seat Box
STA	Stationary
STD	Standard
SUPSD	Superseded
SUPSDS	Supersedes
SVDU	Super Visual Display Unit
T/C	Tourist Class
T/N	Tool Number
TPL	Triple
TTL REQ	Total Required
U/O	Used On
ULP	Upper Literature Pocket
UPR	Upper
USB	Universal Serial Bus
USVS	Under Seat Video System
VDB	Video Distribution Box
VGS	Variable Geometry Seat
VSEB	Video Seat Electronics Box
W/	With
W/O	Without
WCU	Wireless Control Unit, WELS
WELS	Wireless Emergency Light System



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**DESCRIPTION AND OPERATION**

**1. Configuration**

The Pinnacle® passenger seats for ACLL / Pobeda Airlines B737-800 aircraft have been manufactured in 16 versions. The seat versions are listed in Table 1. The aircraft configuration is from the Envelope Drawing 1047036 and is shown in Figure 1.

Table 1  
ACLL / Pobeda Airlines B737-800 - 189-PAX Configuration (Envelope Drawing 1047036)  
Pinnacle® Passenger Seat Models

SEAT IDENT #	SEAT PART NUMBER	SEAT MODEL NUMBER	SEAT DESCRIPTION	SEAT WEIGHT (LBS)	SEAT QTY	SEAT VIEW ON DWG 36670
1	1047191-001	BE16.0-3-60	Seat Assembly, LH Triple, STD	74.6	23	A, D
2	1047191-002	BE16.0-3-60	Seat Assembly, RH Triple, STD	74.6	23	A, D
3	1047191-003	BE16.0-3-58	Seat Assembly, LH Triple, Narrow, Center and Outboard PAX	73.0	1	A, N
4	1047191-004	BE16.0-3-58	Seat Assembly, RH Triple, Narrow, Center and Outboard PAX	73.0	1	A, N
5	1047191-005	BE16.0-3-57	Seat Assembly, LH Triple, Narrow, No Back-Mounted Foodtray, 4.0" Recline	66.0	1	C, P
6	1047191-006	BE16.0-3-57	Seat Assembly, RH Triple, Narrow, No Back-Mounted Foodtray, 4.0" Recline	66.0	1	C, P
7	1047191-007	BE16.0-3-60	Seat Assembly, LH Forward Exit Triple, No Recline, 6.0" Sliding Back-Mounted Foodtray, One-Way Latch	74.0	1	A, D
8	1047191-008	BE16.0-3-60	Seat Assembly, RH Forward Exit Triple, No Recline, 6.0" Sliding Back-Mounted Foodtray, One-Way Latch	74.0	1	A, D
9	1047191-009	BE16.0-3-60	Seat Assembly, LH Exit Triple, No Recline, 6.0" Sliding Back-Mounted Foodtray, One-Way Latch, No Outboard Arm	74.6	1	T, R
10	1047191-010	BE16.0-3-60	Seat Assembly, RH Exit Triple, No Recline, 6.0" Sliding Back-Mounted Foodtray, One-Way Latch, No Outboard Arm	74.6	1	T, R

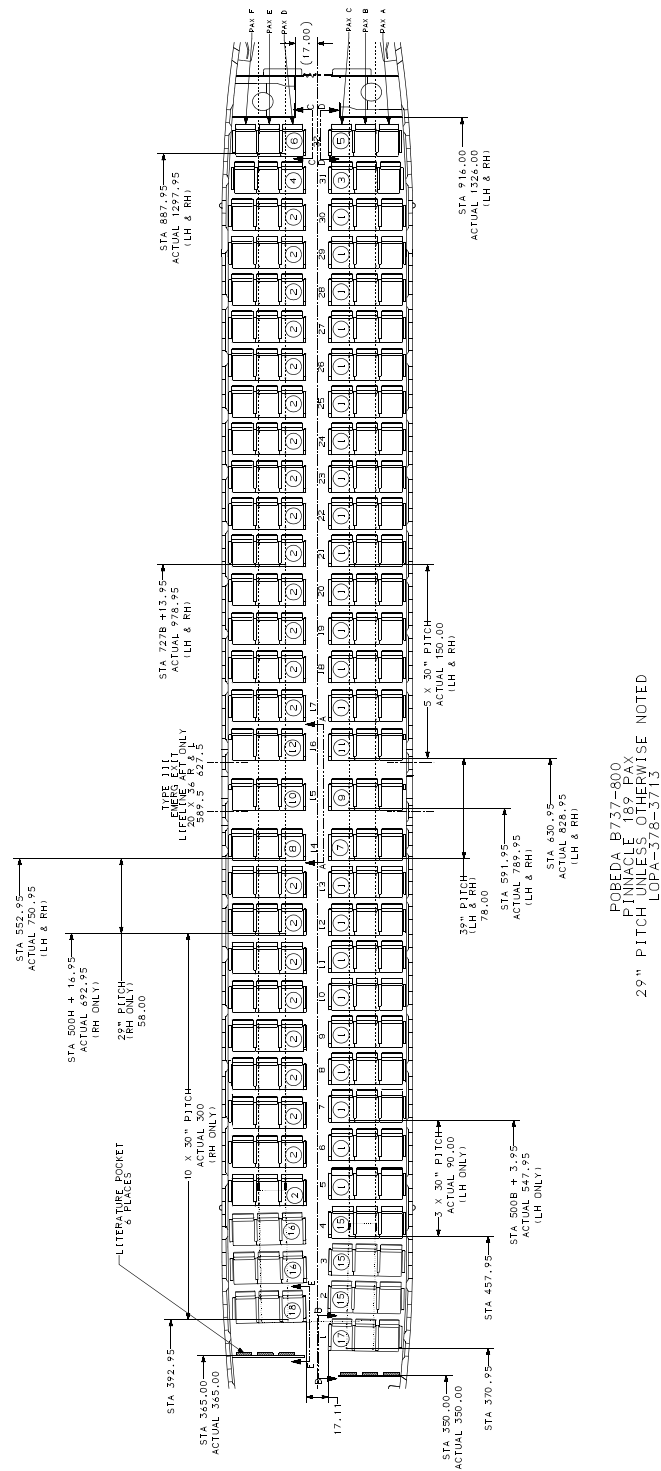
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Table 1 (Continued)  
ACLL / Pobeda Airlines B737-800 - 189-PAX Configuration (Envelope Drawing 1047036)  
Pinnacle® Passenger Seat Models

SEAT IDENT #	SEAT PART NUMBER	SEAT MODEL NUMBER	SEAT DESCRIPTION	SEAT WEIGHT (LBS)	SEAT QTY	SEAT VIEW ON DWG 36670
11	1047191-011	BE16.0-3-60	Seat Assembly, LH Aft Exit Triple, No Outboard Arm	75.0	1	T, R
12	1047191-012	BE16.0-3-60	Seat Assembly, RH Aft Exit Triple, No Outboard Arm	75.0	1	T, R
15	1047191-015	BE16.0-3-59	Seat Assembly, LH Triple, Offset, Narrow Outboard PAX,	74.0	3	A, G
16	1047191-016	BE16.0-3-59	Seat Assembly, RH Triple, Offset, Narrow Outboard PAX,	74.0	2	A, G
17	1047191-101	BE16.0-3-57	Seat Assembly, LH Triple, Front Row, Narrow, In-Arm Foodtray	96.4	1	B, F
18	1047191-102	BE16.0-3-57	Seat Assembly, RH Triple, Front Row, Narrow, In-Arm Foodtray	96.4	1	B, F

**NOTE:** All seat weights are in pounds, with a tolerance of  $\pm 3\%$ .

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ACLL / Pobeda Airlines B737-800 - 189-PAX Configuration (Envelope Drawing 1047036)  
 Figure 1

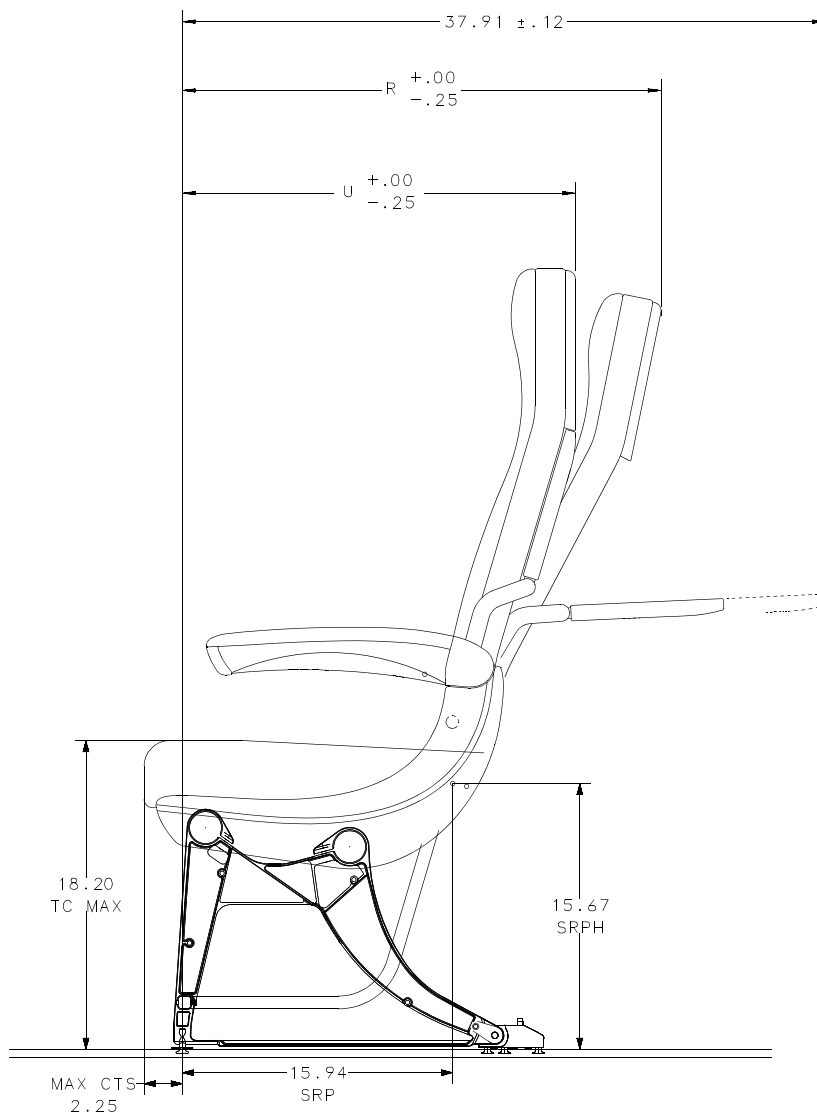
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2. Seat Dimensions

Figure 2 shows the seat dimensions from Envelope Drawing 1047036. Figure 3 shows the basic seat dimensions and installation information from Basic Dimension Drawing 36670. Some of the views in Figure 3 will not apply to the seats in this Component Maintenance Manual (CMM). Refer to the last column in the configuration table for the views from Basic Dimension Drawing 36670 that apply to your seats. Refer to Table 2 for Frame Assembly Dimensions. All dimensions are in inches unless noted otherwise.

NOTE: If there is a variation in the same dimension shown on both the Envelope Drawing and the Basic Dimension Drawing, the Envelope Drawing dimension takes priority.

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TYPICAL SIDE VIEW

TABLE 1 – SPECIAL RECLINE AND UPRIGHT SETTINGS				
SEAT PART NO.	RECLINE SETTING (REF)	UPRIGHT SETTING (REF)	DIM R	DIM U
STANDARD SETTING	5"	0"	28.20	23.20
1047191-005/-006NE01	4"	0.4"	26.80	22.80
1047191-007/-008NE01	0"	0"	23.20	23.20
1047191-009/-010NE01	0"	0.4"	22.80	22.80

Seat Dimensions (Envelope Drawing 1047036)  
Figure 2 (Sheet 1 of 7)

STA 589.50  
ACTUAL 787.50

23.20

13.35

13.80

.45

17.30  
MAX  
CUSHION  
HEIGHT  
O/B PAX

22.80

12.75

1.45

14.20

23.20

CTS MAX  
2.00

CTS MAX  
2.00

CTS MAX  
2.00

STA 552.95  
ACTUAL 750.95

STA 591.95  
ACTUAL 789.95

STA 630.95  
ACTUAL 828.95

STA 627.50  
ACTUAL 825.50

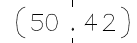
VIEW A-A

EXIT ROWS

**25-21-51**

**25-21-51**

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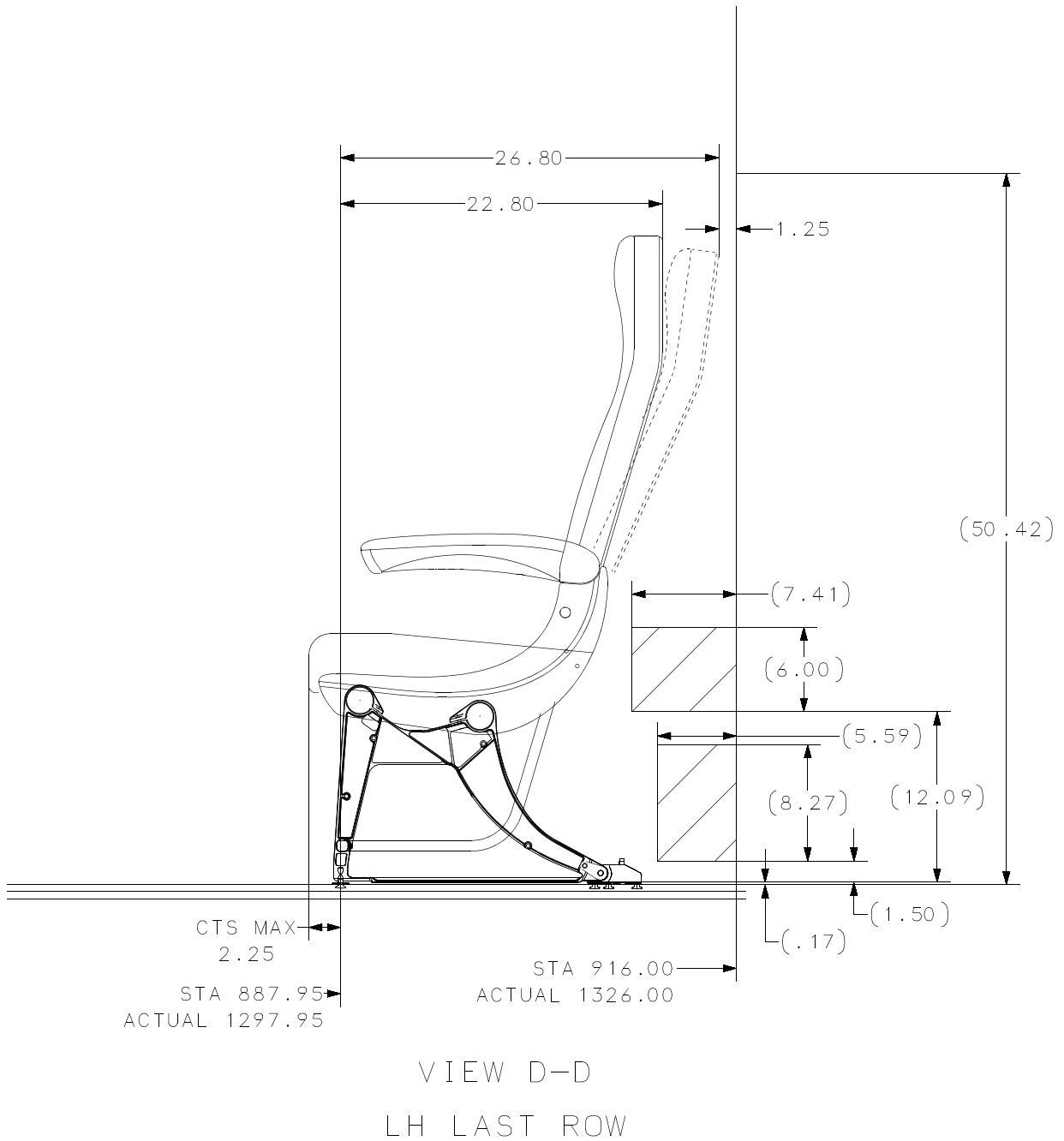


RH LAST ROW

Figure 2 (Sheet 4 of 7)

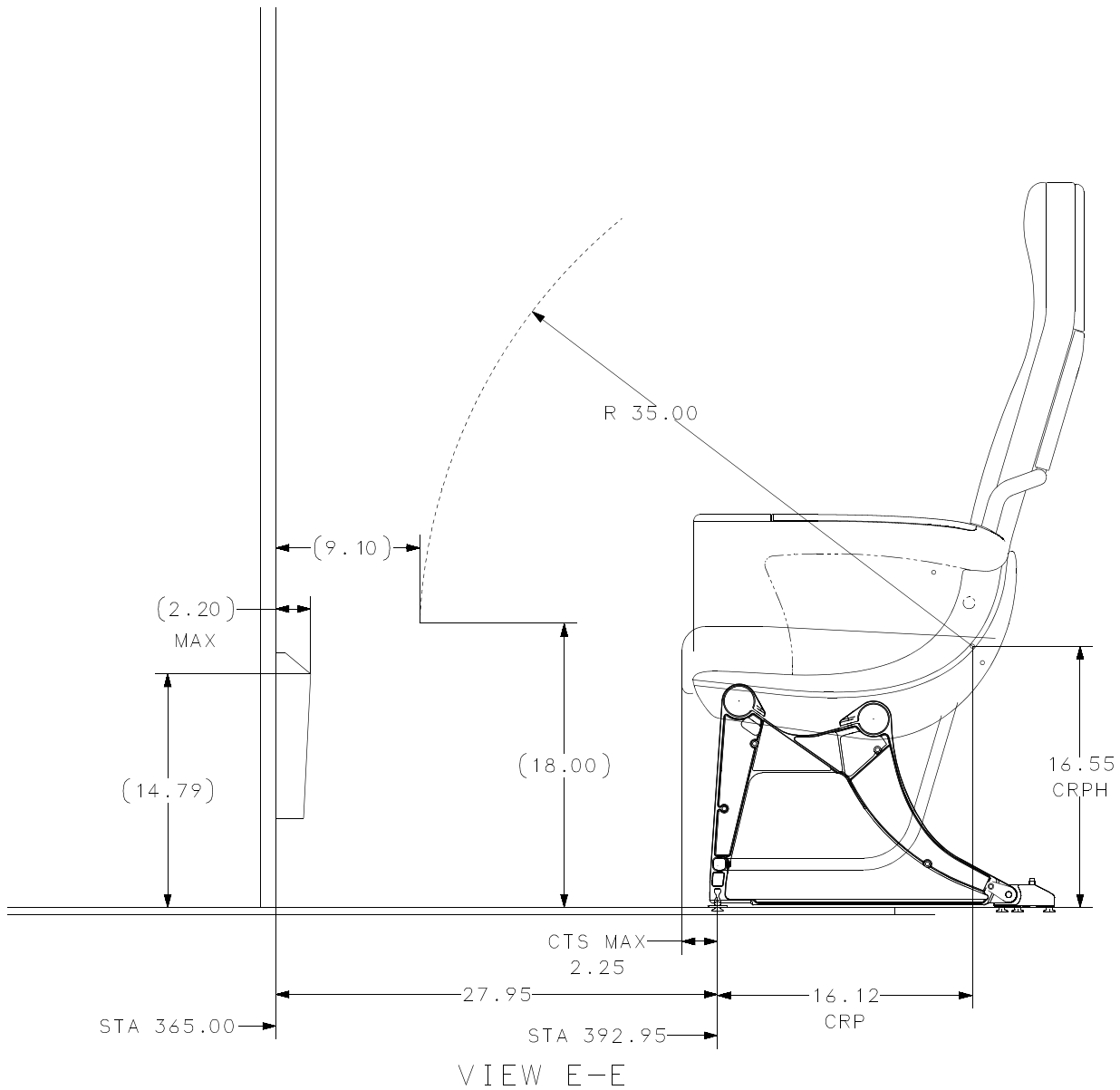


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Seat Dimensions (Envelope Drawing 1047036)  
 Figure 2 (Sheet 5 of 7)

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Seat Dimensions (Envelope Drawing 1047036)  
Figure 2 (Sheet 6 of 7)

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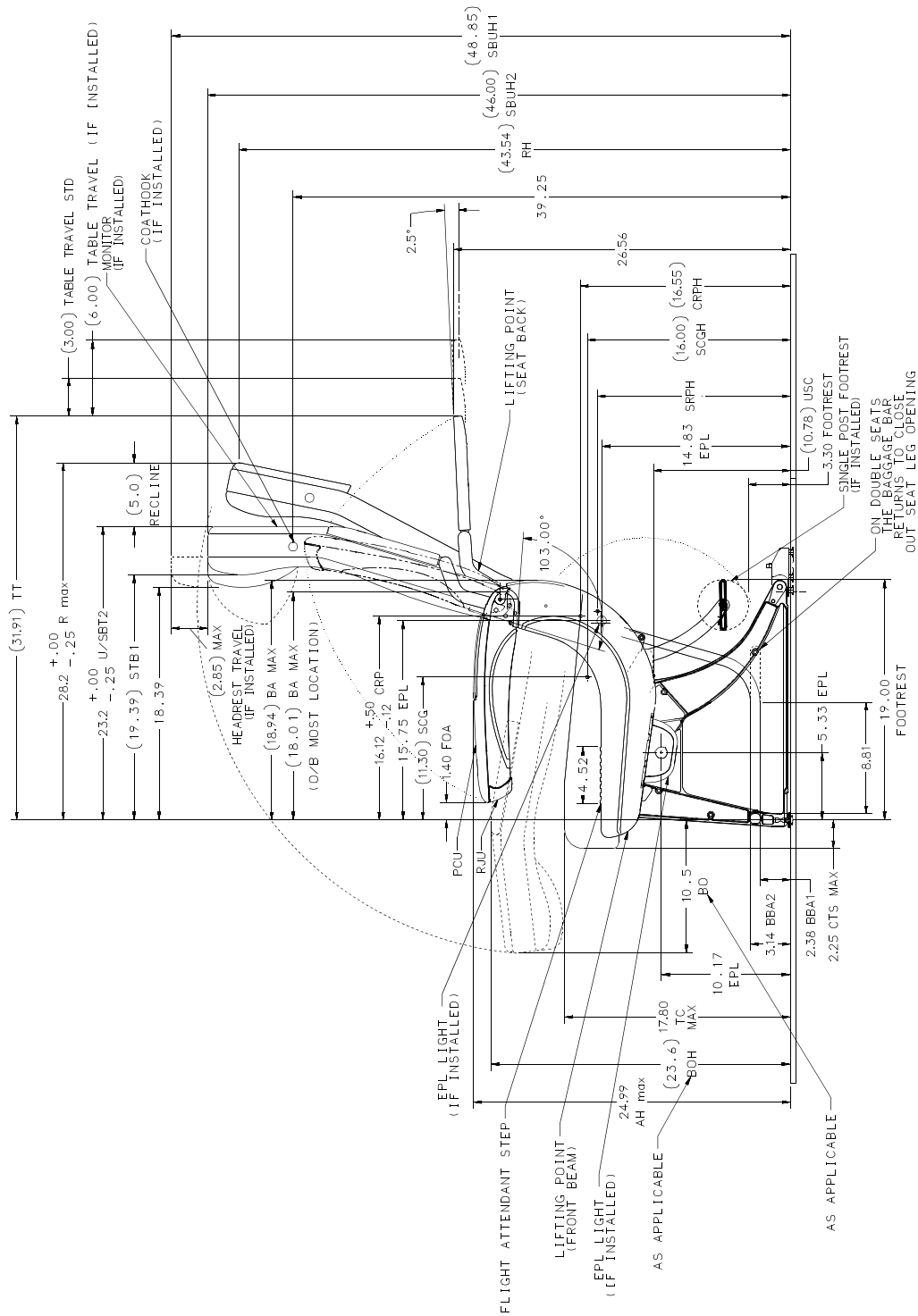
 <b>B/E Aerospace</b> <b>Seating Products Group</b> <small>AEROSPACE</small> <a href="http://www.beaerospace.com">www.beaerospace.com</a>		BIRTH RECORD OR CODE		SEAT ASSEMBLY P/N		MODEL		TYPE																															
TSOA Address: <input type="checkbox"/> 190 Oak Plaza Blvd., Winston-Salem, NC <input type="checkbox"/> 1455 Fairchild Rd. Winston-Salem, NC		Manufacturing Address: <input type="checkbox"/> 2599 Empire Dr. Winston-Salem, NC <input type="checkbox"/> 1455 Fairchild Rd. Winston-Salem, NC <input type="checkbox"/> 2 Moor Rd. Kilkeel, N. Ireland, UK		SERIAL NUMBER    DATE MFD.    WEIGHT (LBS/KGS)    PITCH RANGE <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>		CAGE CODE    Installation Instructions and Limitations Doc. #    CMM# <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>		SEE ILL <div style="border: 1px solid black; height: 20px; width: 100%;"></div>																															
				CAGE CODE    Installation Instructions and Limitations Doc. # <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>		2288    25-21-51-3824																																	
COMPLIES WITH <input checked="" type="checkbox"/> TSO-C 127a <input type="checkbox"/> ETSO-C <input checked="" type="checkbox"/> 14 CFR 25.853(c) effective 6 March 95 <input type="checkbox"/> AIRBUS    Issue <input type="checkbox"/> AIRBUS AMDT				Restraint System Part Number <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="5">Certified Static Load Factors (g's)</th> </tr> <tr> <th>UP</th> <th>DN</th> <th>FWD</th> <th>AFT</th> <th>SIDE</th> </tr> <tr> <td></td> <td>1.5</td> <td>3.75</td> <td>1.5</td> <td>3.0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				Certified Static Load Factors (g's)					UP	DN	FWD	AFT	SIDE		1.5	3.75	1.5	3.0																Cushion Assembly Part Number <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>					
Certified Static Load Factors (g's)																																							
UP	DN	FWD	AFT	SIDE																																			
	1.5	3.75	1.5	3.0																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="5">Certified Combined Static Load Factors (g's)</th> </tr> <tr> <th>DN</th> <th>6.5</th> <th></th> <th></th> <th></th> </tr> <tr> <th>AFT</th> <th>1.5</th> <th></th> <th></th> <th></th> </tr> <tr> <th>UP</th> <th>3.5</th> <th></th> <th></th> <th></th> </tr> <tr> <th>SIDE</th> <th>4.0</th> <th></th> <th></th> <th></th> </tr> <tr> <th>FWD</th> <th>9.0</th> <th></th> <th></th> <th></th> </tr> </table>				Certified Combined Static Load Factors (g's)					DN	6.5				AFT	1.5				UP	3.5				SIDE	4.0				FWD	9.0				This article meets the minimum performance and quality control standards required by the TSO. Installation of this article requires separate approval.					
Certified Combined Static Load Factors (g's)																																							
DN	6.5																																						
AFT	1.5																																						
UP	3.5																																						
SIDE	4.0																																						
FWD	9.0																																						

THE INFO. IN THE TAG IS TO BE USED BUT THE VIEW OF THE TAG ITSELF IS REFERENCE ONLY AND CONTROLLED VIA THE LOWER LEVEL PIECE PART DRAWING 1002933 PER SPG-MPS-030

NAMEPLATE PLACARD

Seat Dimensions (Envelope Drawing 1047036)  
 Figure 2 (Sheet 7 of 7)

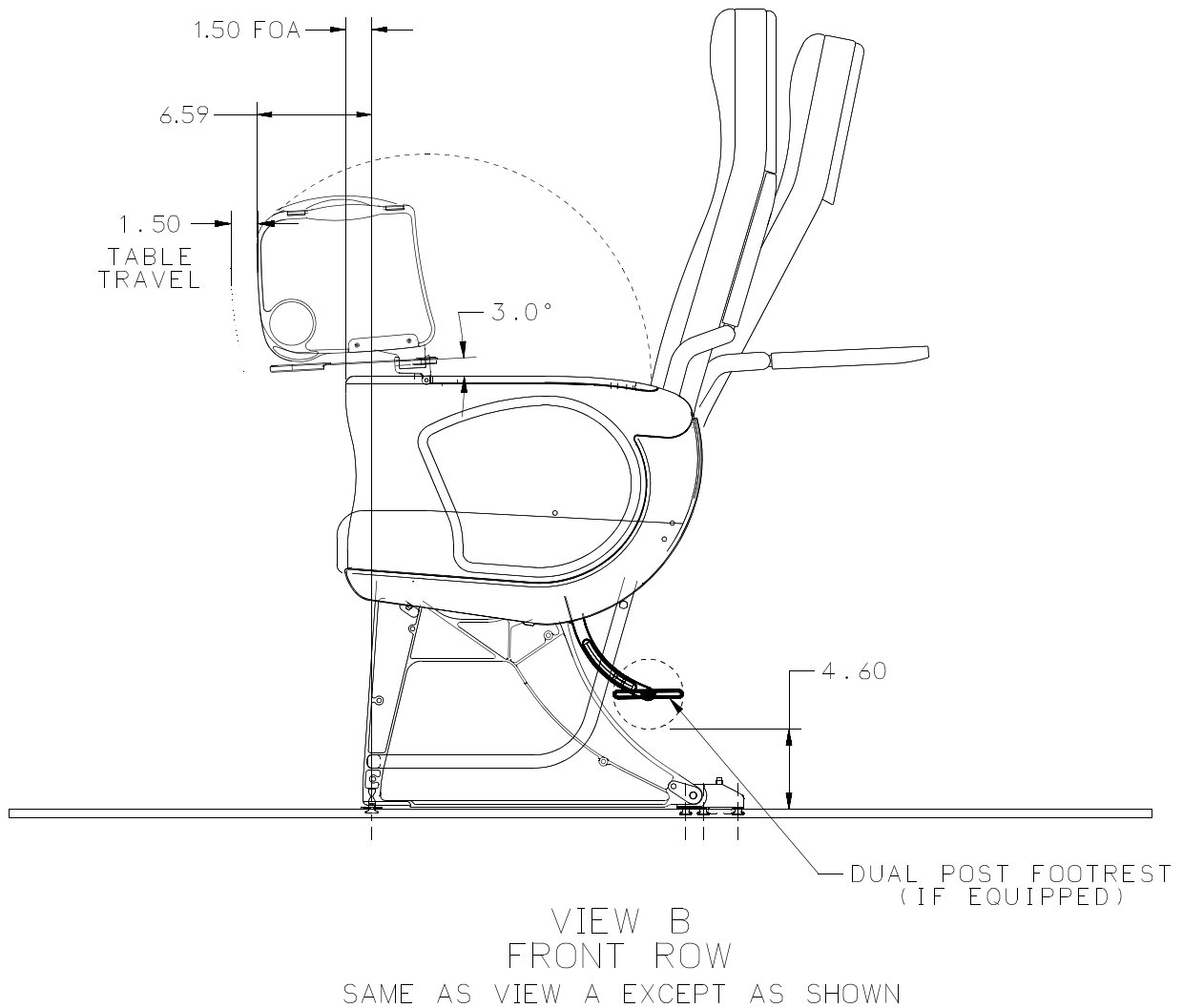
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**PINNACLE® 1047191 SERIES**



VIEW A  
 STANDARD  
 (SEE VIEW W FOR STANDARD  
 SEAT TO SEAT DIMENSIONS)

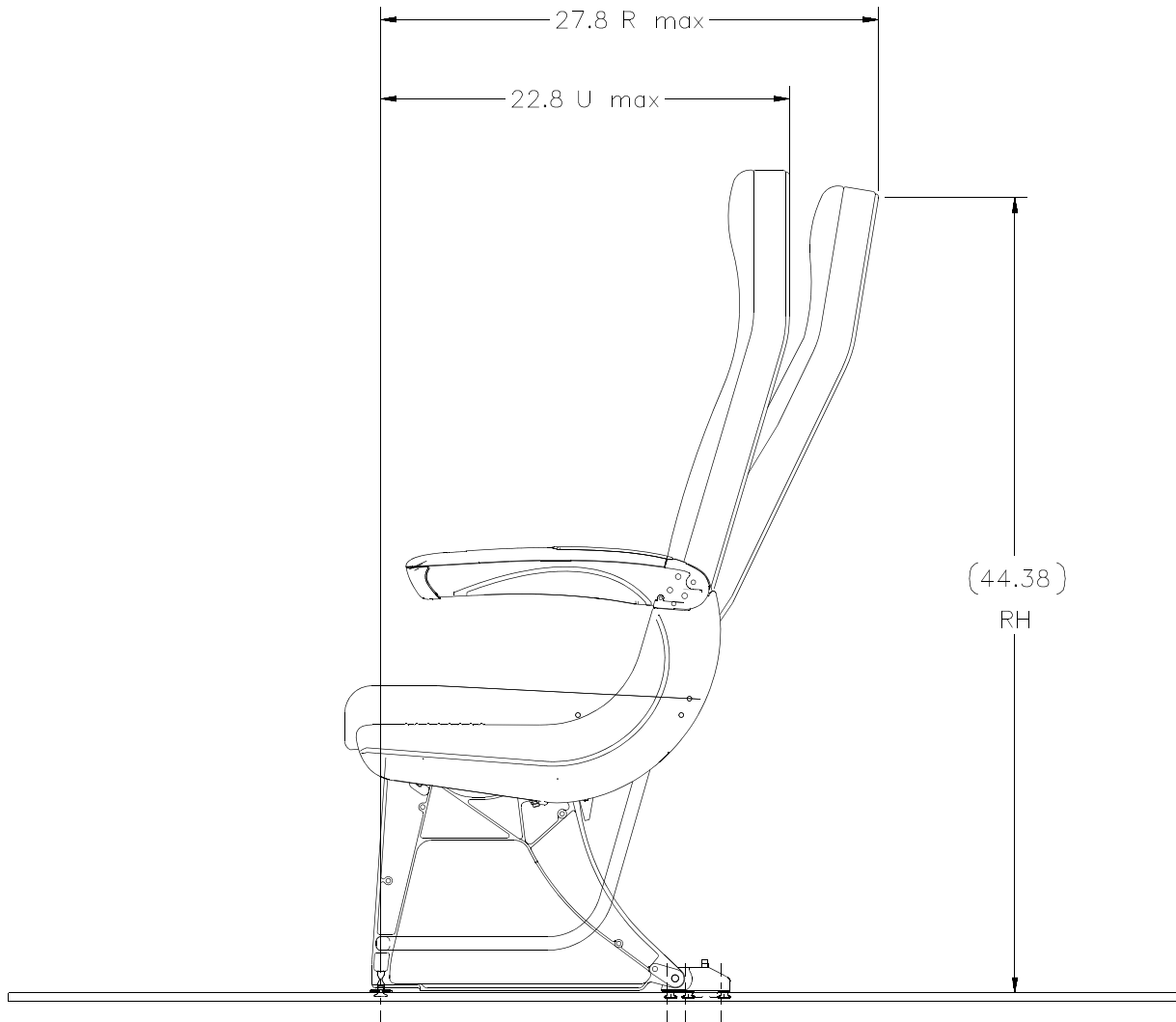
Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
 Figure 3 (Sheet 1 of 32)

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Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
Figure 3 (Sheet 2 of 32)

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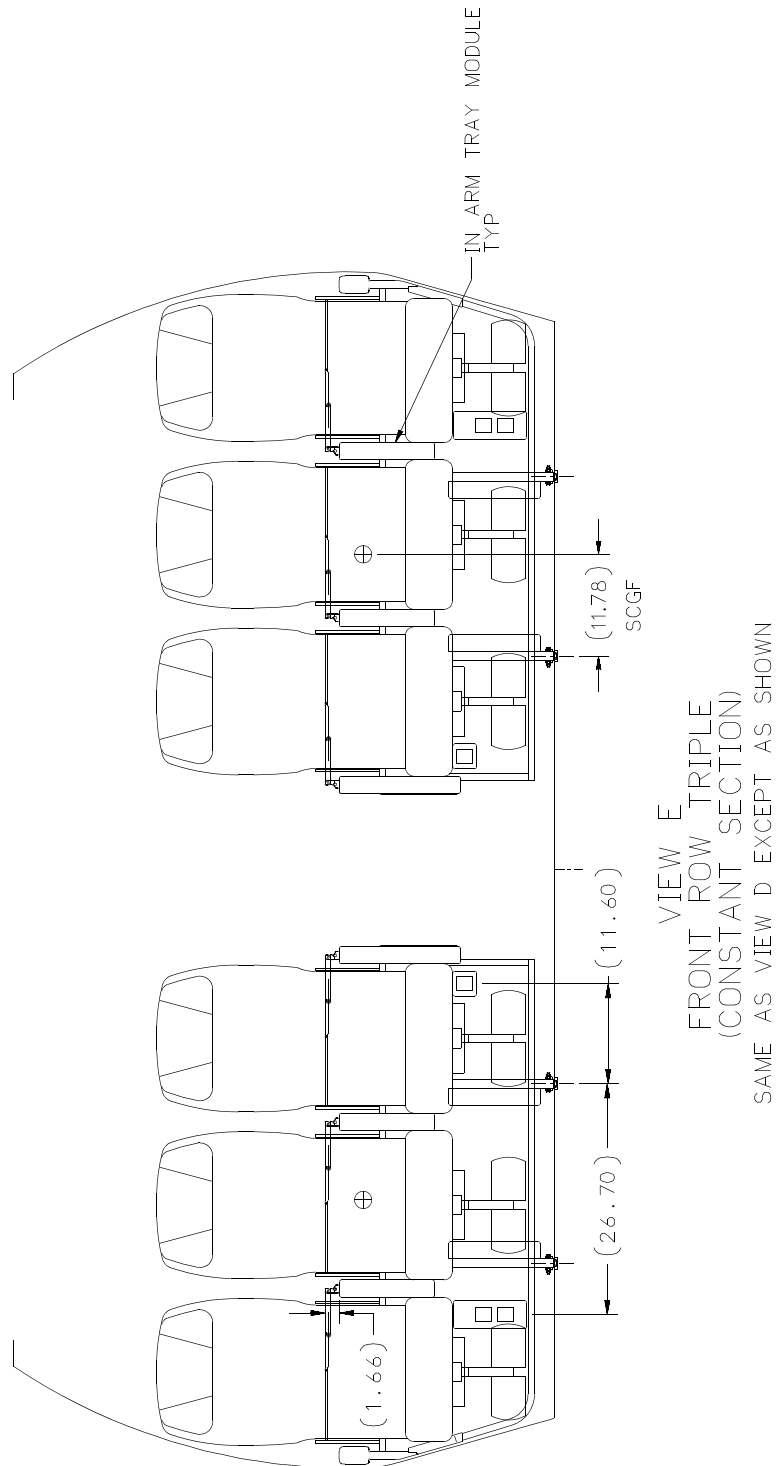
VIEW C  
LAST ROW  
SAME AS VIEW A EXCEPT AS SHOWN

Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
Figure 3 (Sheet 3 of 32)

[illegible]

**25-21-51**

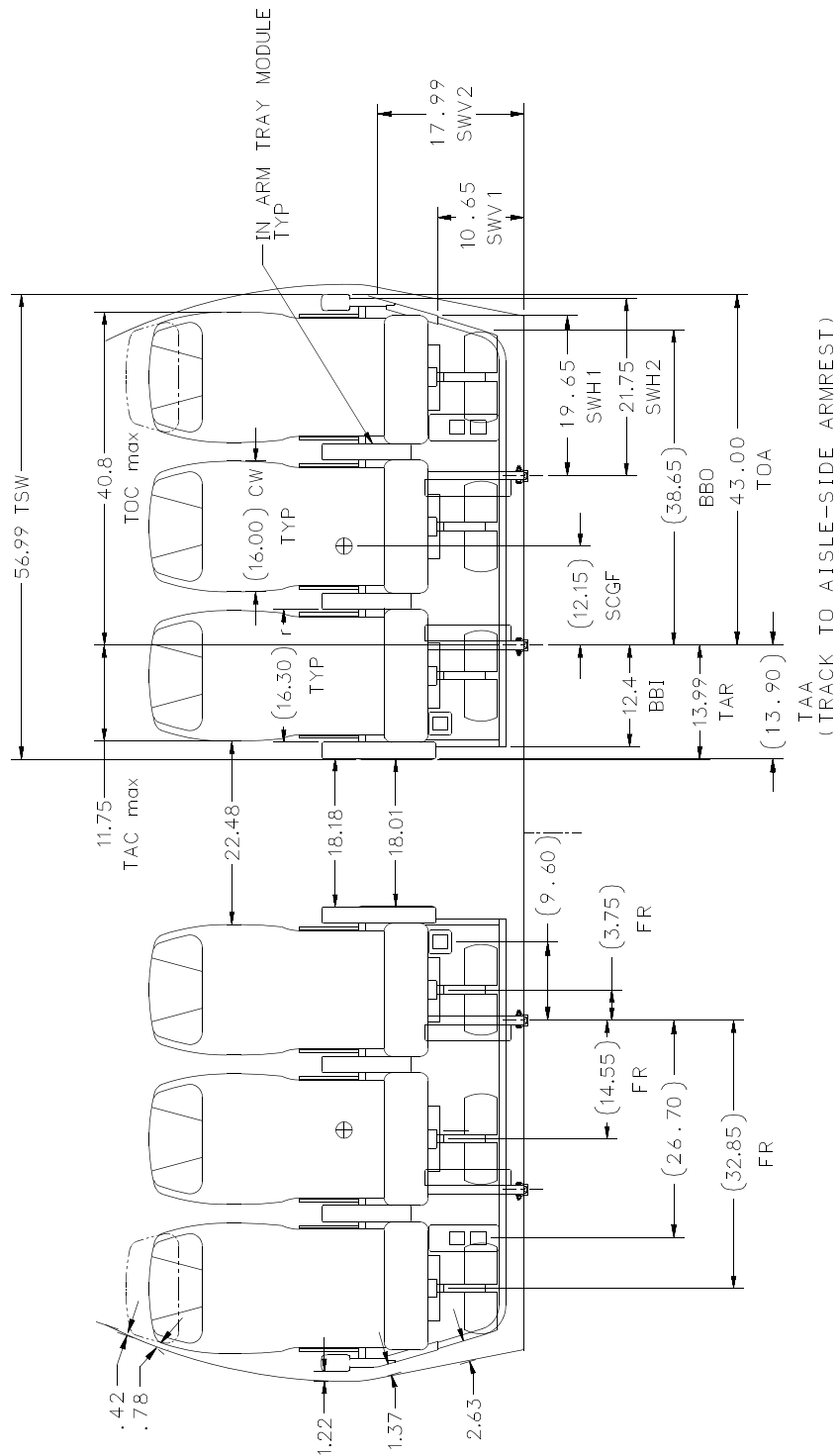
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Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
 Figure 3 (Sheet 5 of 32)



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VIEW F  
 FRONT ROW NARROW TRIPLE  
 (STA. 380 SHOWN)  
 SAME AS VIEW D EXCEPT AS SHOWN

Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
 Figure 3 (Sheet 6 of 32)

58.99 TSW

12.75 TAC max

(17.00) CW

(17.30) r (I/B)

(16.30) r (O/B)

(17.30) r (CTR)

(16.00) CW

13.4 BBI

14.14 SCGF

14.99 TAR

(14.90)

22.74

18.44

18.27

(15.05) FR

(33.85) FR

(4.25) FR

(39.74) BBO

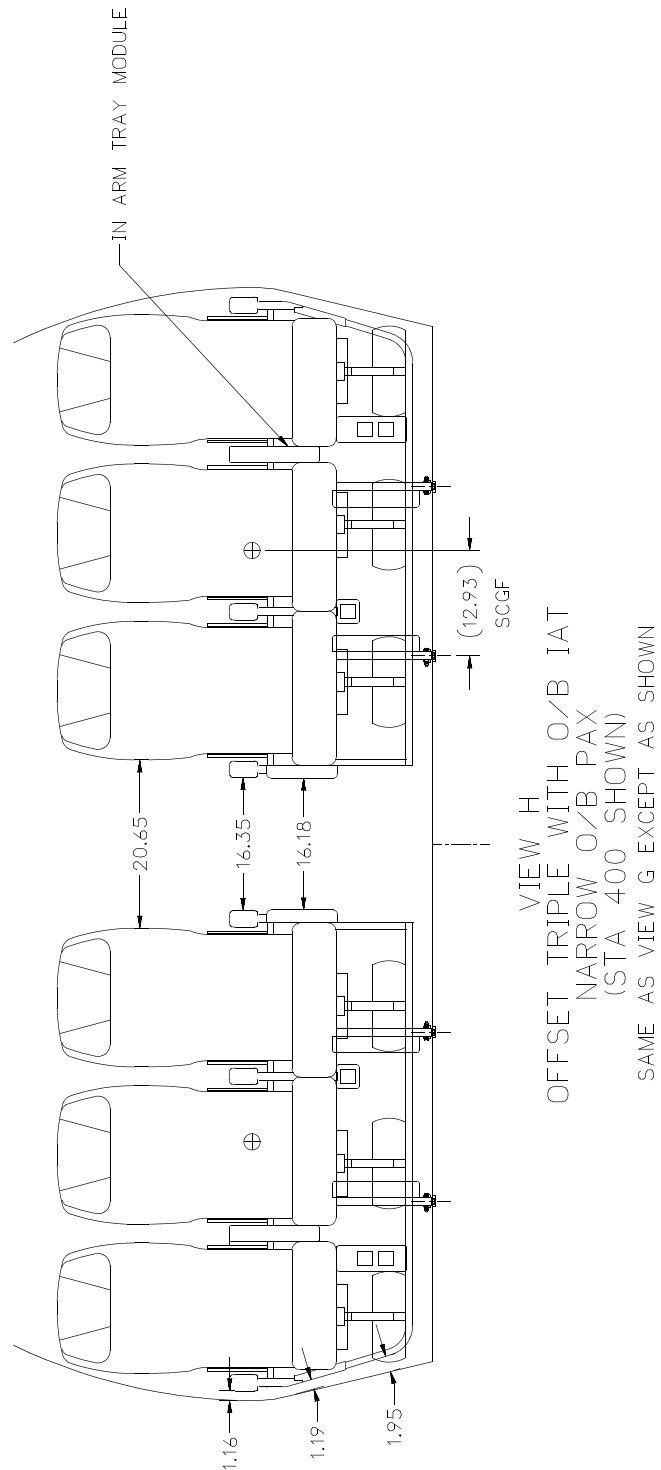
44.00 TOA

(14.90) TAA (TRACK TO AISLE-SIDE ARMREST)

VIEW G  
OFFSET TRIPLE  
WITH NARROW O/B PAX  
(STA 440 SHOWN)  
SAME AS VIEW D EXCEPT AS SHOWN

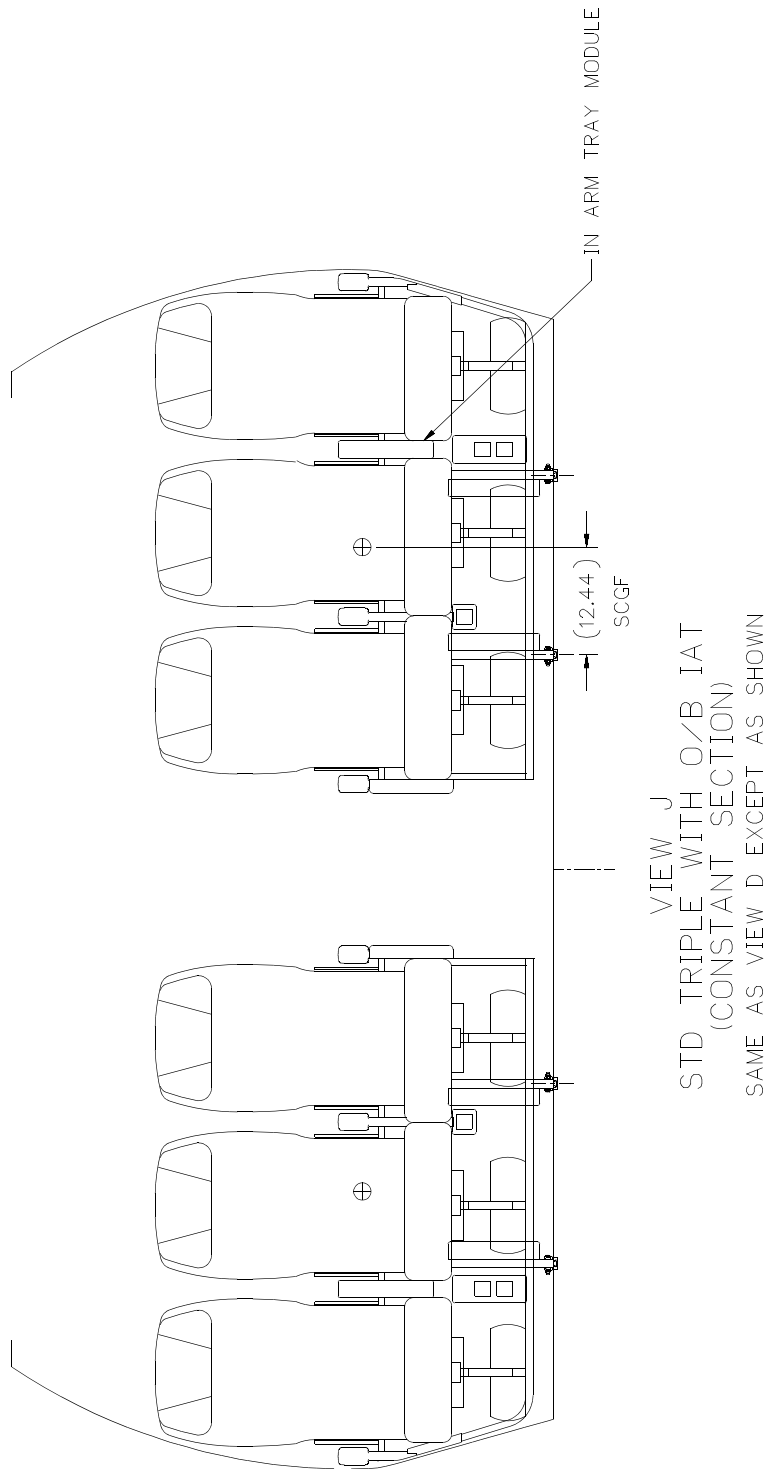
**25-21-51**

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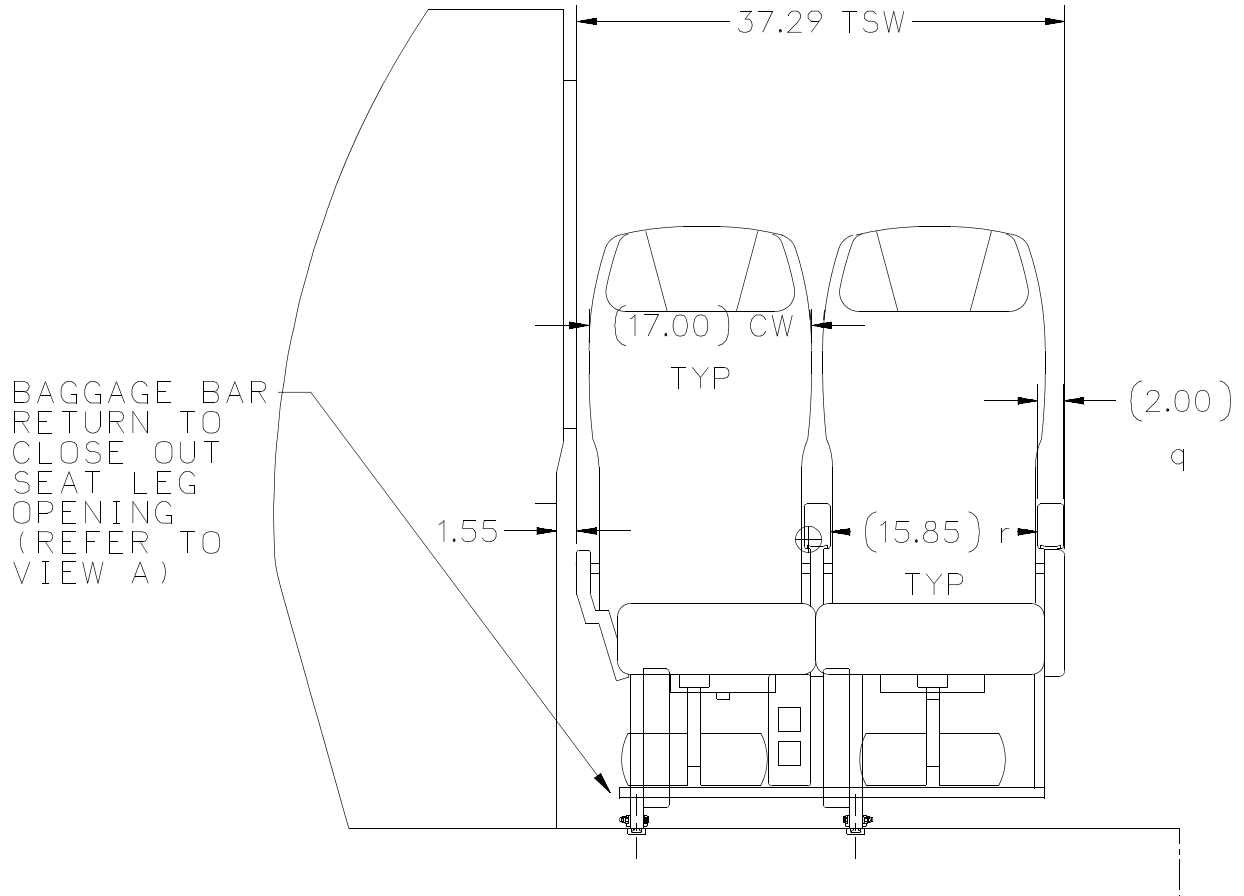
Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
 Figure 3 (Sheet 8 of 32)

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Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
 Figure 3 (Sheet 9 of 32)

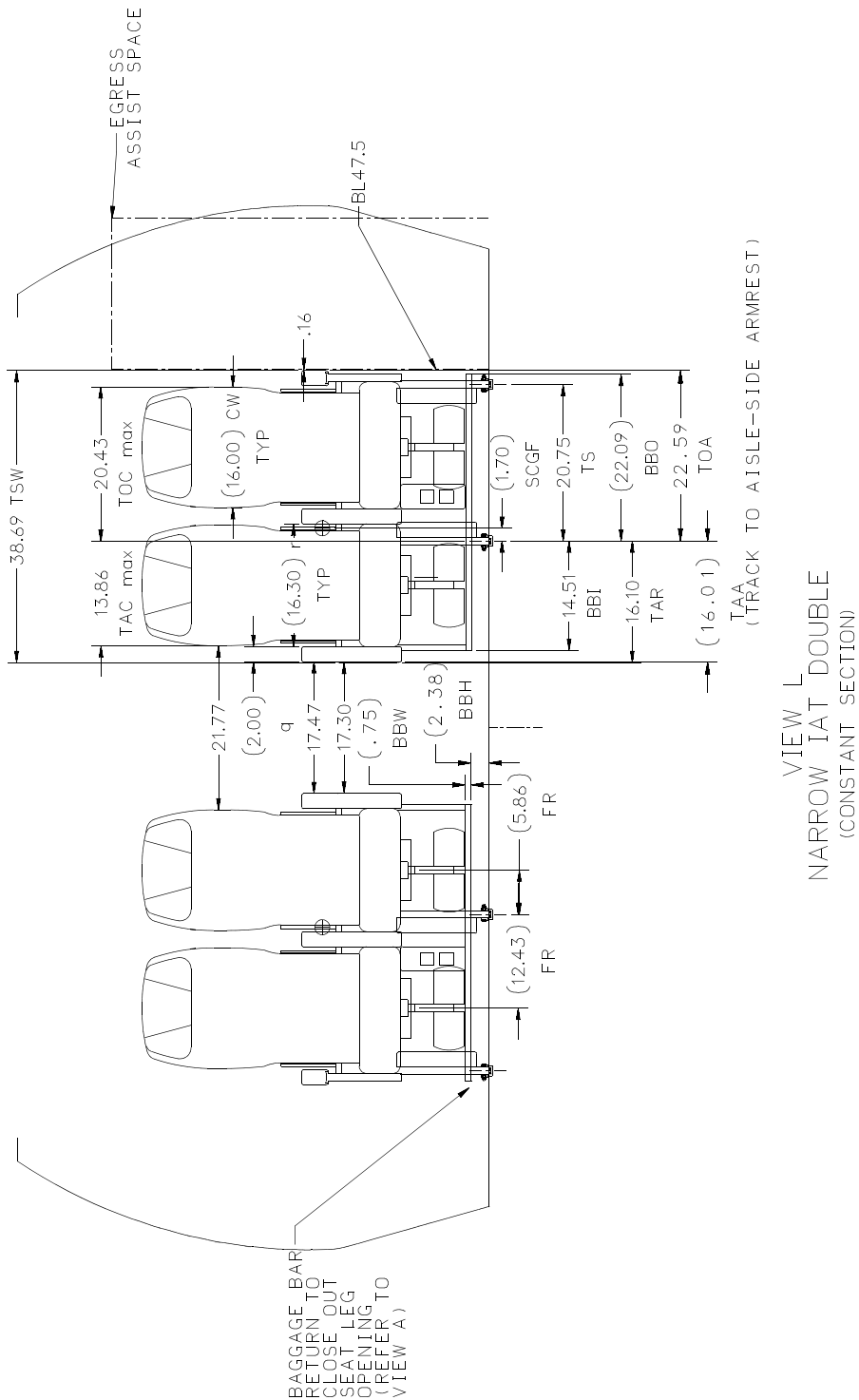
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COMPONENT MAINTENANCE MANUAL  
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VIEW K  
SPECIAL NARROW DOUBLE  
(MED ATTENDANT PARTITION)

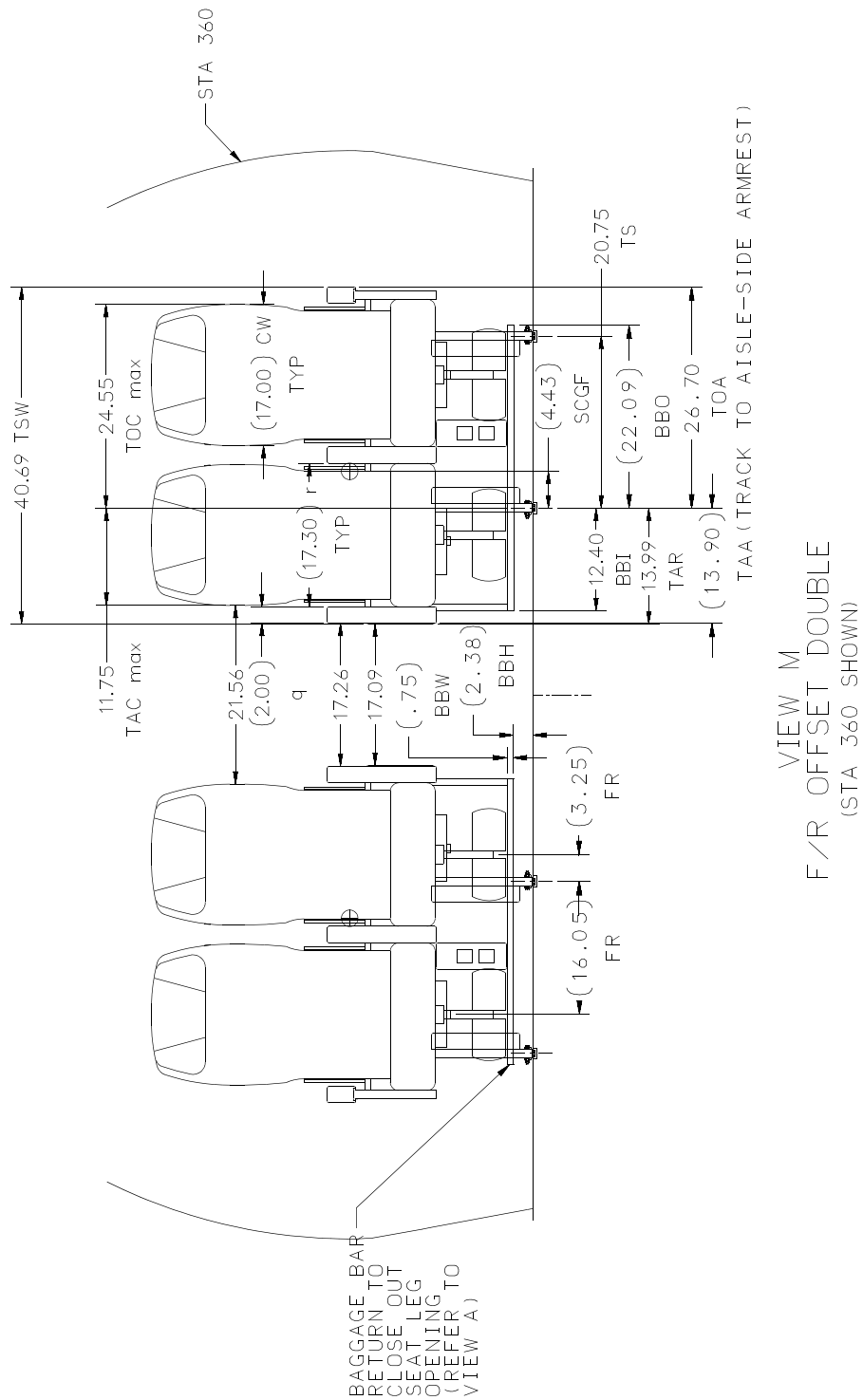
Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
Figure 3 (Sheet 10 of 32)

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Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
 Figure 3 (Sheet 11 of 32)

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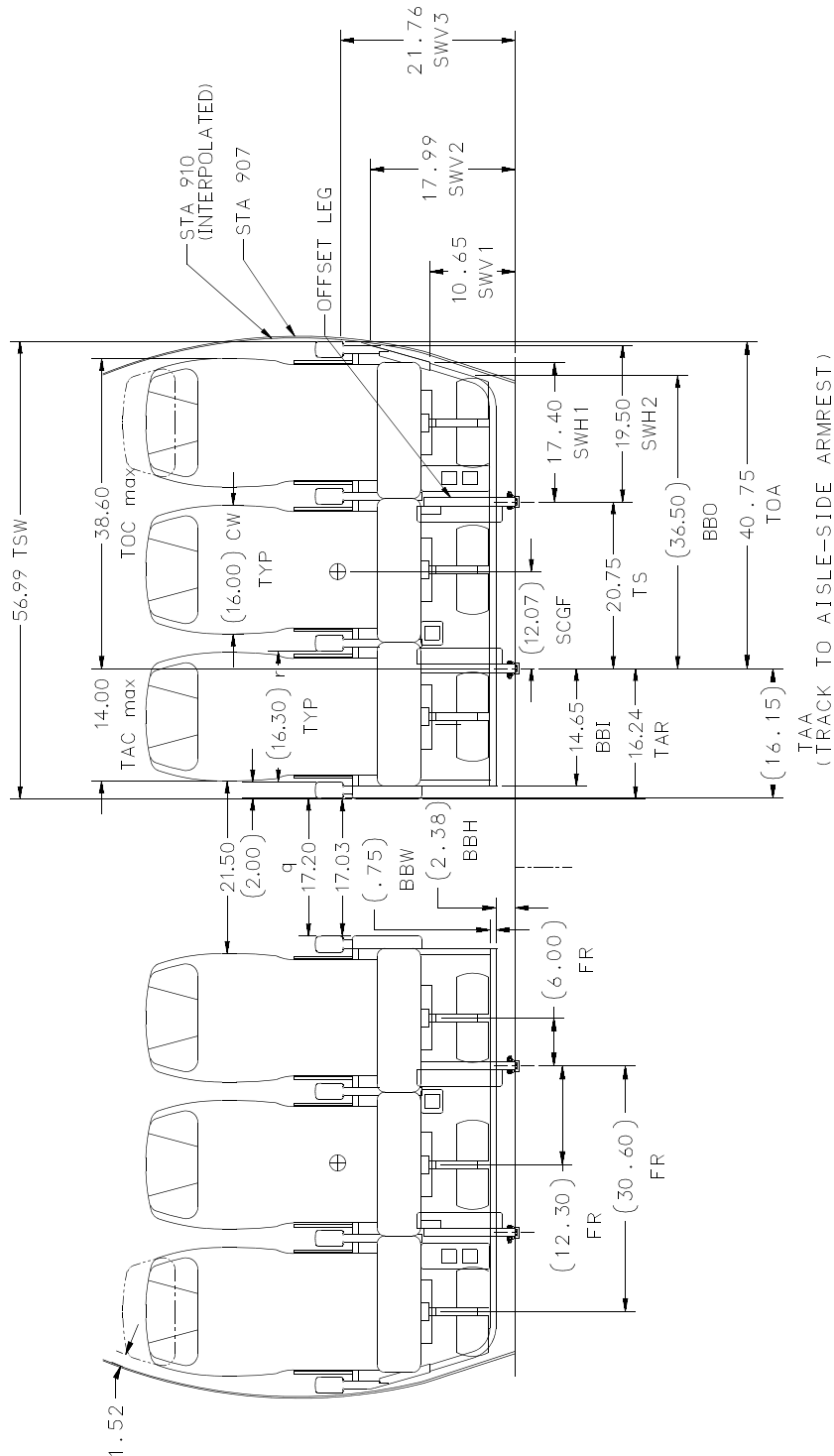


Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
 Figure 3 (Sheet 12 of 32)





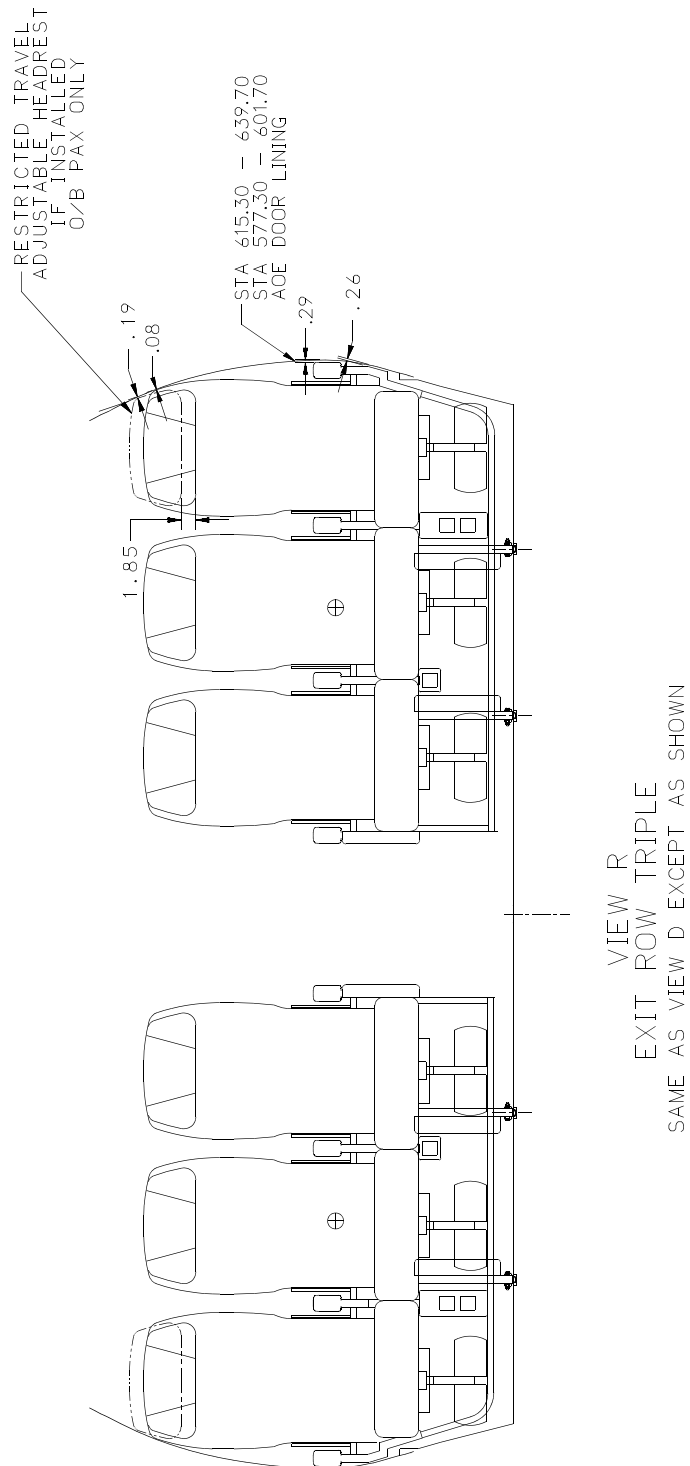
**B/E AEROSPACE**  
**COMPONENT MAINTENANCE MANUAL**  
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VIEW P  
 NARROW TRIPLE  
 (STA 907 SHOWN)

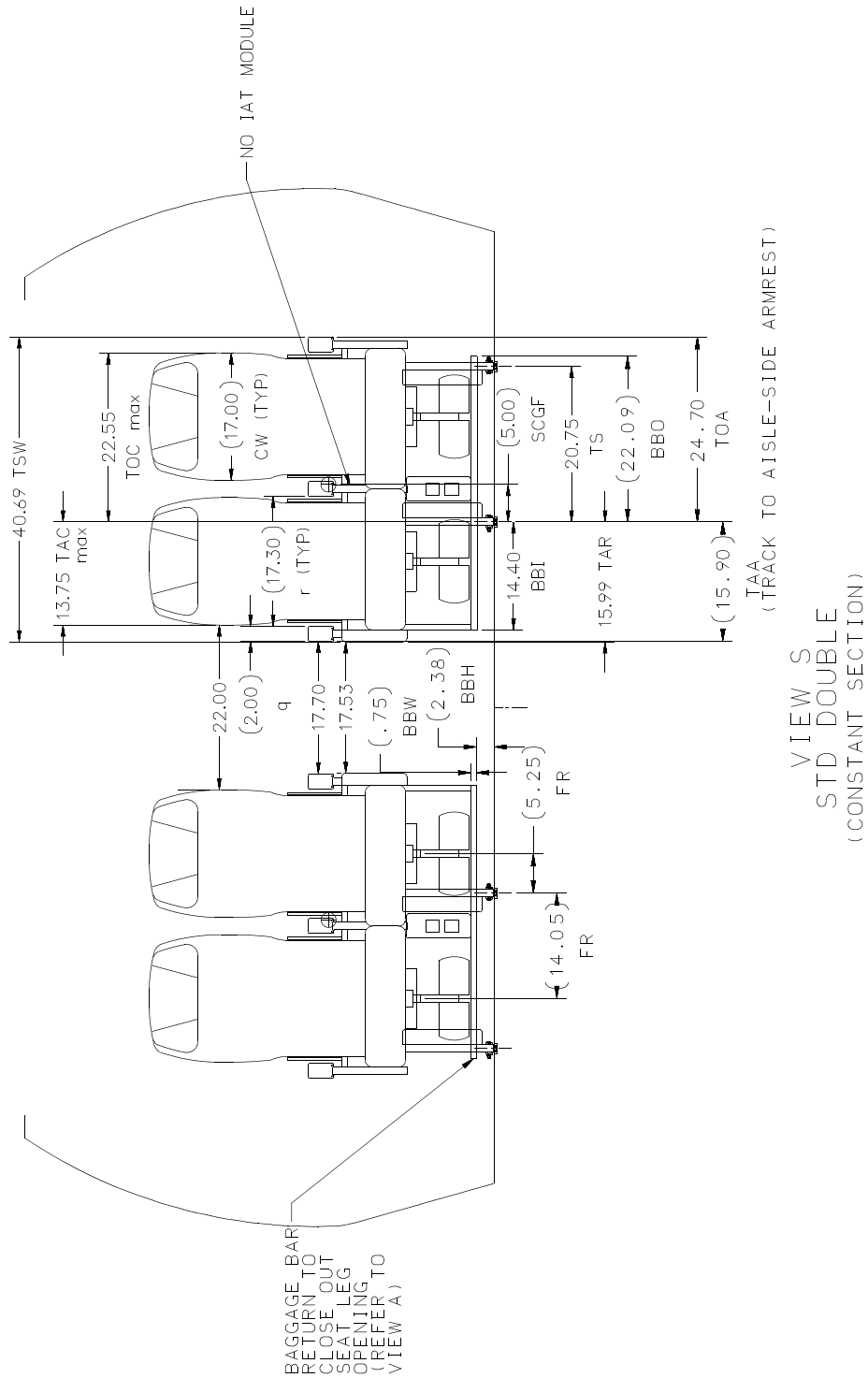
Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
 Figure 3 (Sheet 14 of 32)

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**PINNACLE® 1047191 SERIES**



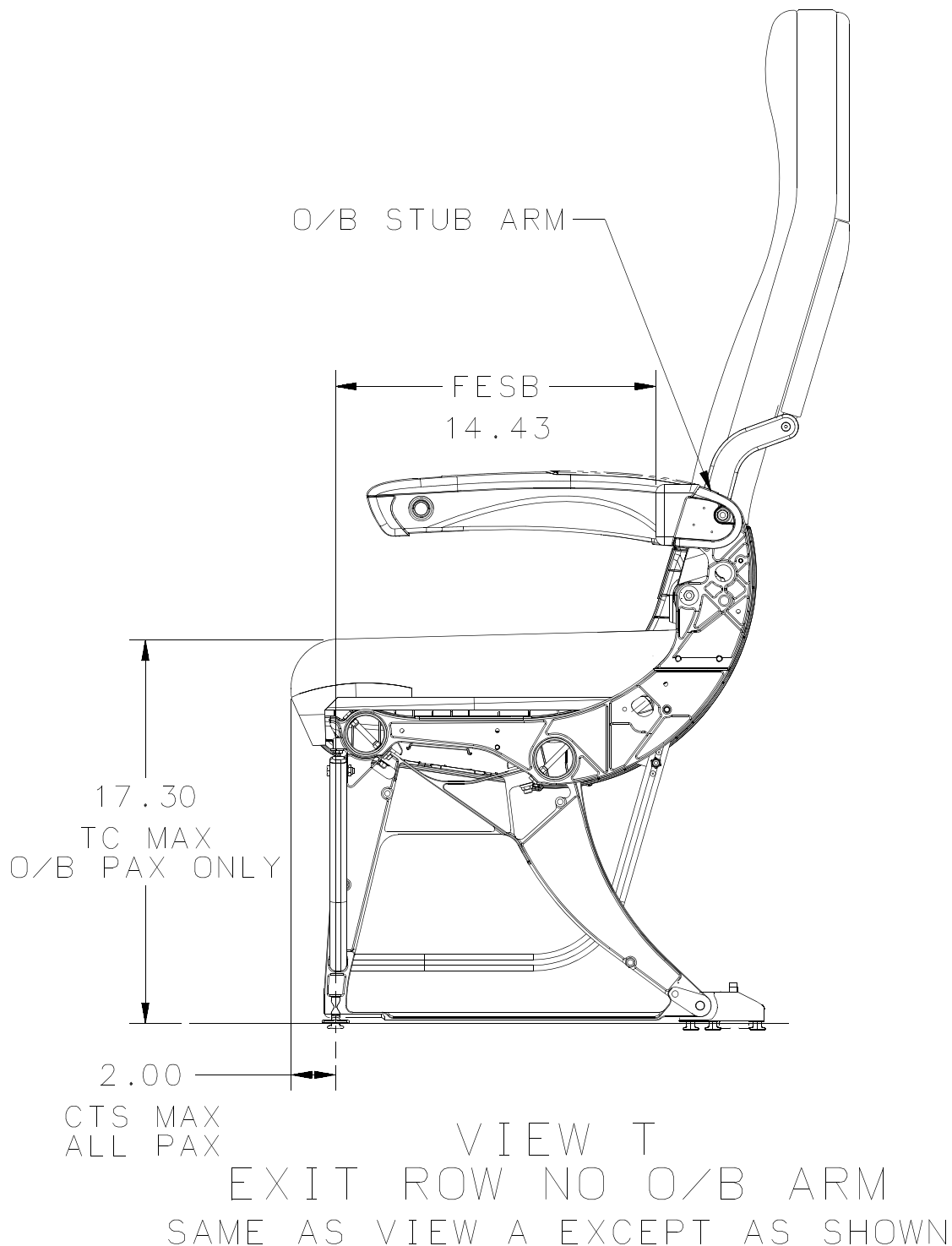
Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
 Figure 3 (Sheet 15 of 32)

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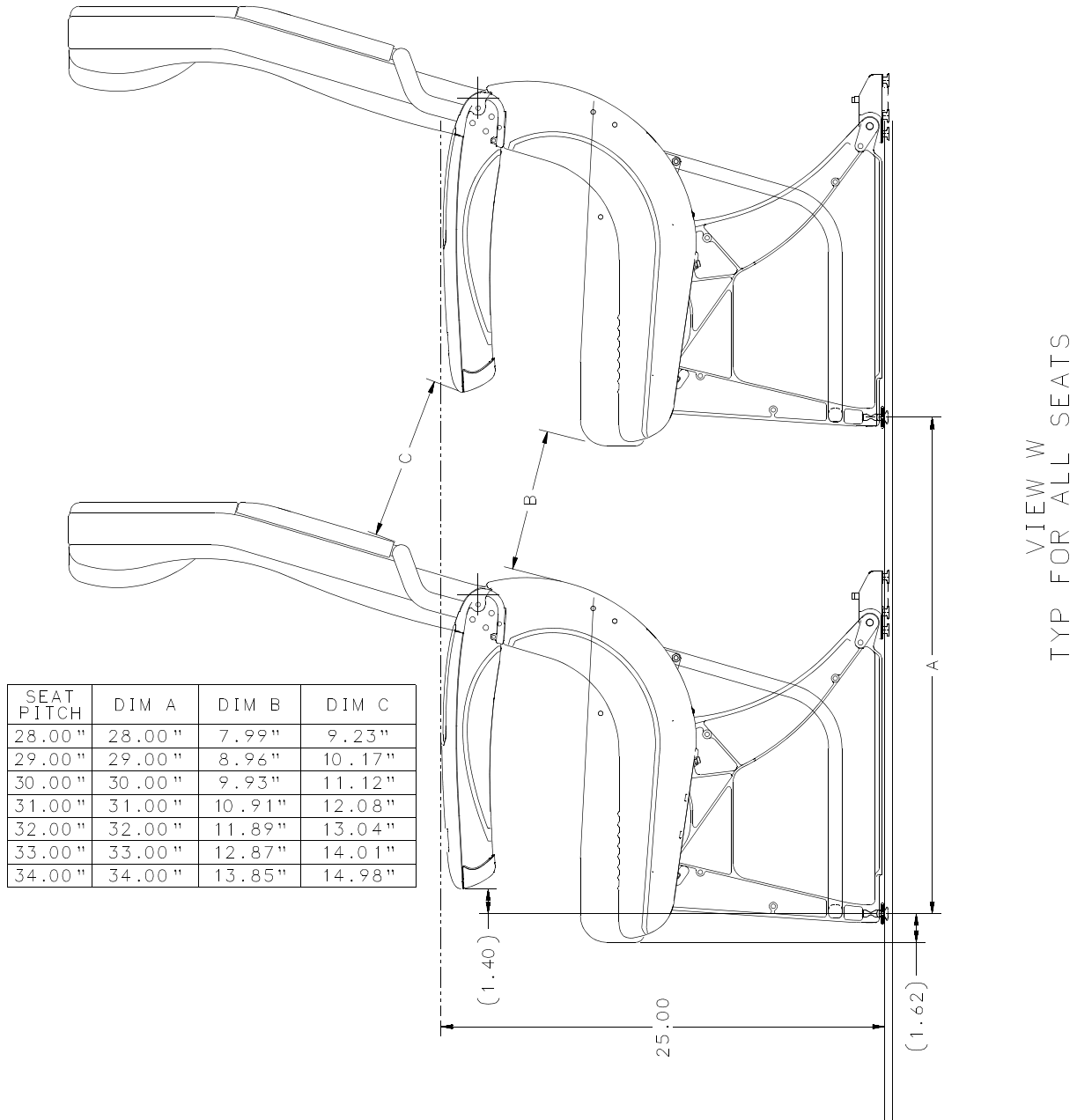
Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
 Figure 3 (Sheet 16 of 32)

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Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
 Figure 3 (Sheet 17 of 32)

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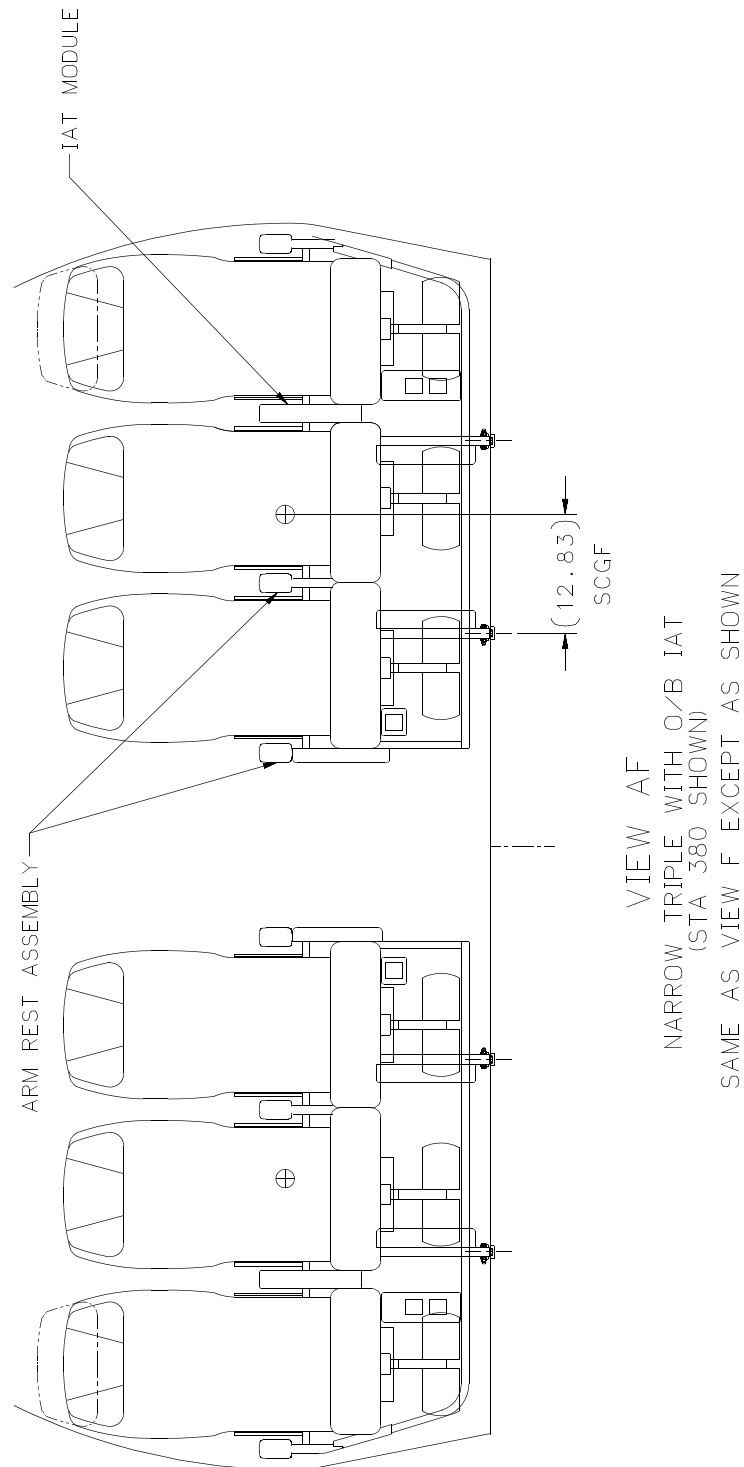
Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
 Figure 3 (Sheet 18 of 32)

Technical drawing of a 3x3x3 vehicle layout, showing dimensions and labels. The drawing is oriented vertically, with the vehicle's front at the top. The layout consists of three rows of seats, each with three seats per row. The dimensions are as follows:

- Overall Dimensions:**
  - Overall length: 56.99 TSW
  - Overall width: 40.15 TOA
- Row Dimensions:**
  - Row length: 37.69 TOC max
  - Row width: 14.60 TAC max
- Seat Dimensions:**
  - Seat width: 16.00 CW TYP
  - Seat depth: 16.30 r TYP
  - Seat height: 1.28
- Clearance and Offset Dimensions:**
  - Clearance from front: 1.65 SWV 1
  - Clearance from side: 10.65 SWV 2
  - Clearance from rear: 17.99 SWV 2
  - Clearance from aisle: 1.28
  - Clearance from track: 1.68 SWH 1
  - Clearance from track: 18.90 SWH 2
  - Clearance from track: 35.70 BB0
  - Clearance from track: 40.15 TOA
- Other Dimensions:**
  - 20.30
  - (2.00)
  - 16.00
  - 15.83
  - (.75)
  - BBW (2.38)
  - BBH
  - (6.50) FR
  - (11.54) SCGF
  - (12.20) FR
  - (30.00) FR
- Labels:**
  - STA 916.96 (INTERPOLATED)
  - STA 922.27 (INTERPOLATED)
  - OFFSET LEG
  - TYP
  - BB0
  - BB1
  - TAR
  - TAA
  - (TRACK TO AISLE-SIDE ARMREST)

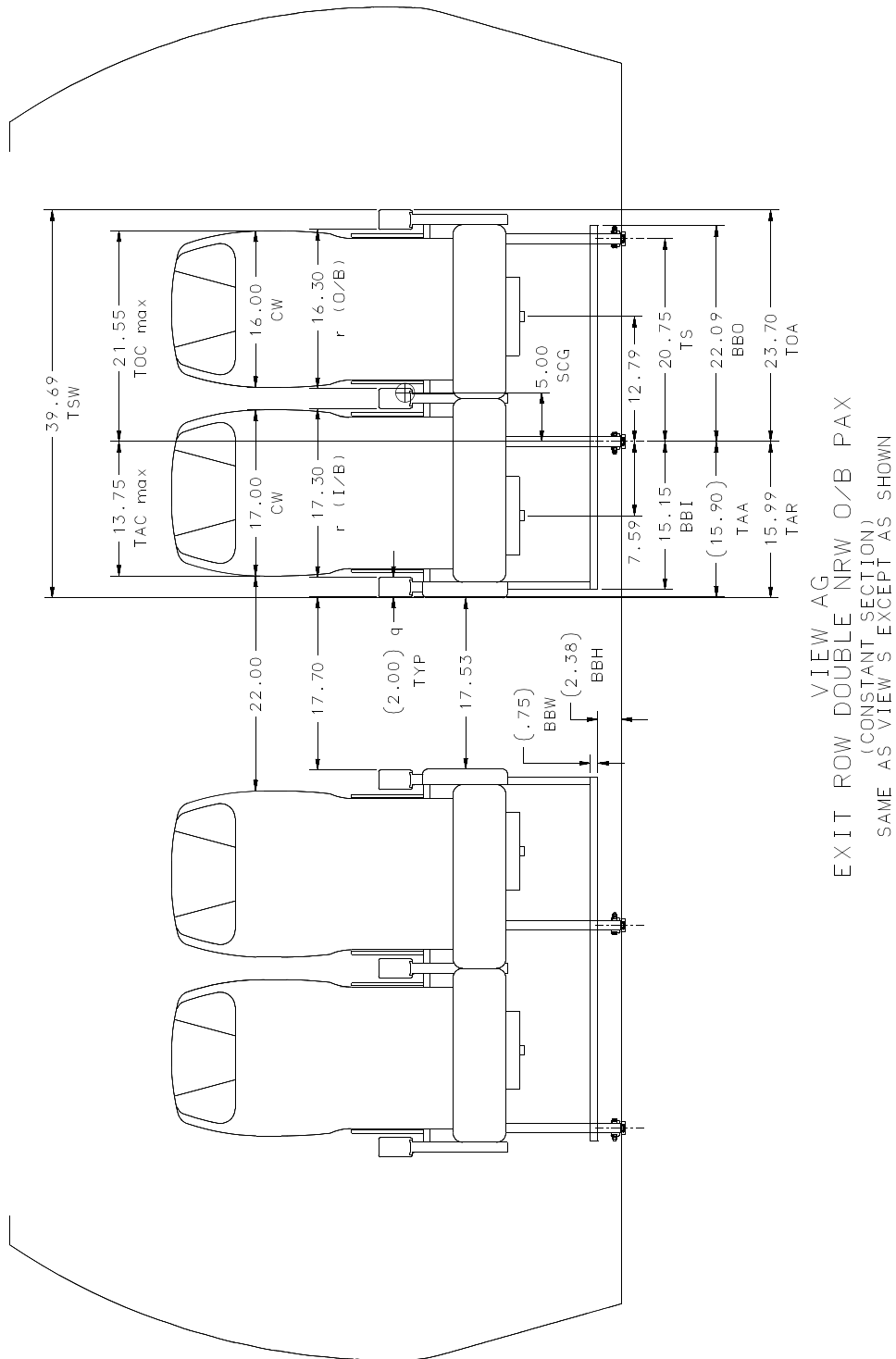
VIEW AC  
NARROW TRIPLE OFFSET  
(STA 90.7 SHOWN)

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Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
 Figure 3 (Sheet 20 of 32)

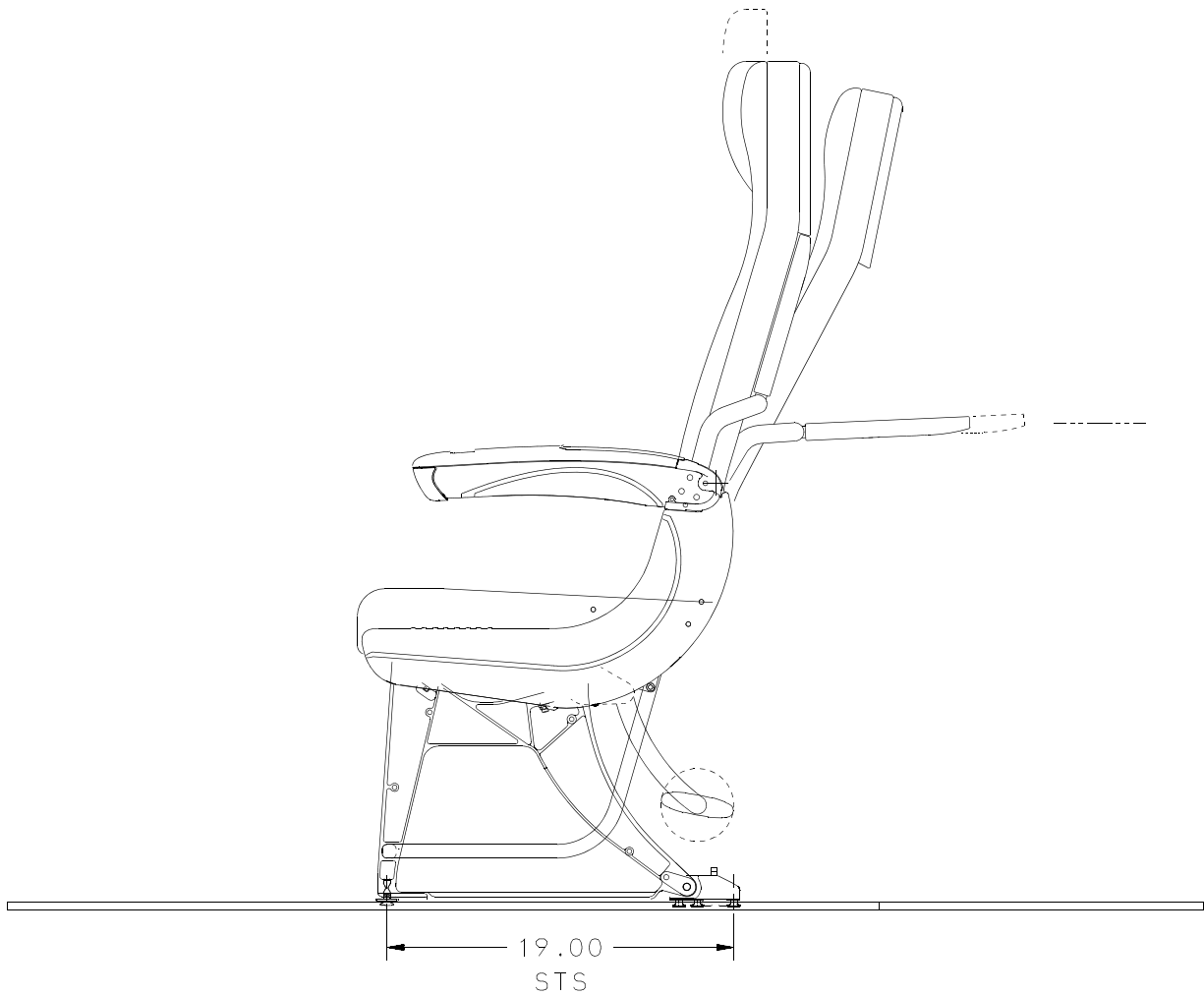
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**COMPONENT MAINTENANCE MANUAL**  
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Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
 Figure 3 (Sheet 21 of 32)



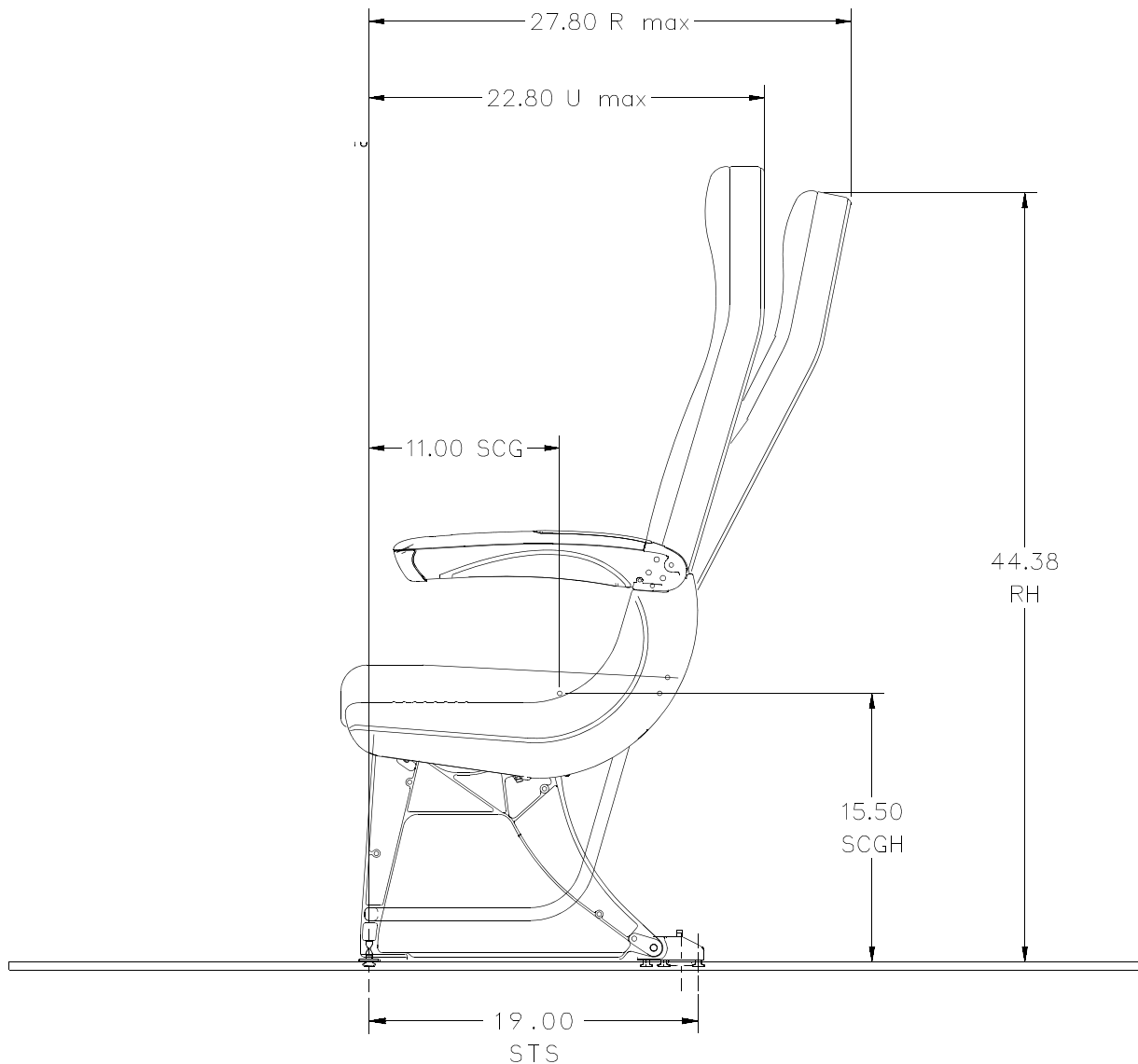
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VIEW BB  
STANDARD SEAT WITH 19" LEG  
SAME AS VIEW A EXCEPT AS SHOWN

Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
Figure 3 (Sheet 22 of 32)

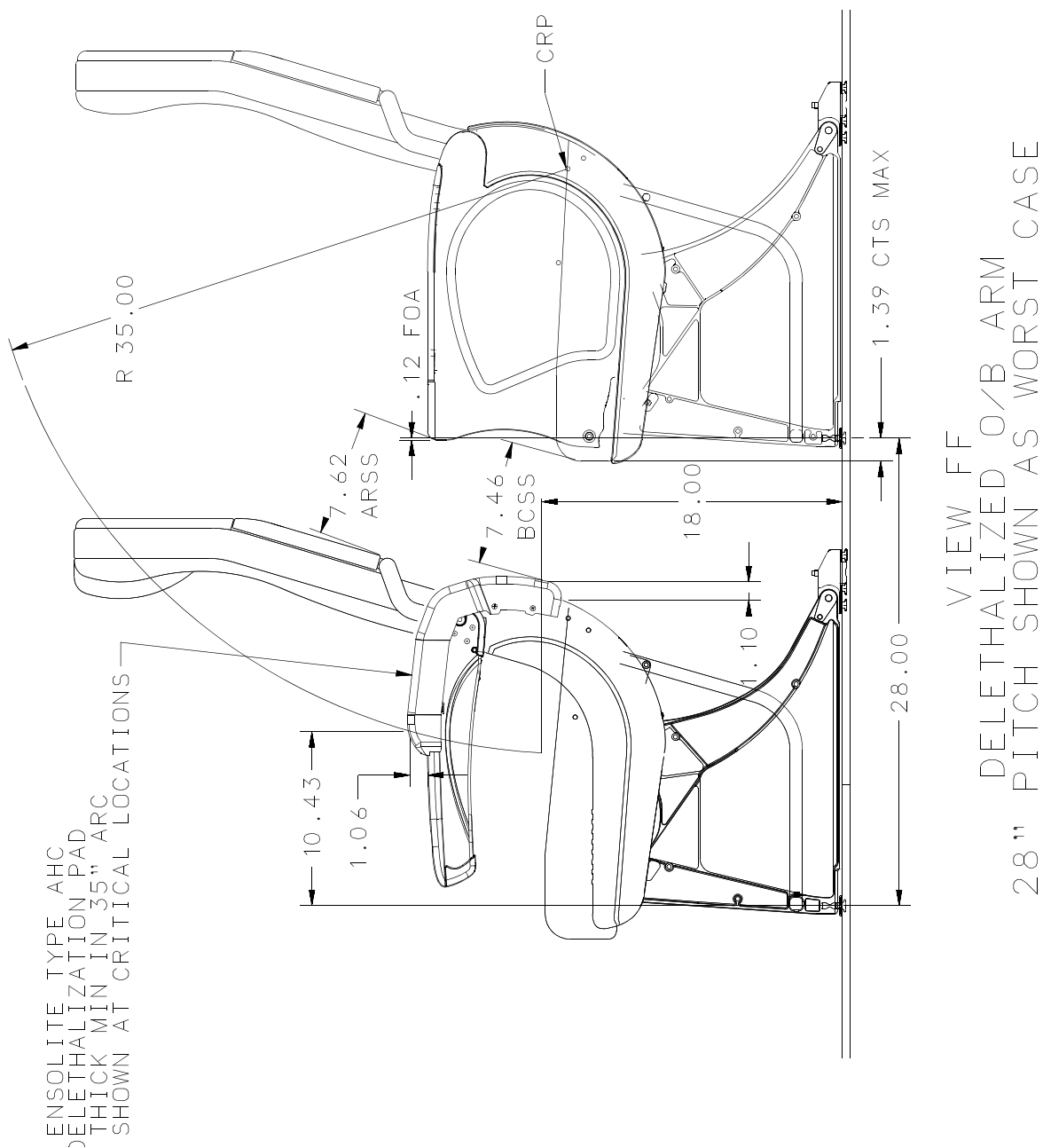
**B/E AEROSPACE**  
COMPONENT MAINTENANCE MANUAL  
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VIEW CC  
NO FOODTRAY WITH 19" LEG  
SAME AS VIEW A EXCEPT AS SHOWN

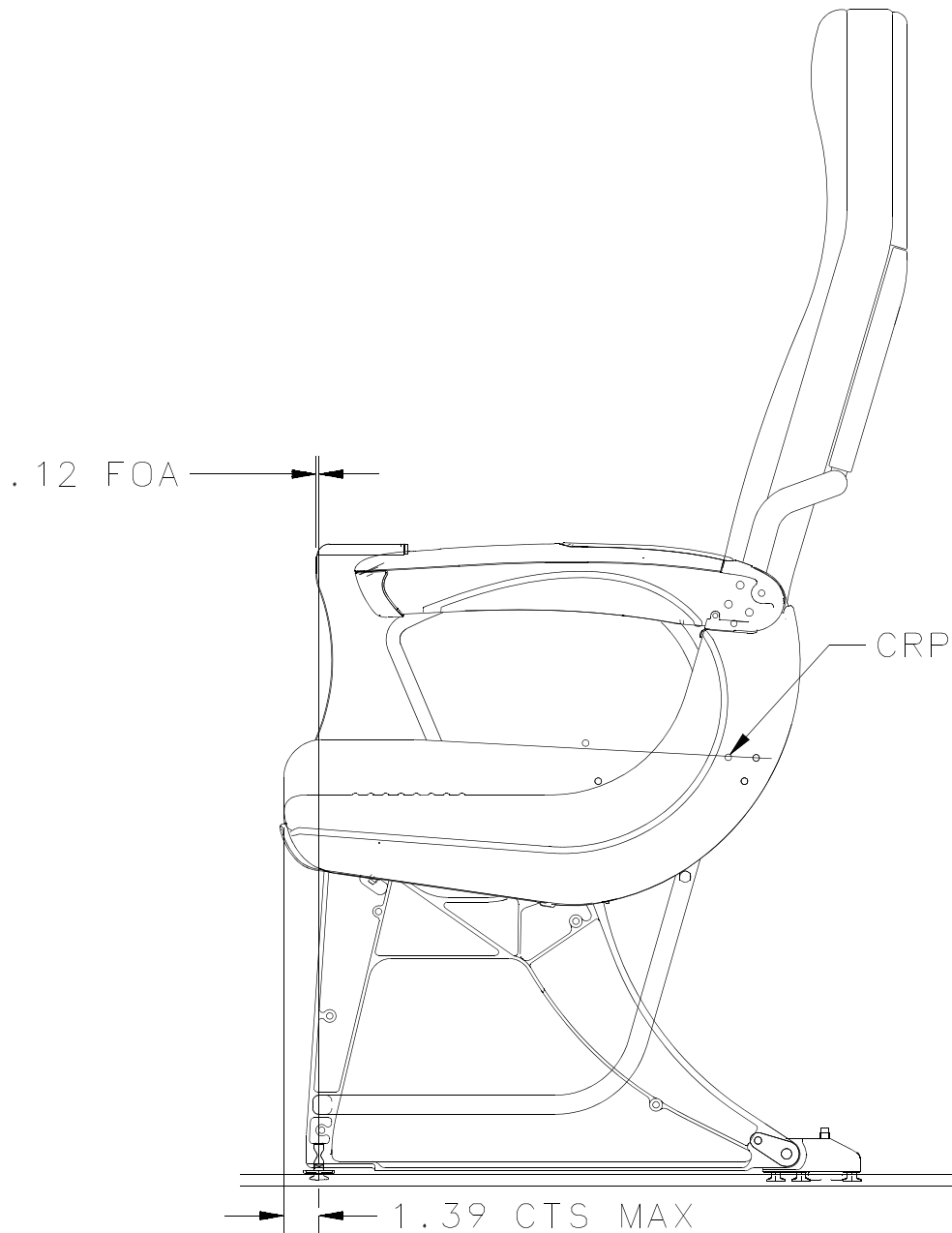
Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
Figure 3 (Sheet 23 of 32)

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**COMPONENT MAINTENANCE MANUAL**  
**PINNACLE® 1047191 SERIES**



Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
 Figure 3 (Sheet 24 of 32)

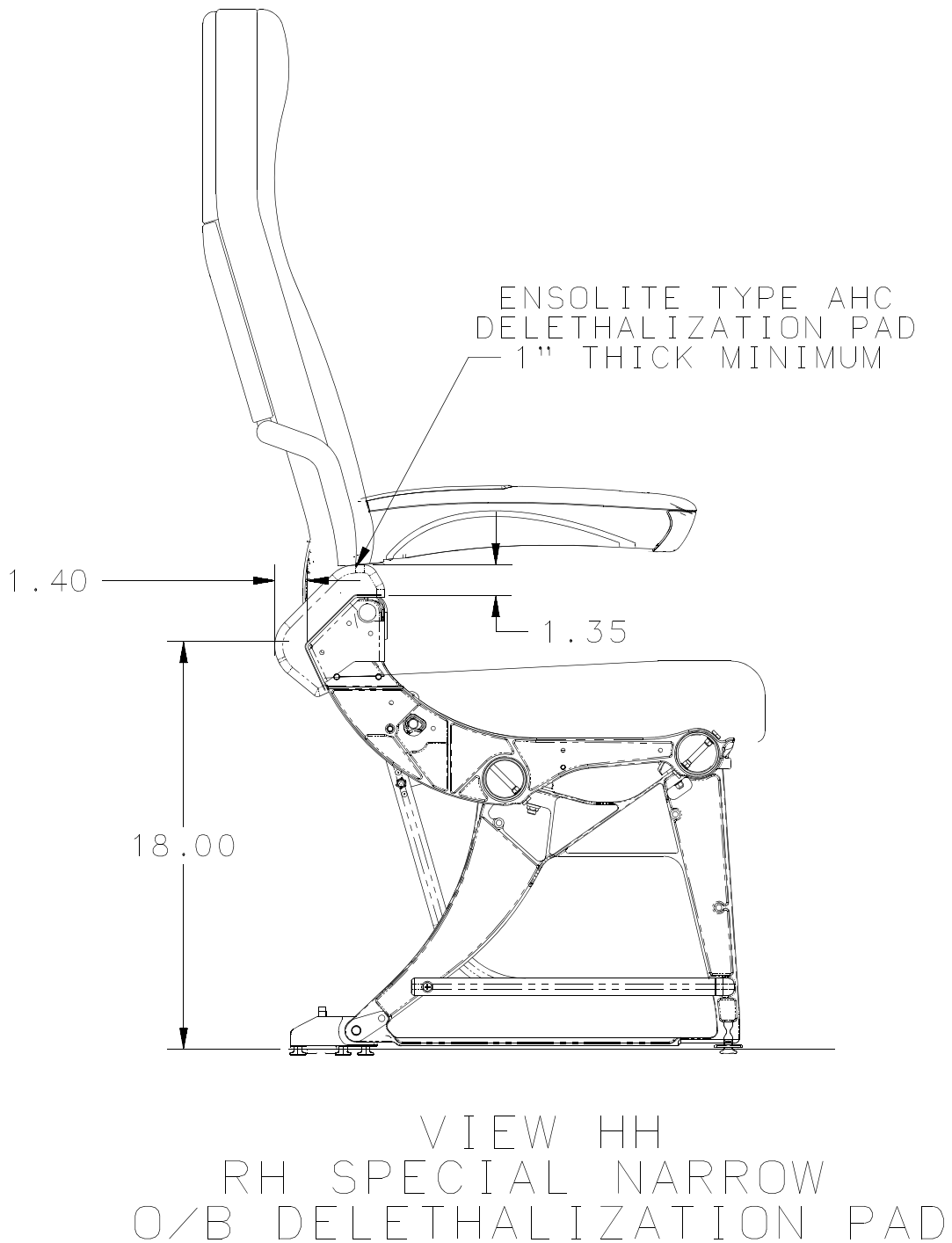
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COMPONENT MAINTENANCE MANUAL  
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VIEW GG  
SAME AS VIEW B EXCEPT AS SHOWN  
VIEW SHOWING OB IAT

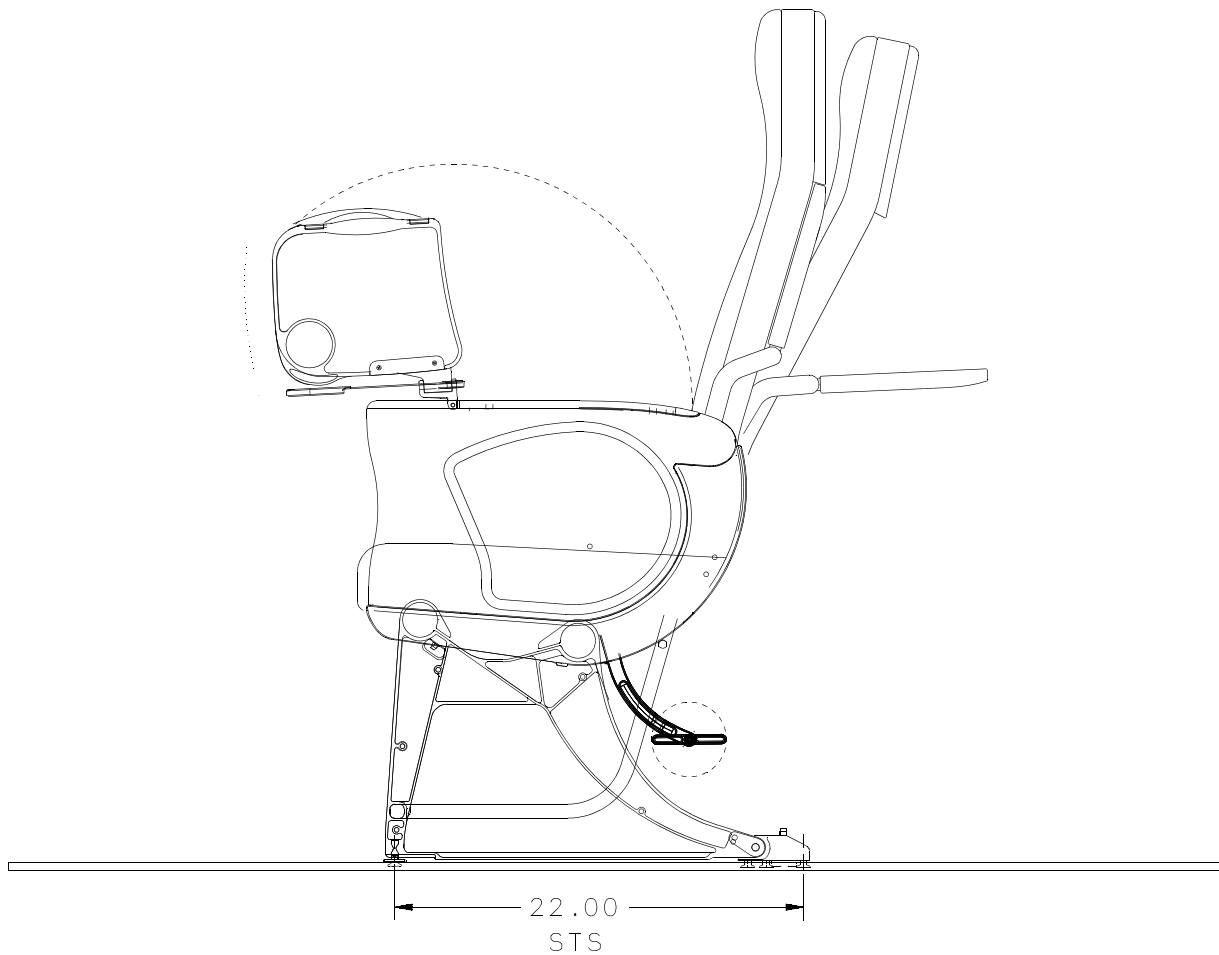
Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
Figure 3 (Sheet 25 of 32)

**B/E AEROSPACE**  
COMPONENT MAINTENANCE MANUAL  
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Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
Figure 3 (Sheet 26 of 32)

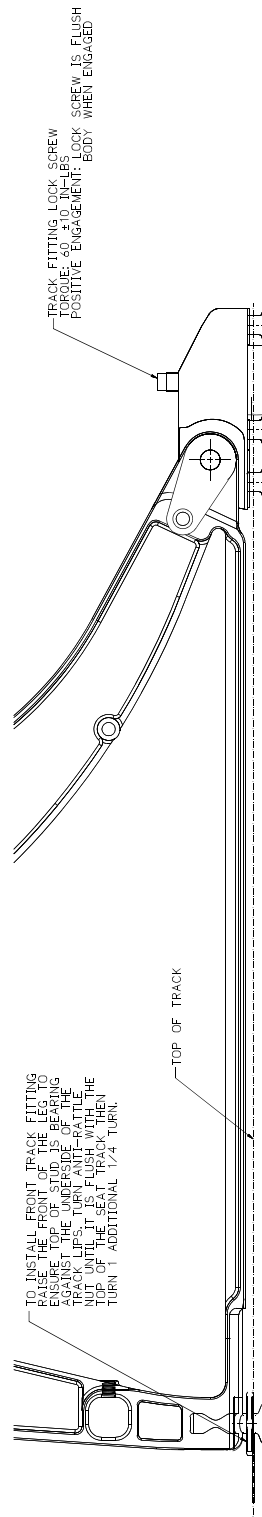
**B/E AEROSPACE**  
COMPONENT MAINTENANCE MANUAL  
PINNACLE® 1047191 SERIES



VIEW JJ  
FRONT ROW  
SAME AS VIEW B EXCEPT AS SHOWN

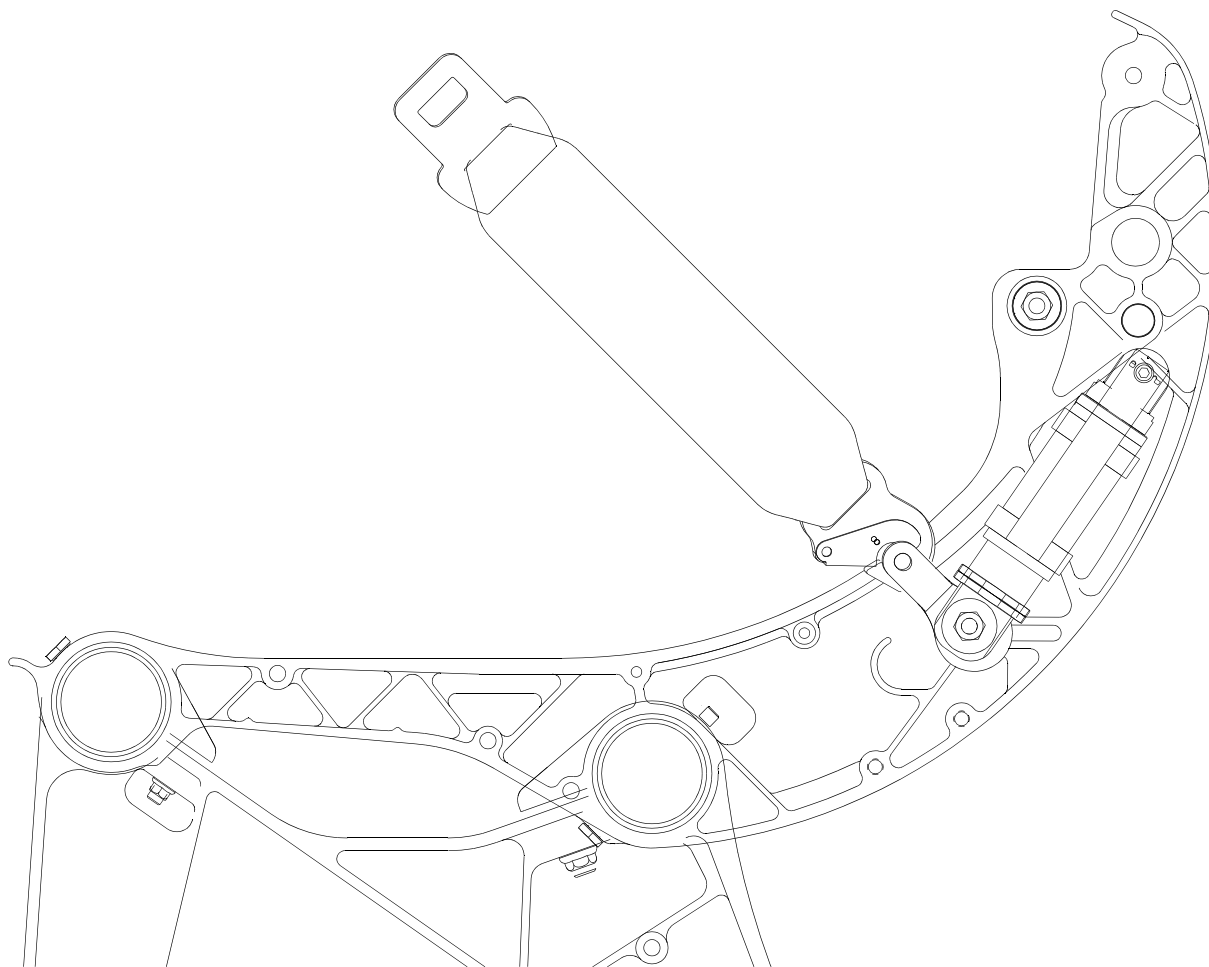
Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
Figure 3 (Sheet 27 of 32)

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Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
 Figure 3 (Sheet 28 of 32)

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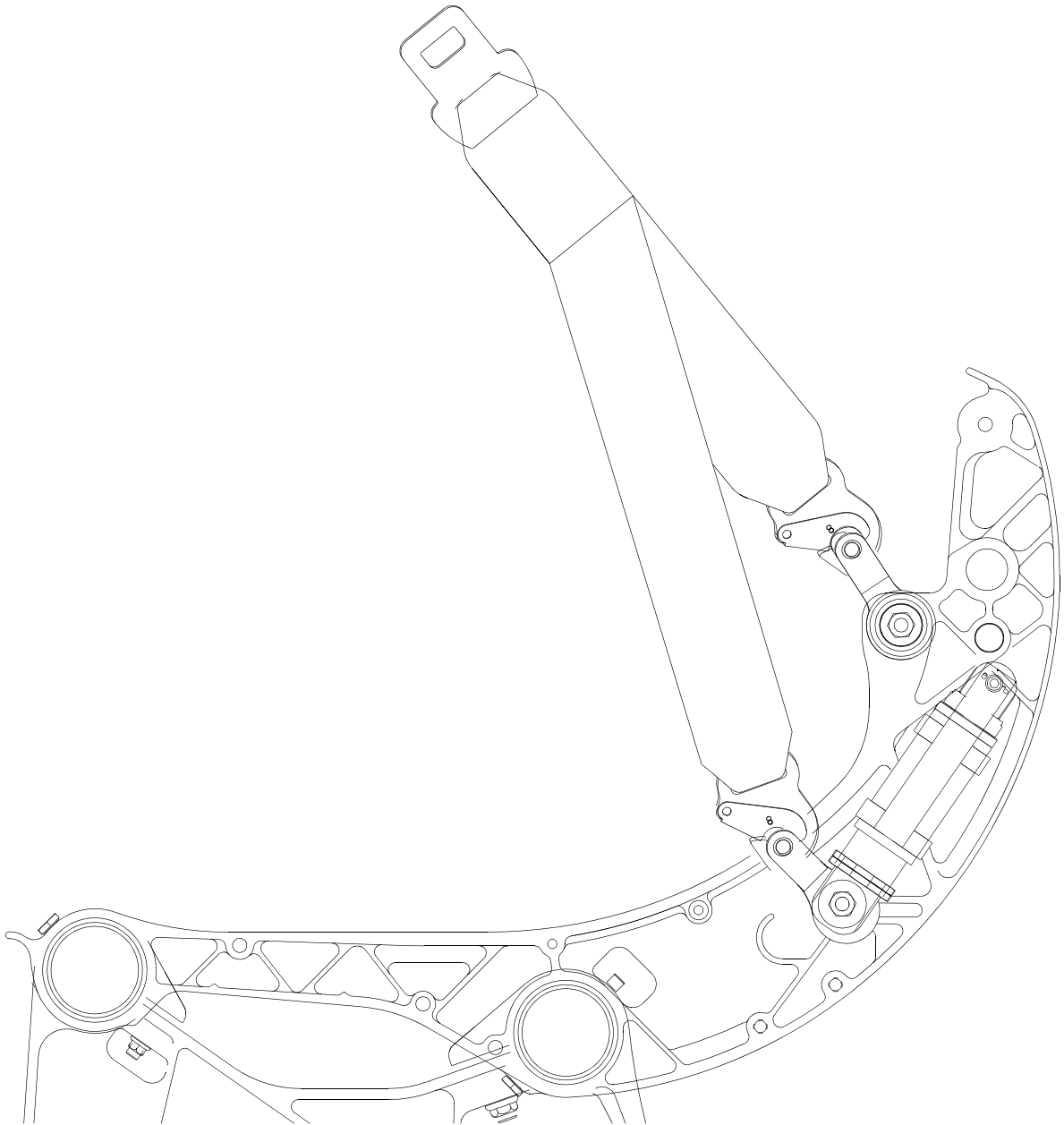


TYPICAL SEAT BELT ATTACHMENT

Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
Figure 3 (Sheet 29 of 32)



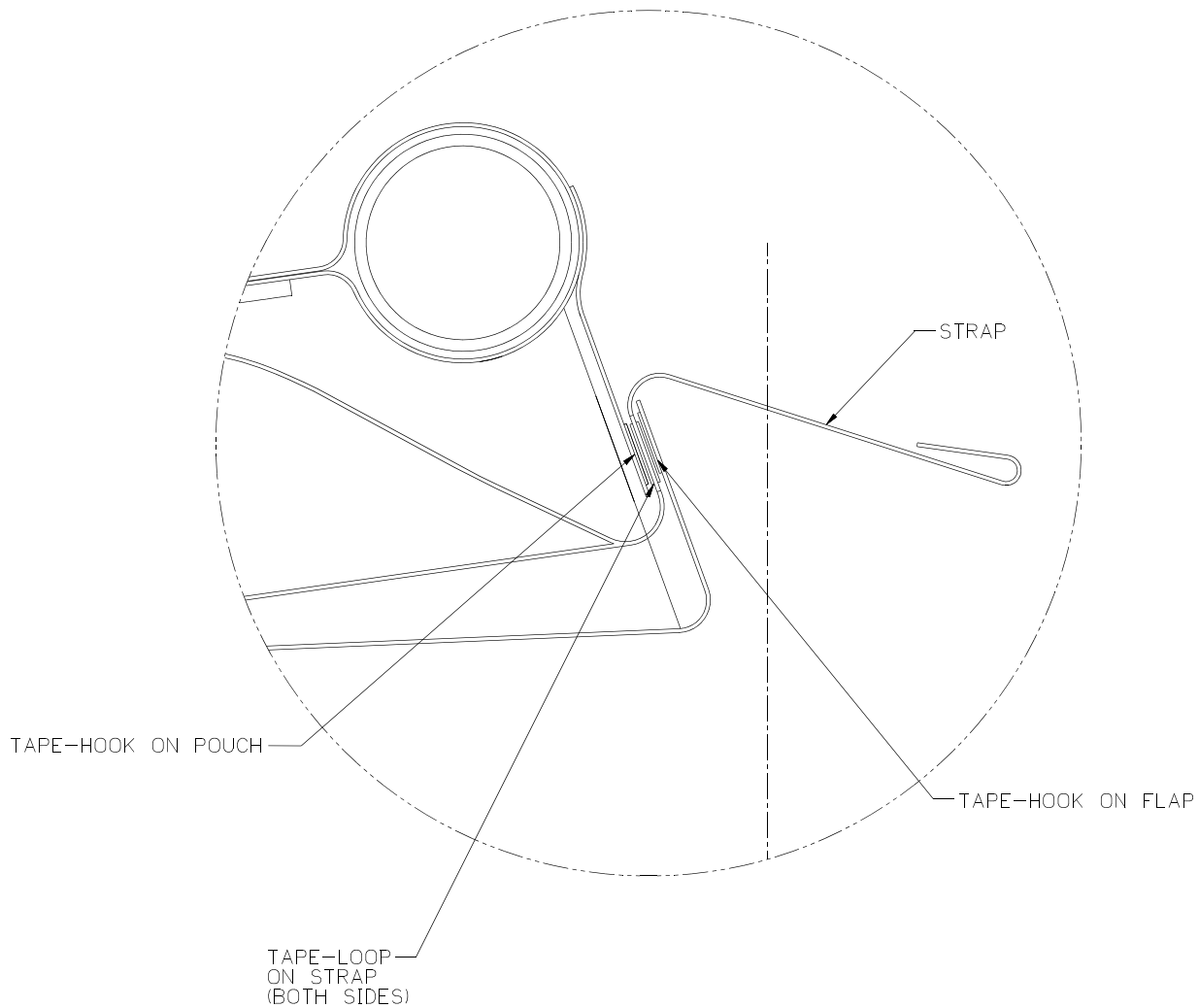
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TYPICAL Y-BELT ATTACHMENT  
STITCHED COVER NOT SHOWN FOR CLARITY

Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
Figure 3 (Sheet 30 of 32)

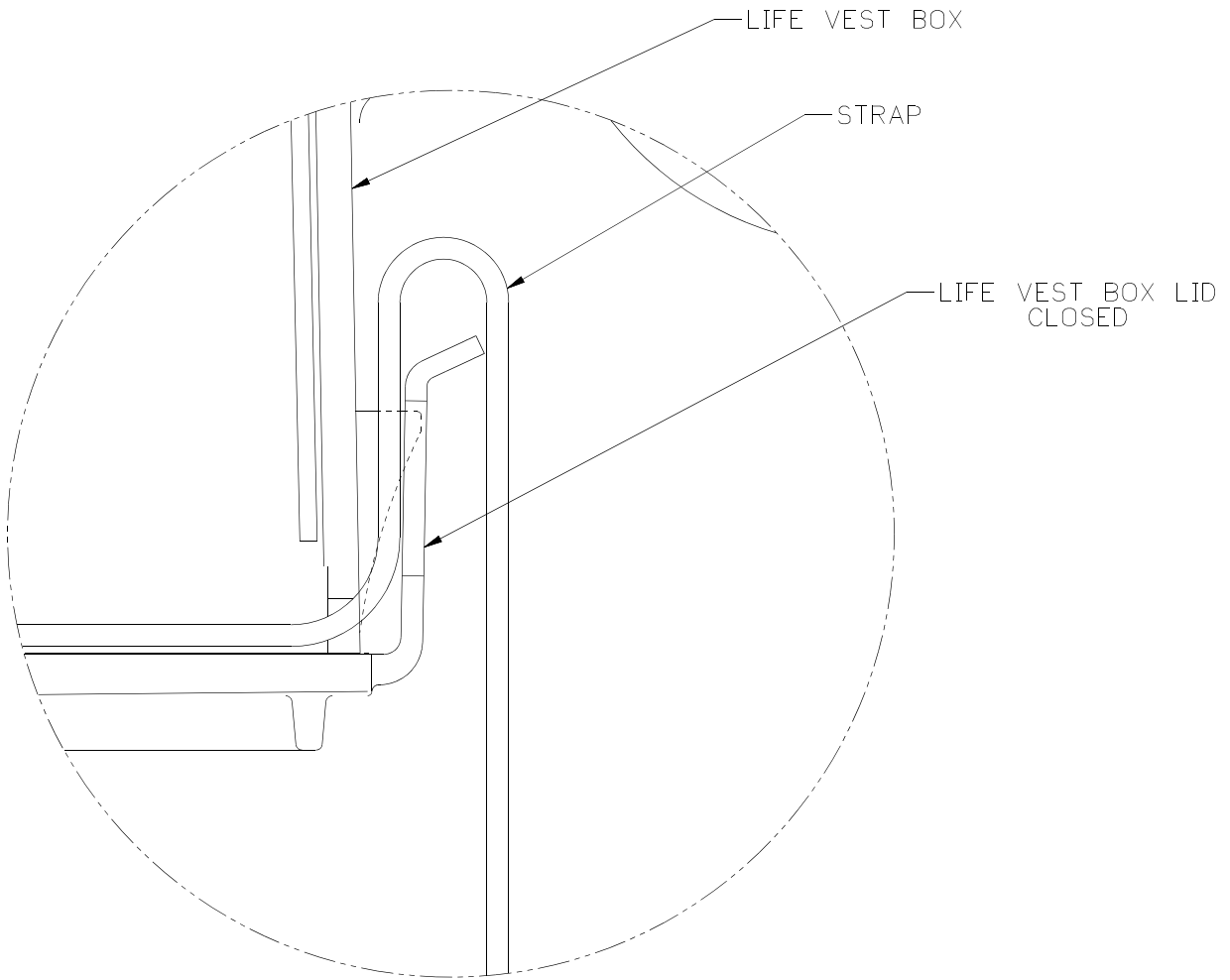
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LIFE VEST POUCH DETAIL

Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
Figure 3 (Sheet 31 of 32)

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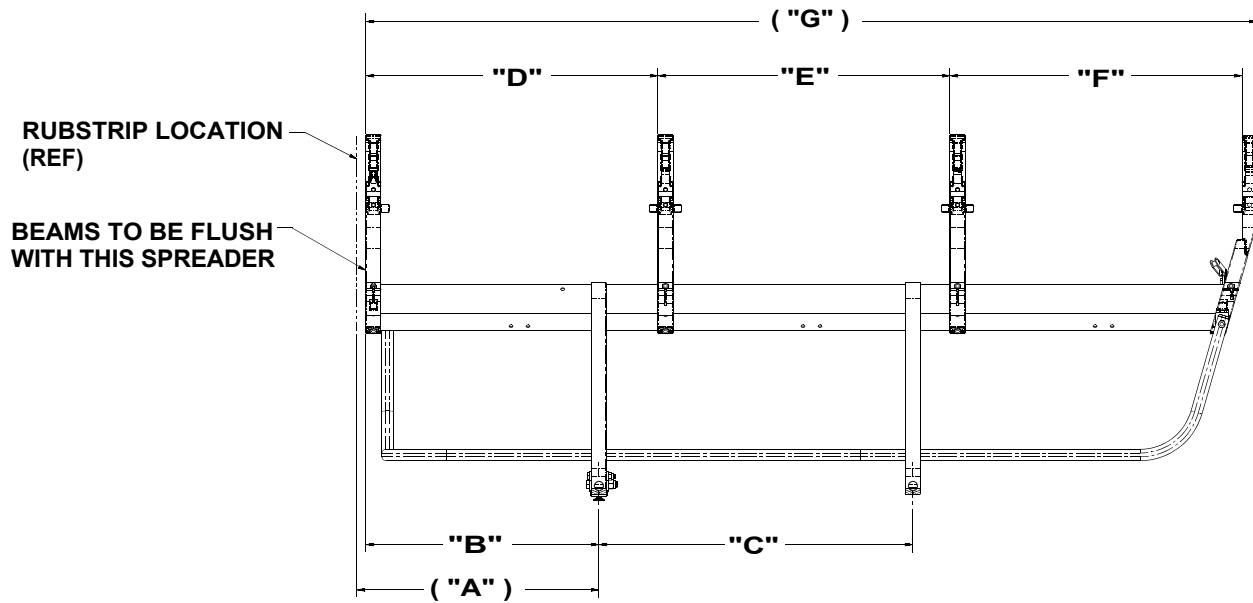
HARD LIFE VEST BOX DETAIL

Basic Seat Dimensions (Basic Dimension Drawing 36670 - Boeing)  
Figure 3 (Sheet 32 of 32)

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Table 2  
 Frame Assembly Dimensions, Part Number 1011432 (Refer to IPL Figure 15)

DASH NO.	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	SEAT WIDTH	AIRCRAFT TYPE
-001, -002	15.99	15.40	20.75	19.30	19.30	19.30	58.90	59.99	B737-800
-003, -004	15.00	14.40	20.75	19.30	19.30	18.30	57.90	58.99	B737-800
-005, -006	16.24	15.65	20.75	18.30	18.30	18.30	55.90	56.99	B737-800
-007, -008	15.99	15.40	20.75	19.30	18.30	18.30	56.90	57.99	B737-800
-009, -010	15.99	15.40	20.75	19.30	19.30	19.30	58.90	59.99	B737-800
-103, -104	14.00	13.40	20.75	18.30	18.30	18.30	55.90	56.99	B737-800



3. Description

A. General

The seats described in this CMM are forward facing and are of the types stated in Table 1. Figure 4 show the main assemblies found on the triple seats.

Each seat unit consists of an aircraft-quality aluminum main frame comprised of high-tensile front and rear stretcher beams, machined spreaders with supporting leg structures, individual adjustable backrests with recline control, armrests, full-width foodtray assemblies, and literature pockets.

B. Standard Pinnacle® Features

The Pinnacle® seats have the following standard features:

- Injection-molded armcaps
- Injection-molded arm escutcheons
- Injection-molded aisle bumper strips
- Fabric seat bottom diaphragms
- Quick-change seat covers
- Metal armrest structures with electrostatic powder finish
- Steel literature pocket springs.

C. Baggage Bar (Restraint Tube)

The baggage bar (restraint tube) assembly is a formed tubular structure attached to the aisle/outboard spreaders and legs with brackets, bolts, and nuts.

D. Leg Assembly

Each seat assembly has two leg assemblies. Each leg assembly is a machined aluminum leg structure clamped to the main frame stretcher beams by bolts and nuts. The leg assembly also contains a pivoted rear foot assembly having stud fasteners with a spring-loaded shear plunger. Tighten or loosen the clamp screw on top of the block to adjust the stud fasteners in the seat track. The front of the leg assembly contains a stud fastener and an anti-rattle nut that helps eliminate seat rattle.

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E. Armrest Assembly

Armrests are aluminum box structures. Except for seats with in-arm foodtrays, aisle armrests can turn upright. To do so, push the release latch installed below and to the rear of the armrest in front of the armrest pivot and lift the armrest. Each passenger position has a recline control button.

F. IAT Module Assembly

**CAUTION:** DO NOT PUT OBJECTS COLDER THAN 10 DEGREES CELSIUS (50 DEGREES FAHRENHEIT) OR HOTTER THAN 71 DEGREES CELSIUS (160 DEGREES FAHRENHEIT) ON THE IN-ARM FOODTRAY ASSEMBLY. THIS WILL HELP PREVENT DAMAGE TO THE FOODTRAY. TEMPERATURES COLDER THAN 10 DEGREES CELSIUS (50 DEGREES FAHRENHEIT) OR HOTTER THAN 71 DEGREES CELSIUS (160 DEGREES FAHRENHEIT) CAN CAUSE THE FOODTRAY TO WARP AND POSSIBLY COME APART.

IAT (In-Arm Table) module assemblies are used as an alternative to armrests on front row seats or where a standard back-mounted foodtray assembly cannot be used. The IAT module has a recline control button and contains a fold-out foodtray assembly.

G. Backrest Assembly

The passenger can adjust the recline of the backrest assembly. Contoured foam cushions cover the aluminum backrest assemblies. They are installed on hook-and-loop straps attached to the backrest frame. The backrest cover is attached with hook-and-loop tape. A fabric literature pocket is attached to the rear back panel. A rotating foodtray latch attached at the rear of the backrest holds the back-mounted foodtray against the backrest assembly.

H. Seat Belt Tip / Buckle Location

Seat belt's tip / buckle locations for the triple seats are as follow (from outboard to inboard):

- (1) Outboard location: Tip / Buckle,
- (2) Center location: Buckle / Tip,
- (3) Inboard location: Buckle / Tip.

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**J. Seat Recline**

The passenger controls the recline of the backrest assembly with a recline unit (UltraLOC™) connected to an activation button on the recline arm of the backrest by a cable. The UltraLOC units are tamper-proof and pre-set to the correct recline dimensions. Some seats located at certain positions on the aircraft may have limited or no recline to conform to aviation regulations.

The UltraLOC is activated by pushing the release button located in the arm assembly. Hydraulic fluid in the UltraLOC prevents the seat back from moving rearward unless the button is pushed. When the button is pushed, the recline cable retracts, causing the release lever on the UltraLOC to open an internal valve which permits the hydraulic fluid to be released.

Once compressed, the UltraLOC can return to its extended position (Take-Off / Land position) by internal spring pressure when the button is depressed with no weight on the seat back. The seat back may also be restored to the Take-Off / Land position by pushing on the rear of the seat without releasing the UltraLOC. This feature is called break over and is set to operate at between 8 to 15 LB of pressure. An UltraLOC has not failed if the seat back can be pushed from recline to Take-Off / Land without activating the release button.

**K. Back-Mounted Foodtray Assembly**

**CAUTION:** DO NOT PUT OBJECTS COLDER THAN 10 DEGREES CELSIUS (50 DEGREES FAHRENHEIT) OR HOTTER THAN 71 DEGREES CELSIUS (160 DEGREES FAHRENHEIT) ON THE BACK-MOUNTED FOODTRAY ASSEMBLY. THIS WILL HELP PREVENT DAMAGE TO THE FOODTRAY. TEMPERATURES COLDER THAN 10 DEGREES CELSIUS (50 DEGREES FAHRENHEIT) OR HOTTER THAN 71 DEGREES CELSIUS (160 DEGREES FAHRENHEIT) CAN CAUSE THE FOODTRAY TO WARP AND POSSIBLY COME APART.

The back-mounted foodtray assemblies are vacuum-formed ABS plastic foodtrays with integral aluminum slide rods. The foodtrays are located on the rear of the backrest assembly. When the foodtray is in use, the position of the foodtray is not changed by the recline of the backrest assembly. When the foodtray is in use, it can slide to a maximum of 3.0" as necessary for the passenger. Each foodtray is supported by two machined aluminum leg assemblies. When the foodtray is lowered from the seat back, the lower part of the leg assembly stops on the tray leg stop. To adjust the friction at the foodtray hinge points, adjust the applicable screws. To remove the foodtray assembly, break the backrest assembly forward and pull the foodtray legs away from the pivot pins.

**L. Seat Cushions**

Backrest seat cushions are made of fire-retardant foam. Bottom seat cushions are made of polyurethane foam with fireblocking covers. The bottom cushions attach to the fabric diaphragms with hook-and-loop tape. The fabric diaphragms are fitted between the front and rear stretcher beams using aluminum tubes mounted between the spreaders.

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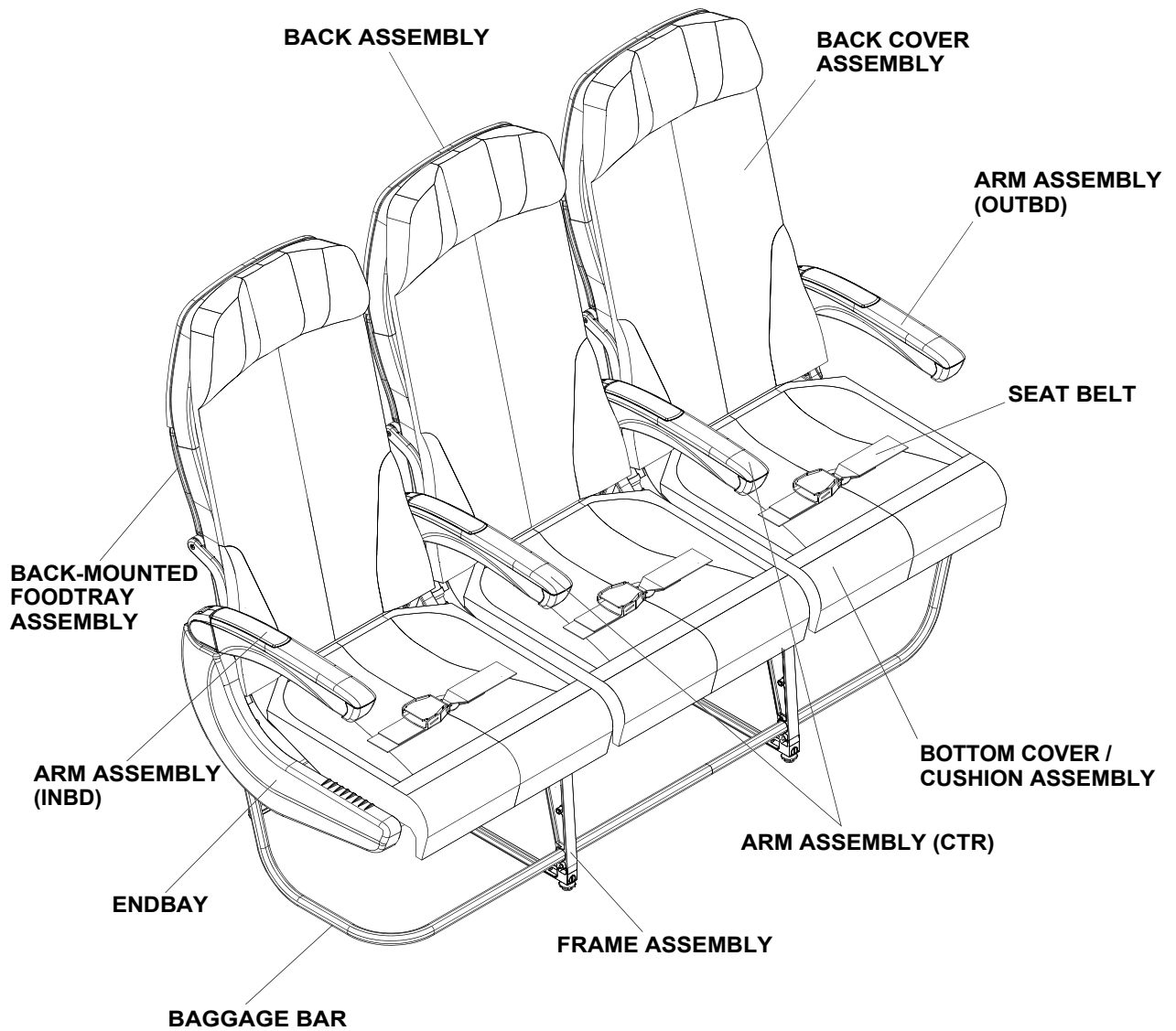
**M. Nameplate - TSO Tag with QR**

The Nameplate - TSO Tag (P/N 1002933-023), located on the seat frame, contains a QR Code that can be read by an appropriate hand-held scanner, pointed at the TSO Tag. The QR Code contains the birth record of the seat, including it's model number, serial number, and date and place of manufacture. This information can then be read or downloaded from the scanner.

The Nameplate - TSO Tag is located on the aisle or center side of the rear beam facing AFT.



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Pinnacle® Triple Seat Assembly  
Figure 4

4. Seat Assembly Operation

A. Back Assembly

To move any backrest from the upright to the recline position, press the recline control push button and apply pressure against the backrest. When the control push button is released, the backrest is restrained from any further movement.

To move the backrest from the recline to the upright position, press the recline control button, release pressure from the backrest, and it will return automatically to the normal upright position.

The recline unit incorporates an override device that allows the backrest to be moved from the recline position to any angle up to and including the normal upright position by the application of a nominal load at the backrest top.

Seats abutting the aft bulkhead do not recline.

B. Back-Mounted Foodtray Assembly

To release the stowed back-mounted foodtray assembly, rotate the foodtray latch until it fully clears the foodtray and then lower the foodtray for use in the horizontal position.

To stow the back-mounted foodtray assembly, fold the foodtray upward and forward until it is completely flush to the backrest, and then rotate the foodtray latch to engage and secure the foodtray assembly to the seat back.

C. In-Arm Foodtray Assembly

To deploy the in-arm foodtray assembly, open the hinged armcap, pull the foodtray up and forward to clear the armrest, and fold it out across the seat. Stow the foodtray by opening the armcap, folding the foodtray, and raising it upright. Lower the foodtray into the armrest assembly and close the armcap.

D. Attachment of the Seat Assembly

The seat assembly is attached to the aircraft seat tracks by securing the legs, fore and aft, with track fittings and screws.

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E. Seat Back Break Over Provision

Refer to Figure 5 and the following steps to break over the back assembly:

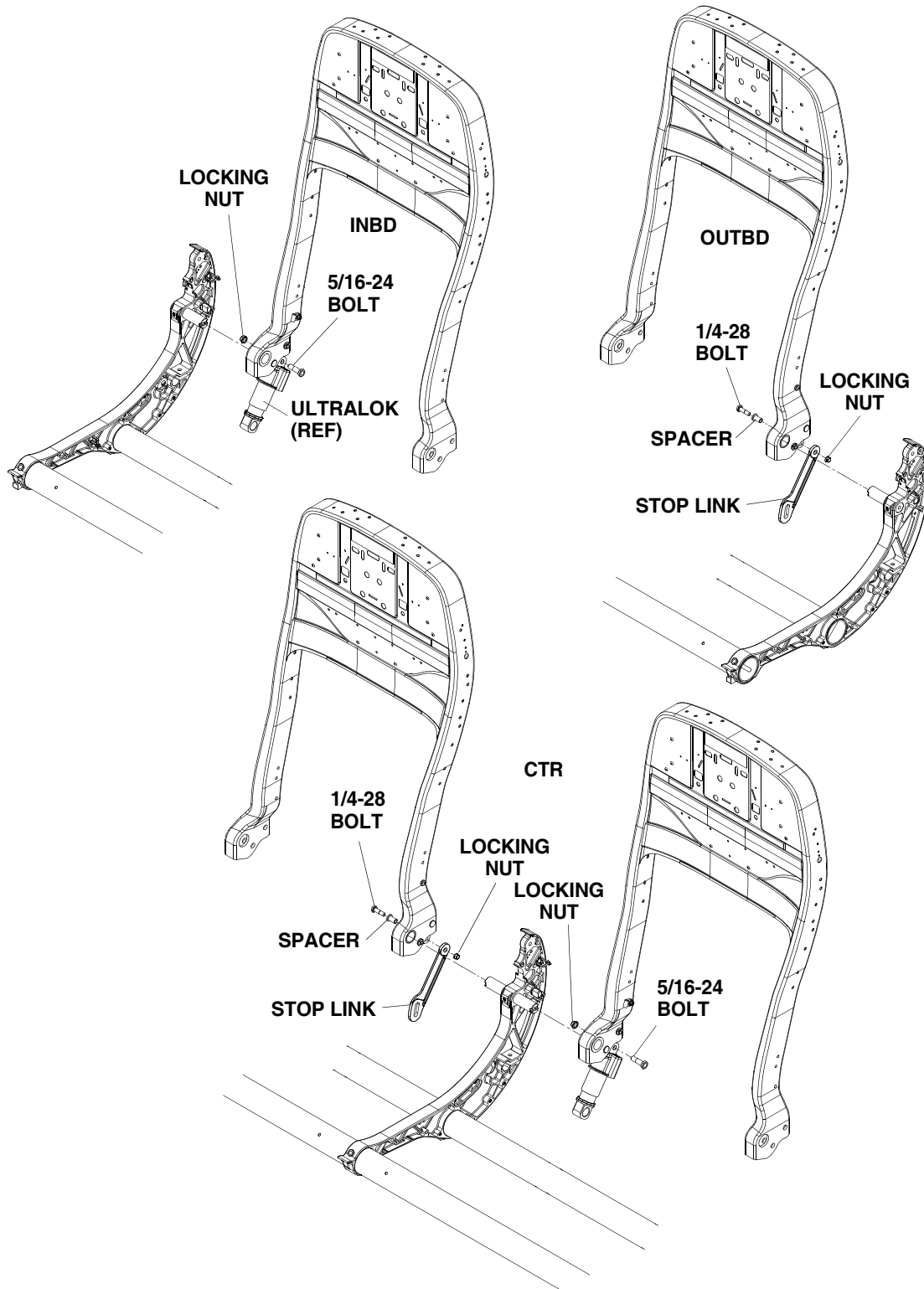
**NOTE:** Seat backs can be broken over as a stretcher provision or to make some maintenance tasks easier.

At the inboard location, remove the 5/16-24 bolt and locking nut securing the back assembly to the spreader. Reattach the hardware after breaking over the back so as not to lose it. On re-assembly torque to 160-200 IN-LB.

At the outboard location, remove the 1/4-20 bolt, spacer, stop link, and locking nut securing the back assembly to the spreader. Break over the back assembly and reattach the hardware so as not to lose it. On re-assembly, torque to 80-100 IN-LB.

At the center location, remove the 1/4-20 and 5/16-24 bolts, spacers, locking nuts and stop link securing the back assembly to the spreader. Break over the back assembly and reattach the hardware so as not to lose it. On re-assembly torque the 1/4-20 bolt and locking nut to 80-100 IN LB and torque the 5/16-24 bolt and locking nut to 160-200 IN-LB.

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Seat Back Break Over Provision  
Figure 5

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TESTING AND FAULT ISOLATION

1. Introduction

This Page Block specifies the tests required on each seat unit after assembly. A troubleshooting procedures table is included. This is a general guide, so your seat assembly may not have all of the equipment listed in the table.

A. Testing Procedure

- (1) Operate the recline mechanism by pressing the recline control button and moving the seat throughout the recline range. Check for smoothness of operation. The seat back assembly should return from any position of recline with the foodtray either up or down.

**NOTE:** The seats are prevented from breaking forward by a cable retaining shroud device installed on the hydraulic lock. Once the cable retaining shroud device is unlocked, the seat will break forward freely, with little pressure.

- (2) Check for smooth operation of the rear track fitting assembly.
- (3) Check that the front and rear track fitting assemblies are secure within the floor track.
- (4) Check the alignment of the center armrest with the side armrest.
- (5) Check that the foodtray assembly travels smoothly when lifted from the module and that the foodtray is level when deployed.

FAULT	PROBABLE CAUSE AND FAULT ISOLATION	CORRECTIVE ACTION
<b>ENDBAY ARM TOO LOOSE/TOO MUCH PLAY</b>	1. Attaching screw loose	Tighten screw and torque to proper value per Table 8001 in <u>FITS AND CLEARANCES</u> , Page Block 8000.
	2. Pivot bushing worn	Replace pivot bushing.
<b>IN-ARM FOODTRAY DIFFICULT TO RAISE TO A VERTICAL POSITION</b>	Pivot assembly worn or damaged	a. Inspect for bent or damaged parts. b. Replace damaged components. If necessary, replace the entire pivot assembly.

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FAULT	PROBABLE CAUSE AND FAULT ISOLATION	CORRECTIVE ACTION
<b>IN-ARM FOODTRAY TOO LOOSE WHEN IN VERTICAL POSITION</b>	1. Setscrew loose  2. Foodtray link pin broken or damaged	Tighten setscrew securing foodtray link pin.  a. Remove setscrew securing foodtray link pin.  b. Drive out broken/damaged foodtray link pin.  c. Insert new link pin.  d. Install setscrew to hold link pin in place.
<b>IN-ARM FOODTRAY WILL NOT SWIVEL OR ROTATE</b>	1. Foodtray pivot bushing broken, bent, or damaged  2. Pivot assembly broken, bent, or damaged	Replace foodtray pivot bushing. If problem persists, go to step 2.  Replace foodtray pivot assembly.
<b>IN-ARM FOODTRAY WILL NOT SLIDE FREELY IN DOWN OR HORIZONTAL POSITION</b>	1. Slide rod bent, or damaged  2. Slide plate rails dirty or corroded	Replace any bent/damaged slide rod and O-rings.  Clean slide plate rails, and then apply only clear paraffin wax to allow for smooth and easy sliding action.
<b>BACK-MOUNTED FOODTRAY NOT LEVEL</b>	1. Foodtray movement obstructed  2. Foodtray leg(s) bent or damaged  3. Foodtray slides bent  4. Bonded foodtray assembly damaged	Check for and remove any obstruction.  Replace any damaged part(s).  Replace the bent foodtray slides.  Replace the foodtray assembly.

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FAULT	PROBABLE CAUSE AND FAULT ISOLATION	CORRECTIVE ACTION
<b>SEAT LEGS LOOSE IN FLOOR TRACKS</b>	Studs in legs extended too far	Adjust suspected stud by screwing further into leg.
<b>SEAT ASSEMBLY DOES NOT SECURELY LOCK TO AIRCRAFT SEAT TRACKS</b>	Lock mechanism worn or damaged	Visually inspect for damaged parts and replace as required.
<b>SEAT BACK NOT ALIGNED IN UPRIGHT POSITION</b>	Clocking spindle not properly adjusted	Adjust upright setting with clocking spindle.
<b>SEAT BACK WILL EITHER NOT RECLINE, LOCK IN RECLINE POSITION, OR RETURN TO UPRIGHT FROM RECLINE POSITION</b>	1. Recline cable not properly connected to the hydraulic lock	a. Remove the cable retaining shroud device and make sure the recline cable is properly connected to the tab on the hydraulic lock.  b. With the cable retaining shroud device removed, press the recline control button and verify the operation of the cable and hydraulic lock tab.
	2. Recline cable damaged	If the recline cable does not operate properly, replace the cable.
	3. Recline cable kinked	Reroute the cable harness and ensure that it is correctly placed and tied down according to cable harness drawings.
	4. Recline button not properly installed	Remove the armrest escutcheon and make sure the spring clip on the recline button is properly engaged on the recline button bezel.

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FAULT	PROBABLE CAUSE AND FAULT ISOLATION	CORRECTIVE ACTION
<b>SEAT BACK WILL EITHER NOT RECLINE, LOCK IN RECLINE POSITION, OR RETURN TO UPRIGHT FROM RECLINE POSITION (CONT'D)</b>	5. Hydraulic lock faulty	<p>After checking items 1 through 4, if the seat recline still does not function properly, replace the hydraulic lock.</p> <p><u>NOTE:</u> If a replacement hydraulic lock is not available the seat recline can be disabled in one of two ways:</p> <ol style="list-style-type: none"> <li>1. Loosen the jam nuts and turn them upwards until they contact the barrel of the hydraulic lock.</li> <li>2. Disconnect the recline cable from the hydraulic lock.</li> </ol>
<b>BOTTOM DIAPHRAGM LOOSE OR SAGGING</b>	<ol style="list-style-type: none"> <li>1. Diaphragm support tube out of position</li> <li>2. Diaphragm unserviceable</li> </ol>	<p>Reseat the support tube.</p> <p>Replace the diaphragm.</p>



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FAULT	PROBABLE CAUSE AND FAULT ISOLATION	CORRECTIVE ACTION
<b>RECLINE CONTROL PUSH BUTTON WILL NOT MOVE</b>	1. Control button stuck	<p>a. Before removing the button end of the recline control assembly, remove the cable retaining shroud device and visually check the hydraulic lock end of the cable to verify that the cable has not slipped out from the slot. If it has slipped out, it is probably due to the spring becoming loose and allowing too much slack in the cable. Reinsert the cable into the slot and test.</p> <p>b. If the hydraulic lock end of the recline control assembly is correct, remove the button end from the armrest shroud and visually check that the cable has not slipped out from the control button end. If it has, reinsert the cable into the slot and test.</p> <p>c. After checking the cable and verifying a correct installation, check to verify that the retaining spring (button end) is not missing or that the retaining spring has been properly seated (seats from the front and not the back). If not correct, replace the retaining spring.</p> <p>d. Replace entire recline control assembly.</p>
	2. Control line broken	Replace entire recline control assembly.
<b>EXCESSIVE BACK PLAY</b>	1. Hydraulic lock hardware loose	Check and tighten the lock hardware.
	2. Back installation hardware loose	Check and tighten the back hardware.
	3. Hydraulic lock unserviceable	Replace the hydraulic lock.

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DISASSEMBLY

1. General

CAUTION: DO NOT REMOVE RIVETED ASSEMBLIES OR SUBASSEMBLIES UNLESS DAMAGE MAKES IT NECESSARY TO REPLACE A PROCURABLE PART. (REFER TO THE ILLUSTRATED PARTS LIST FOR A LIST OF PROCURABLE PARTS.) REMOVING AND INSTALLING RIVETS AGAIN AND AGAIN WILL DAMAGE ADJACENT SURFACES AND MAKE THE RIVET HOLES LARGER.

CAUTION: DO NOT DISASSEMBLE RIVETED, CEMENTED, OR BONDED SUBASSEMBLIES. IF THE ASSEMBLY IS DAMAGED AT THESE POINTS, REPLACE THE ENTIRE ASSEMBLY.

NOTE: Unless there is a plan to replace hardware removed in disassembly, safely store all removed hardware for replacement at assembly. Use plastic bags and markers as necessary to record the assemblies and seat part numbers for which the hardware is to be used.

- A. This section gives complete disassembly instructions for the full seat assembly. To repair or replace a part or subassembly, disassemble only as much as necessary to repair or replace the damaged part or subassembly.
- B. Read all instructions and look at the related illustrations before starting disassembly.
- C. Identify all parts with a label before removal.
- D. TESTING AND FAULT ISOLATION (Page Block 1000) contains procedures used to make an analysis of the operation and condition of subassemblies. It contains a table that identifies possible malfunctions and gives procedures to correct the malfunctions.
- E. INSPECTION/CHECK (Page Block 5000) contains procedures used to inspect parts and subassemblies. Inspections will help in making decisions to set adjustments, clean subassemblies, and repair or replace damaged parts.
- F. REPAIR (Page Block 6000) contains procedures used to make small repairs.
- G. DESCRIPTION AND OPERATION at paragraph 4.E contains procedures to break over the seat back, whether for stretcher provision or to make some maintenance tasks simpler.

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2. Removal of the Seat Assembly from the Aircraft

**CAUTION:** DO NOT SLIDE THE SEAT ASSEMBLY ACROSS ABRASIVE SURFACES; THIS WILL CAUSE TOO MUCH WEAR ON THE TRACK STUDS AND FITTINGS.

Seat assemblies are attached to the aircraft seat tracks with a stud and anti-rattle nut located at the bottom of the forward leg and a track fitting assembly located at the bottom of the rear leg. See Figure 3001 for examples.

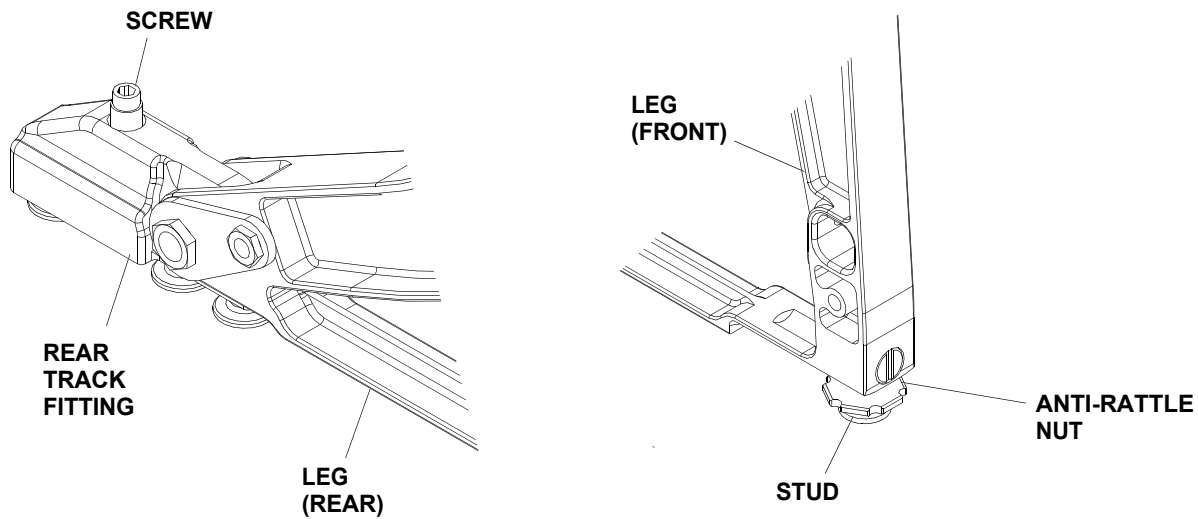


Figure 3001

- A. Loosen the stud under the front of the leg by loosening the anti-rattle nut.
- B. Loosen the screw on top of the rear track fitting. This will loosen the plunger that attaches the studs to the aircraft seat tracks.
- C. Push the seat assembly either forward or aft one-half inch and lift it off the aircraft seat tracks.

**NOTE:** Track savers are recommended to protect the track fittings when the seat is removed from the aircraft. They can be ordered from B/E Aerospace.

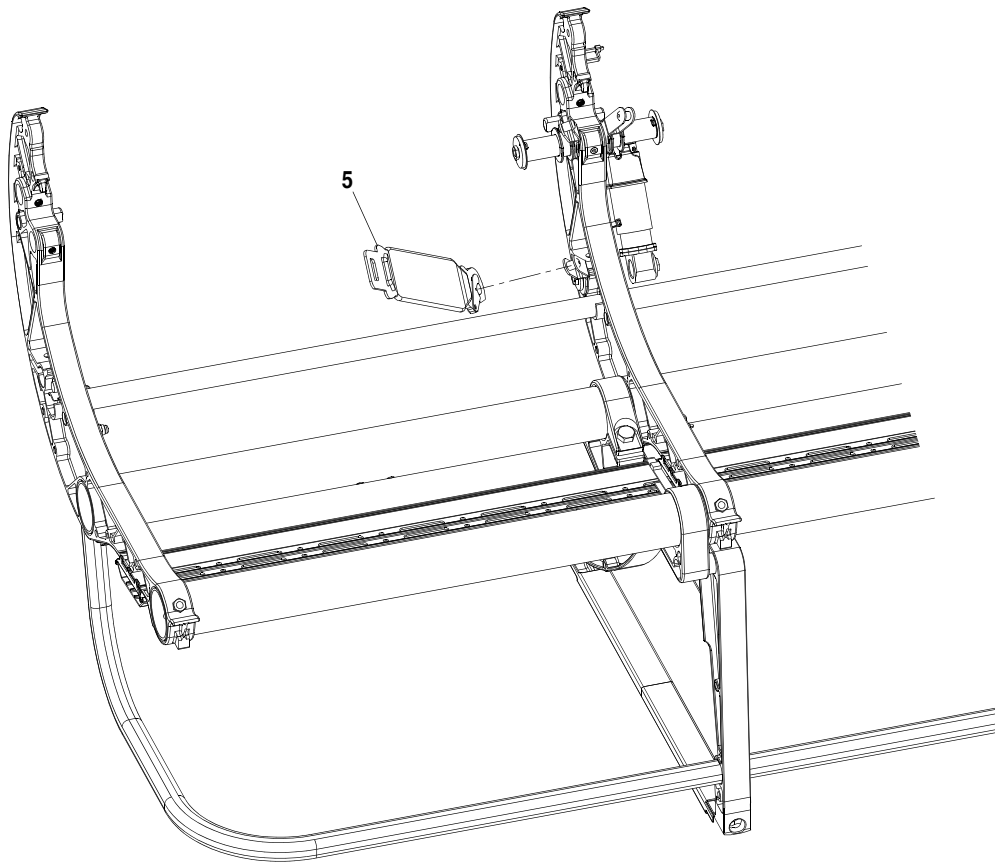
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3. Disassembly Procedures

A. Removal of the Dress Covers and Cushions  
(Refer to IPL FIG 1)

- (1) To remove the bottom covers (5, 10, 15) and bottom cushion assemblies (20, 25, 30), pull the hook fasteners away from the pile fasteners.
- (2) To remove the back covers (35, 40, 45), pull the hook fasteners away from the pile fasteners.

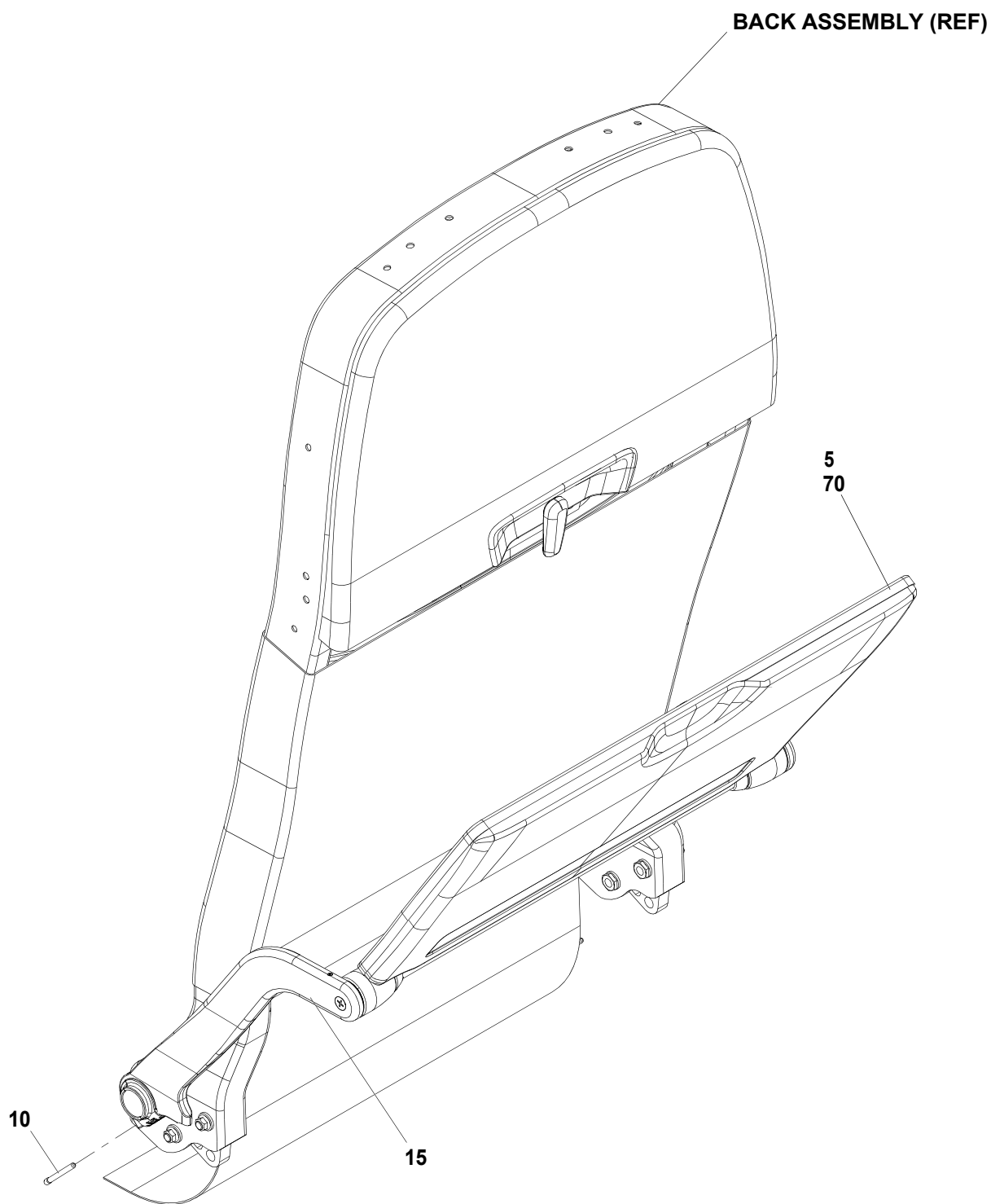
B. Removal of the Seat Belt Assembly  
(Refer to the illustration in this procedure and IPL FIG 2)



- (1) Remove the lap belt assemblies (5) by unhooking the ends of each seat belt from the shackle assemblies.

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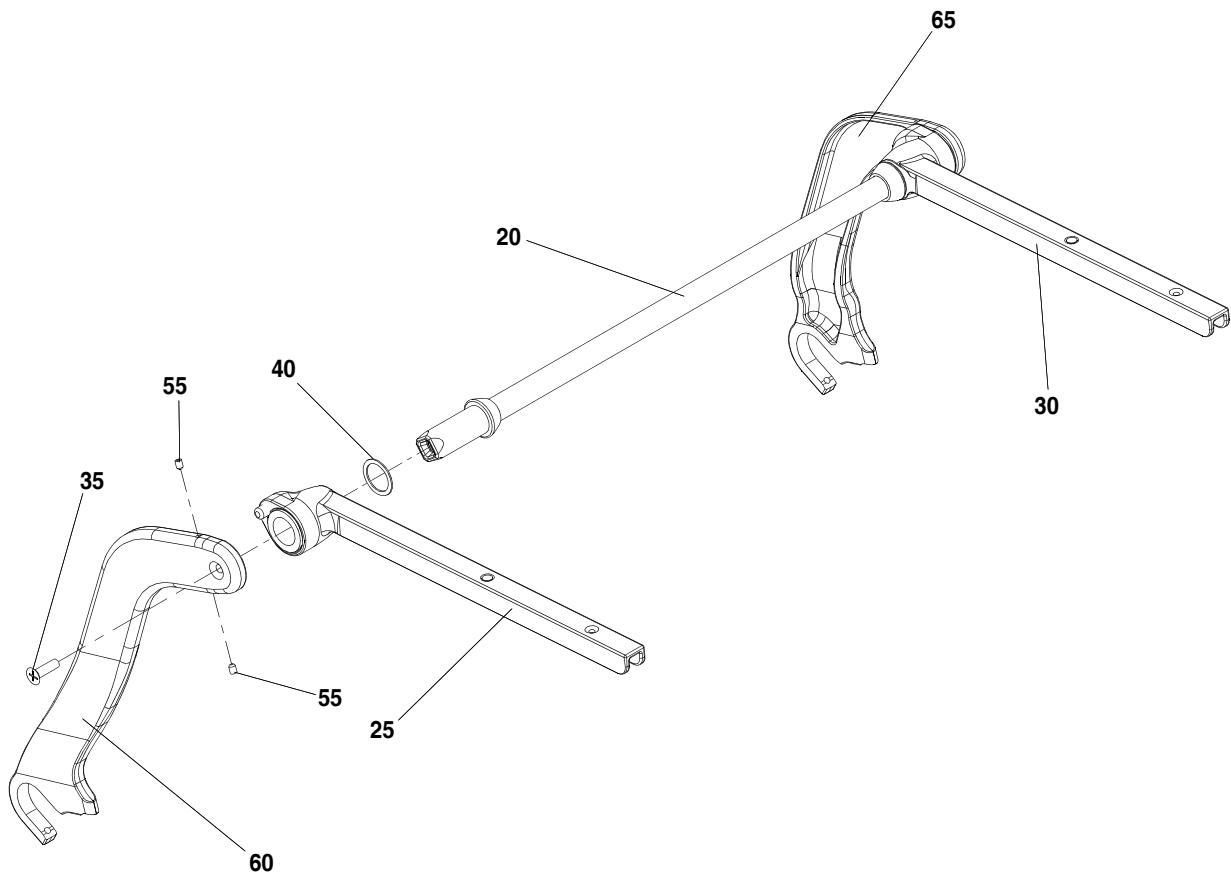
C. Removal of the Back-Mounted Foodtray Assembly  
(Refer to the illustrations in this procedure and IPL FIG 3)



- (1) Remove the foodtray assembly (5) from the bonded foodtray assembly (70) by removing the foodtray leaf hinge pins (10) from the foodtray arm assembly (15).

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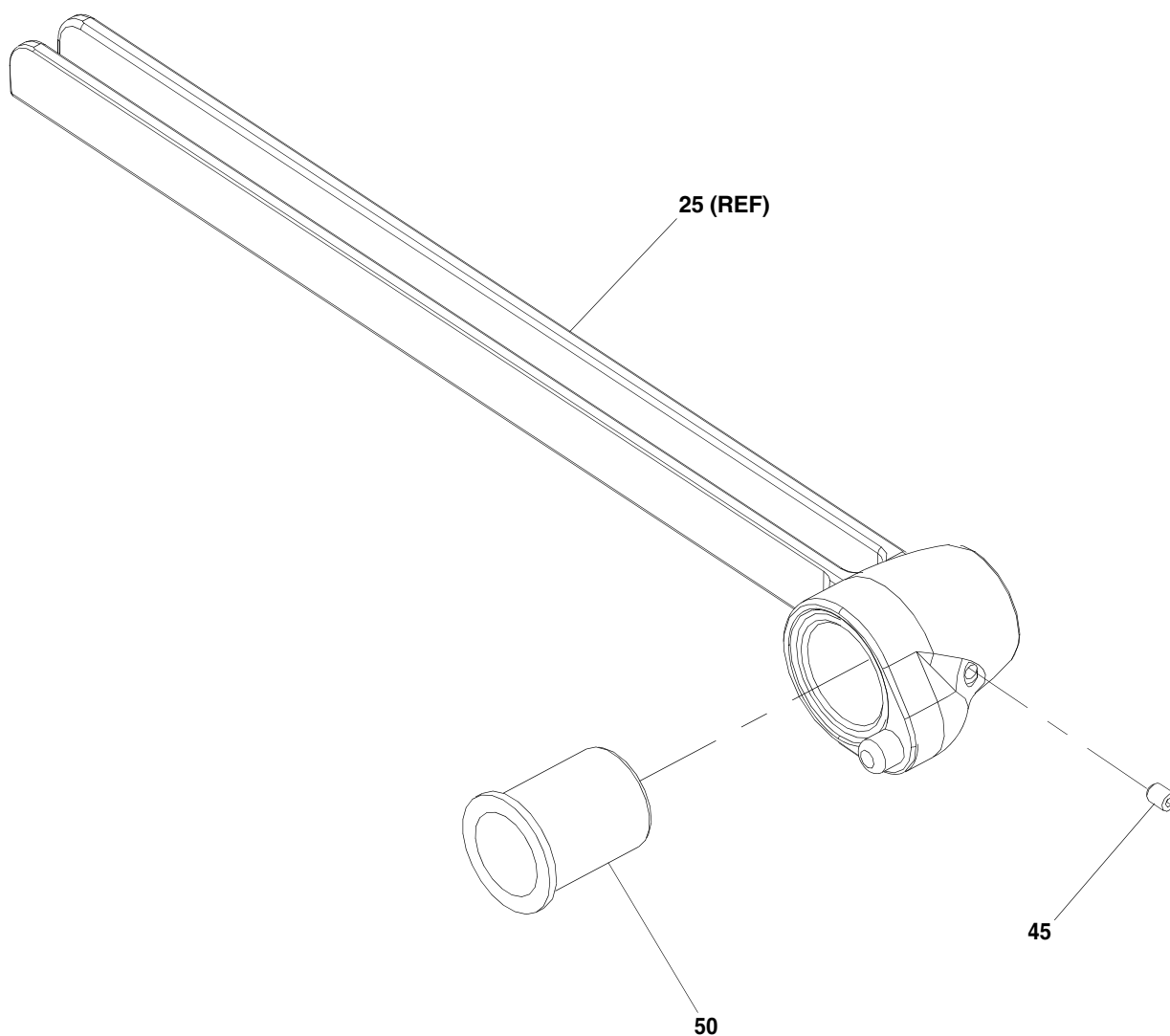
C. Removal of the Back-Mounted Foodtray Assembly (Continued)  
(Refer to the illustrations in this procedure and IPL FIG 3)



- (2) Remove the foodtray slide assemblies (25, 30) and foodtray legs (60, 65) from the torque tube assembly (20) by removing the screws (35) and spacers (40).
- (3) Remove the set screws (55).

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- C. Removal of the Back-Mounted Foodtray Assembly (Continued)  
(Refer to the illustrations in this procedure and IPL FIG 3)

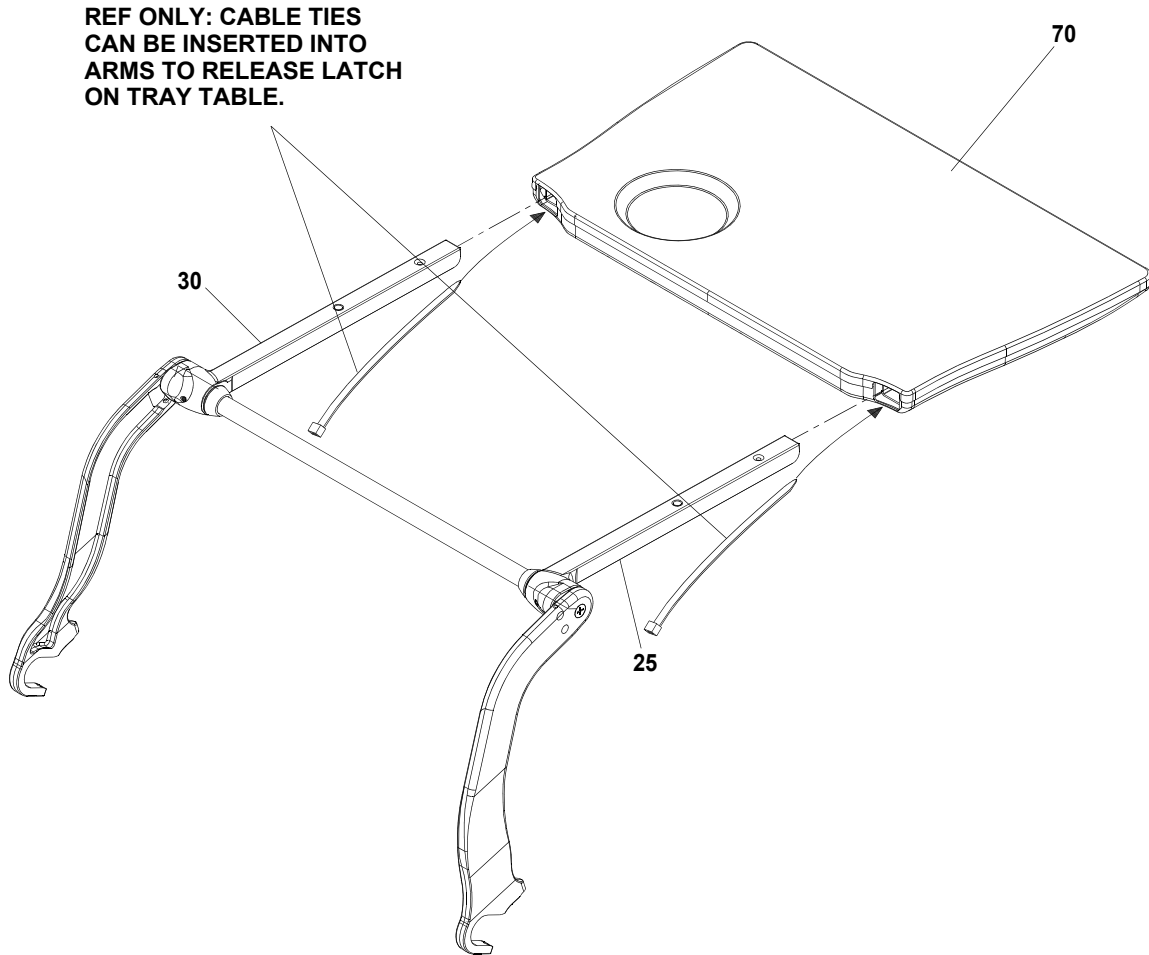


- (4) If required, remove the setscrew (45) and bushings (50) from the foodtray slide assemblies (25, 30).



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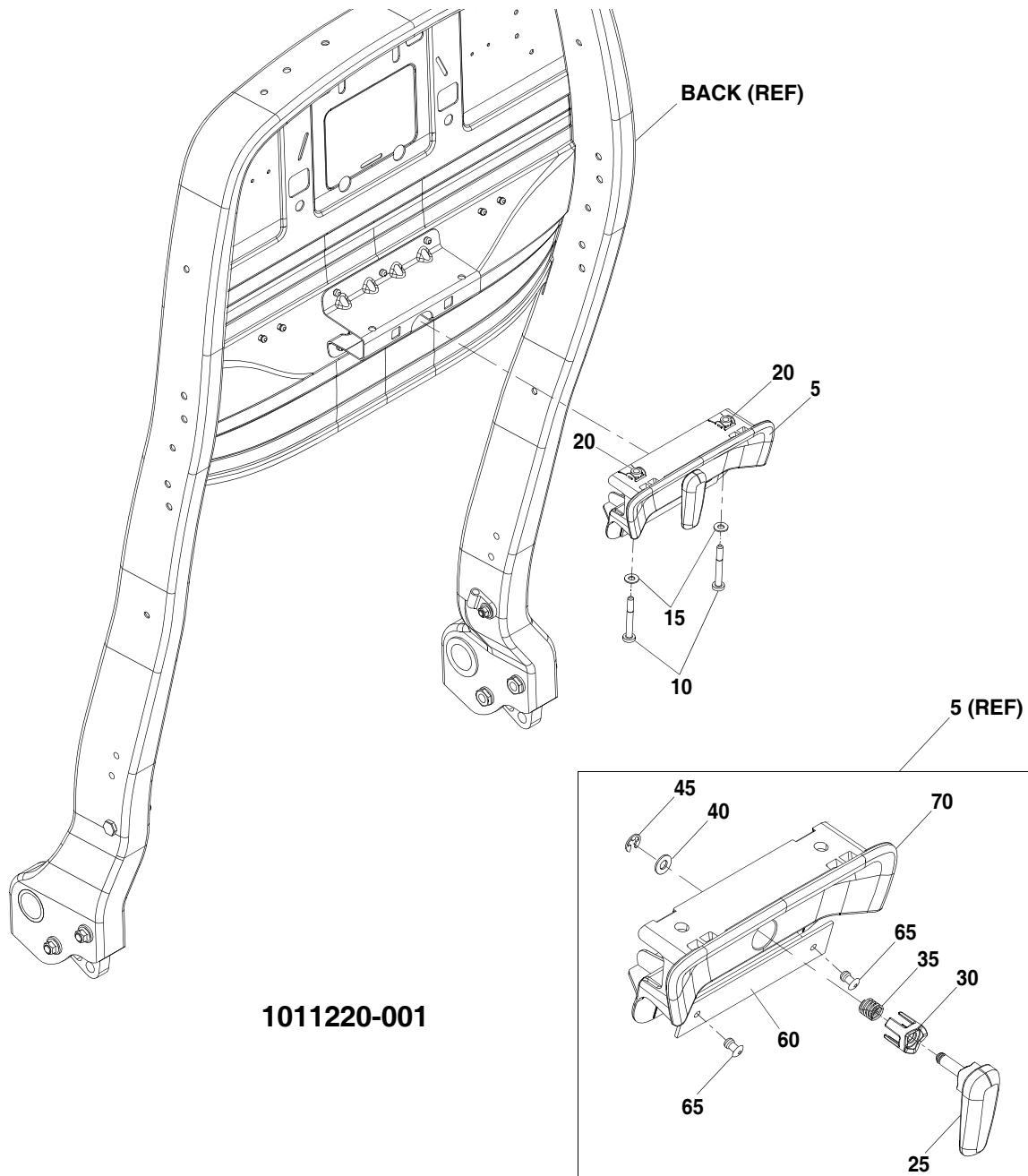
- C. Removal of the Back-Mounted Foodtray Assembly (Continued)  
(Refer to the illustrations in this procedure and IPL FIG 3)



- (5) To release latch on the bonded foodtray assembly (70), insert cable ties (REF) into the foodtray slide assemblies (25, 30).

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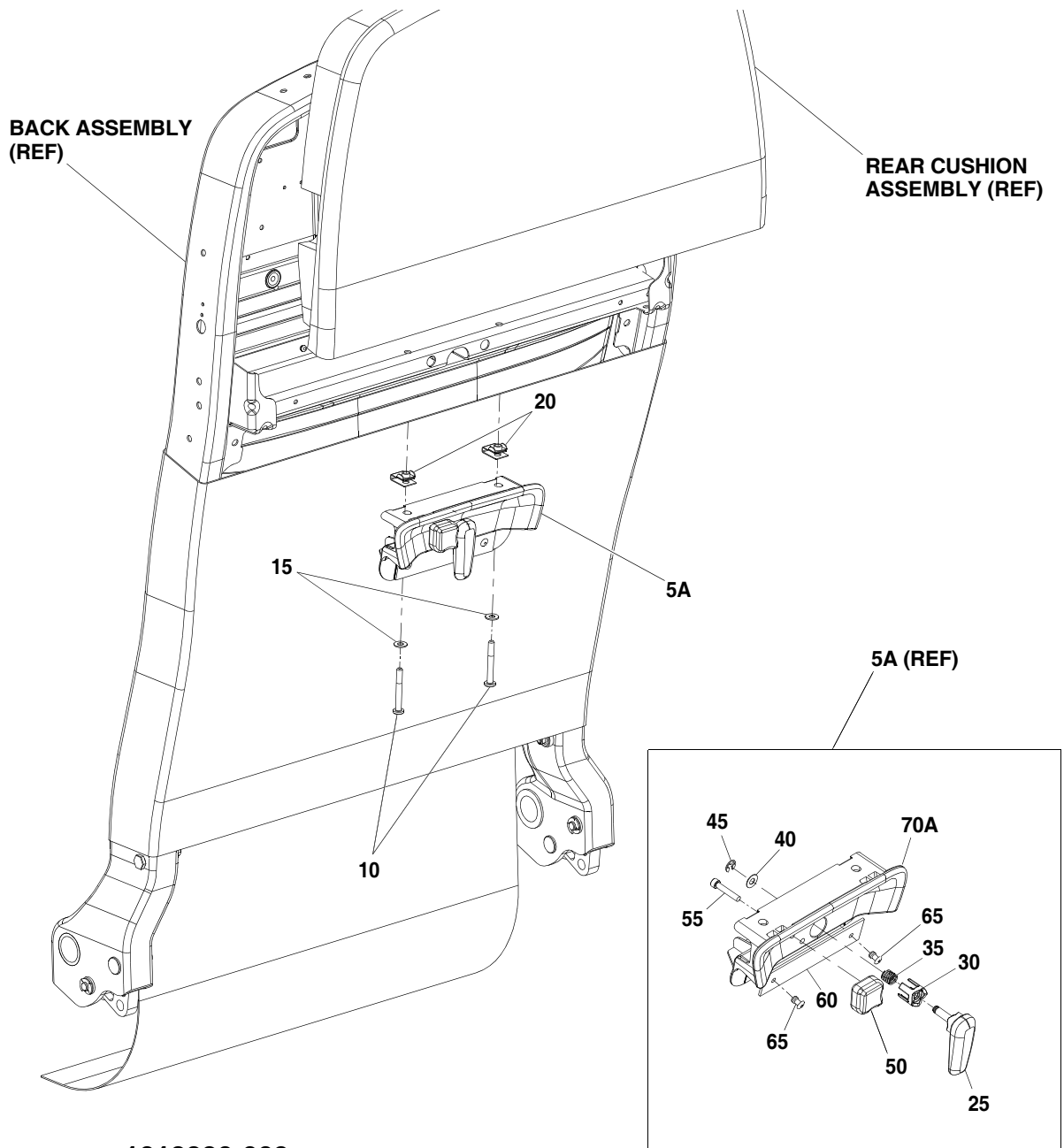
**D. Removal of the Foodtray Latch**  
(Refer to the illustrations in this procedure and IPL FIG 4)



- (1) Remove the foodtray latch assembly (5) by removing the screws (10) and washers (15) from the clipnuts (20).
- (2) Remove the foodtray latch assembly (25) from the latch escutcheon (70) by removing the latch core (30), spring (35), washer (40), and retaining ring (45).
- (3) Remove the hook adhesive (60) by removing the rivets (65).

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**D. Removal of the Foodtray Latch (Continued)**  
(Refer to the illustrations in this procedure and IPL FIG 4)



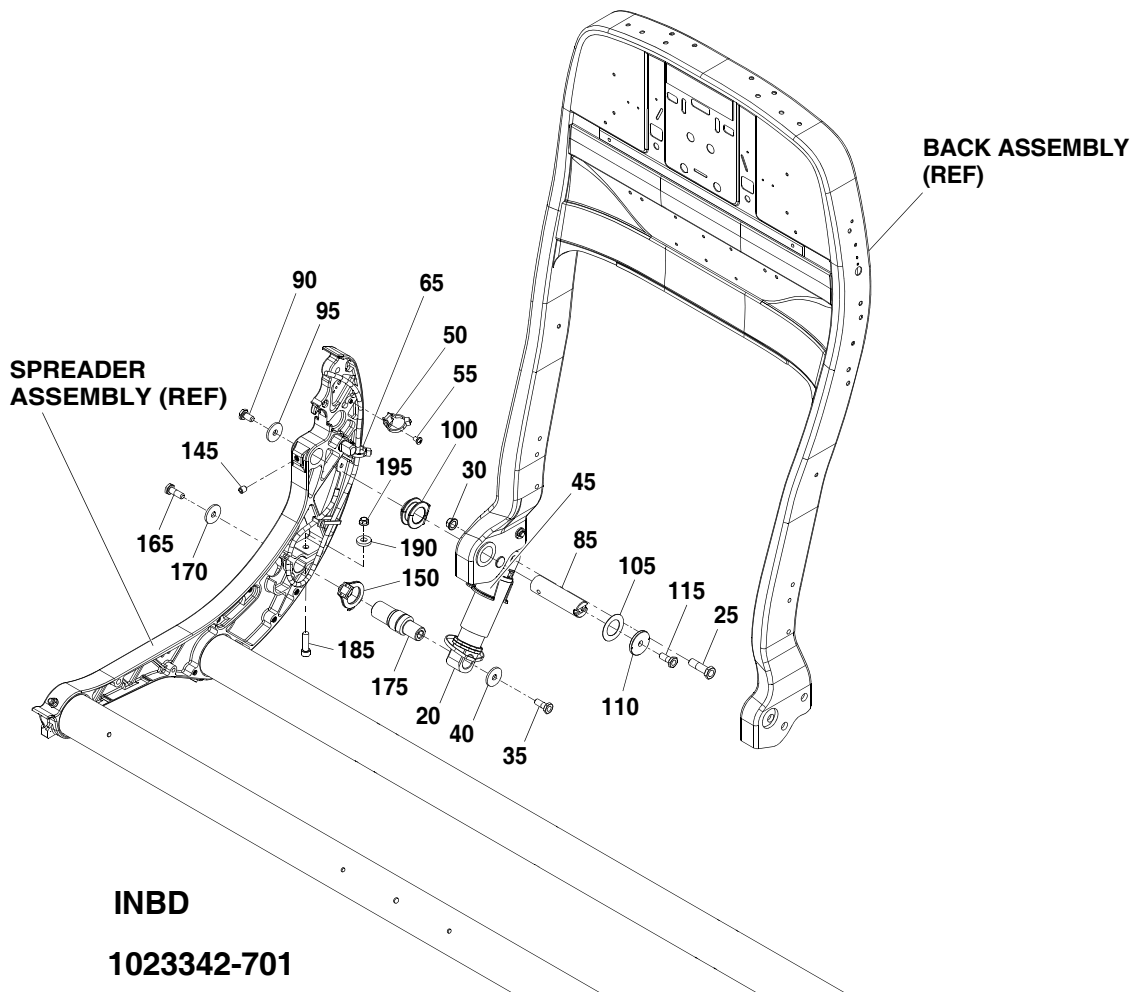
**1012220-003**

- (4) Remove the foodtray latch assembly (5A) by removing the screws (10) and washers (15) from the clipnuts (20).
- (5) Remove the foodtray latch assembly (25) from the latch escutcheon (70A) by removing the latch core (30), spring (35), washer (40), and retaining ring (45).
- (6) Remove the latch stop block (50) by removing the screw (55).
- (7) Remove the hook adhesive (60) by removing the rivets (65).

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**E. Removal of the Seat Back**

(Refer to the illustrations in this procedure and in IPL FIG 5)



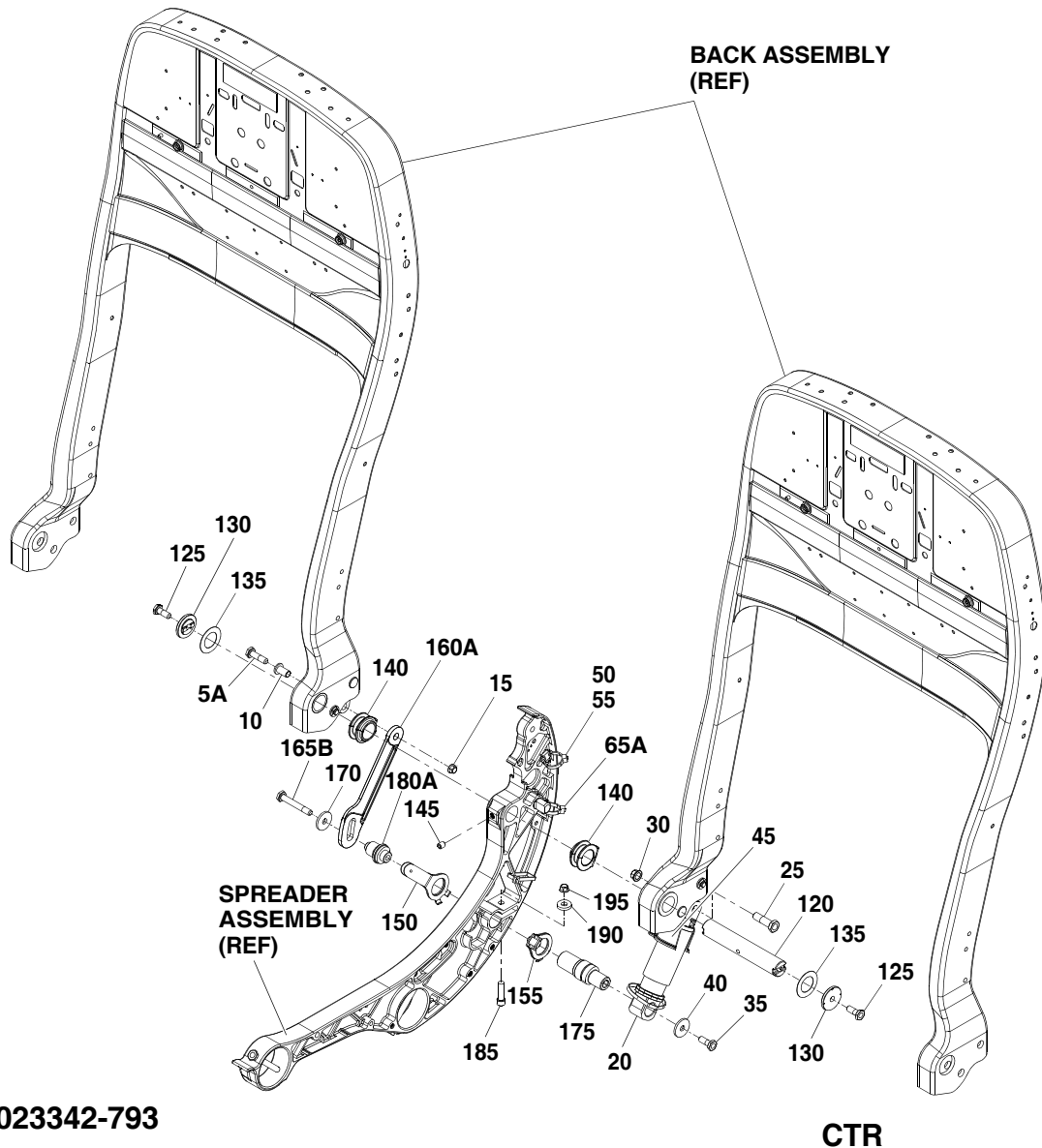
**INBD**

**1023342-701**

- (1) On the inboard side, remove the UltraLOC™ (20) by removing the cable retaining shroud (45), bolts (25, 35), nuts (30), and washers (40).
- (2) Remove the cable tie mounts (50) by removing the screw (55) and strap (-60).
- (3) Remove the cable ties (65) by removing the rivet (-70) and strap (-75).
- (4) If required, remove the straps (-80).
- (5) Remove the inboard pivot shaft (85) by removing the bolts (90, 115), washer (95), bushing (100), spacer (105), and pivot shaft cap (110).
- (6) Loosen the set screw (145).
- (7) Remove the shackle assembly (150) by removing the bolt (165), washer (170), and clocking spindle (175).
- (8) Remove the screw (185), washer (190), and nut (195).

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- E. Removal of the Seat Back (Continued)  
(Refer to the illustrations in this procedure and in IPL FIG 5)



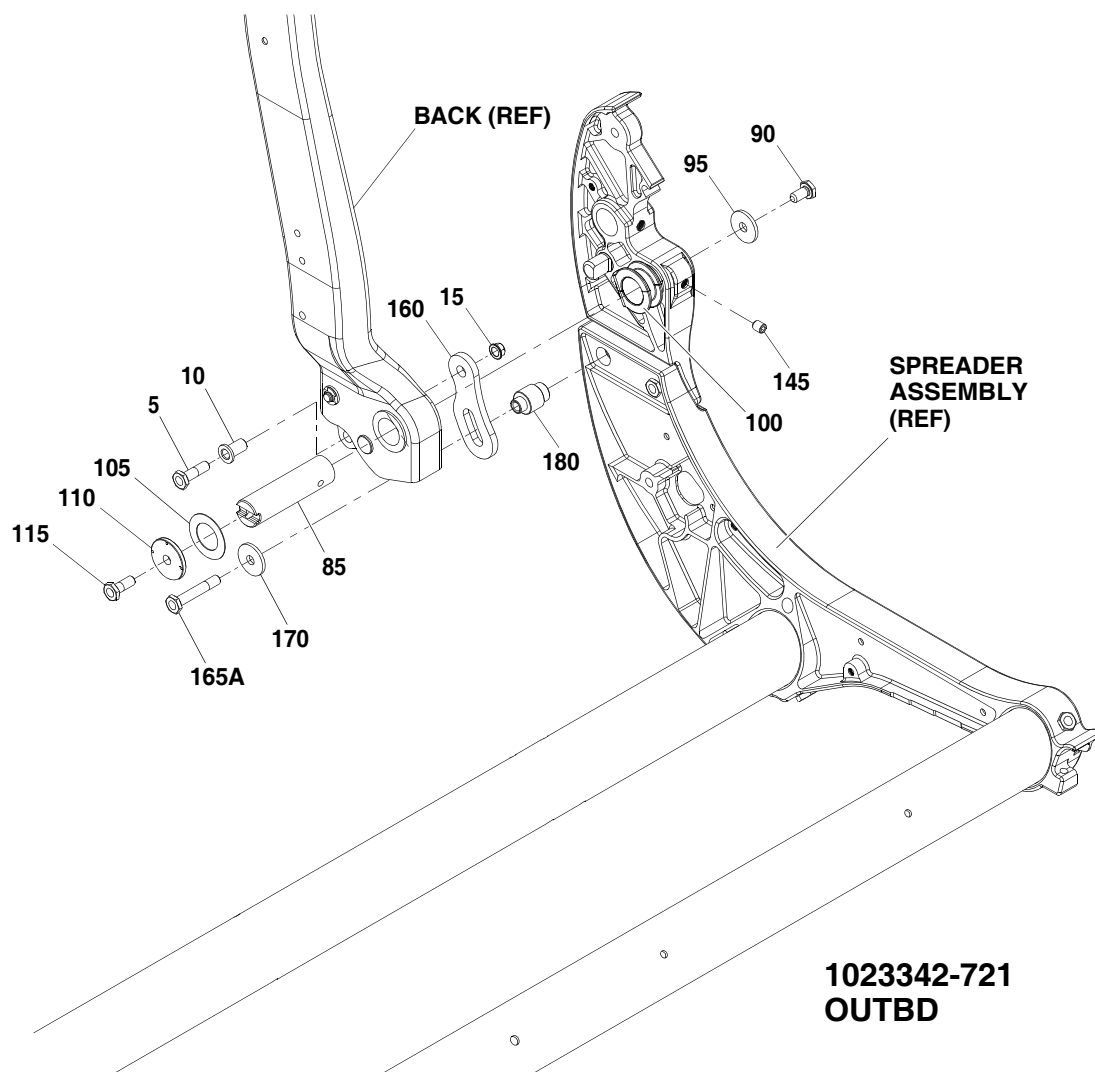
**1023342-793**

**CTR**

- (9) On the center location, remove the bolt (5A), bushing (10), and nut (15).
- (10) Remove the center pivot shaft (120) by removing the bolts (125), pivot shaft caps (130), spacers (135), and bushings (140).
- (11) Loosen the set screws (145).
- (12) Remove shackle assemblies (150, 155) and stop link (160A) by removing the bolt (165B), washer (170), spacer (180A), and clocking spindle (175).

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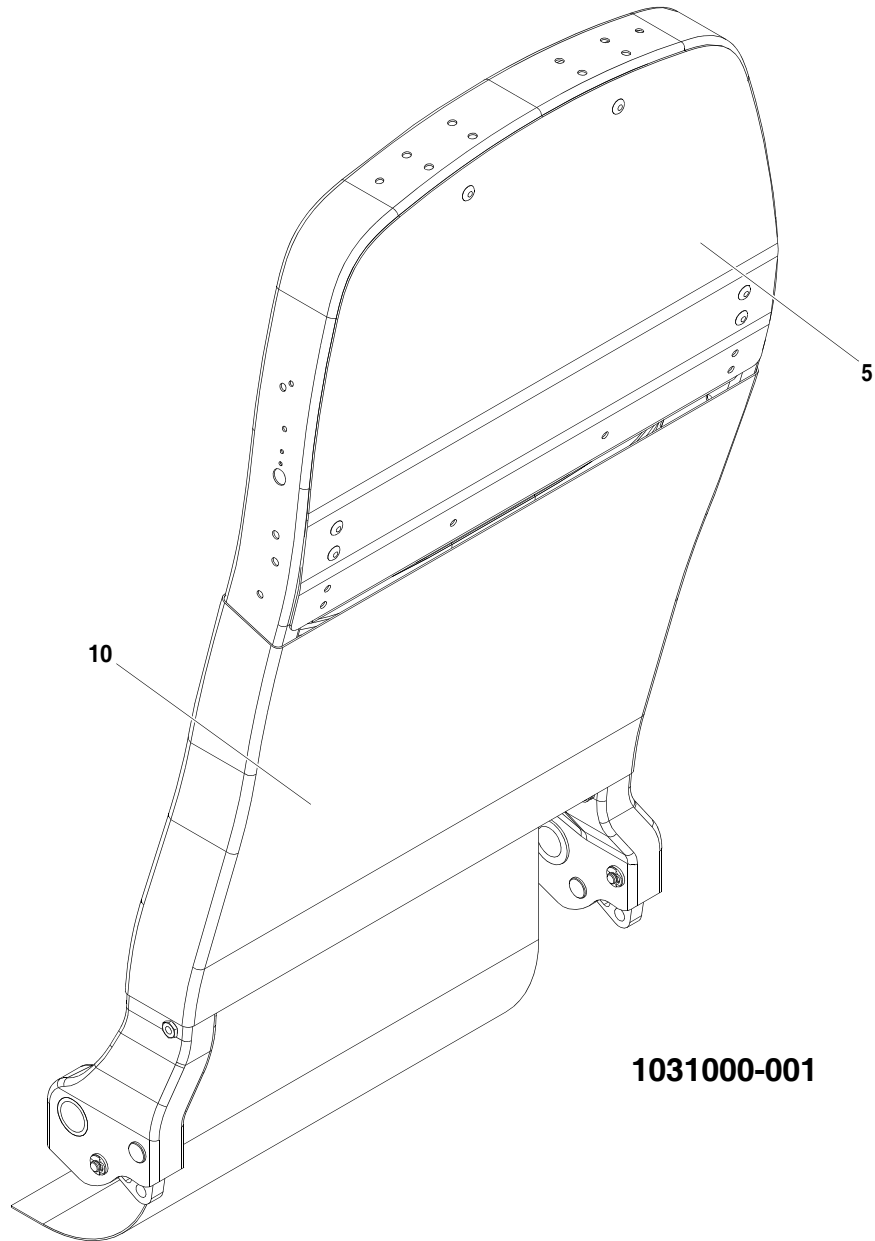
- E. Removal of the Seat Back (Continued)  
(Refer to the illustrations in this procedure and in IPL FIG 5)



- (13) On the outboard location, remove the bolt (5), bushing (10), and nut (15).
- (14) Remove the stop link (160) by removing bolt (165A), washer (170), and spacer (180).

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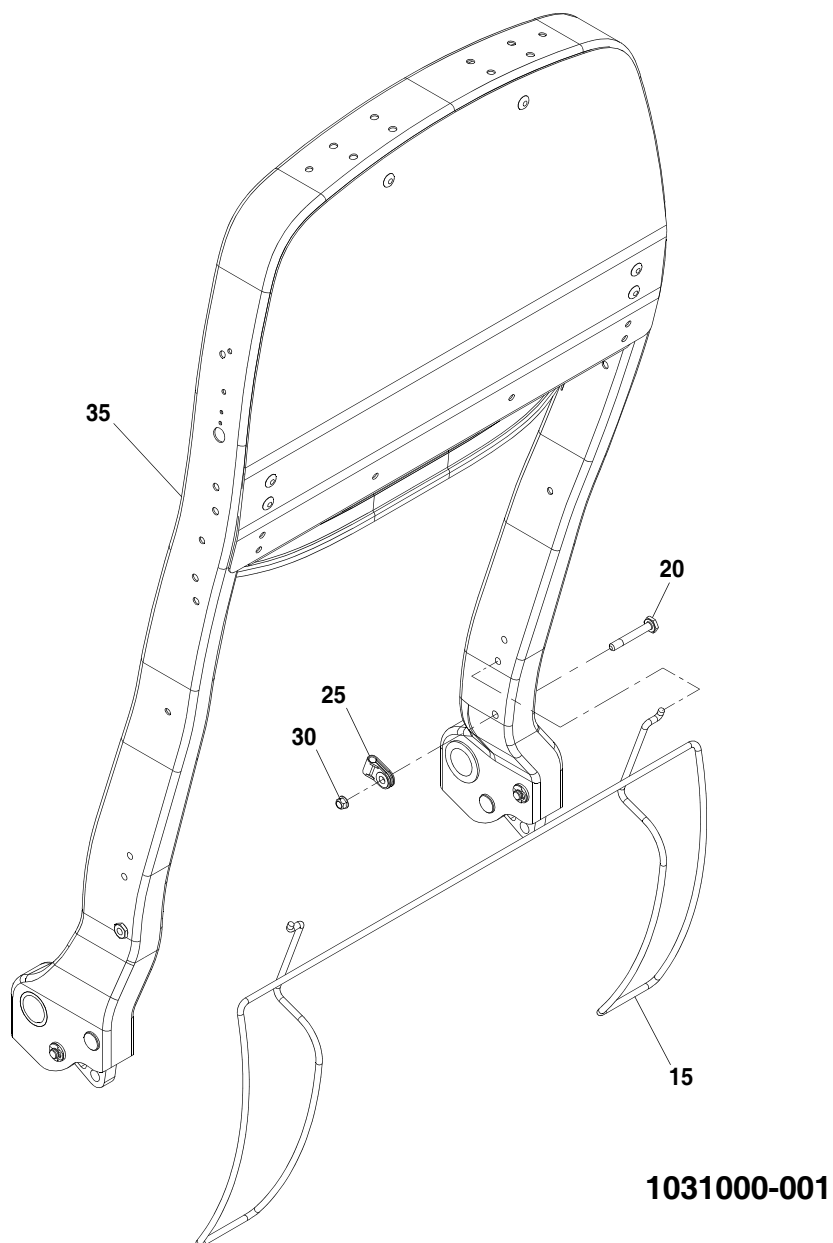
- F. Disassembly of the Back Assembly  
(Refer to the illustrations in this procedure and IPL FIG 6)



- (1) Remove the rear cushion assembly (5).
- (2) Remove the back diaphragm (10).

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- F. Disassembly of the Back Assembly (Continued)  
(Refer to the illustrations in this procedure and IPL FIG 6)

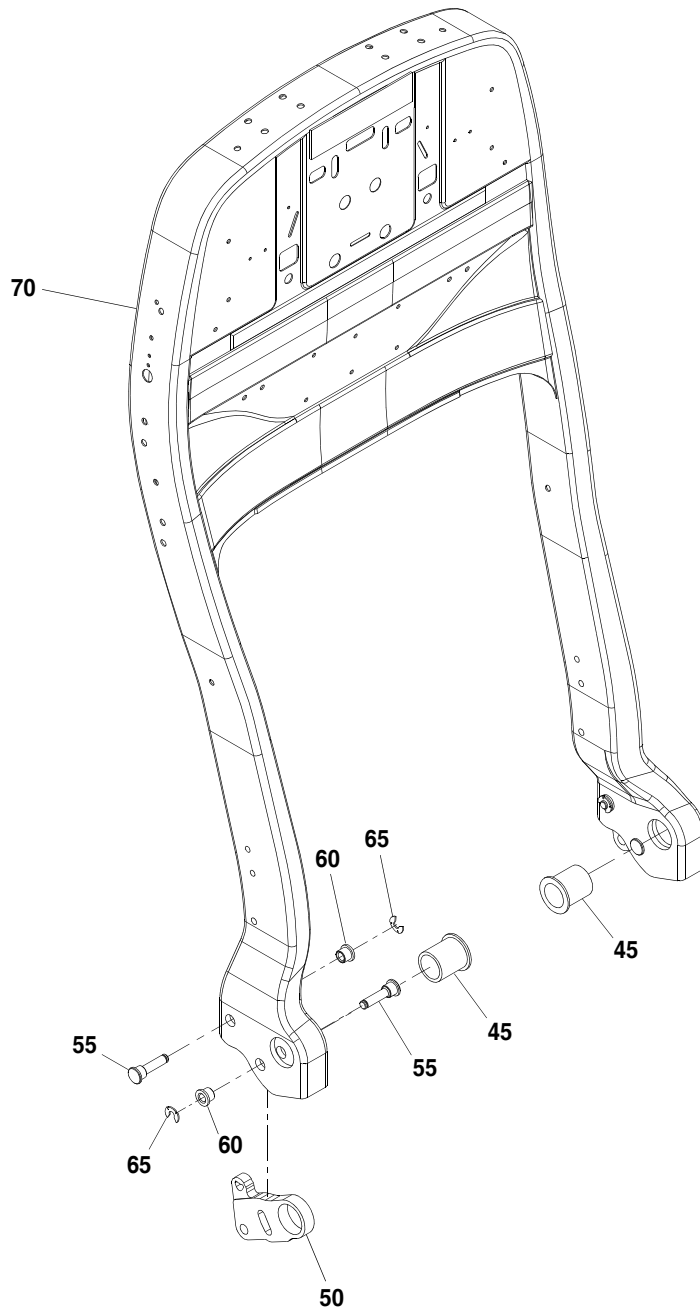


- (3) Remove the literature pocket spring (15) from the back assembly (35) by removing the bolts (20), loop clamps (25), and nuts (30).



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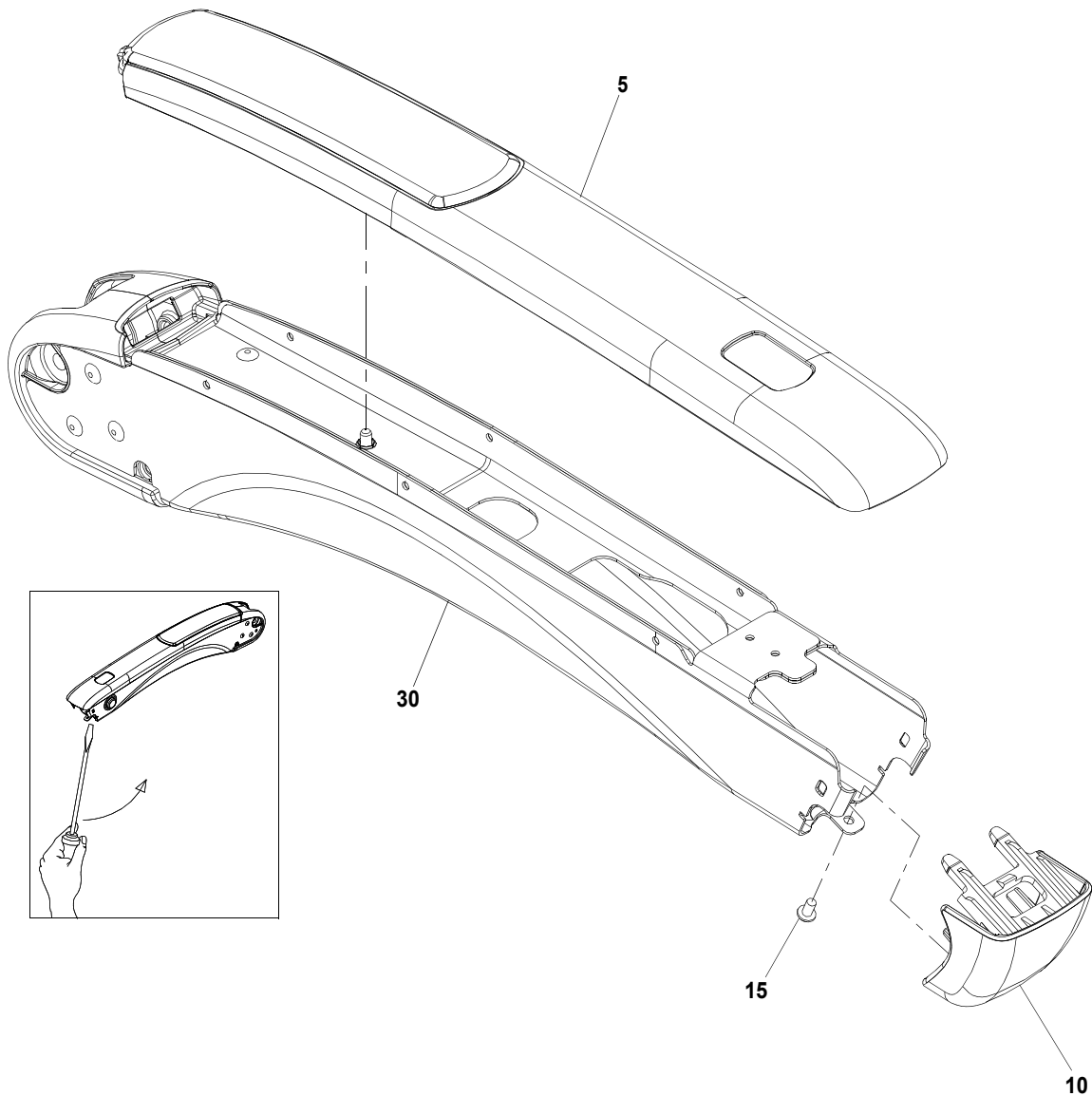
- F. Disassembly of the Back Assembly (Continued)  
(Refer to the illustrations in this procedure and IPL FIG 6)



- (4) Remove the flanged bushings (45) from the back frame (70).
- (5) Remove the back stops (50) from the back frame (70) by removing the studs (55), flanged bushings (60), and rings (65).

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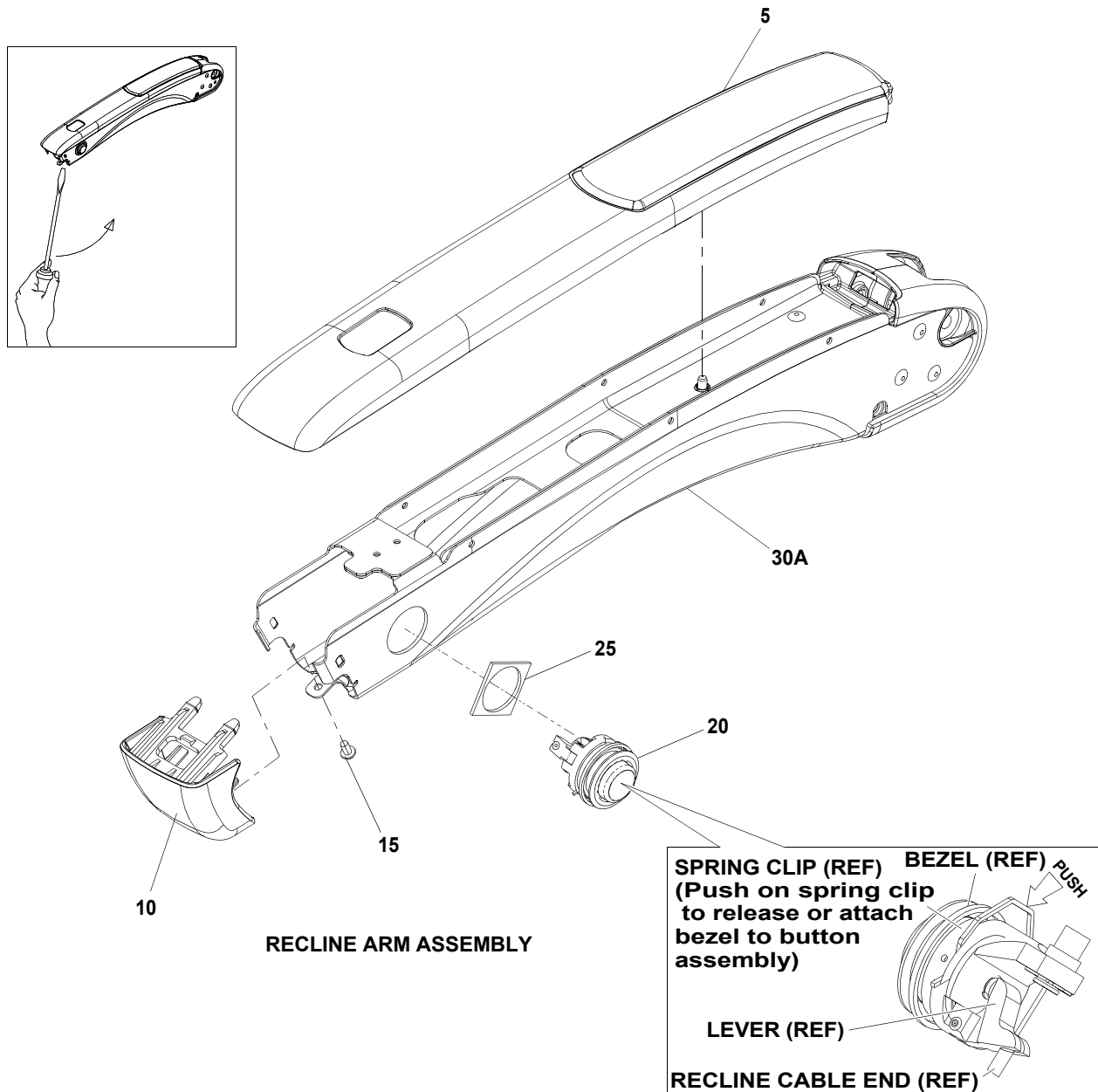
- G. Disassembly of the Arm Assembly  
(Refer to the illustrations in this procedure and in IPL FIG 8)



- (1) On the blank arm assembly, remove the blank escutcheon (10) from riveted arm pan assembly (30) by removing the screw (15).
- (2) Remove the armcap (5) from riveted arm pan assembly (30) by loosening the captured fastener with a phillips screwdriver through the bottom access hole in the armpan. Insert a long blade flat head screwdriver from below the front of the armcap to gently lever the armcap (5) forward until it snaps free of the installed position. Lift and remove the armcap (5).

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**G. Disassembly of the Arm Assembly (Continued)**  
(Refer to the illustrations in this procedure and in IPL FIG 8)



- (3) On the recline arm assembly, remove the blank escutcheon (10) from riveted arm pan assembly (30A) by removing the screw (15).

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G. Disassembly of the Arm Assembly (Continued)

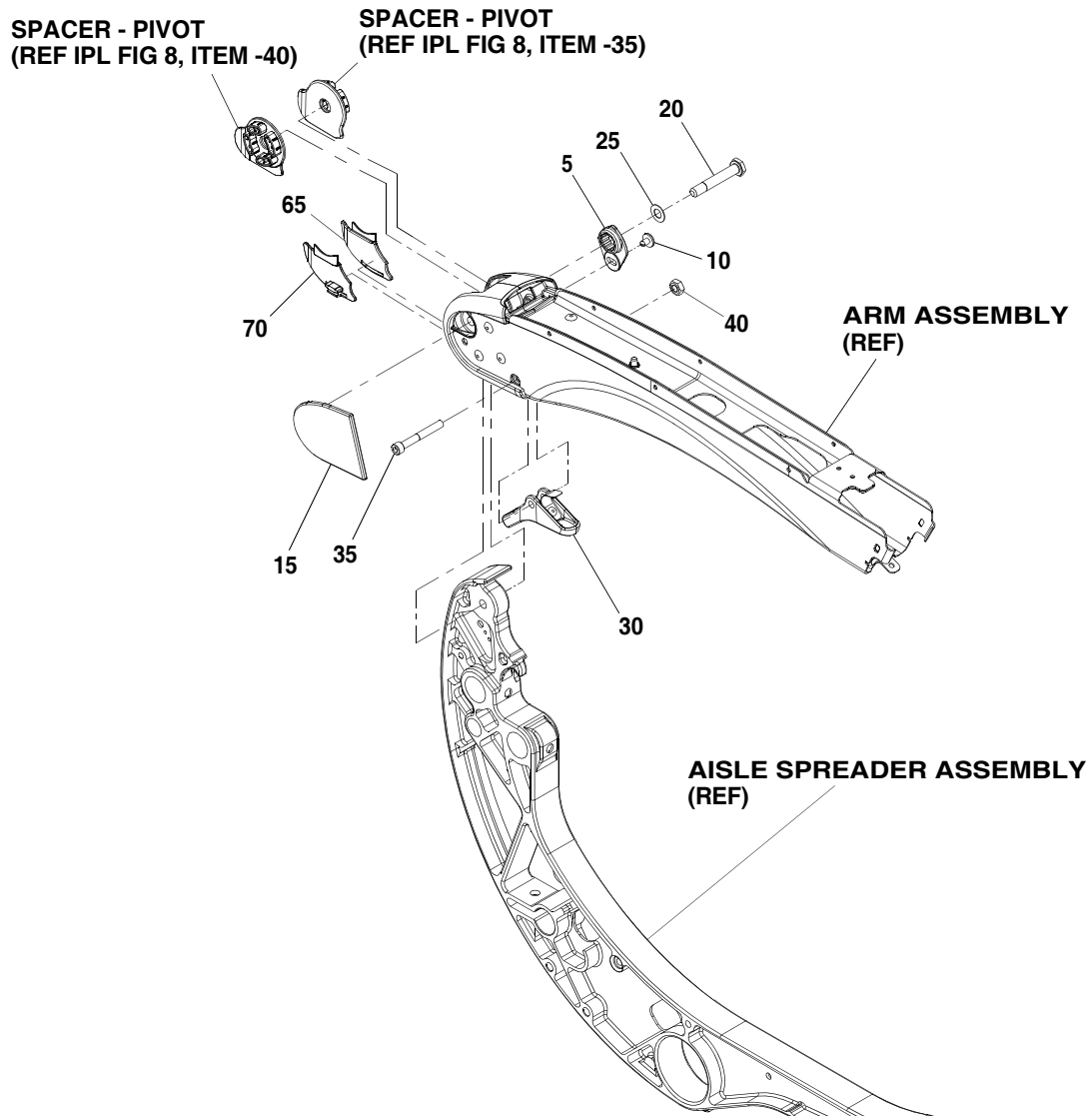
(Refer to the illustrations in this procedure and in IPL FIG 8)

- (4) Remove the armcap (5) from riveted arm pan assembly (30A) by loosening the captured fastener with a phillips screwdriver through the bottom access hole in the armpan. Insert a long blade flat head screwdriver from below the front of the armcap (5) to gently lever the armcap (5) forward until it snaps free of the installed position. Lift and remove the armcap (5).
- (5) To remove the recline cable (20) and recline control spacer (25) from riveted arm pan assembly (30A):
  - (a) Remove the end of the recline cable (20) from the slot on the lever (REF).
  - (b) Press on the spring clip (REF) to separate the button assembly from the outside bezel (REF).
  - (c) Remove the button assembly from the inside of the riveted arm pan assembly (30A) and the bezel from the outside of the riveted arm pan assembly (30A).

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H. Removal of Arm

(Refer to the illustrations in this procedure and in IPL FIG 7)



- (1) At inboard location, to remove the anti-rotation bracket (5), remove the rivet (10).
- (2) To remove the arm pivot cap (15), remove the bolt (20) and washer (25).
- (3) To remove the HCEB latch assembly (30) from the inboard arm assembly (REF), remove the screw (35) and nut (40).

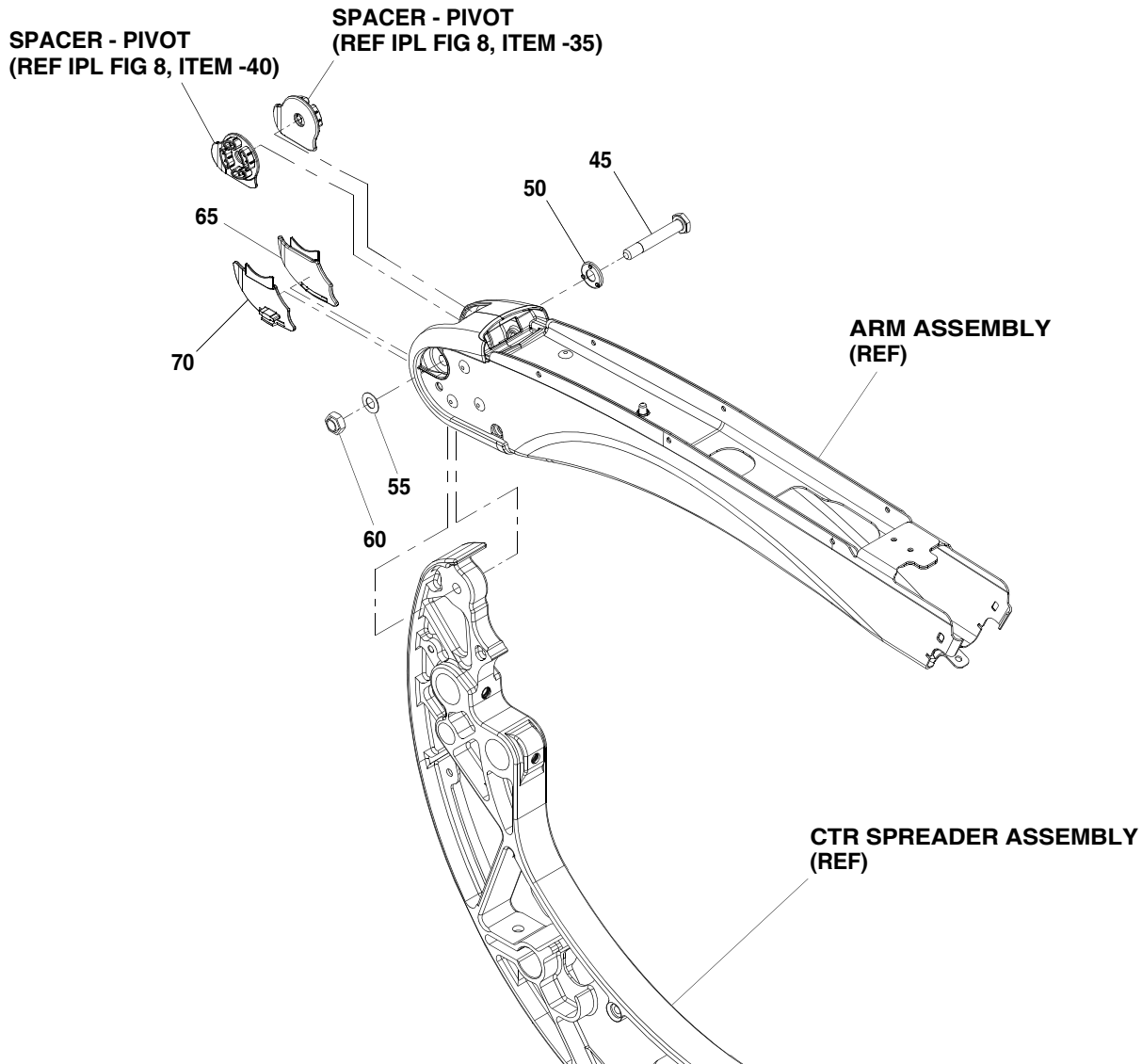
**NOTE:** Pivot spacers (REF IPL FIG 8, Items -35, -40) may loosen from the inboard arm assembly (REF).

- (4) Remove the lower pivot spacers (65, 70) from the inboard arm assembly (REF).

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H. Removal of Arm (Continued)

(Refer to the illustrations in this procedure and in IPL FIG 7)



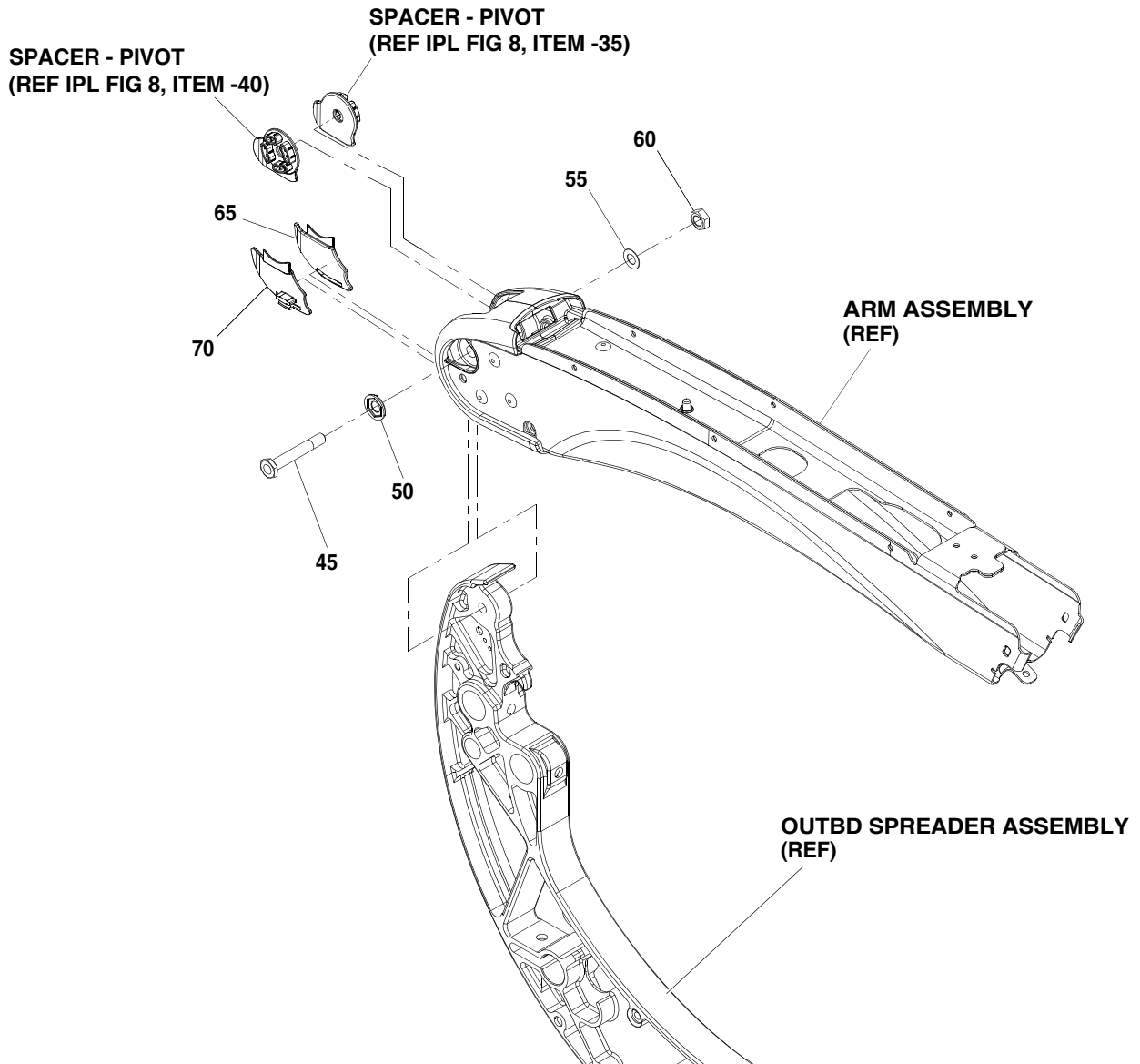
- (5) Remove center arm assembly (REF) by removing the bolt (45), anti rotation washer (50), washer (55), and nut (60).
- (6) Remove center arm assembly (REF) from the center spreader assembly (REF) by sliding recline cable assembly from the aft end of riveted arm pan assembly (REF).

**NOTE:** Pivot spacers (REF IPL FIG 8, Items -35, -40) may loosen from center arm assembly (REF).

- (7) Remove the lower pivot spacers (65, 70) from the center arm assembly (REF).

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- H. Removal of Arm (Continued)  
(Refer to the illustrations in this procedure and in IPL FIG 7)



- (8) At the outboard location, remove the outboard arm assembly (REF) by removing the bolt (45), anti rotation washer (50), washer (55), and nut (60).

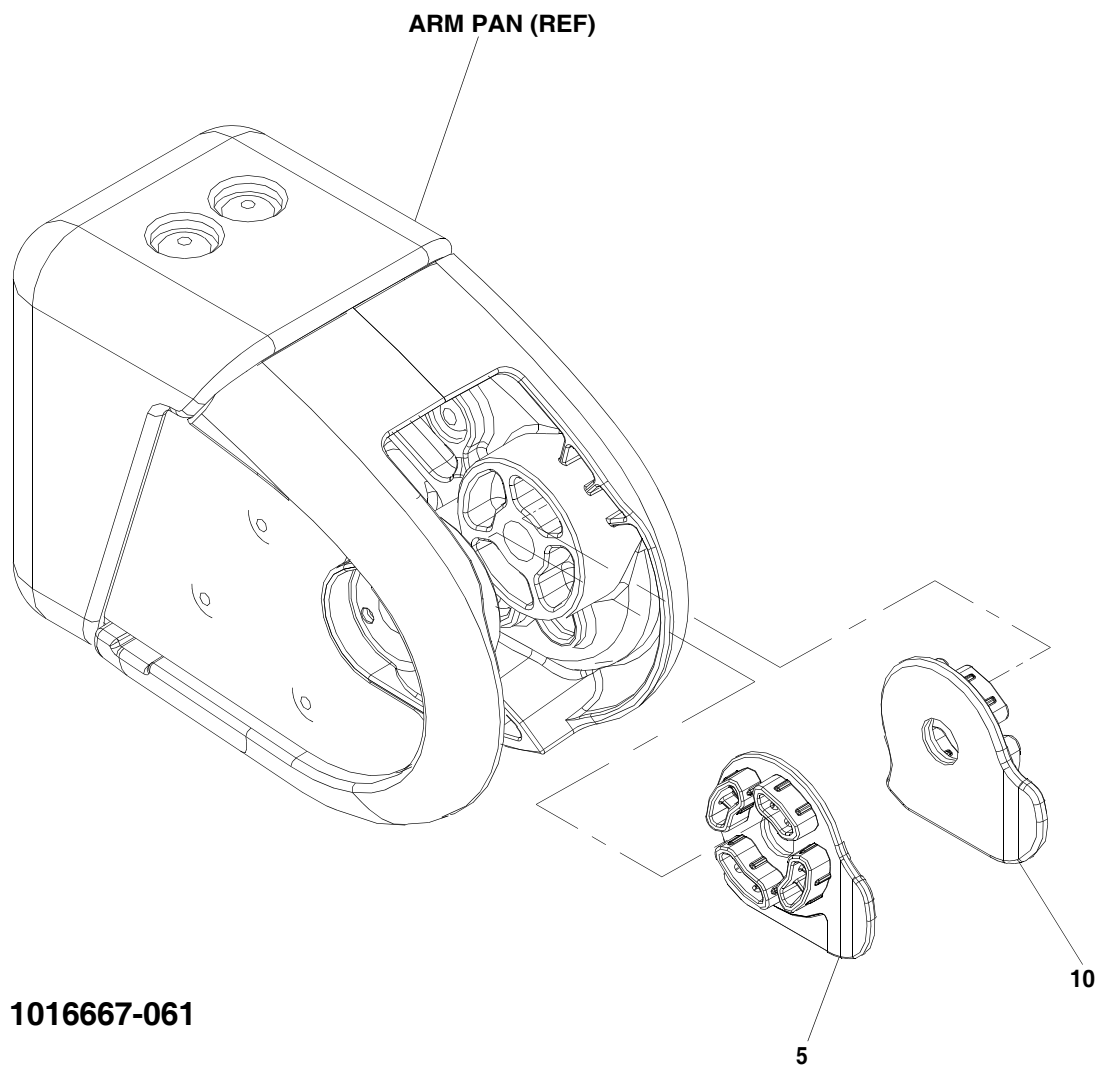
- (9) Remove outboard arm assembly (REF) from outboard spreader assembly (REF) by sliding recline cable assembly from the aft end of riveted arm pan assembly (REF).

**NOTE:** Pivot spacers (REF IPL FIG 8, Items -35, -40) may loosen from outboard arm assembly (REF).

- (10) Remove the lower pivot spacers (65, 70) from the outboard arm assembly (REF).

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- J. Disassembly of the Emergency Exit Pan Arm Assembly  
(Refer to the illustration in this procedure and IPL FIG 9)

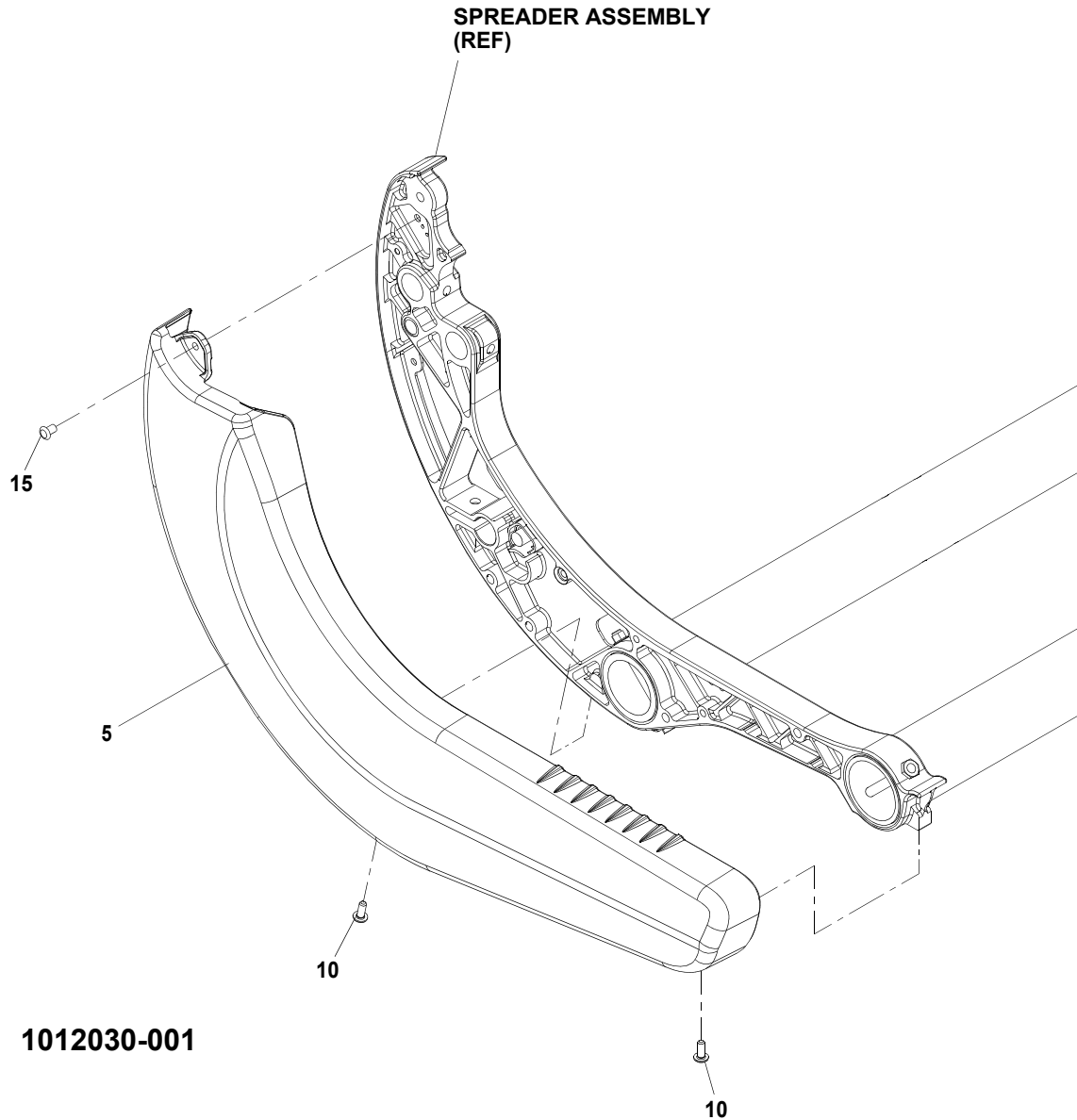


- (1) Remove the pivot spacers (5, 10) from the pan arm assembly (REF).



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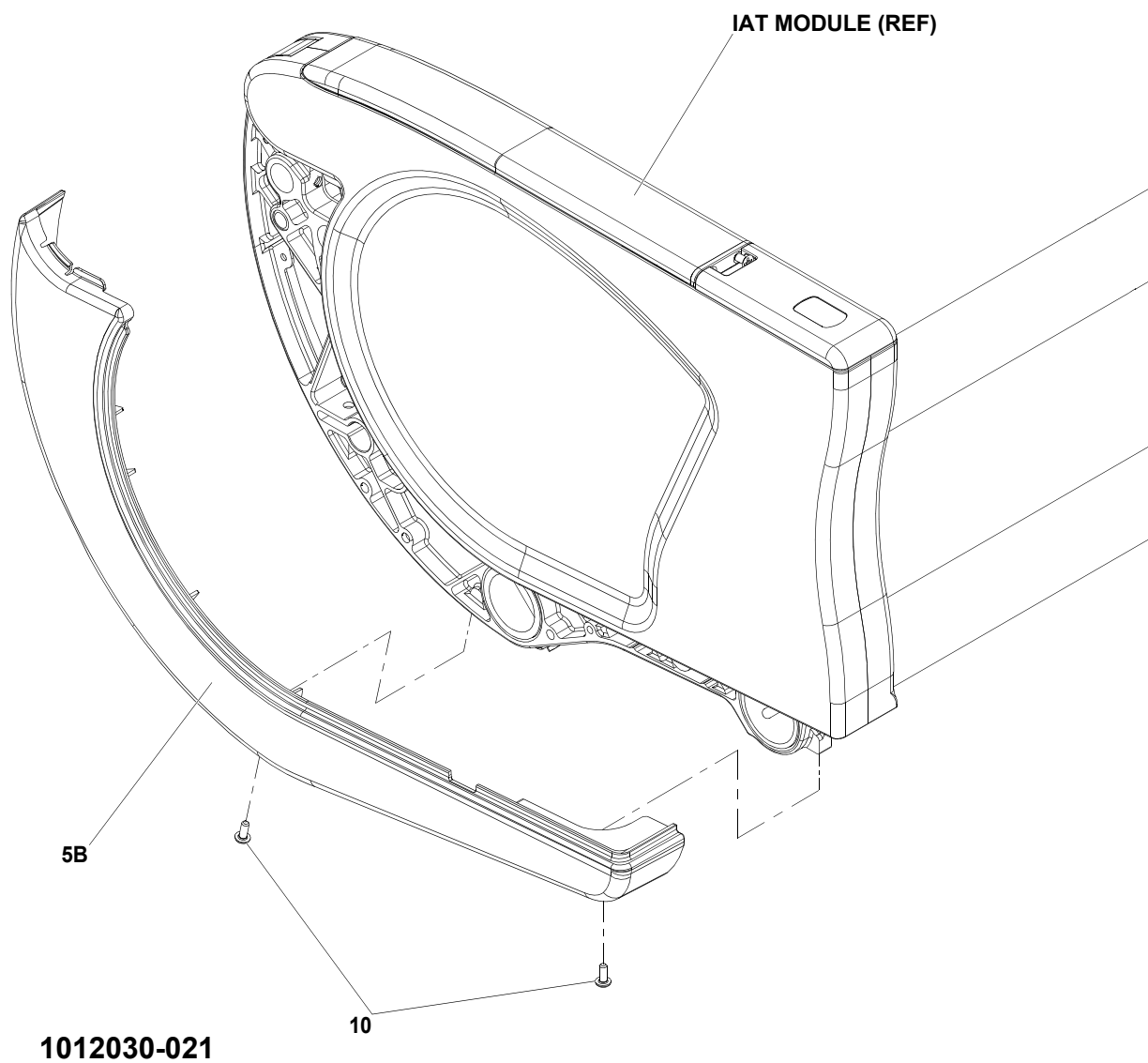
- K. Removal of the Endbay  
(Refer to the illustrations in this procedure and IPL FIG 10)



- (1) Remove the endbay bumper (5) from the spreader assembly (REF) by removing the screws (10) and rivet (15).

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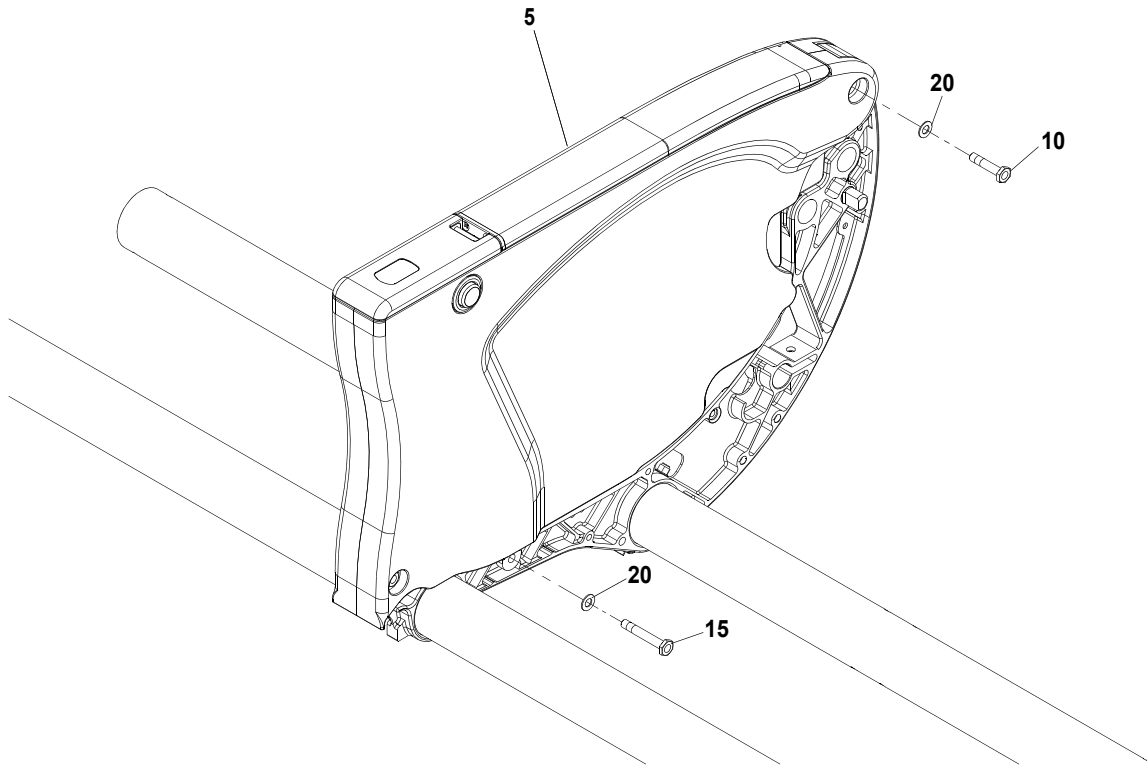
- K. Removal of the Endbay (Continued)  
(Refer to the illustrations in this procedure and IPL FIG 10)



- (2) Remove the endbay bumper (5B) from the IAT module (REF) by removing the screws (10).

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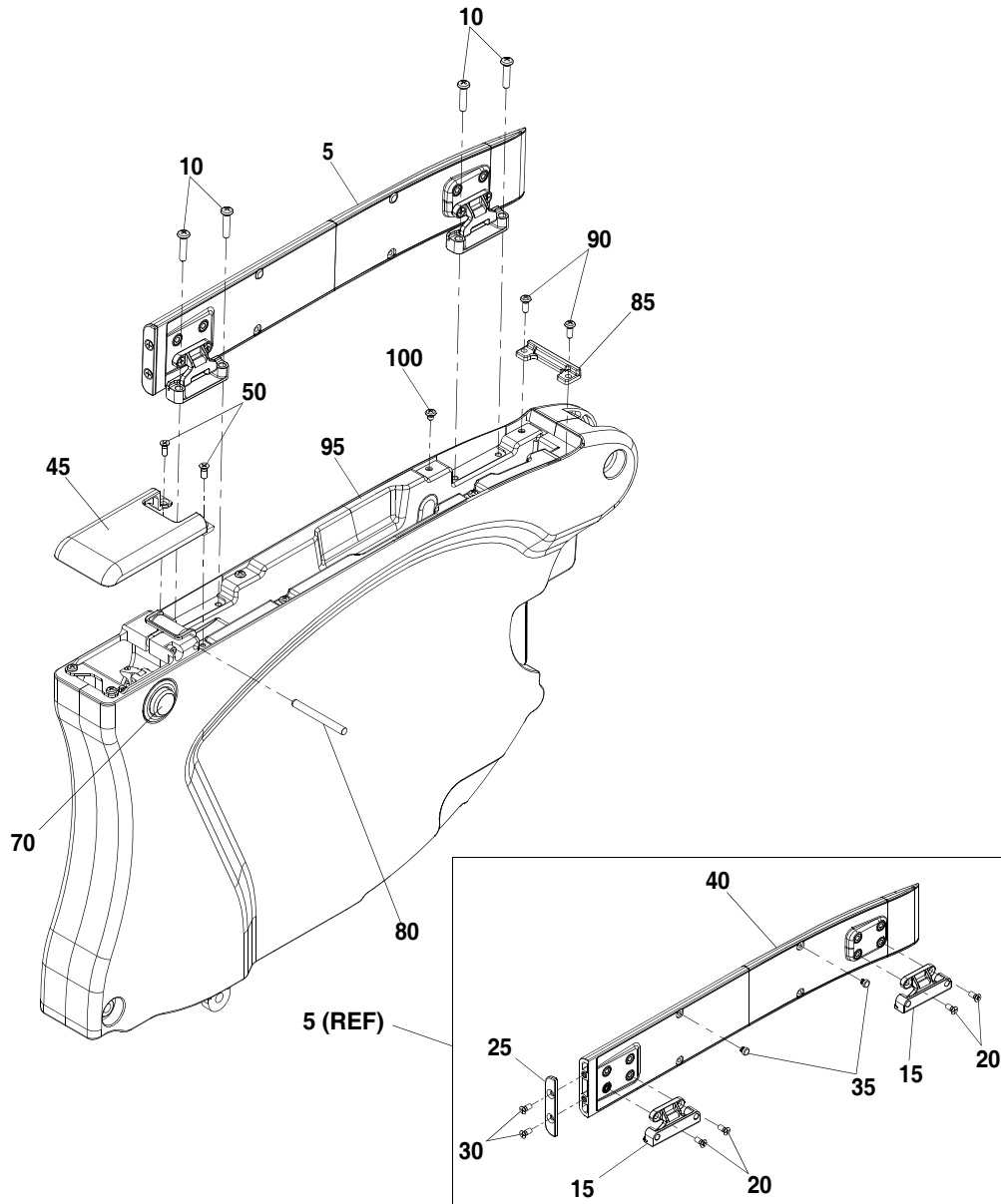
- L. Removal of the IAT Module  
(Refer to the illustration in this procedure and in IPL FIG 11)



- (1) Remove the IAT module assembly (5) by removing the bolts (10, 15) and washers (20).

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**M. Disassembly of the IAT Module Assembly**  
(Refer to the illustrations in this procedure and IPL FIG 12)



- (1) Remove the IAT armcap assembly (5) from the IAT module by removing the screws (10).

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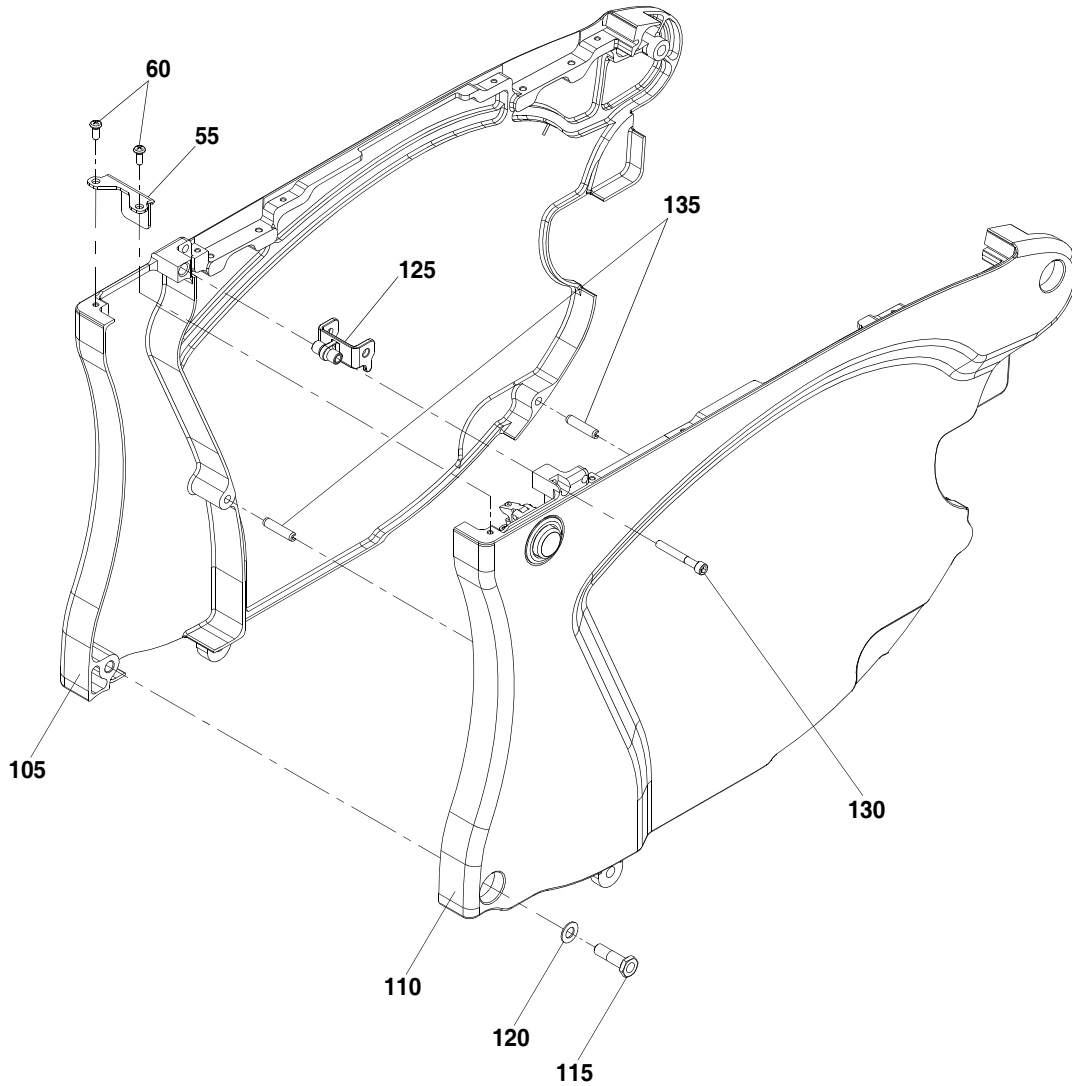
M. Disassembly of the IAT Module Assembly (Continued)

(Refer to the illustrations in this procedure and IPL FIG 12)

- (2) Remove the IAT armcap hinge assemblies (15) from the welded armcap assembly (40) by removing the screws (20).
- (3) Remove the armcap endcap (25) from the welded armcap assembly (40) by removing the screws (30).
- (4) If required, remove the bumper grommets (35) from the welded armcap assembly (40).
- (5) Remove the IAT escutcheon (45) by removing the screws (50).
- (6) Remove the recline cable (-65) and recline button (70) from the center IAT module (105).
- (7) Remove the in-arm foodtray assembly (-75) by removing the pin (80).
- (8) Remove the striker plate (85) by removing the screws (90).
- (9) Remove the IAT liner assembly (95) by removing the screws (100).

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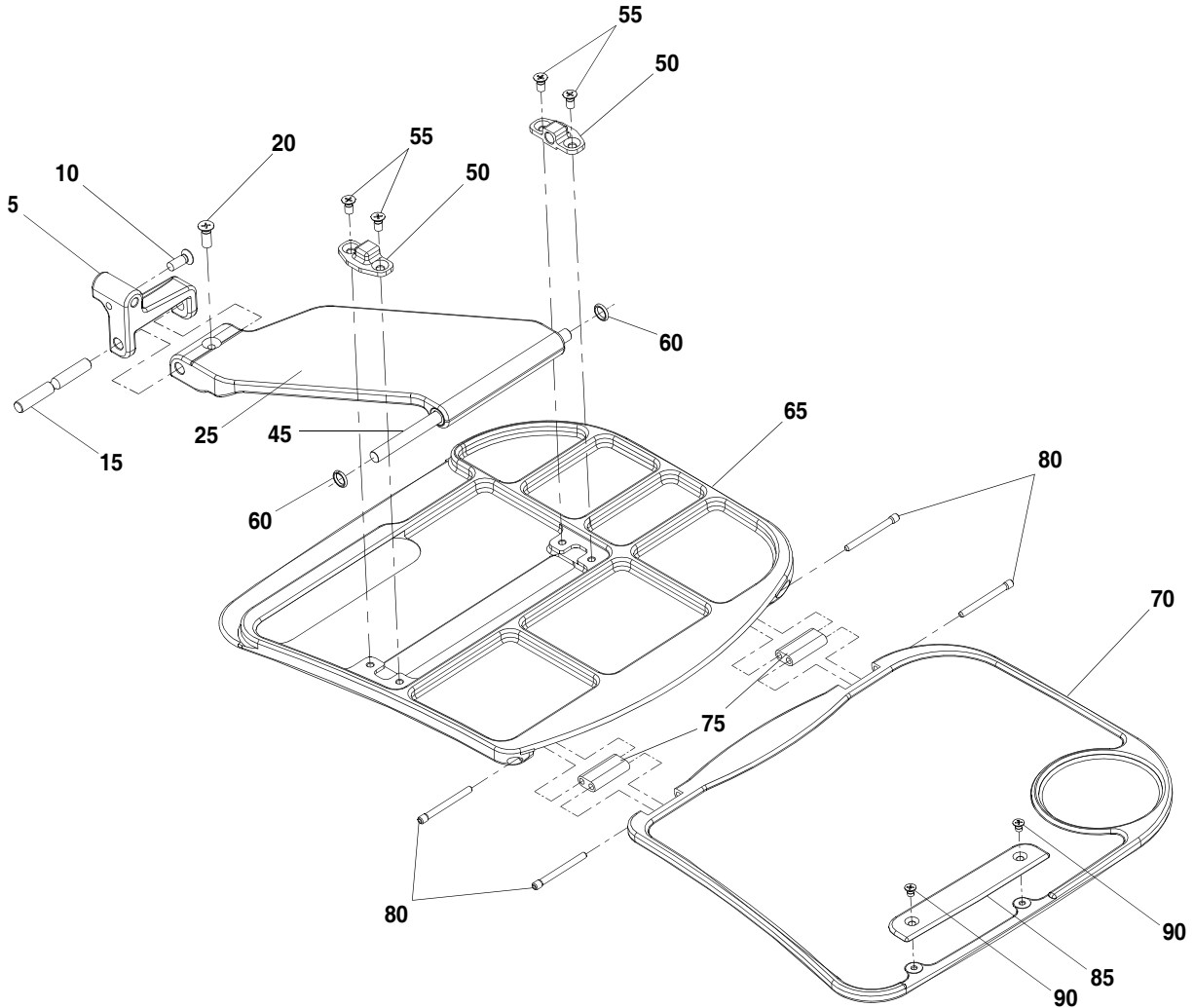
**M. Disassembly of the IAT Module Assembly (Continued)**  
(Refer to the illustrations in this procedure and IPL FIG 12)



- (10) Remove the RJU mount bracket (55) by removing the screws (60).
- (11) Separate the IAT modules (105, 110) by removing the bolt (115), washer (120), adapter (125), screw (130), and spring pins (135).

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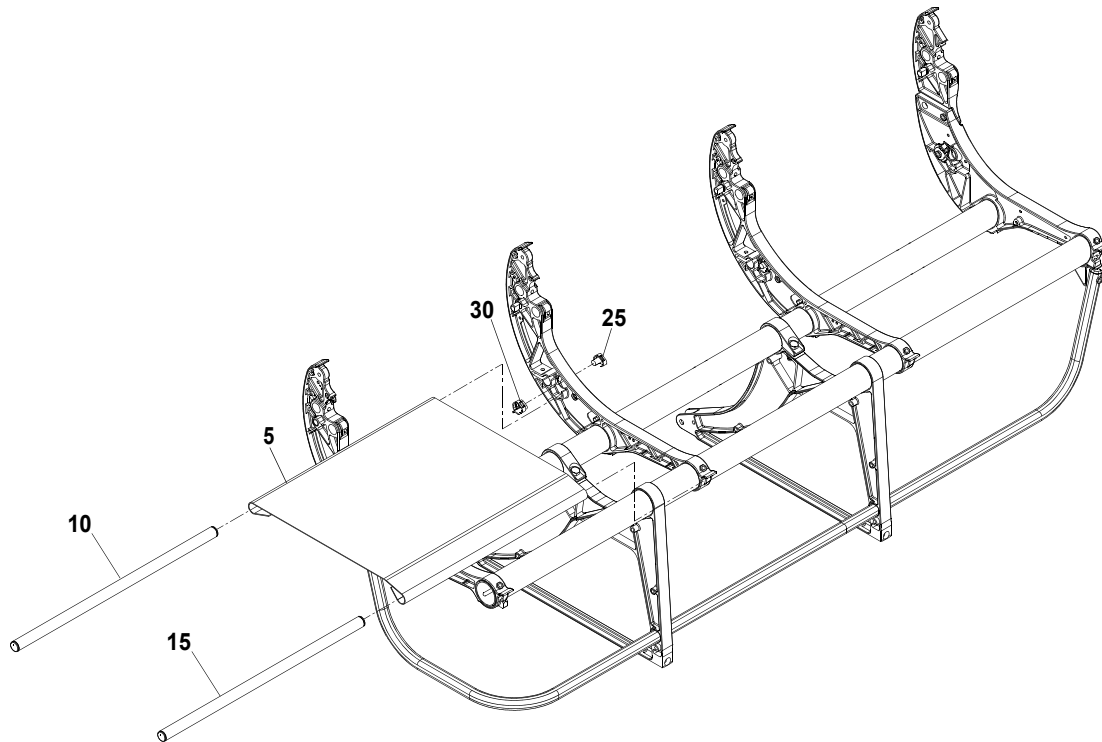
**N. Disassembly of the In-Arm Foodtray Assembly**  
(Refer to the illustration in this procedure and IPL FIG 13)



- (1) Remove the IAT main hinge pivot (5) by removing the screw (10) and foodtray link pin (15).
- (2) Remove the screw (20).
- (3) Remove the in-arm slide paddle assembly (25), IAT slide rod (45), and IAT slide rod mounts (50) by removing the screws (55) and dixie bearing / O-rings (60).
- (4) Separate the IAT inner foodtray leaf assembly (65) from the IAT outer foodtray leaf assembly (70) by removing the foodtray leaf hinges (75) and hinge pins (80).
- (5) If required, remove the side pad (85) by removing the screws (90).

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- P. Removal of the Bottom Diaphragm  
(Refer to the illustration in this procedure and in IPL FIG 14)



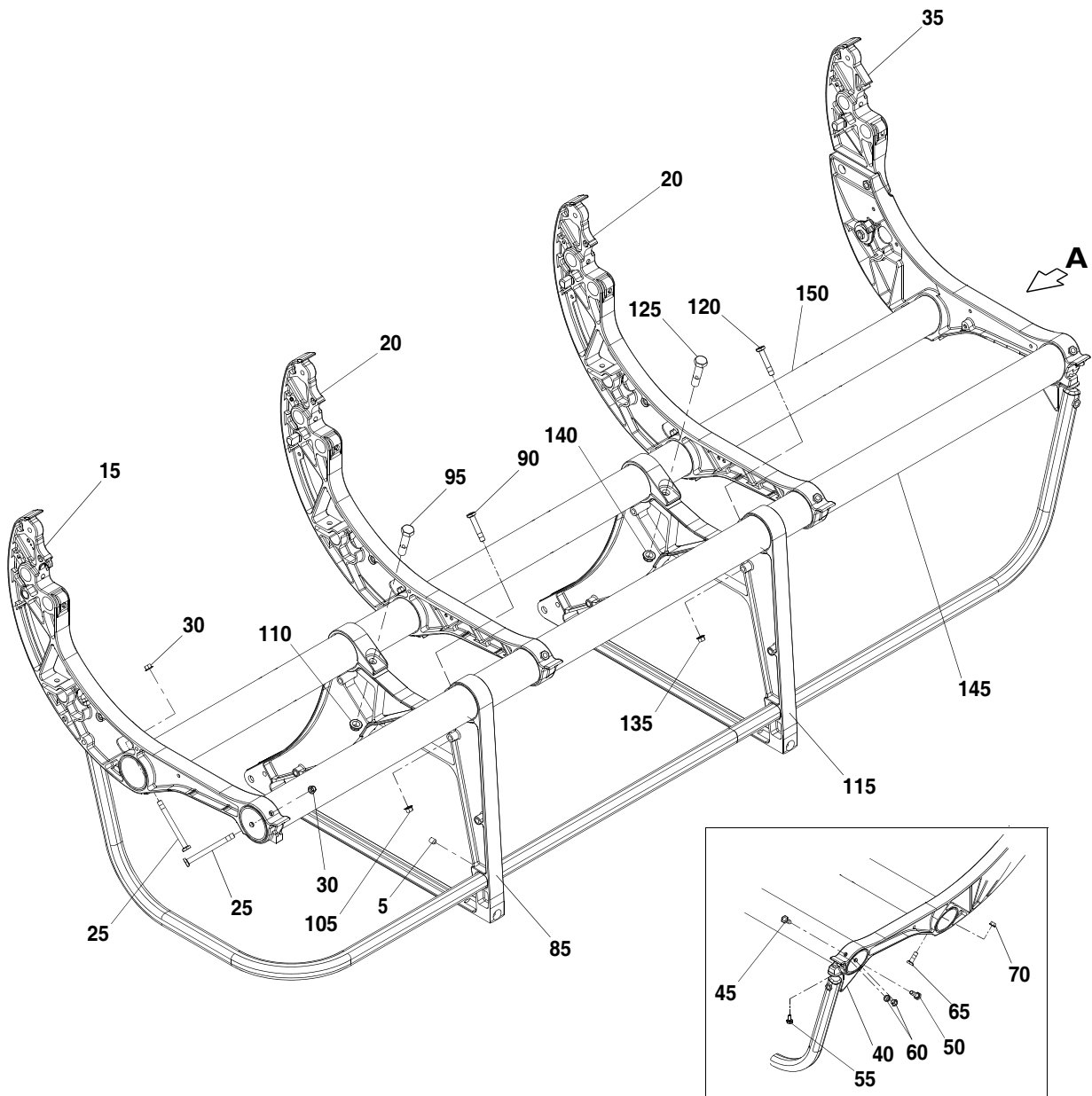
**CAUTION:** WHEN PRYING THE BOTTOM SUPPORT TUBES FROM THE SECTIONS, USE A PADDED TOOL (E.G., A SCREWDRIVER COVERED WITH PILE TAPE) TO PREVENT DAMAGE TO THE SUPPORT TUBES.

- (1) Remove the bottom diaphragm (5) by lifting the diaphragm tube (10) and bottom support tube (15) from the retainer assemblies (25, 30).



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- Q. Disassembly of the Frame Assembly  
(Refer to the illustration in this procedure and in IPL FIG 15)



**DETAIL A**

- (1) Loosen the setscrews (5).
- (2) Remove the baggage bar installation (-10). (Refer to paragraph R for instructions to remove the baggage bar).
- (3) Remove the inboard, center inboard, and center outboard spreader assemblies (15, 20) by removing the bolts (25) and nuts (30).

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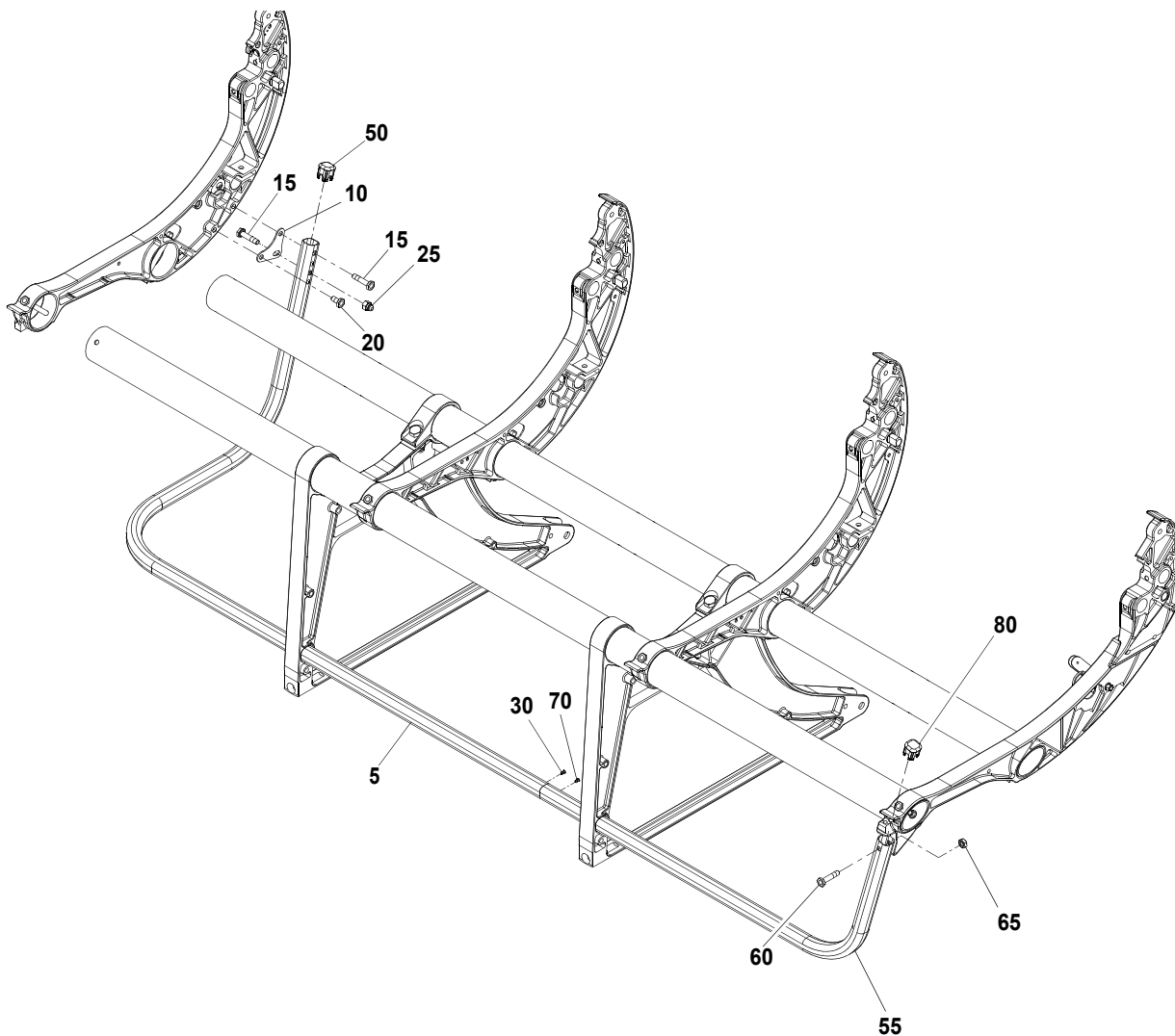
**Q. Disassembly of the Frame Assembly (Continued)**

(Refer to the illustration in this procedure and in IPL FIG 15)

- (4) Remove the canted spreader assembly (35) and restraint bracket (40) by removing the bolts (45, 50, 55, 65) and nuts (60, 70).
- (5) Remove the diaphragm tube retainer assembly (-75) by removing the diaphragm tube retainer (-80).
- (6) To remove the leg assemblies (85, 115) from the front and rear beams (145, 150), remove the bolts (90, 95, 120, 125), washers (-100, -130), and nuts (105, 110, 135, 140).

**R. Removal of the Baggage Bar**

(Refer to the illustration in this procedure and in IPL FIG 16)



- (1) Remove the baggage bar assembly (5) and restraint plate bracket (10) by removing the bolts (15, 20), nut (25), and rivet (30).

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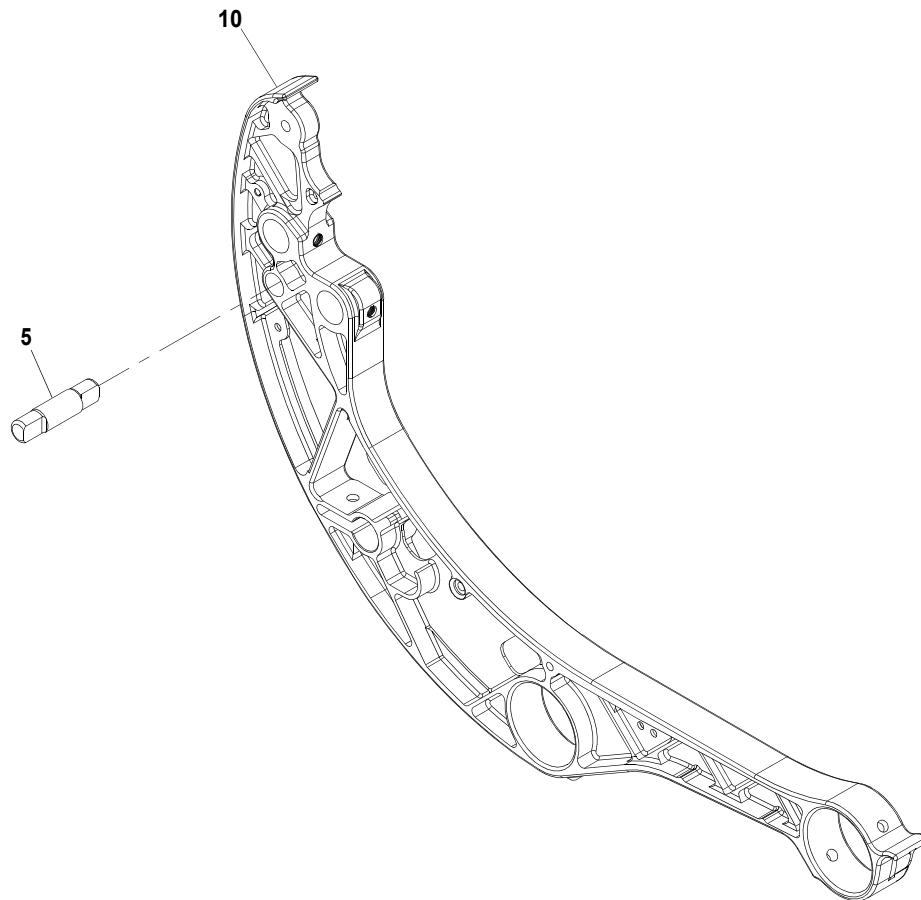
**R. Removal of the Baggage Bar (Continued)**

(Refer to the illustration in this procedure and in IPL FIG 16)

- (2) Remove the baggage bar tube (-35) and baggage bar doubler (-40) by removing the rivets (-45).
- (3) Remove the baggage restraint tube (55) by removing the bolt (60), nut (65), and rivet (70).
- (4) Remove the baggage bar end caps (50, 80) and baggage bar doubler (-75).

**S. Disassembly of the Standard Spreader Assembly**

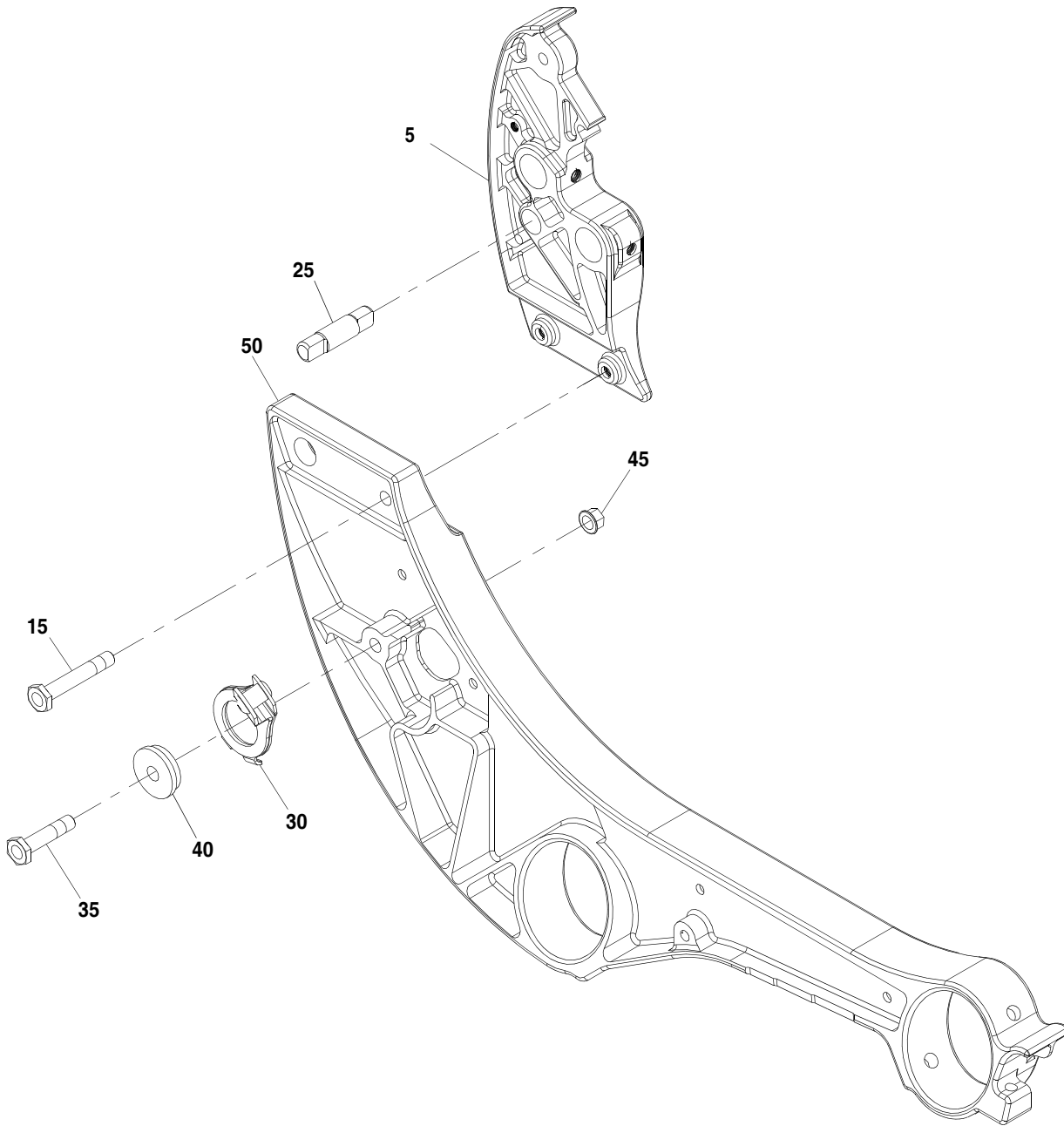
(Refer to the illustration in this procedure and in IPL FIG 17)



- (1) Remove the back-mounted foodtray stop pin (5) from the machined spreader (10).

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- T. Disassembly of the Spreader Assembly - Canted  
(Refer to the illustrations in this procedure and in IPL FIG 18)

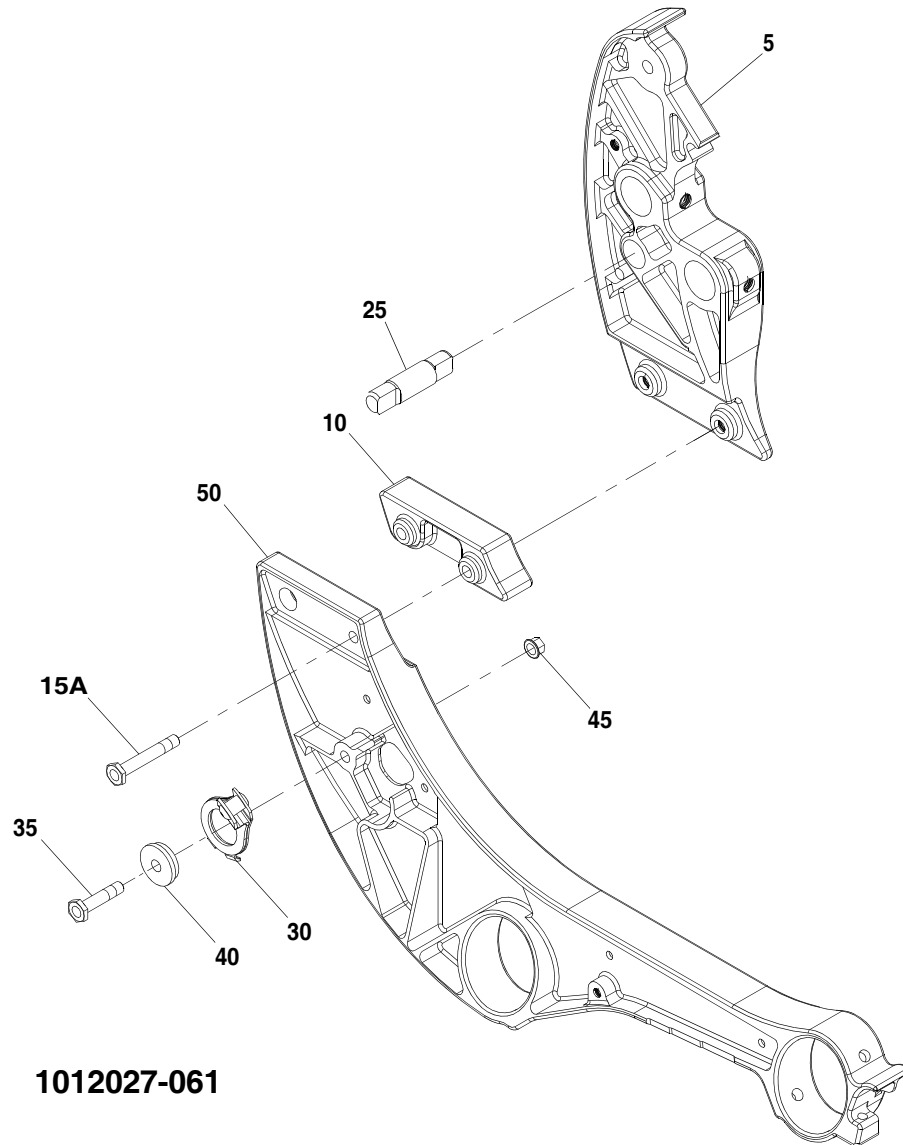


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- (1) Remove the canted spreader assembly (5) from the canted spreader (50) by removing the bolt (15).
- (2) Remove the seat belt shackle assembly (30) by removing the bolt (35), clocking spindle cap (40), and nut (45).

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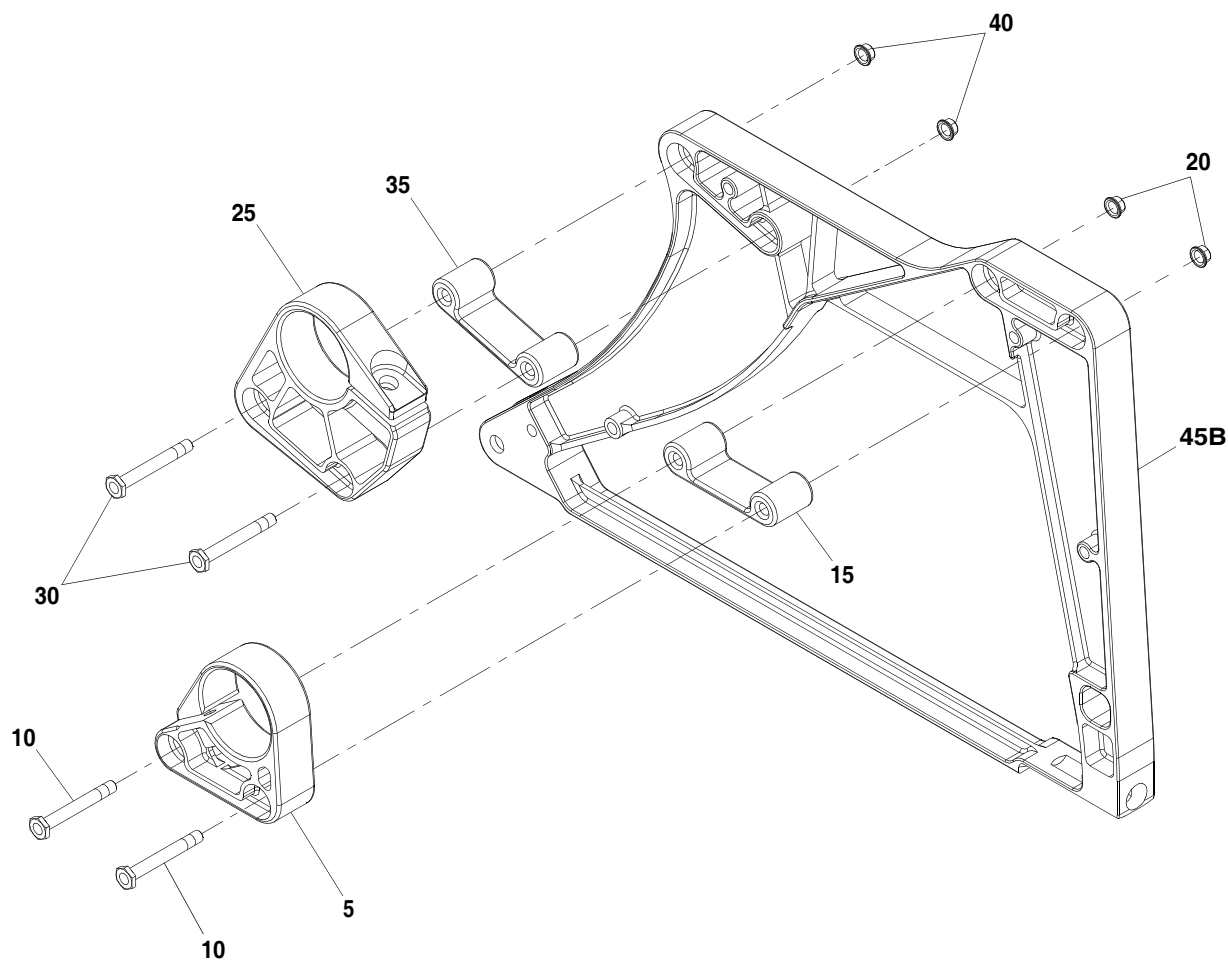
- T. Disassembly of the Spreader Assembly - Canted (Continued)  
(Refer to the illustrations in this procedure and in IPL FIG 18)



- (3) Remove the canted spreader assembly (5) and spacer machined spreader (10) from the canted spreader (50) by removing the bolt (15A).
- (4) Remove the back-mounted foodtray stop pin (25) from the machined spreader (-20).
- (5) Remove the seat belt shackle assembly (30) by removing the bolt (35), clocking spindle cap (40), and nut (45).

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- U. Disassembly of the Leg Assembly  
(Refer to the illustration in this procedure and IPL FIG 19)

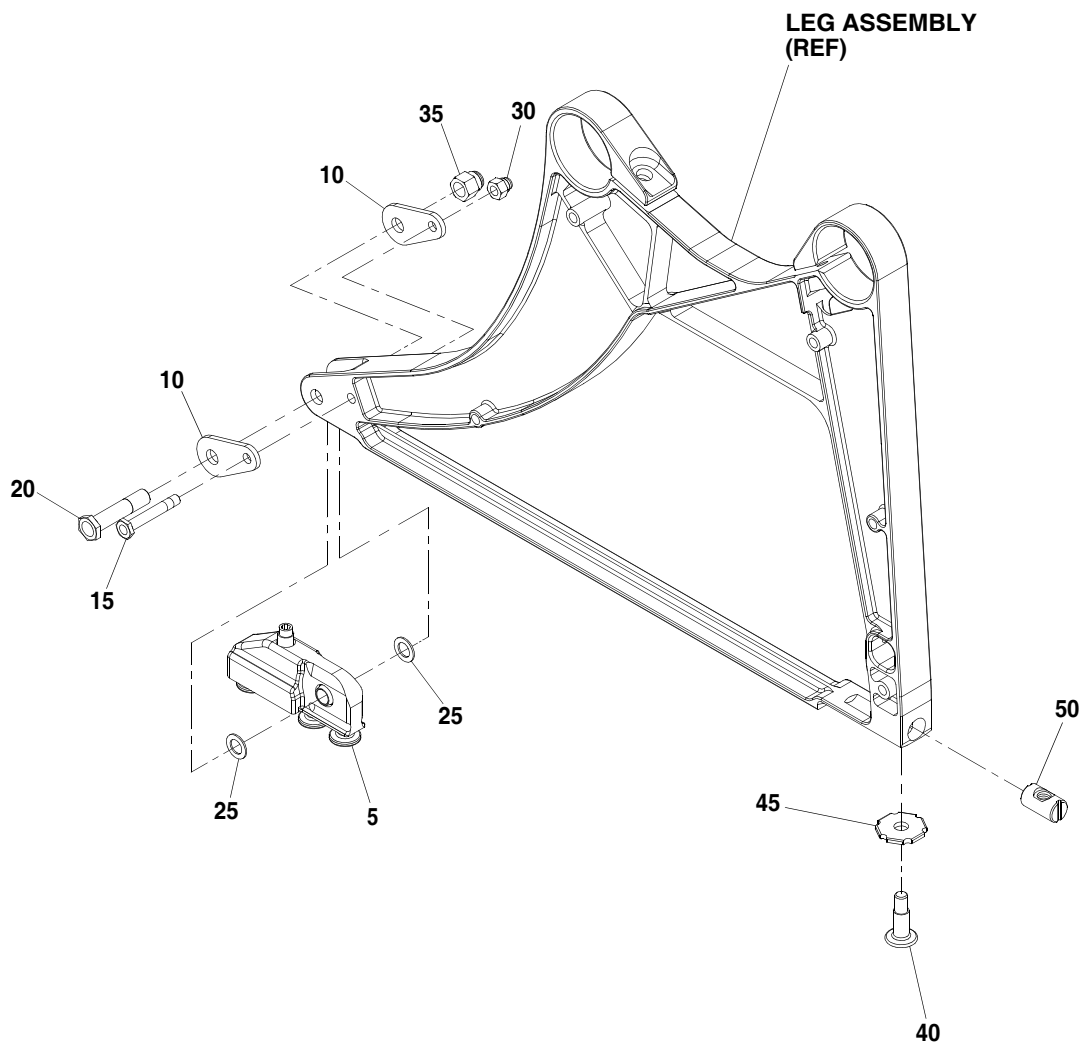


**1012022-027**  
**OFFSET LEG ASSEMBLY**

- (1) Remove the front upper offset leg (5), aft upper offset leg (25), and offset leg spacers (15, 35) from the offset leg (45B) by removing the bolts (10, 30) and nuts (20, 40).

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- V. Removal of the Track Fittings  
(Refer to the illustration in this procedure and IPL FIG 20)



- (1) Remove the track fittings (5) and doublers (10) by removing the bolts (15, 20), spacers (25), and nuts (30, 35).
- (2) Remove the leg barrel nut pins (50) by removing the studs (40) and anti-rattle nuts (45).

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CLEANING

1. General

External surfaces and upholstery should be periodically checked and cleaned. The table on Page 4002 lists cleaning agents and materials used on the seat assembly.

Since each cleaning agent has specific features and limitations, carefully follow the instructions given on any product container to ensure best results. The normal cleaning method for seat covers is to remove them from the seat and commercially dry clean with perchlorethane.

NOTE: Before dry cleaning, mate the hook attachment with the opposing piece of pile.

2. List of Cleaning Materials and Usage

**WARNING: SOLVENT CLEANING AGENTS MUST BE USED IN A WELL-VENTILATED AREA. AVOID PROLONGED SOLVENT CONTACT WITH SKIN AND AVOID BREATHING VAPORS. OBSERVE APPROPRIATE FIRE REGULATIONS.**

**WARNING: READ AND FOLLOW ALL LABEL DIRECTIONS FOR THE CLEANING MATERIALS IN USE. SOME PRODUCTS CAN BE HAZARDOUS TO HEALTH UNLESS SPECIAL PRECAUTIONS ARE FOLLOWED.**

CAUTION: DO NOT USE THE FOLLOWING TYPES OF CLEANING AGENTS: CITRUS CLEANERS, TRICHLORETHYLENE, TRICLENE, METHYL ETHYL KETONE (MEK), METHYL ISO BUTYL KETONE (MIBK), LYES, ALKALINE CLEANERS, TOLUOL, BENZOL, ACETONE, AND CARBON TETRACHLORIDE.

CAUTION: READ AND FOLLOW ALL LABEL DIRECTIONS FOR THE CLEANING MATERIALS IN USE. SOME PRODUCTS MAY CAUSE DAMAGE TO FABRICS OR FINISHES WHEN USED INCORRECTLY.

CAUTION: ALWAYS TEST A CLEANING AGENT ON A SMALL, INCONSPICUOUS AREA TO BE SURE IT WILL NOT STAIN OR DAMAGE THE FABRIC OR FINISH.

NOTE: Follow the instructions on the product label for the appropriate application and dilution requirements. Hot water enhances the cleaning power of most cleaning compounds.

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USAGE	CLEANING AGENT
Upholstery	Isopropyl alcohol, grain alcohol (ethanol), wood alcohol (methanol), naphtha, white kerosene, petroleum, ether, heptane, freon TF, mild soap and water, upholstery shampoo
Metal: Dirt and Grime	Mild soap and water, chlorinated dry cleaning solvent
Metal: Grease and Oil	Hexane, isopropyl alcohol, grain alcohol (ethanol), chlorinated dry cleaning solvent
Fabric-Backed Vinyl	Mild soap and water
Leather (Generic)	Commercial saddle soap
Leather (Specialty): e.g., Ultraleather™, Cortina Leather	Recommended mild (non-detergent) soap and water but always follow manufacturer's cleaning instructions.
Plastic: Dirt and Grime	Mild soap and water, plastic cleaner
Painted Surface	Isopropyl alcohol, soapy water (recommended)
Tape Adhesive Residue	Isopropyl alcohol

**NOTE:** Equivalent substitutes may be used for cleaning agents listed above.

3. Upholstery Cleaning (for Spots and Small Areas)

Both wool and synthetic fabric seat covers require periodic dry cleaning. See Section 13 in this page block for detailed cleaning recommendations.

- A. Vacuum upholstery thoroughly or brush with a medium stiff bristle upholstery or clothes brush. Do not pound or beat upholstered covers, as this does not effectively clean the upholstery and can hasten the wear.

**NOTE:** Vigorous rubbing may be required to obtain uniform stain removal and to avoid a spotty or blotchy appearance after drying.

- B. Remove dry or waterborne soil with upholstery shampoo. Dilute the upholstery shampoo as directed on its container and apply to a small area (approximately one square foot) with a small, clean brush. Liberal application will assist in loosening deeply imbedded dirt.
- C. Oily grease spots are best removed with solvent-type cleaning agents or with solvent-impregnated powder. Test the material to be cleaned by first applying the cleaning agent to a small inconspicuous area of the material. Use cleaning agents sparingly, without saturating fabric, to avoid spotting and damage. Apply the cleaning agent with a soft, clean cloth and avoid spreading stains by working from the outer edges of the stain toward the center.

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- D. After using upholstery shampoo, solvent-type cleaning agents, or solvent-impregnated powder, roll a clean turkish towel or other absorbent cloth into a cylindrical shape and wipe off the cleaned area. Rotate the rolled cloth frequently to present a clean section to the fabric surface.

4. Bare Metal Parts Cleaning

Moisten a clean, dry cloth with a chlorinated dry cleaning solvent and thoroughly wipe metal parts. Repeat as required to remove stubborn accumulations of dirt and grease. Dry with a fresh, clean, and dry cloth.

5. Cushion Cleaning

The dress covers protect the cushion from most dirt and staining. If the cushion is thought to have been significantly stained by any organic or inorganic substances, the cushion should be replaced due to possible deterioration of the fire blocking properties of the cushion. For light stains on the cushions, dabbing with a soft cloth or sponge and warm water is permissible. The cushions must not be exposed to any chemical cleaning agents. Never rub or scrub a cushion with any material or device.

6. Seat Belt Cleaning

**CAUTION:** B/E AEROSPACE DOES NOT RECOMMEND DRY CLEANING OF THE SEAT BELT ASSEMBLIES OR WEBBING. DRY CLEANING WILL CAUSE THE WEBBING TO LOSE SOME OF ITS ABRASION-RESISTANT COATING AND DECREASE THE SEAT BELT SERVICE LIFE.

- A. Metal components and hardware on seat belts can be cleaned with a lint-free cloth moistened with isopropyl alcohol, with the webbing covered to prevent contact with the isopropyl alcohol.
- B. Webbing can be hand washed using a soft brush and mild soap (e.g., liquid dish washing soap or household laundry detergent), with the metal parts covered to protect them from contact with the soap.
- C. The assemblies must be dried in an area with good air flow and away from sources of heat or sunlight.

7. Fabric-Backed Vinyl Cleaning

Clean fabric-backed vinyl with a mild soap and water solution and wipe clean and dry. Do not use solvent-type cleaners on vinyl.

8. Leather (Generic) Cleaning

**CAUTION:** DO NOT USE DETERGENTS, CITRUS CLEANERS, OR SOLVENTS FOR CLEANING LEATHER. FOR SPECIALTY CFE LEATHER (E.G., CORTINA LEATHER), DO NOT USE SADDLE SOAP AND FOLLOW THE MANUFACTURER'S CLEANING INSTRUCTIONS.

Clean leather covers with commercial saddle soap.

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9. Ultraleather™ Cleaning

**CAUTION:** DO NOT USE HEAVY DETERGENTS, CITRUS CLEANERS, OR SOLVENTS FOR CLEANING ULTRA LEATHER. DO NOT MACHINE WASH THIS MATERIAL.

- A. Spot clean with mild soap and water. Air dry or quick dry with warm setting of a hair dryer. Disinfect with a 5:1 bleach solution. Dry cleanable by conventional methods using commercial dry cleaning solvents.
- B. Use a mild detergent to remove stains from coffee, tea, red wine, liquor, soft drinks, milk, ketchup, steak sauce, soy sauce, mayonnaise, butter, salad dressing, chocolate, cosmetic foundation, lipstick, face cream, suntan oil/lotion, shoe polish, and urine.
- C. Use a mild cleaning fluid on stains like machine oil and on more stubborn stains when mild detergent is not enough.

10. Plastic Cleaning

**CAUTION:** CITRUS CLEANERS AND CLEANING AGENTS CONTAINING CHLORINATED HYDROCARBONS WILL MAR PLASTIC AND CAUSE DAMAGING CHANGES TO ITS CHEMICAL COMPOSITION. THE USE OF ANY SUCH CLEANING AGENTS WILL REDUCE THE SERVICE LIFE OF PLASTIC PARTS AND VOID WARRANTY CLAIMS.

- A. Use extreme care when cleaning any plastic surface. Never use abrasive soaps and bleach. Instead, clean all plastic surfaces with a mild soap and water solution or a recommended plastic cleaner.
- B. Mix liquid soap or plastic cleaner with water to the suggested concentration, depending on the strength needed for cleaning. Apply the solution directly to the plastic and rub with a clean, lint-free cloth to loosen dirt and debris. Wipe with a fresh, clean, lint-free cloth or rinse with water and dry with a turkish towel.

11. Painted Surface Cleaning

Clean painted surfaces with non-abrasive soaps or isopropyl alcohol.

12. Adhesive Residue Cleaning

**CAUTION:** DO NOT USE SOLVENTS AS A CLEANER FOR ADHESIVE RESIDUE. SOLVENTS WILL WEAKEN THE BONDED SURFACES.

Use a soft cloth wet with small amounts of isopropyl alcohol to remove adhesive residue (e.g., double-sided tape residue). Once the area is clean and free from adhesive residue, use a soft, dry, lint-free cloth to completely dry the area.

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13. Wool and Synthetic Fabric Cleaning

B/E Aerospace provides the following information as a guideline for the care and maintenance of fabric seat covers. Repeated cleaning of the seat covers can reduce the flammability retardant characteristics of the cover assembly and, in turn, affect the flammability characteristics of the cushion-cover system. Some cleaning processes may reduce the flammability protection more than others. Please follow the fabric manufacturer's instructions for cover fabric cleaning. The flammability requirements for the cover assembly and all other components of the cushion-cover system are defined by 14CFR25.853 (a) and (c).

**WARNING: MONITOR SEAT COVERS FOR FLAMMABILITY PERFORMANCE OVER THE LIFE CYCLE PER THE REQUIREMENTS LISTED IN THE PREVIOUS PARAGRAPH. THIS MONITORING PROCESS IS THE RESPONSIBILITY OF THE AIRLINE.**

A. Flame-Resistant Synthetic Upholstery Fabrics

**NOTE:** As a rule, synthetic fabrics do not require pretreatment because of the inherent non-staining characteristics of the fibers.

(1) Laundry machines

Use a laundry machine with a load capacity of approximately 40 pounds. Machines with larger loading capacities tend to accelerate abrasion of the fabric.

(2) Detergents

Use only non-ionic detergents.

(3) Fabric preparation for laundering

(a) Cover hook tape with pile tape to avoid fabric damage during laundering.

(b) Turn covers inside out before laundering.

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(4) Laundering procedure

**NOTE:** Load the laundry machine to approximately 33% of rated capacity. Loading machines higher than 33% may impair cleaning efficiency and accelerate abrasion of the fabric. Underloading may impair flame retardant properties because of detergent absorption.

Follow the guidelines in the following table for laundry machine settings:

CYCLE	TEMPERATURE	ADD	CYCLE TIME
First Wash	85° F	1 ounce all-in-one non-ionic detergent	10-15 minutes
Intermediate Rinse	85° F		5-10 minutes
Second Wash	85°-105° F	0.4 ounce all-in-one non-ionic detergent	10-15 minutes
Final Rinse	85° F		
Drying	131° F maximum		Variable; remove promptly when dry to avoid wrinkling.

**B. Flame-Resistant Wool and Wool-Blend Upholstery Fabrics**

(1) Sort fabrics by stain characteristics and pretreat stains as described below:

TYPE	EXAMPLES	PRETREATMENT METHOD
Water soluble	Tea, coffee, red wine, fruit, urine	a. Moisten the stain with water. b. Work the spotting reagent into the stain with a spatula or tamping brush. c. Blow steam through the spot. d. Follow steam with forced air and simultaneous vacuuming.
Protein-type water soluble	Milk, chocolate, blood	a. Moisten the stain with water. b. Work the spotting reagent into the stain with a spatula or tamping brush. c. Blow steam through the spot. d. Follow steam with forced air and simultaneous vacuuming.

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TYPE	EXAMPLES	PRETREATMENT METHOD
Water In-soluble	Ink, lipstick, nail polish, shoe polish	a. Work the spotting reagent into the stain (dry fabric) with a spatula or tamping brush.  b. Dry clean the fabric before the reagent dries.
Unknown stains		<b>CAUTION:</b> USING AN NON-IONIC OR ALKALINE REAGENT CAN IMPAIR THE FLAME-RETARDANT CHARACTERISTICS OF THE FABRIC AND ADVERSELY AFFECT CERTIFICATION.  a. Use a commercial, non-ionic stain removal kit that includes procedures for removing unknown stains.  b. Test the cleaner on a small area for colorfastness before proceeding.

(2) Laundry Machines:

- (a) Use a dry cleaning machine with a load capacity of 20-65 pounds. Machines with larger loading capacities tend to accelerate fabric abrasion.
- (b) Load machines to about 70% of rated capacity. Loading machines higher than 70% may impair cleaning efficiency and accelerate fabric abrasion. Underloading may result in impairment of flame retardant properties because of detergent absorption or excessive shrinkage.
- (c) Use a non-ionic dry cleaning detergent.
- (d) Although the dry cleaning process is designed to be waterless, Lantal Textiles, a manufacturer, states that the addition of some water is necessary to reduce the long-term buildup of perspiration salts and sebum, which will cause a reduction in flame retardancy.
- (e) The temperature of the dry cleaning solvent should be 65°-70° F. Maintain this temperature throughout the dry cleaning process. Higher temperatures can cause undue shrinkage.

(3) Prepare fabric for dry cleaning as follows:

- (a) Cover hook tape with pile tape to avoid fabric damage during dry cleaning.
- (b) Turn covers inside out.

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(4) Dip-wash/filter-rinse dry cleaning procedures are given below:

STAGE	PROCEDURE
Dip wash	<ul style="list-style-type: none"><li>a. Wet the fabric with solvent containing 3-5 grams per liter of detergent.</li><li>b. Add water mixed with detergent (see the detergent or manufacturer's recommendation) to the cage with a hopper or automatic metering pump.</li><li>c. Circulate solvent without filtering for 7-10 minutes.</li><li>d. Pump out the solvent and centrifuge the fabric.</li></ul>
Filter rinse	<ul style="list-style-type: none"><li>a. Add distilled solvent and circulate continuously from the cage to the button trap to the pump to the filter to the cage for 3-5 minutes.</li><li>b. Centrifuge for 2 minutes and then dry.</li></ul>

(5) Drying temperature:

Tumble dry flame-retardant wool and wool blend fabrics with a maximum outlet air temperature of 120° F.



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INSPECTION/CHECK

1. Visual Inspection of Parts

- A. Inspect all new or existing parts before installing them on the seat. Use a strong light and a 5x to 7x magnifying glass. When inspecting for damage or corrosion, an inspection mirror must be used to determine the condition of all exposed surfaces.
- B. Refer to the manufacturer's instructions for detailed inspection, test, and overhaul procedures for recline locks and controls. The manufacturer of these parts is Enidine, Inc., 7 Centre Drive, Orchard Park, New York 14127 (V24403).
- C. The following applies to Seat Cover and Cushion Assemblies:

**WARNING: MONITOR THE SEAT COVER AND CUSHION ASSEMBLY FOR FLAMMABILITY PERFORMANCE OVER THE LIFE CYCLE PER THE REQUIREMENTS IN 14CFR25.853 (A) AND (B).**

**WARNING: MONITOR ANY FLOTATION CUSHIONS FOR FLOTATION PERFORMANCE OVER THE LIFE CYCLE PER THE REQUIREMENTS IN TSO C72.**

**WARNING: THESE MONITORING PROCESSES AND ANY CORRESPONDING MAINTENANCE ACTIONS ARE THE RESPONSIBILITY OF THE AIRLINE.**

2. Seat Assembly Serviceability Inspection

Perform the checks listed in Table 5001 after any significant repair work or disassembly of the seat assembly. If specific components are not present on your seats, skip those particular checks. Replace any part that fails to meet the requirements of the check with a serviceable part. If a defective part is repairable, note the defect and assign that part for repair.

Table 5001  
Detailed Inspection

DETAILED INSPECTION (ACCEPT/REJECT EACH ITEM LISTED)	
	Check for required tags on the seat assembly. If modifications have been made to the seat per service documentation, check that proper tags and/or entries have been applied.
	Check that all parts are clean and free of cracks, corrosion, deterioration, and obvious signs of damage.

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Table 5001 (Continued)  
 Detailed Inspection

DETAILED INSPECTION (ACCEPT/REJECT EACH ITEM LISTED)	
	Check back assemblies and installations:
	Check for proper seat back recline function. See paragraph 4 for details on UltraLOC inspection.
	Check for proper installation and function of the cable retaining shroud device breakover lockout.
	Check for missing parts, broken parts, and parts not securely attached or fastened.
	Check hardware and metal parts for orientation, tightness, and burrs.
	Check the literature pocket spring tension.
	Check foodtray assemblies:
	Check that the foodtray latch properly secures the foodtray.
	Check that the foodtray deploys and stows properly.
	Check the foodtray top shrouds for nicks, cracks, stains, or burrs.
	<b>NOTE:</b> Burrs, nicks, and scratches are defined as material raised above the normal surface which, if not removed, would prevent complete and proper mating of parts and sealing surfaces. Where nicks and scratches allow bare metal to show through a protective finish, note the defect and assign the part for repair. Dents or other damage must not impair finish or functional operation of any part.
	Check foodtray surfaces for serviceable appearance.
	Check seat belts and seat belt shackles for serviceability, proper installation, and tightness of attaching hardware. See paragraph 3 for detailed inspection information.
	Endbay / Arm:
	Check armrest tension and lockout.
	Check recline buttons for proper function.
	Check cable routings.
	Check hardware and metal parts for proper direction, tightness, and sharp edges/burrs.
	Check paint and finishes for chipping and worn spots. Note the condition of bonding on parts and assemblies.
	Bottom Diaphragm:
	Check for proper installation.
	Check for proper tension. The diaphragm should not have sags or appear loose.
	Check for tears or other damage to the fabric.
	Check for part identification.

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Table 5001 (Continued)  
Detailed Inspection

DETAILED INSPECTION (ACCEPT/REJECT EACH ITEM LISTED)	
	Baggage Bar:
	Check baggage bar for serviceable appearance.
	Ensure that baggage bar plugs are installed.
	Check all baggage bar hardware for tightness, burrs, and sharp edges.
	Dress Covers:
	Check dress covers for cleanliness and serviceability.
	Check dress cover labels for number of cleanings.
	<b>NOTE:</b> Refer to <u>CLEANING</u> (Page Block 4000) for information on flammability retardancy as affected by dry cleaning.
	Check all dress covers for proper fit and alignment.
	Check the rear track fittings and front track studs on legs for secure attachment to the aircraft floor tracks. Also, check for wear or deformation of these parts.

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3. Seat Belt Detailed Inspection and Limitations

- A. Seat belts require visual and operational inspection periodically or when an incident may indicate potential damage. B/E Aerospace recommends that the seat belt be inspected during every Light Check (refer to MAINTENANCE AND SERVICING, Page Block 14000). Inspections should at minimum coincide with the Continued Airworthiness inspection of the aircraft or at intervals of no greater than one year.

**WARNING: THE SEAT BELT MUST BE REPLACED AFTER ANY HIGH LOAD STRESS/ CRASH/IMPACT EVENT THAT COULD CAUSE A LOSS OF STRUCTURAL INTEGRITY OR INABILITY TO PERFORM TO DESIGN.**

- B. Frayed webbing consists of broken filaments on either the longitudinal (warp) or filler (traverse) yarns. Broken filaments that make identification of any individual yarn unclear (from a viewing distance of about eight inches) is excessive fraying. Refer to Figure 5001.

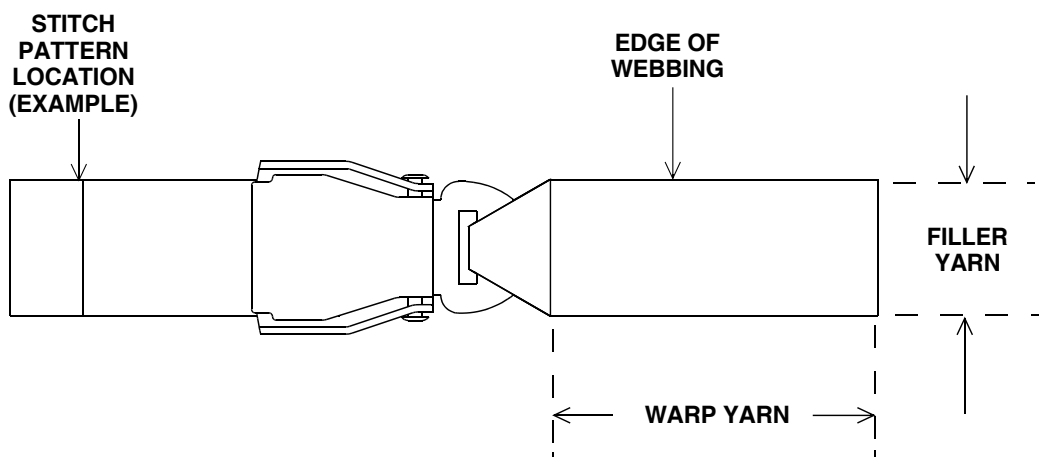


Figure 5001

C. Seat Belt Checks:

- (1) Check that the seat belt webbing is clean and free of dirt, corrosive materials or any inappropriate substances. (For cleaning instructions refer to instructions in CLEANING, Page Block 4000)
- (2) Check that all seat belt attaching parts are properly secured.
- (3) Buckle and unbuckle the seatbelt to verify proper operation. Replace the belt if the operation failed.
- (4) Pull the free end of the webbing to check that the belt adjusts smoothly. Replace the belt if the operation failed.

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- (5) Check the seat belt webbing for wear, tears and/or frayed or damaged stitching or threads or fusing of the web material (Refer to Figure 5001).

**WARNING: THE SEAT BELT MUST BE REPLACED WHEN THE WEBBING SHOWS SIGNS OF EXTENSIVE WEAR, FRAYING, DAMAGED STITCHES OR THREADS, OR WHEN THE FRAYING IS SUFFICIENT TO CAUSE IMPROPER OPERATION OF ANY COMPONENT OF THE SEAT BELT. IMMEDIATELY REPLACE ANY SEAT BELT THAT IS CUT OR WORN ON THE EDGE OF THE WEBBING MATERIAL (REFER TO FIGURE 5001).**

- (6) Minimal amounts of wear or fraying of the seat belt webbing will allow the webbing to retain required strength and does not require immediate replacement of the seat belt. Minimal amounts of fraying can be described as follows, subject to the seat belt manufacturers specifications:
- (a) The fraying is less than 10% of the width of the webbing (but not at either edge) and less than eight inches in length.
  - (b) There are less than fifteen broken yarns anywhere other than the edge.
  - (c) There are less than fifteen torn stitches in a stitch pattern.

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4. Inspection of UltraLOC

- A. Inspect the UltraLOC for failure to properly secure the seat back in the desired position by performing the following steps and referring to Figure 5002:

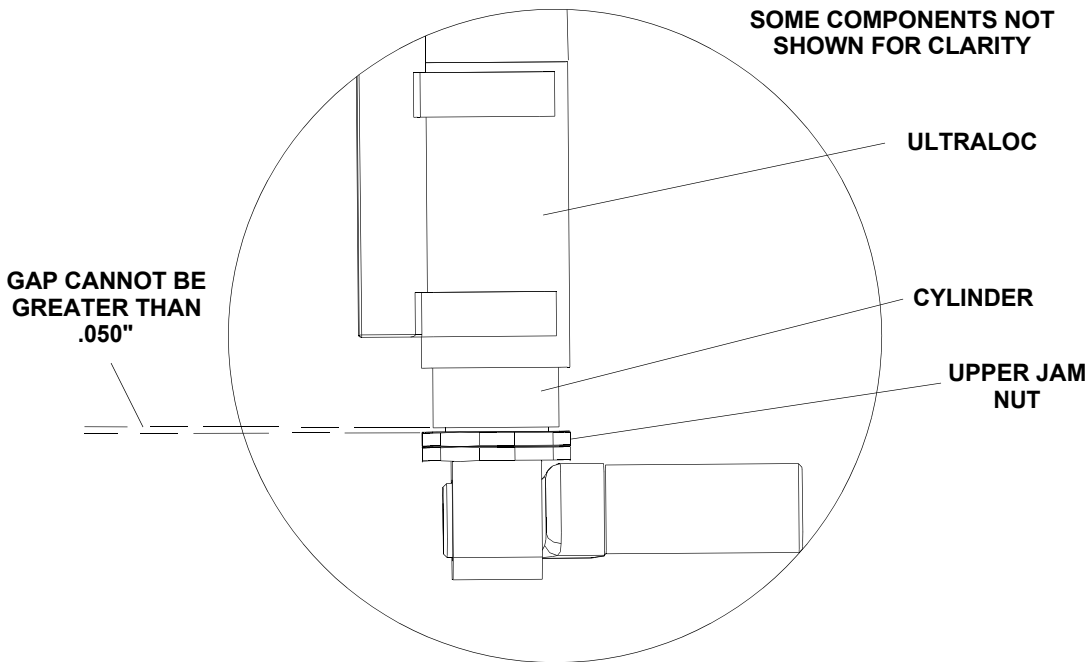


Figure 5002

- (1) Press and hold the recline activation button on the armrest.
- (2) Push the seat back into the fully reclined position.
- (3) Apply pressure to hold the seat back firmly in the fully reclined position.
- (4) Release the recline activation button to hold the seat back in the fully reclined position.
- (5) Remove the holding pressure from the seat back.
- (6) Check the gap between the UltraLOC cylinder and the upper jam nut using a .050 inch gage (gauge).
- (7) If the gap is greater than .050 remove and replace the UltraLOC.

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**REPAIR**

1. Introduction

This Page Block contains the repair procedures that can be applied to defective component parts of the seat unit to restore them to a serviceable condition.

2. Special Tools, Fixtures, and Equipment

**NOTE:** Refer to SPECIAL TOOLS, FIXTURES, AND EQUIPMENT (Page Block 9000) for detailed information.

NAME	SPEC / PART NO.	QTY
File, thread		1
Installation tool, pop rivet		1
Needle, sewing		1
Scissors		1 pr
Spatula		1
Alcohol		AR
Brush, wire		1
Cloth, abrasive	Coarse grade	1
Cloth, lint free		AR
Filler, catalyzed polyester resin		AR
Sealant	PR1422A1/2	AR
Thread, KEVLAR® (A registered trademark of DuPont)		AR
Wool, steel		AR

**NOTE:** Equivalent substitutes may be used for listed items.

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3. Procedure

A. Minor Surface Damage (Light Alloy and Steel Components)

- (1) Minor surface damage includes abrasions and scratches. This damage must be blended out level with the surrounding surface using abrasive cloth.
- (2) If applicable, restore the surface treatment in accordance with local regulations.

B. Minor Surface Damage (Thermoformed Plastic Panels)

- (1) Clean plastic surface with alcohol or an aliphatic solvent such as mineral spirits, heptane or hexane.
- (2) Fill any surface irregularities with catalyzed polyester resin filler.

**NOTE:** Catalyze only the amount of filler needed immediately because the material will begin to harden within five minutes. An automotive body repair surfacing putty may be used as a filler.

- (3) Level filler with a spatula before it hardens. Stipple the filler with a stiff bristle brush before it hardens to restore surface texture.
- (4) After the filler fully hardens (10 to 15 minutes), rub the area lightly with an abrasive cloth to blend the repair into adjacent areas.

C. Screw Threads

- (1) Clean up slightly rough or burred external screw threads with a thread file or small three-corner file. Use a plug tap of correct size to clean up internal threads.
- (2) Replace screws, bolts, or other fasteners having stripped threads.

D. Removal of Surface Corrosion

- (1) Light alloy components
  - (a) Remove corrosion from light alloys using an abrasive cloth.
  - (b) If applicable, restore the surface treatment in accordance with local regulations.
- (2) Steel components
  - (a) Remove corrosion from steel using a coarse grade wire brush, steel wool, or abrasive cloth.



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E. Upholstery - Fabric

**WARNING: NEVER USE NYLON OR COTTON THREAD FOR REPAIRS. THE BACK AND BOTTOM CUSHION ASSEMBLIES USED ON THE SEAT MODELS IDENTIFIED IN THIS MANUAL ARE CERTIFIED TO CONFORM TO FAR 25.853 (C). CHANGING EITHER THE DRESS COVER OR FIRE BLOCKER MATERIALS MAY CAUSE CUSHIONS TO FAIL THE FAR 25.853 (C) AND REQUIREMENTS AND WILL EFFECTIVELY VOID THE BACK/BOTTOM CUSHION CERTIFICATION.**

- (1) Discard excessively worn or damaged seat dress covers.
- (2) Repair flotation straps and any small cuts and tears using KEVLAR® thread.

F. Seat Belt Repair

- (1) An abrasive cloth can be used to remove minor scratches and nicks on aluminum parts.
- (2) Crocus cloth can be used to remove minor scratches and nicks on steel parts.
- (3) After any repair the seat belt must be cleaned. Refer to the CLEANING, Page Block 4000.

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ASSEMBLY

1. General

Assembly procedures can vary slightly for different seat models.

**WARNING: BE SURE TO TIGHTEN ALL SCREWS, BOLTS, AND NUTS TO THE CORRECT TORQUE VALUE. IF AN INCORRECT TORQUE VALUE IS USED, THE SEAT OR PARTS OF THE SEAT COULD BECOME LOOSE. THIS COULD CAUSE DAMAGE OR INJURY. IF THE TORQUE VALUE IS NOT SHOWN, USE THE TORQUE VALUES GIVEN IN TABLE 8001 IN FITS AND CLEARANCES (PAGE BLOCK 8000). WHEN TIGHTENING A NUT AND BOLT THAT ARE USED TOGETHER, MEASURE THE TORQUE ON THE NUT. IF IT IS NOT POSSIBLE TO ACCESS THE NUT OR IF A NUT IS NOT USED, MEASURE THE TORQUE ON THE BOLT.**

- A. When assembling the seat, always replace attaching parts (cotter pins, screws, washers, nuts, grommets, cable holders, etc.) with new parts. Replacing these low-cost items helps decrease maintenance that will be necessary if these items fail. Before assembly, inspect all parts for wear and/or damage that could cause failure of the seat assembly or any of its component assemblies.
- B. Loctite™ products or equivalent are necessary for seat assembly.
- C. Unless instructions for individual pieces of hardware specify otherwise, per manufacturer's instructions:
  - (1) For hardware with thread size 8 and higher, apply Loctite™-243 adhesive to all non-locking hardware and all hardware used in joints with no locking element.
  - (2) For hardware with thread size less than 8, apply Loctite™-222 adhesive and Loctite™-7649 activator to all non-locking hardware and all hardware used in joints with no locking element.

2. Installation of Seat Assembly on Aircraft

- A. Clean the floor tracks, and track fittings when seats are moved. This will prevent unwanted wear on fastener assemblies.
- B. To attach the seat assemblies to the aircraft, put the track studs and track fittings at the bottom of the leg assemblies in the slots in the floor track.
- C. Slide the seat assembly forward or aft approximately one-half inch until the locking mechanism on the rear track fitting can be pressed into an access hole.
- D. To lock the rear track fitting into position, tighten the Allen screw on top of the track fitting. The correct torque is 60 ±10 IN-LB.

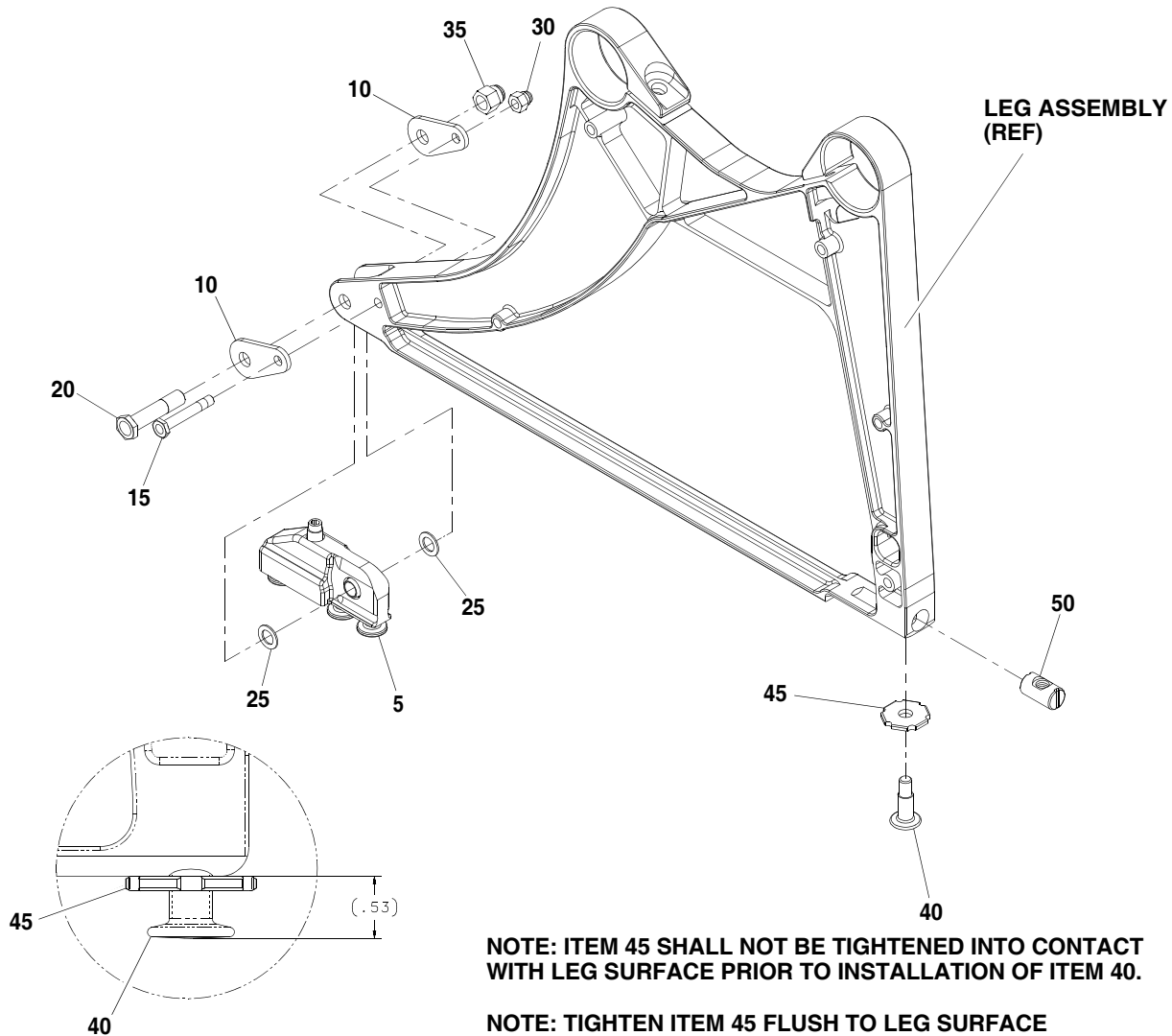
**CAUTION: USING TOO MUCH FORCE TO TIGHTEN THE ANTI-RATTLE NUT COULD DAMAGE IT.**

- E. To lock the Front Track Fitting into position use a 3/16 Allen wrench to tighten set screw until pad touches top of seat track plus 1/2 turn.
- F. Tighten the anti-rattle nut under the forward leg hand tight plus 1/4-turn.

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3. Assembly Procedures

- A. Installation of the Track Fittings  
(Refer to the illustration in this procedure and in IPL FIG 20)



- (1) Attach the front studs (40), anti-rattle nuts (45), and pins (50).

**NOTE:** Apply Loctite™-263 to threads on leading edge of front stud (40) and/or female threads of pin (50). Loctite™-270 may be used as an alternate to Loctite™-263.

**NOTE:** Torque the front stud (40) to 96 ±24 IN-LB.

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A. Installation of the Track Fittings (Continued)

(Refer to the illustration in this procedure and in IPL FIG 20)

- (2) Attach the track fittings (5) and doublers (10) with the bolts (15, 20), spacers (25), and nuts (30, 35).

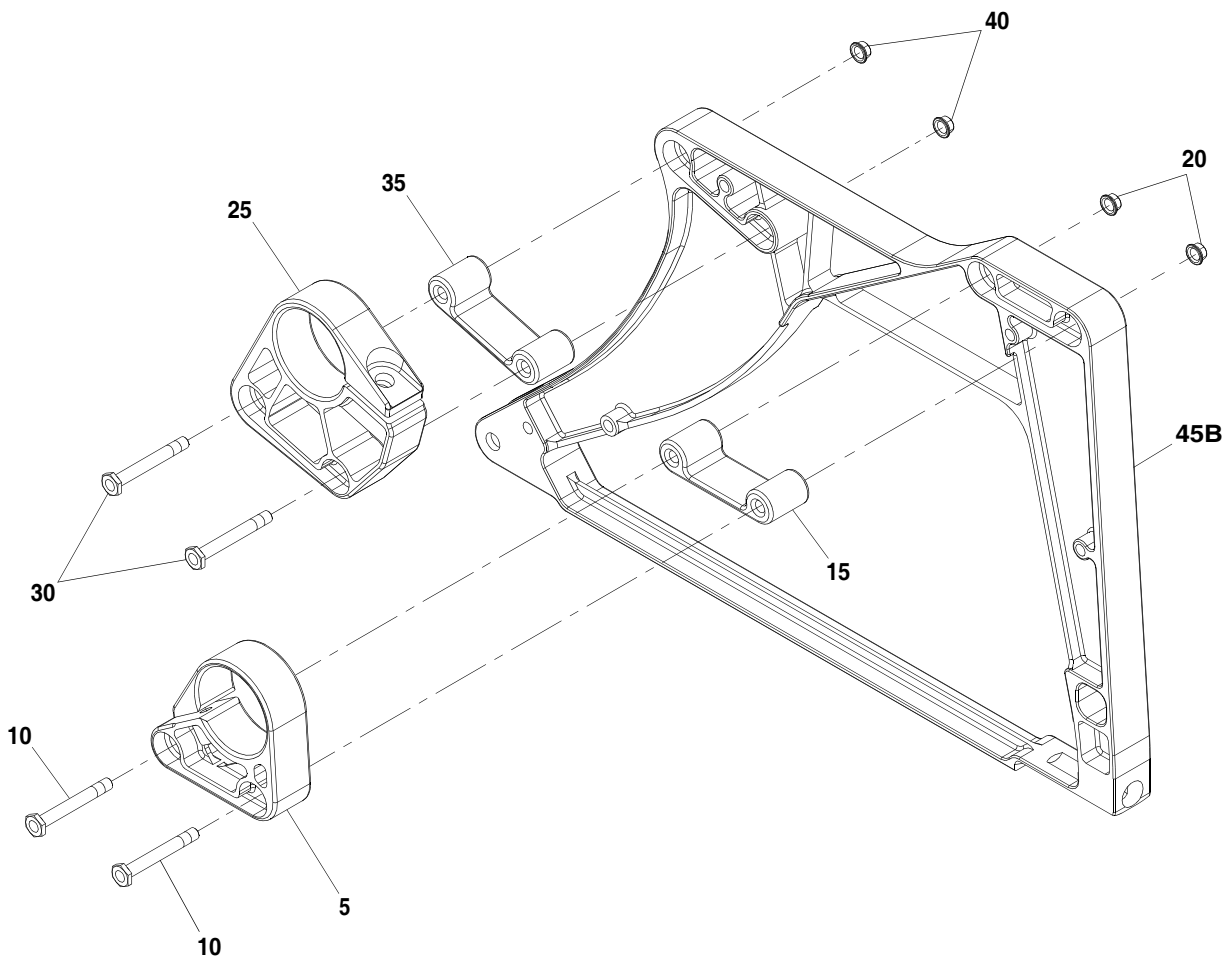
**NOTE:** Torque the bolts (15) and nuts (30) to  $96 \pm 24$  IN-LB.

**NOTE:** Torque the bolts (20) and nuts (35) to  $110 \pm 24$  IN-LB.

**NOTE:** Maintain same orientation of nuts and bolts as shown for both leg assemblies.

B. Assembly of the Leg Assembly

(Refer to the illustration in this procedure and in IPL FIG 19)



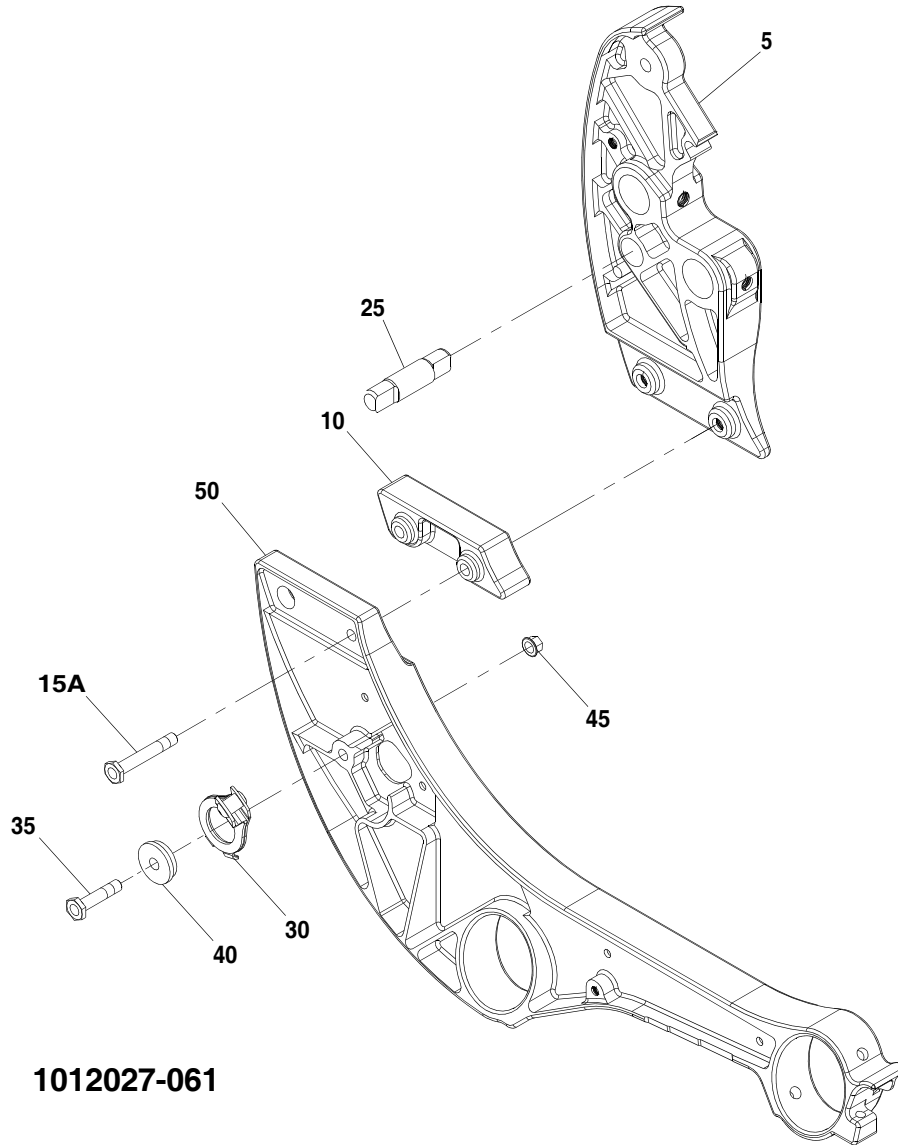
**1012022-027**  
**OFFSET LEG ASSEMBLY**

- (1) Attach the front upper offset leg (5) and aft upper offset leg (25) to the offset leg (45B) with the bolts (10, 30), spacers (15, 35), and nuts (20, 40).

**NOTE:** Torque the bolts (10, 30) and nuts (20, 40) to  $8 \pm 2$  FT-LB.

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- C. Assembly of the Spreader Assembly - Canted  
(Refer to the illustrations in this procedure and in IPL FIG 18)

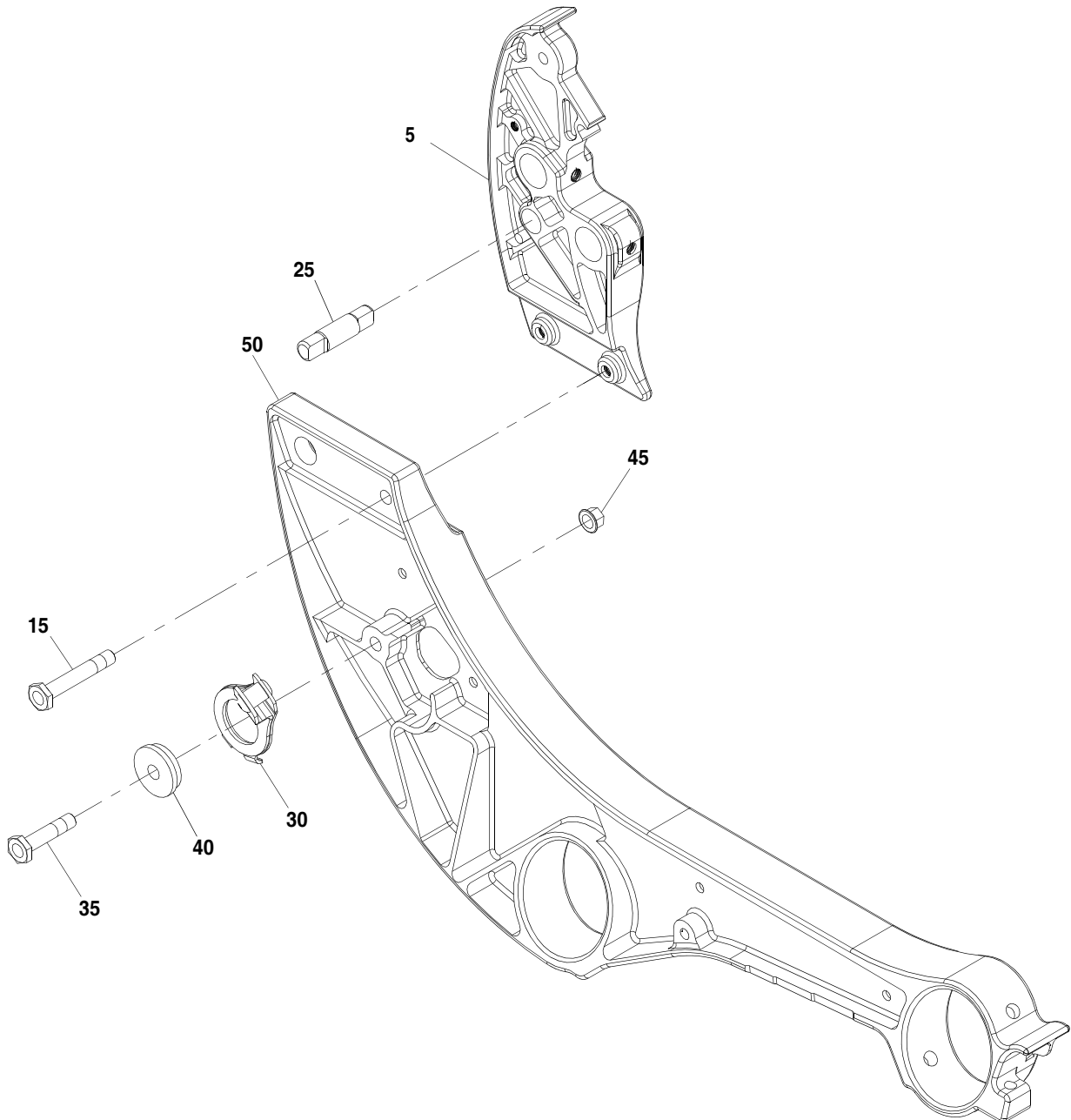


**1012027-061**

- (1) Attach the seat belt shackle assembly (30) to the machined spreader (50) with the bolt (35), clocking spindle cap (40), and nut (45).
- (2) Insert the back-mounted foodtray stop pin (25) into the machined spreader (-20).
- (3) Attach the canted spreader assembly (5) and spacer machined spreader (10) to the canted spreader (50) with the bolt (15A).

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C. Assembly of the Spreader Assembly - Canted (Continued)  
(Refer to the illustrations in this procedure and in IPL FIG 18)

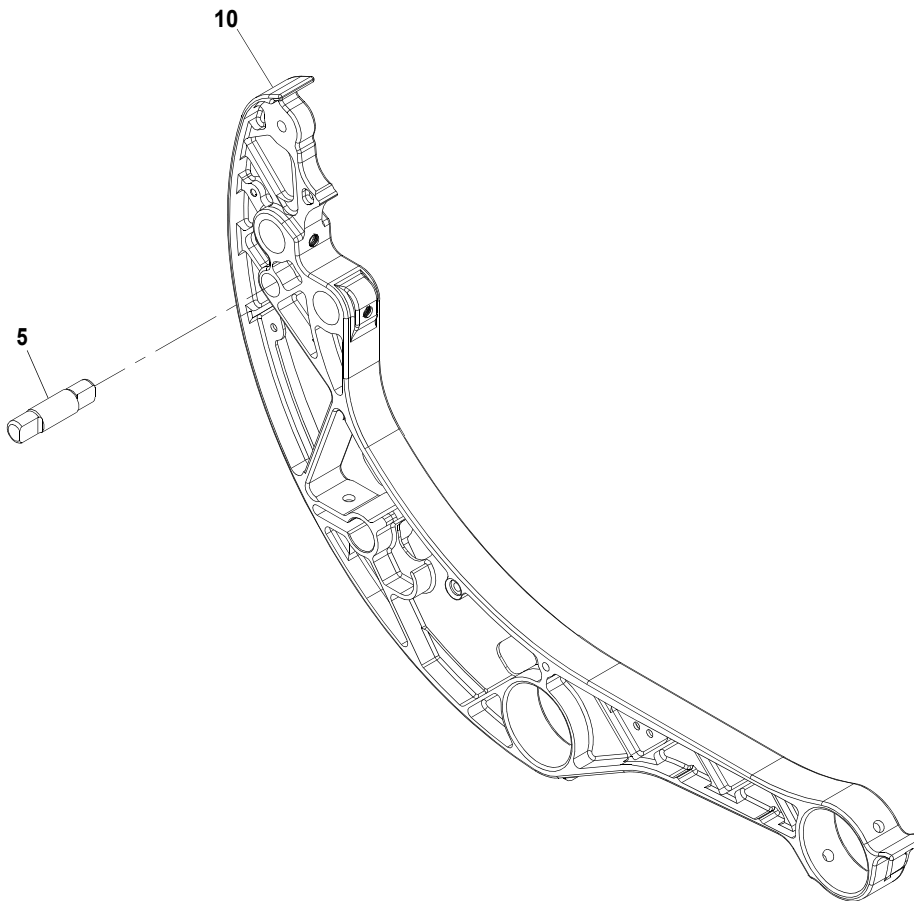


**1012027-059**

- (4) Attach the seat belt shackle assembly (30) to the machined spreader (50) with the bolt (35), clocking spindle cap (40), and nut (45).
- (5) Attach the canted spreader assembly (5) to the machined spreader (50) with the bolt (15).

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- D. Assembly of the Standard Spreader Assembly  
(Refer to the illustration in this procedure and in IPL FIG 17)

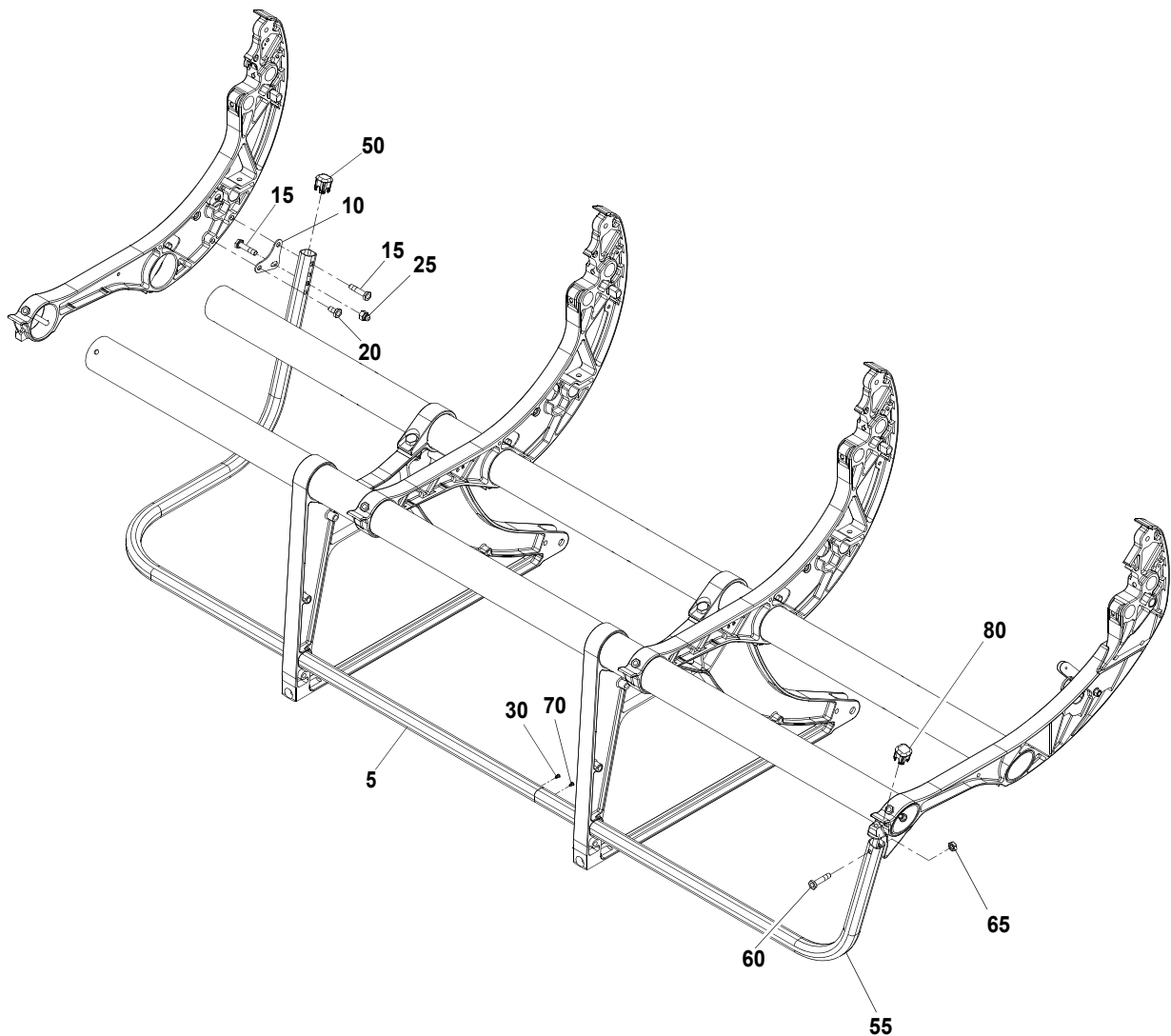


- (1) Insert the back-mounted foodtray stop pin (5) into the machined spreader (10).



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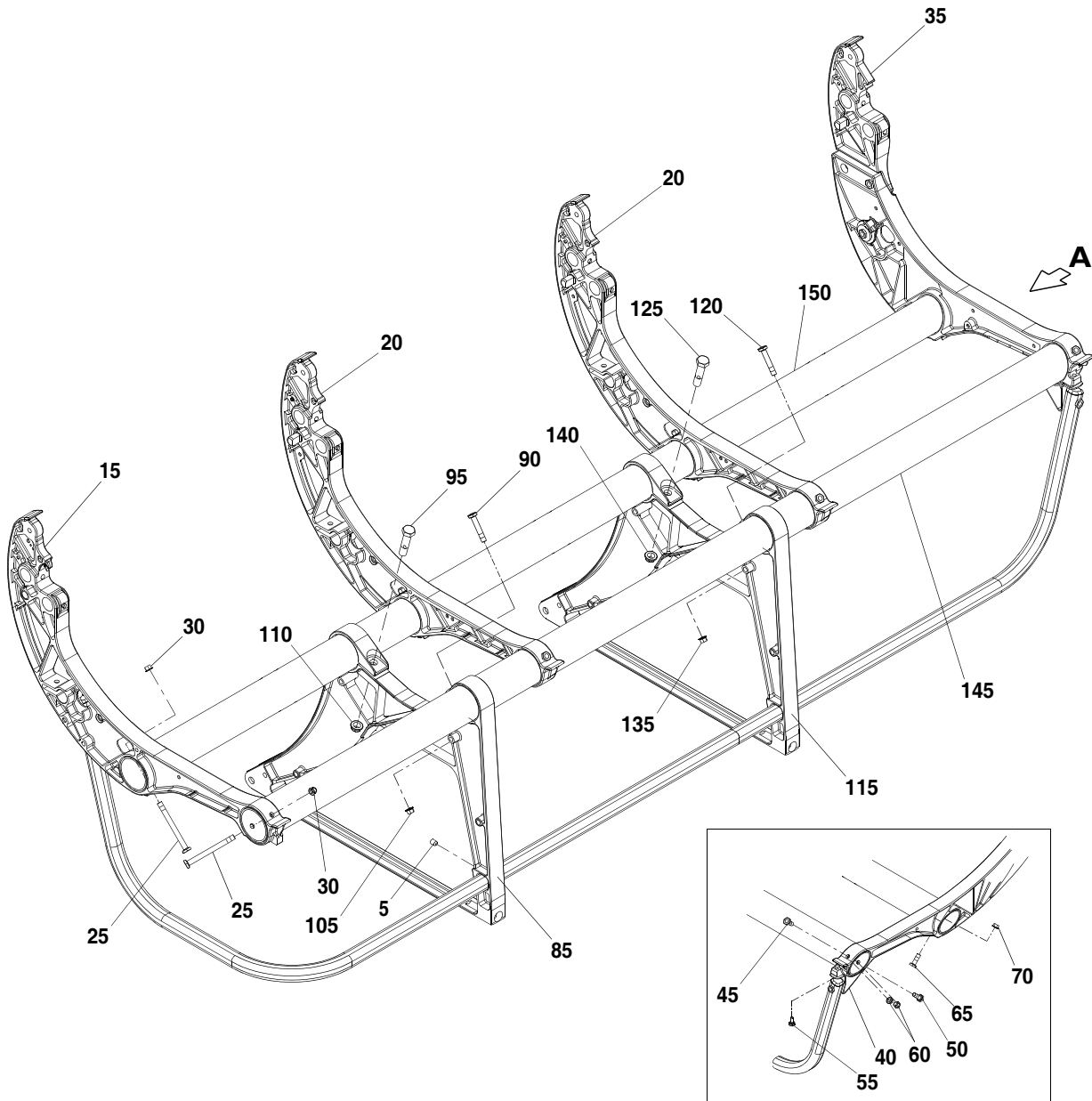
- E. Installation of the Baggage Bar  
(Refer to the illustration in this procedure and in IPL FIG 16)



- (1) Insert the baggage bar endcaps (50, 80) and baggage bar doubler (-75).
- (2) Install the baggage restraint tube (55) by installing the bolt (60), nut (65), and rivet (70).
- (3) Attach the tube baggage bar (-35) and baggage bar doubler (-40) by attaching the rivets (-45).
- (4) Attach the baggage bar assembly (5) and restraint plate bracket (10) by installing the bolts (15, 20), nut (25), and rivet (30).

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- F. Assembly of the Frame Assembly  
(Refer to the illustration in this procedure and in IPL FIG 15)



**DETAIL A**

- (1) Attach the leg assemblies (85, 115) to the front and rear beams (145, 150) with the bolts (90, 95, 120, 125) washers (-100, -130), and nuts (105, 110, 135, 140).

NOTE: Torque the bolts (90, 120) to 7-10 FT-LB.

NOTE: Torque the bolts (95, 125) to 20-25 FT-LB.

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F. Assembly of the Frame Assembly (Continued)

(Refer to the illustration in this procedure and in IPL FIG 15)

- (2) Attach the diaphragm tube retainer assembly (-75) by installing the diaphragm tube retainer (-80).
- (3) Attach the canted spreader assembly (35) and restraint bracket (40) by installing the bolts (45, 50, 55, 65) and nuts (60, 70).

NOTE: Torque the bolts (45, 50) to 10-12 FT-LB.

NOTE: Torque the bolt (65) to 20-25 FT-LB.

NOTE: Refer to Table 2, Frame Assembly Dimensions in DESCRIPTION AND OPERATION for the correct location.

- (4) Attach the inboard, center inboard, and center outboard spreader assemblies (15, 20) by installing the bolts (25) and nuts (30).

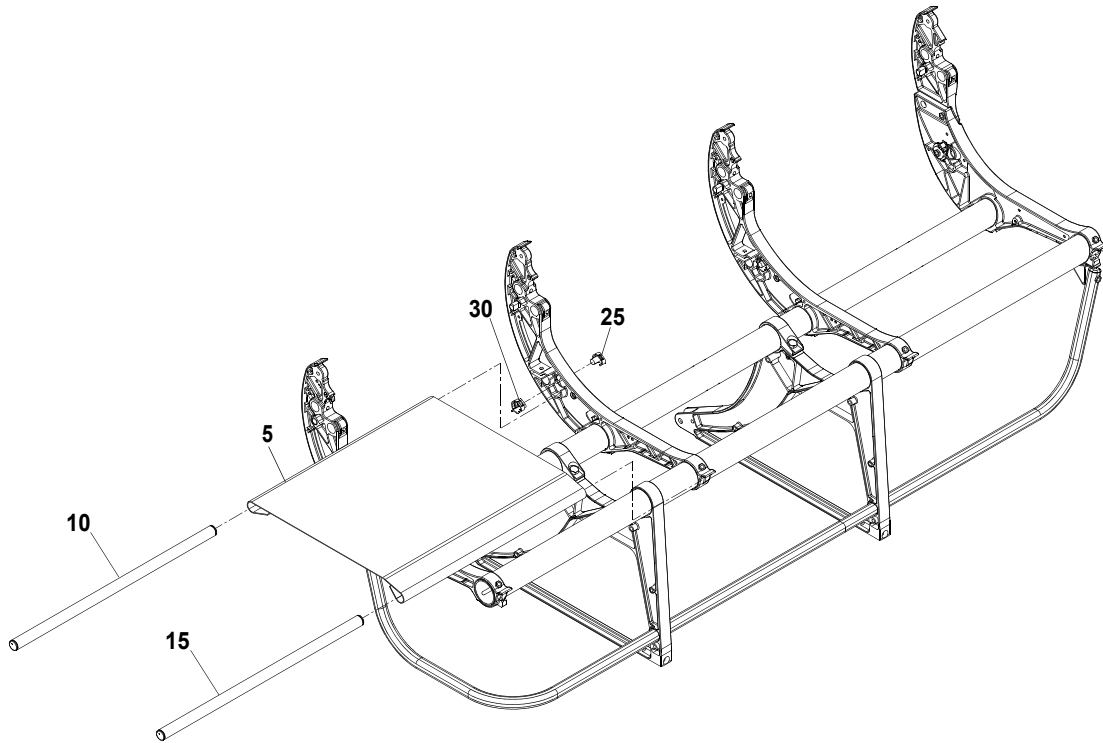
NOTE: Torque the bolts (25) to 10-12 FT-LB.

NOTE: Refer to Table 2, Frame Assembly Dimensions in DESCRIPTION AND OPERATION for the correct location.

- (5) Install the set screws (5).

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- G. Installation of the Bottom Diaphragm  
(Refer to the illustration in this procedure and IPL FIG 14)

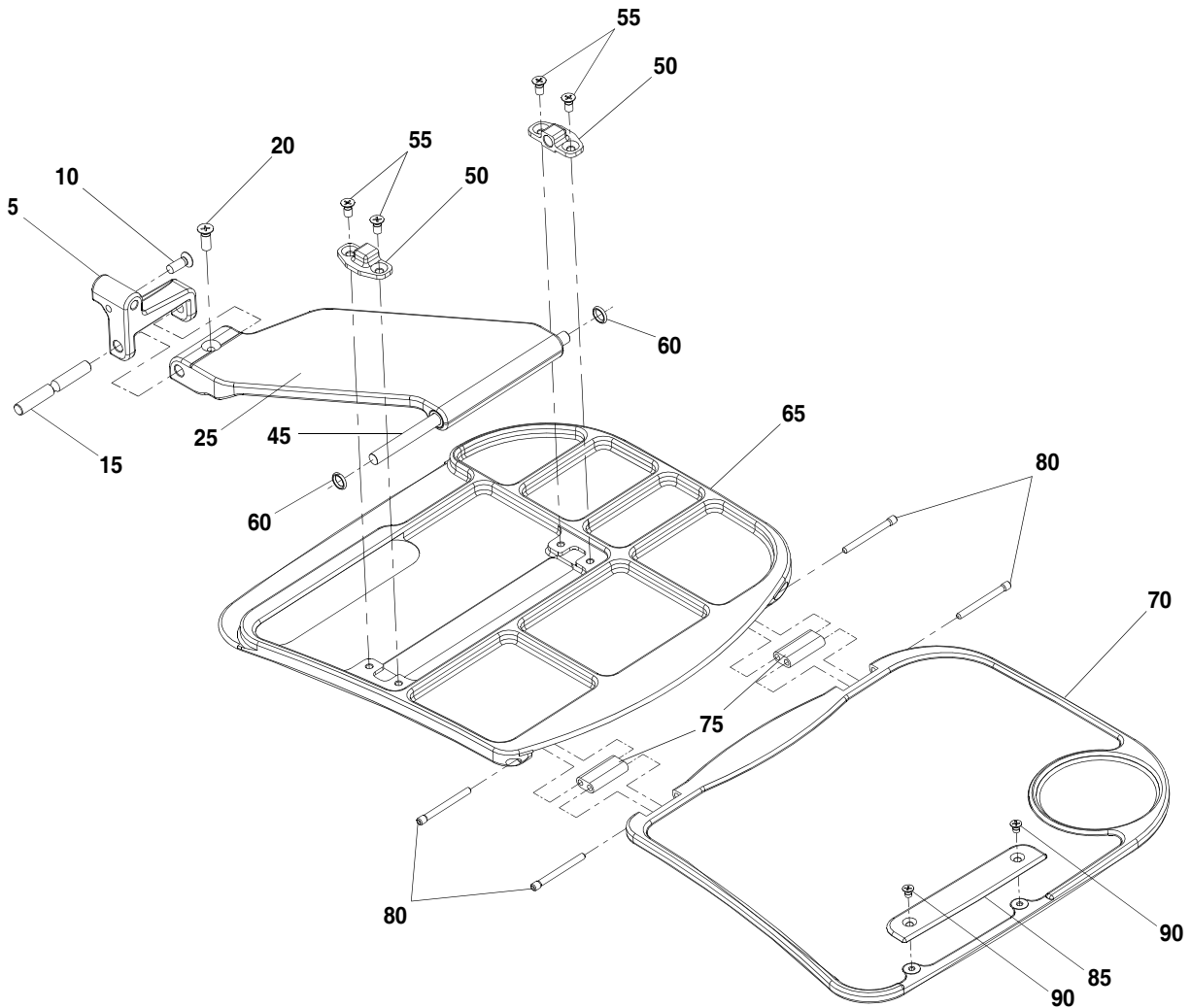


**CAUTION:** WHEN INSTALLING THE BOTTOM SUPPORT TUBES TO THE SECTIONS, USE A PADDED TOOL (E.G., A SCREWDRIVER COVERED WITH PILE TAPE) TO PREVENT DAMAGE TO THE SUPPORT TUBES.

- (1) Install the diaphragm tube (10) and bottom support tube (15) into the bottom diaphragm (5).
- (2) Place the diaphragm tubes (10, 15) into the diaphragm tube retainers (25, 30).

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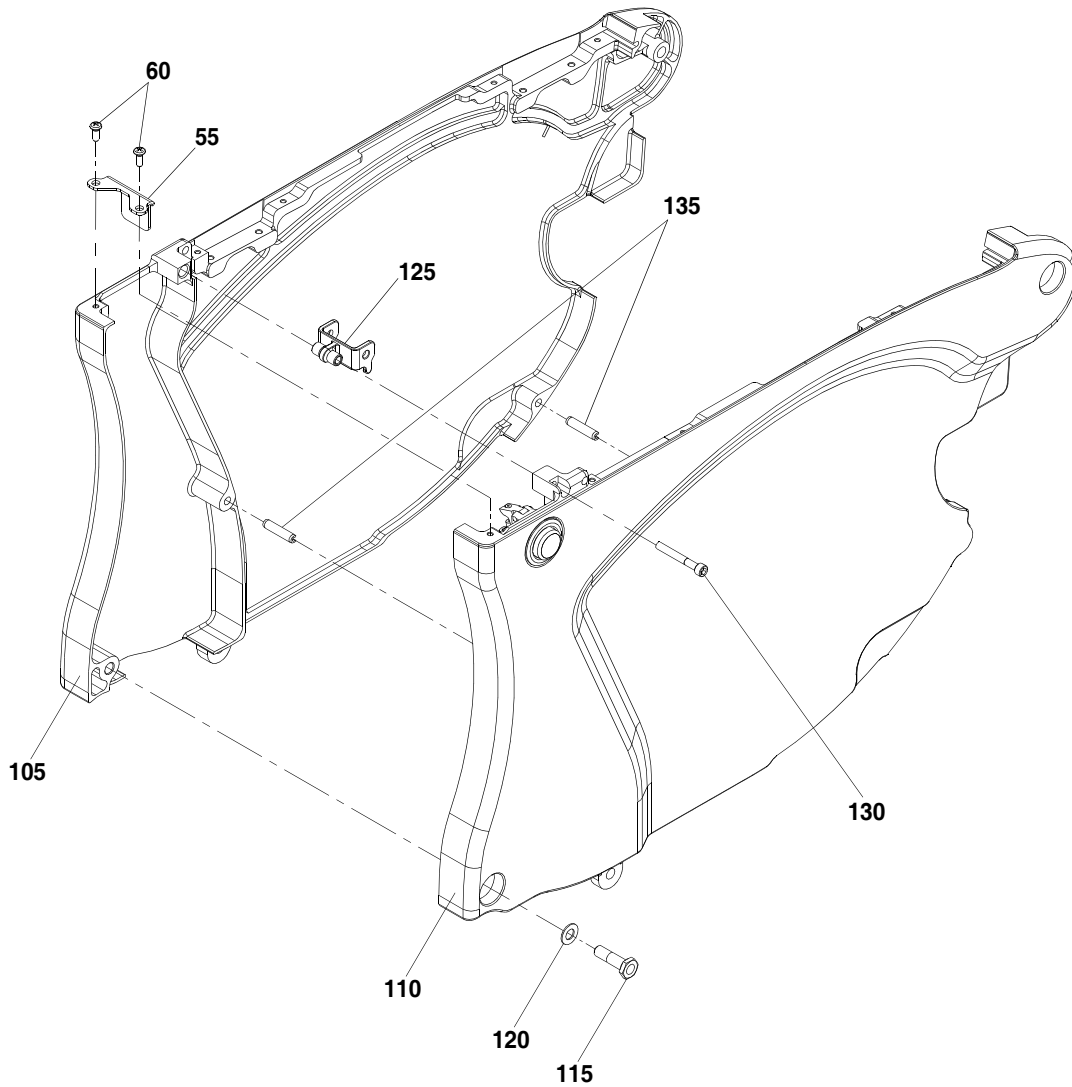
H. Assembly of the In-Arm Foodtray Assembly  
(Refer to the illustration in this procedure and IPL FIG 13)



- (1) If removed, attach the IAT side pad (85) with the screws (90).
- (2) Attach the IAT inner foodtray leaf assembly (65) to the IAT outer foodtray leaf assembly (70) by installing the foodtray leaf hinges (75) and foodtray leaf hinge pins (80).  
**NOTE:** Apply Loctite™-222 to the foodtray leaf hinge pins (80).  
**NOTE:** Apply AD-RTVR-T silicone to head of the hinge pins (80) after assembly.
- (3) Insert the O-ring (60) and the IAT paddle arm assembly (25) to the slide rod (45).
- (4) Attach the IAT slide rod (45) and IAT slide rod mounts (50) by installing the screws (55).
- (5) Attach the IAT main hinge pivot (5) by installing the screw (10) and foodtray link pin (15). Attach the screw (20).

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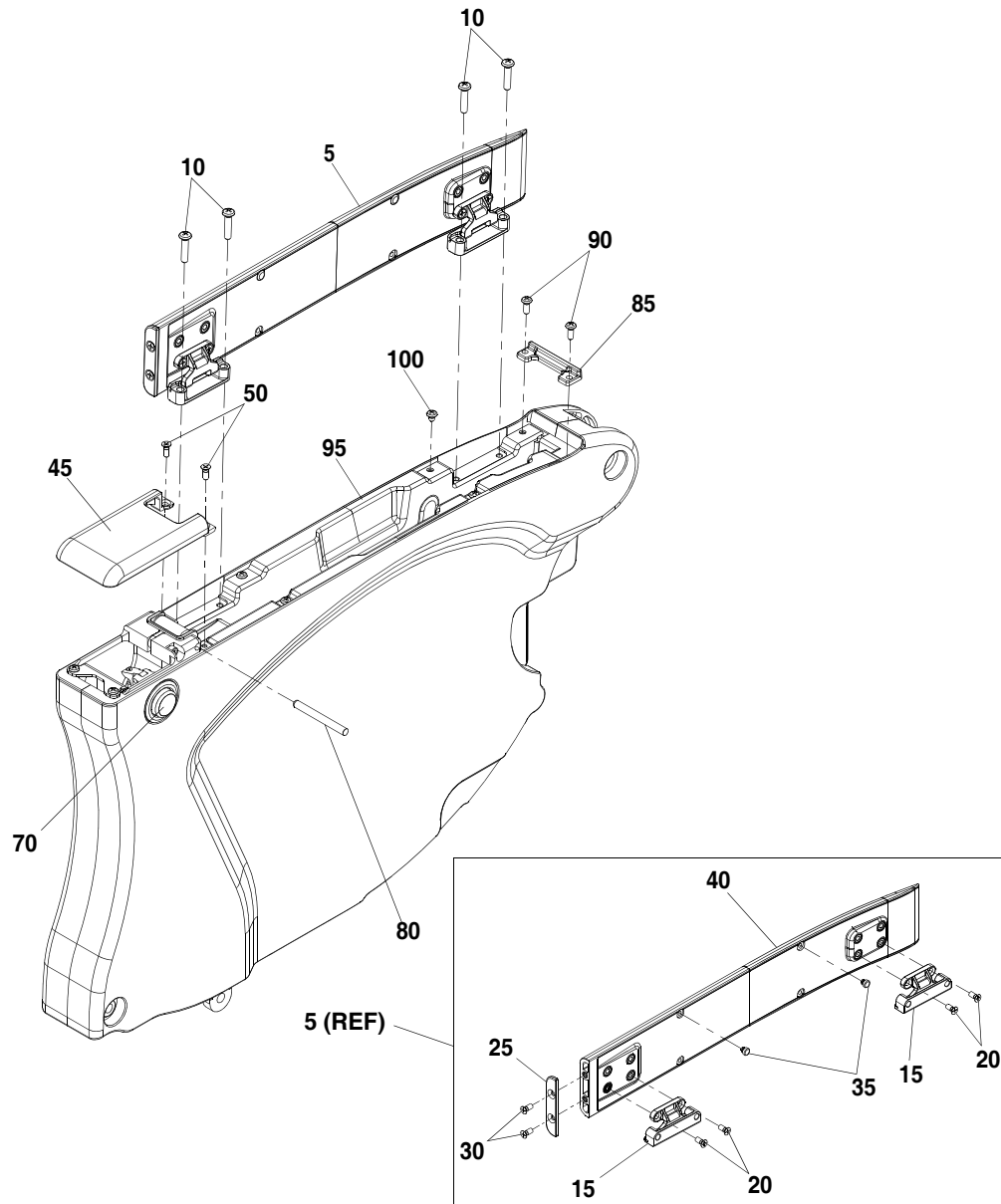
**J. Assembly of the IAT Module Assembly**  
(Refer to the illustrations in this procedure and IPL FIG 12)



- (1) To install the IAT modules (105, 110), install the bolt (115), washer (120), screw (130), adapter (125), and spring pins (135).
- (2) To install the RJU mount bracket (55) by installing the screws (60).

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- J. Assembly of the IAT Module Assembly (Continued)  
(Refer to the illustrations in this procedure and IPL FIG 12)



- (3) Attach the IAT liner assembly (95) by installing the screws (100).

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J. Assembly of the IAT Module Assembly (Continued)

(Refer to the illustrations in this procedure and IPL FIG 12)

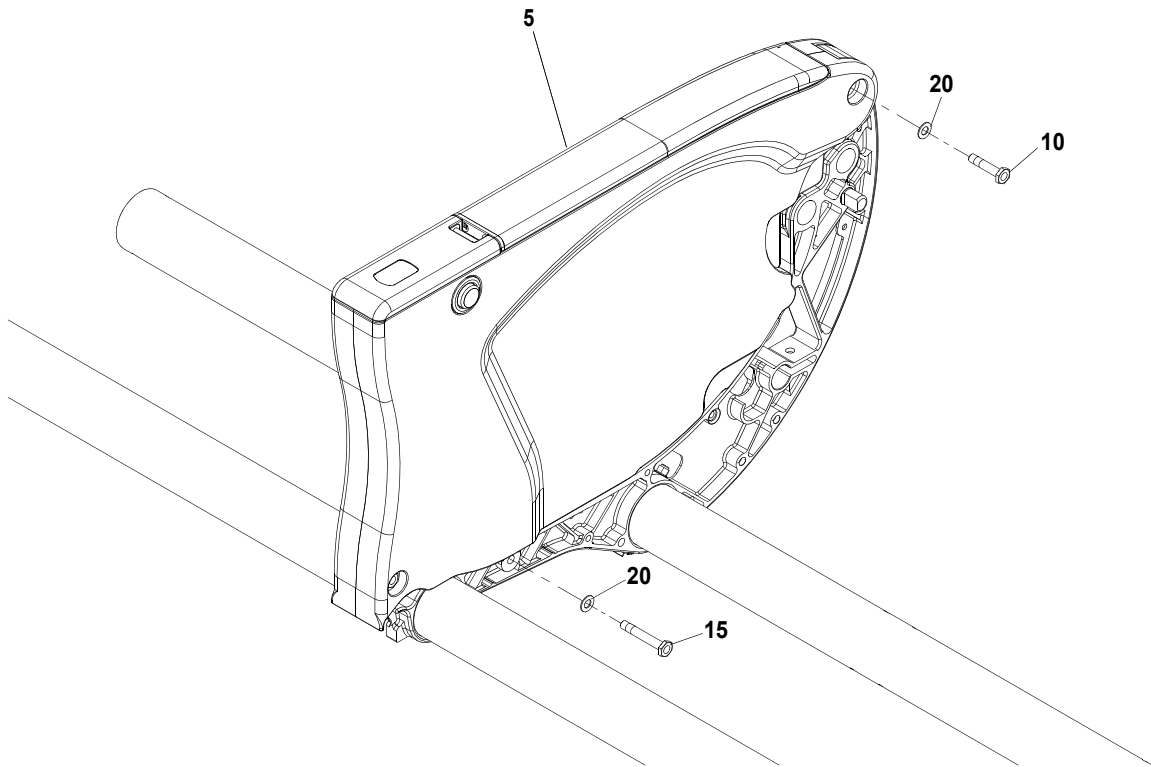
- (4) Attach the striker plate (85) with the screws (90).
- (5) Attach the in-arm foodtray assembly (-75) by installing the pin (80).
- (6) Attach the recline cable (-65) and recline button (70) to the center IAT module (105). To do this:
  - (a) Remove the outside bezel from the recline button (70) by pressing on the spring clip and pulling off the bezel.
  - (b) Insert the recline button (70) through the hole from the inside of the IAT module (105).
  - (c) When in place, press the spring clip on the recline button (70) and hold it while pressing the outside bezel onto the recline button (70) from the outside of the IAT module (105).
  - (d) When properly positioned, release the spring clip and it will hold the bezel in place, attaching the button assembly to the IAT module (105).
- (7) Attach the IAT escutcheon (45) by installing the screws (50).
- (8) If removed, attach the bumper grommets (35) to the welded IAT armcap assembly (40).

**NOTE:** Apply Loctite™ -454 to bumper grommets (35). Excess Loctite™-454 is not allowed
- (9) Attach the IAT armcap endcap (25) to the welded armcap assembly (40) by installing the screws (30).
- (10) Attach the IAT armcap hinge assemblies (15) to the welded armcap assembly (40) by installing the screws (20).
- (11) Attach the IAT armcap assembly (5) by installing the screws (10).



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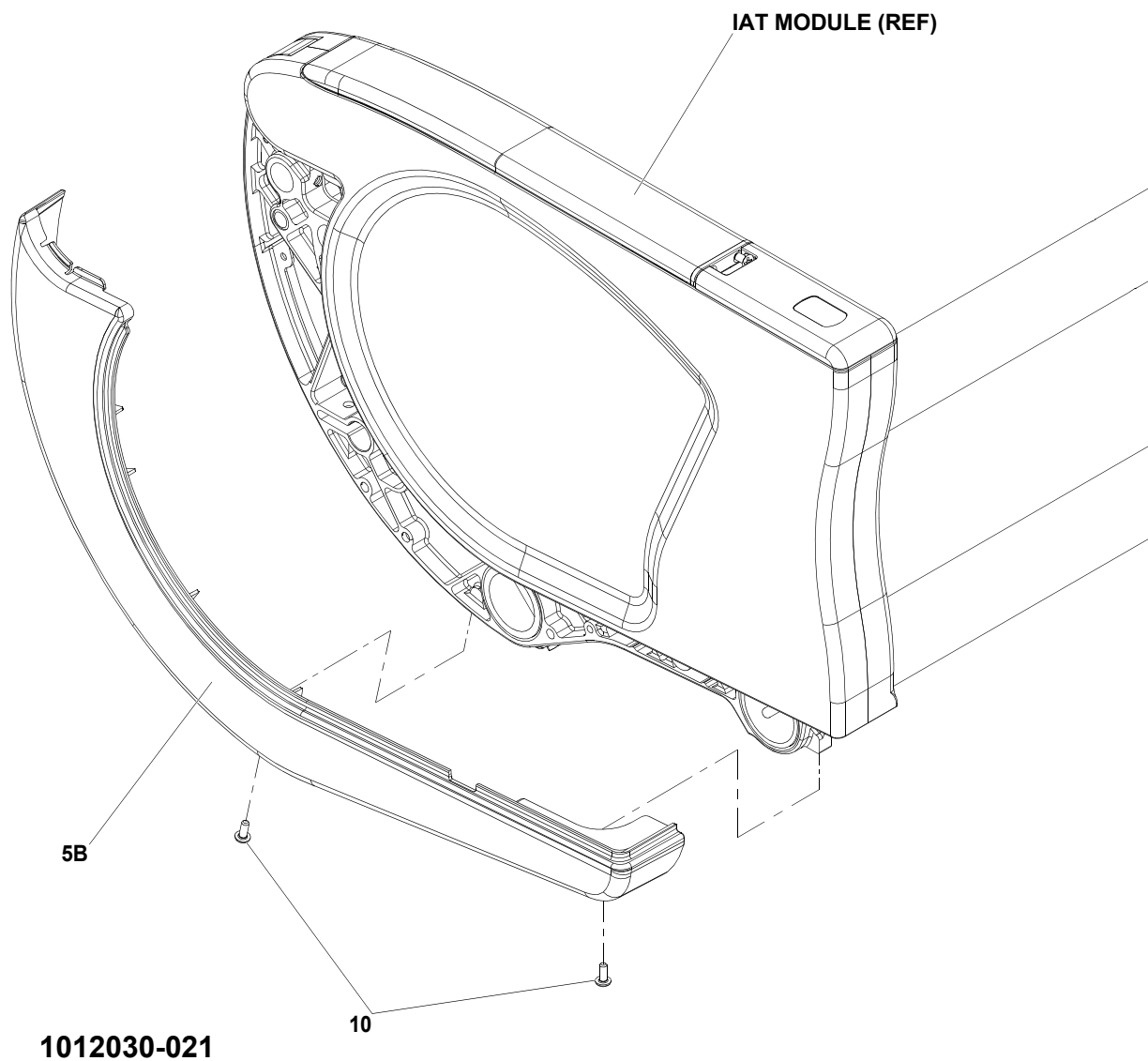
- K. Installation of the IAT Module  
(Refer to the illustration in this procedure and IPL FIG 11)



- (1) Attach the IAT module assembly (5) to the spreader assembly by installing the bolts (10, 15) and washers (20).

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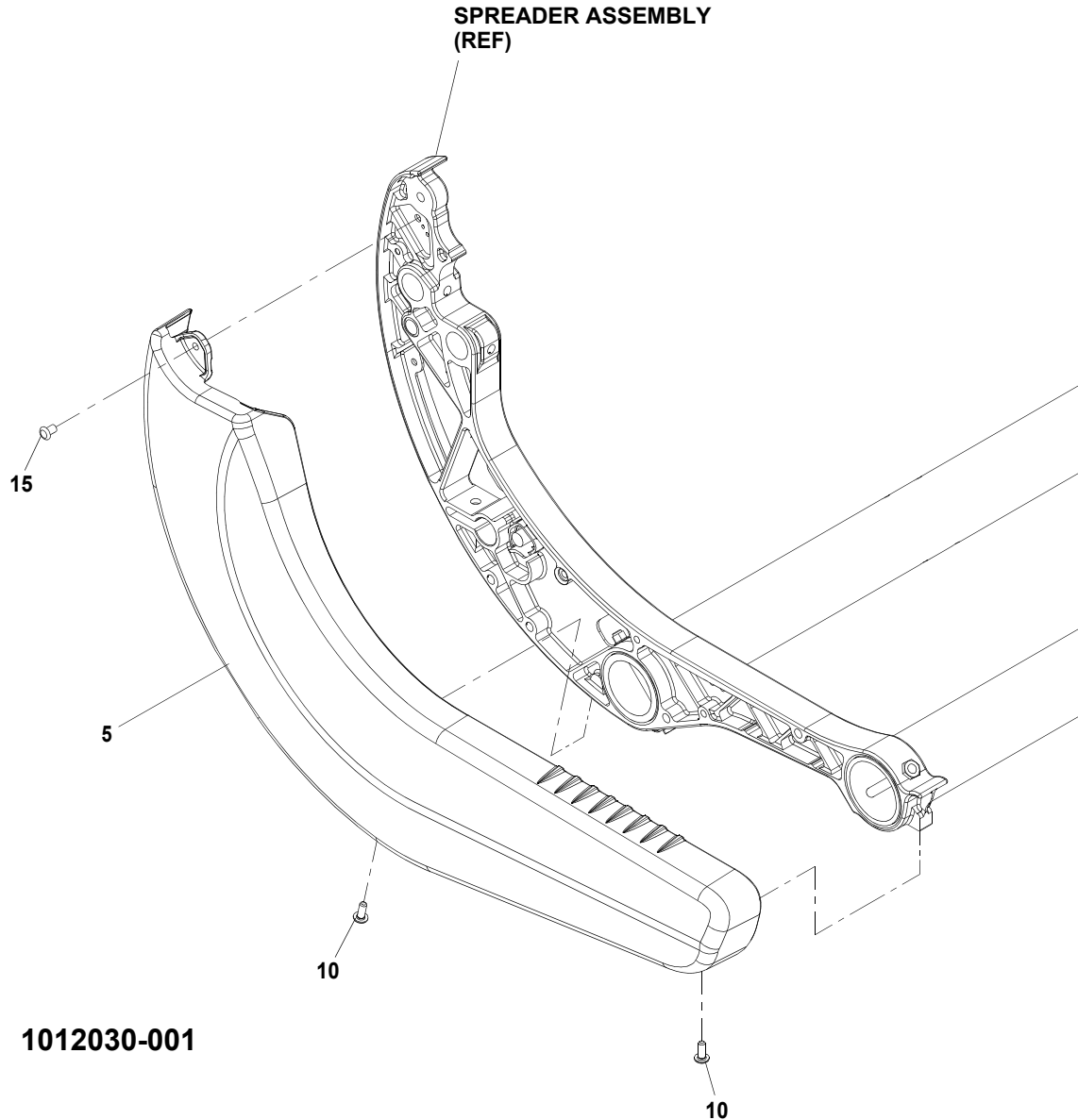
- L. Installation of the Endbay  
(Refer to the illustrations in this procedure and IPL FIG 10)



- (1) Attach the endbay bumper (5B) to the IAT module (REF) by installing the screws (10).

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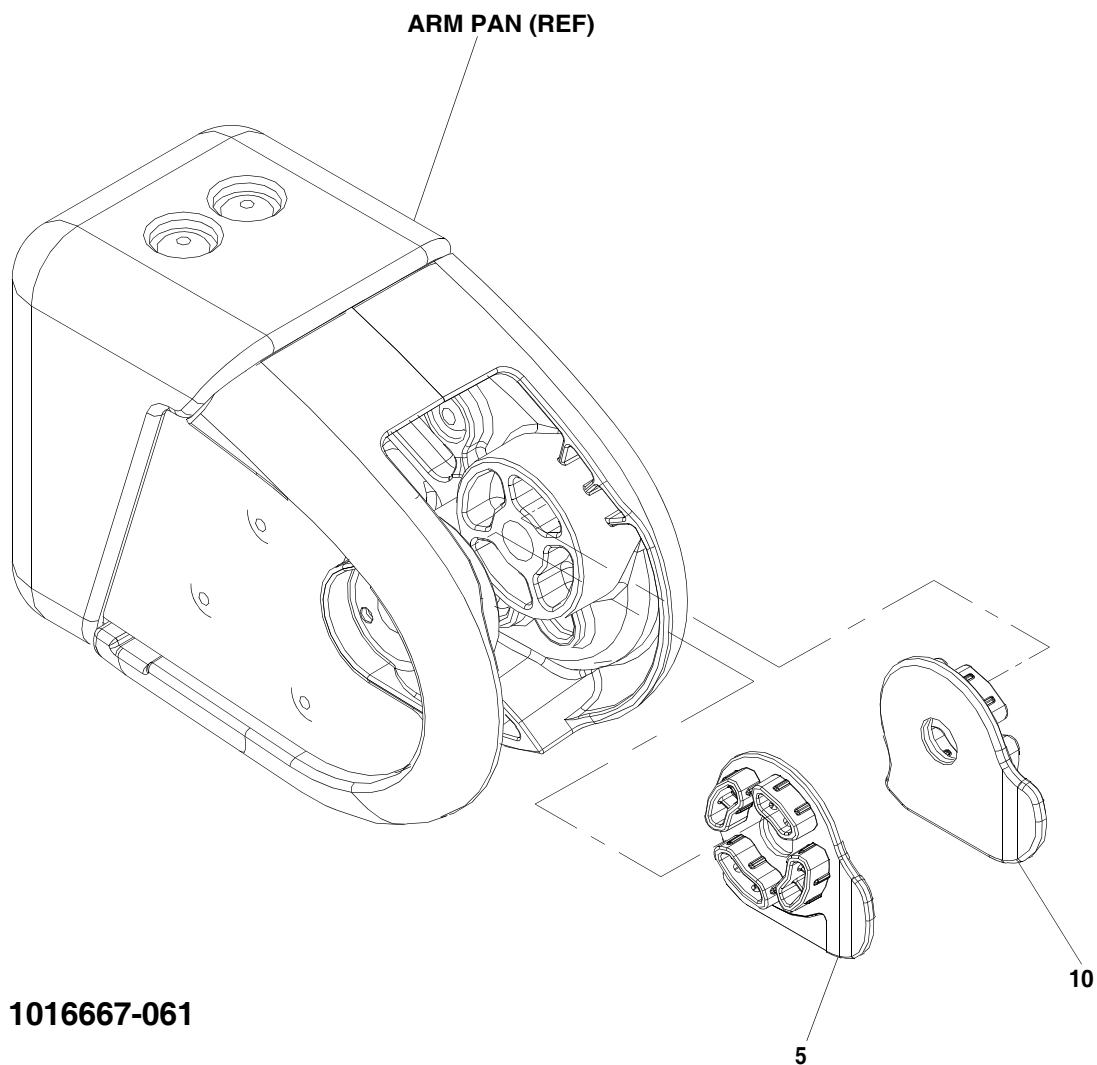
- L. Installation of the Endbay (Continued)  
(Refer to the illustrations in this procedure and IPL FIG 10)



- (2) Attach the endbay bumper (5) to the spreader assembly (REF) by installing the screws (10) and rivet (15).

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- M. Installation of the Emergency Exit Pan Arm Assembly  
(Refer to the illustration in this procedure and IPL FIG 9)

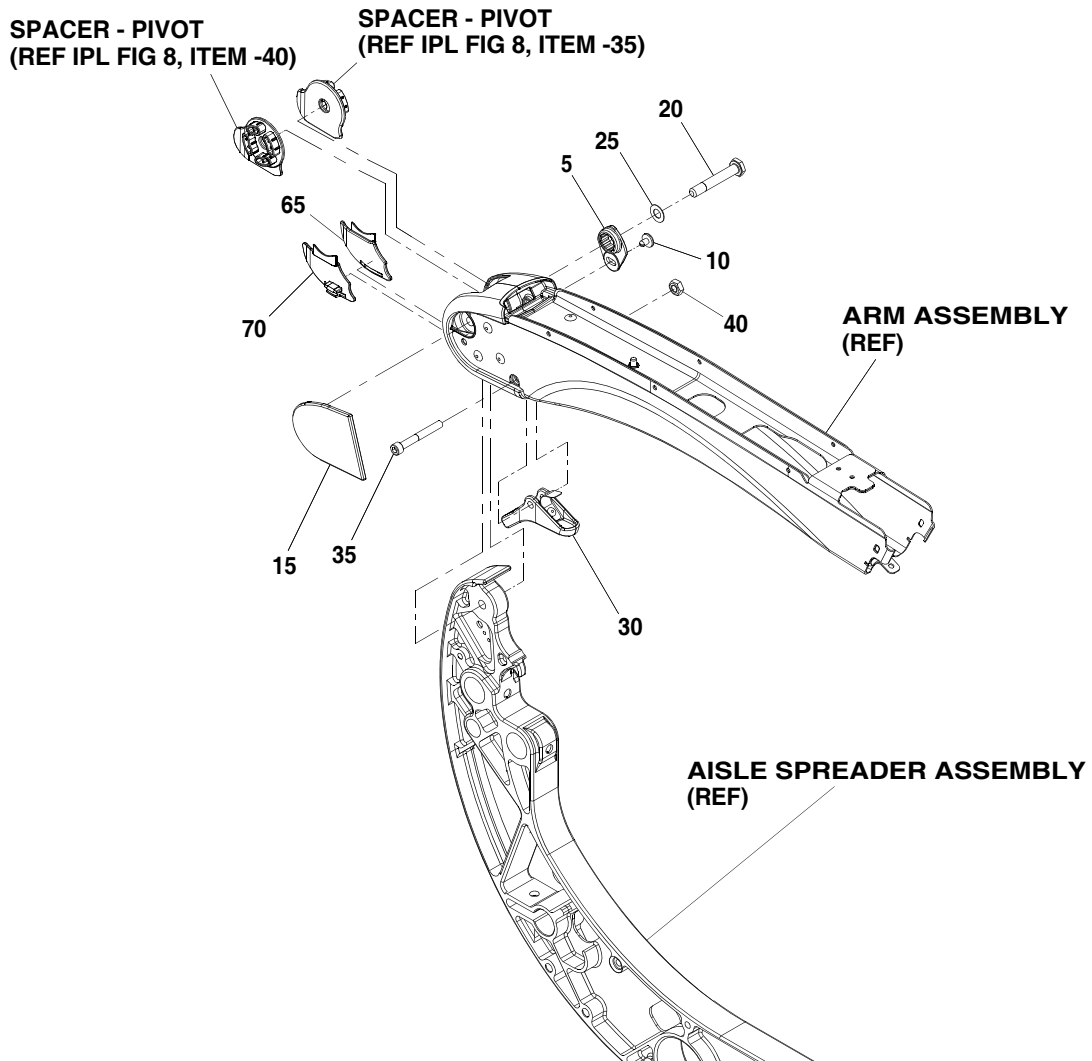


- (1) Attach the pivot spacers (5, 10) to the pan arm assembly (REF).

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N. Installation of Arm

(Refer to the illustrations in this procedure and in IPL FIG 7)



- (1) At the inboard location, attach the lower pivot spacers (65, 70) to the arm assembly (REF).
- (2) To install HCEB latch assembly (30) to the aisle arm assembly (REF), install the screw (35) and nut (40).

**NOTE:** The HECB latch assembly (30), screw (35), and nut (40) must be installed to the arm assembly (REF) prior to installation to the spreader assembly (REF).

- (3) Attach the arm pivot cap (15) to the inboard arm assembly (REF) by installing the bolt (20) and washer (25).

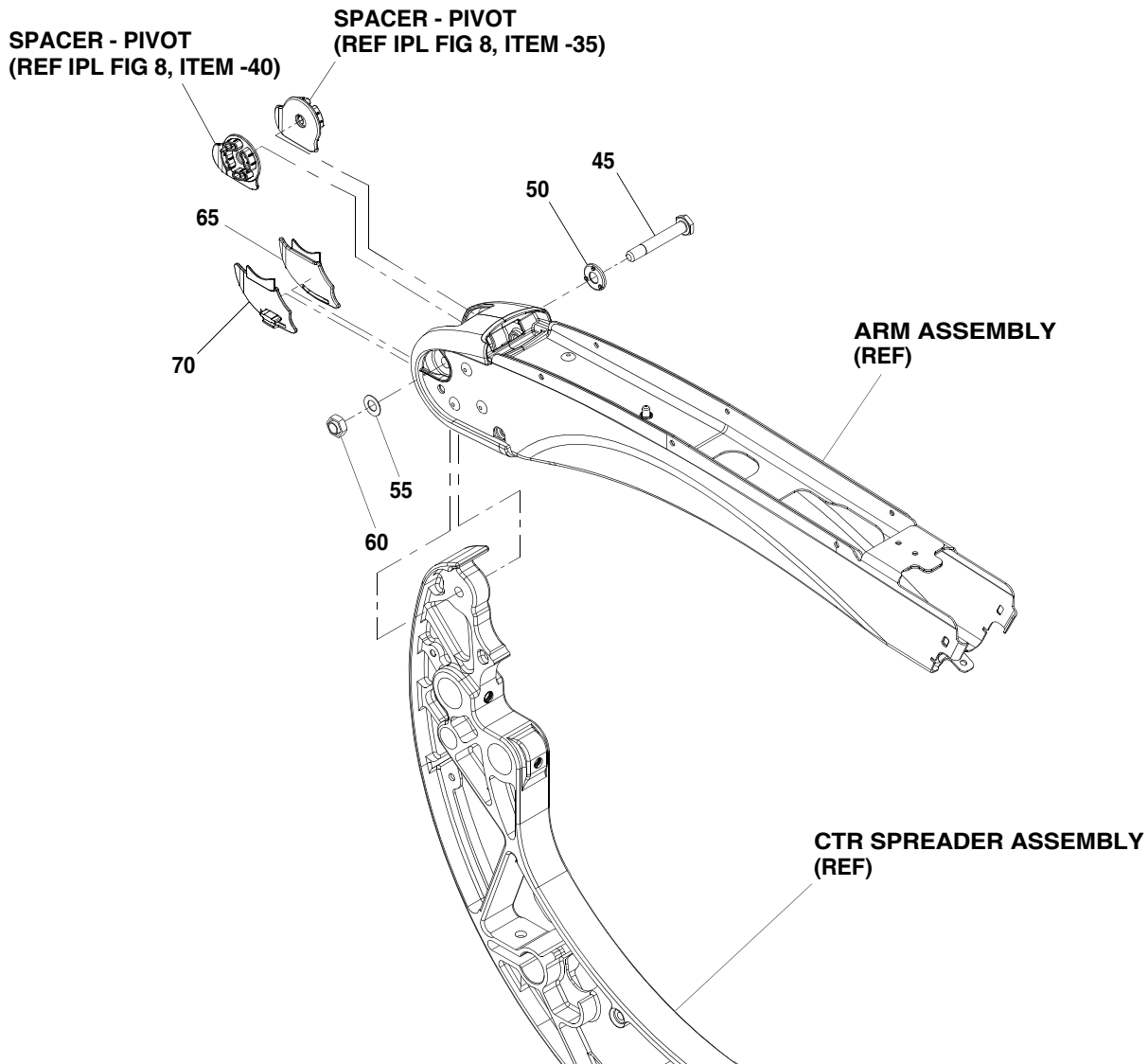
**NOTE:** Adjust torque to the bolt (20) to allow sufficient tension on pivot to sustain the armrest in all positions.

- (4) Attach the anti rotation bracket (5) by attaching the rivet (10).

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N. Installation of Arm (Continued)

(Refer to the illustrations in this procedure and in IPL FIG 7)

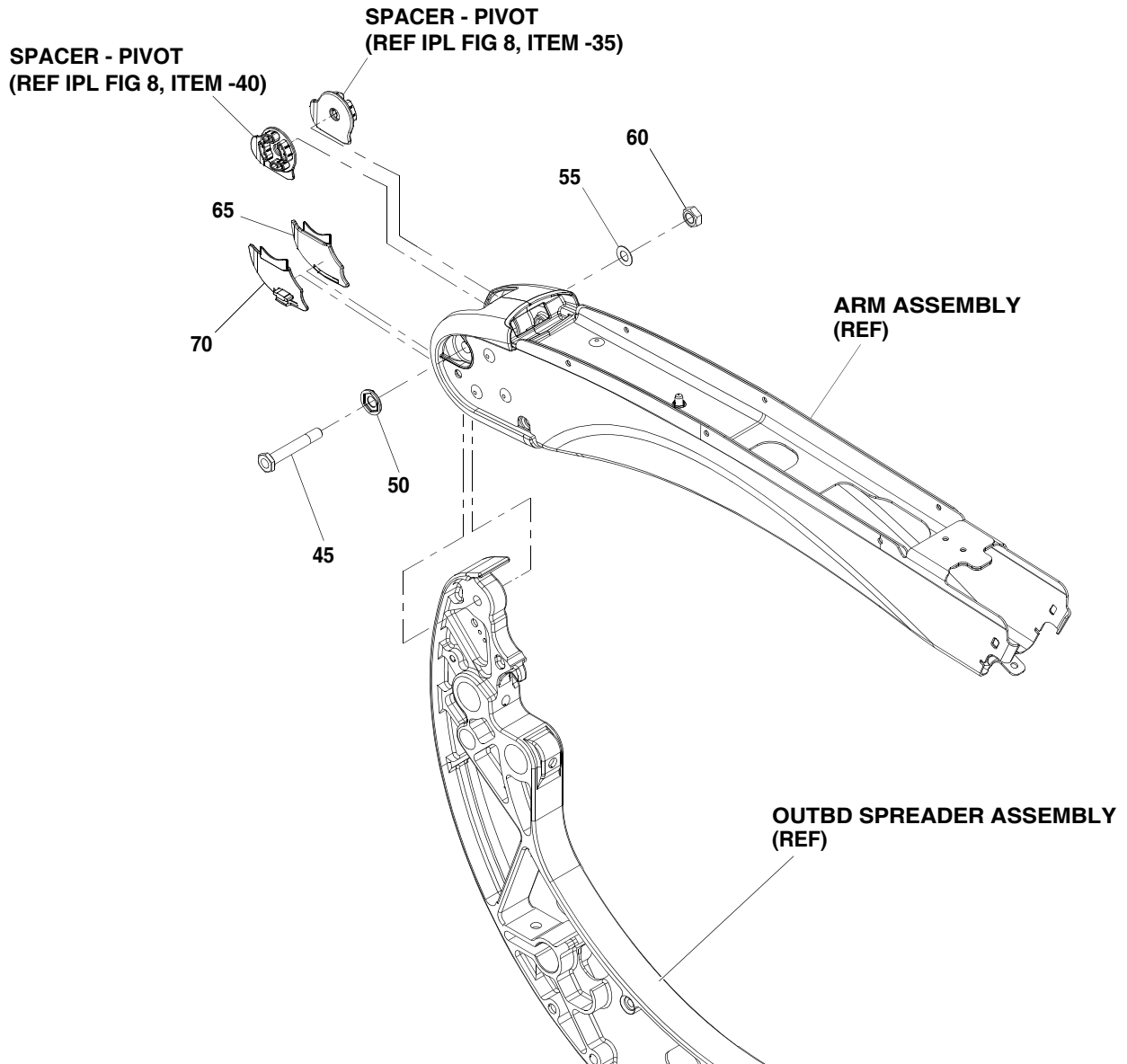


- (5) Attach the lower pivot spacers (65, 70) on the arm assembly (REF).
- (6) To install the center arm assembly (REF) to the center spreader assembly (REF), install the bolt (45), anti rotation washer (50), washer (55), and nut (60).

**NOTE:** Keep the position of the bolt (45) to the inboard side of the seat for center installation.

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- N. Installation of Arm (Continued)  
(Refer to the illustrations in this procedure and in IPL FIG 7)



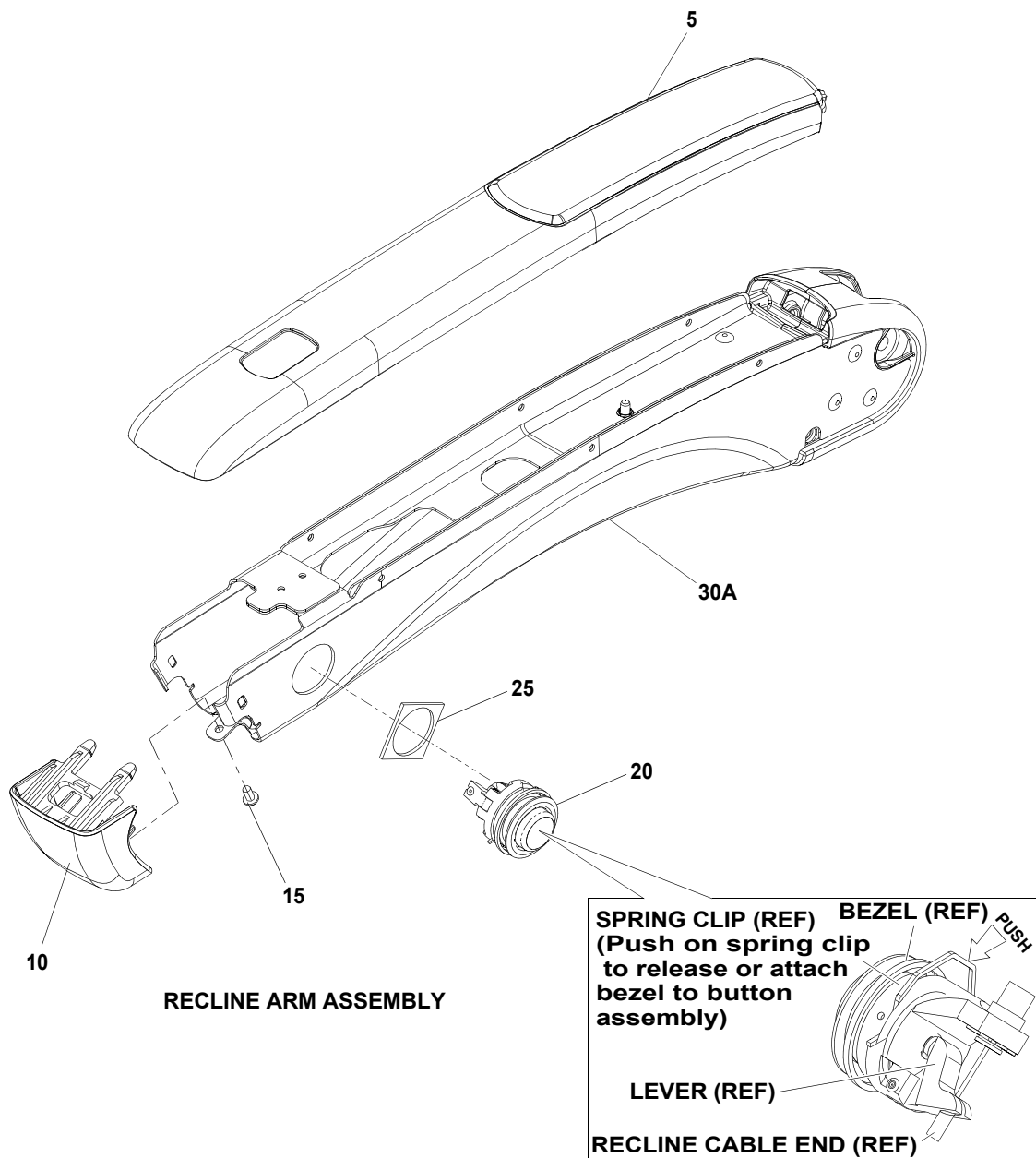
- (7) Attach the lower pivot spacers (65, 70) on the arm assembly (REF).
- (8) To install the outboard arm assembly (REF) to the outboard spreader assembly (REF), install the bolt (45), anti rotation washer (50), washer (55), and nut (60).

**NOTE:** Install at approximate downward angle of 15 degrees to engage lockout feature on spreader.

**NOTE:** Keep the bolt (45) position to outboard side of seat.

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- P. Assembly of the Arm Assembly  
(Refer to the illustrations in this procedure and IPL FIG 8)



- (1) On the recline arm assembly, attach the recline cable (20) and recline control spacer (25) into the riveted arm pan assembly (30A).
  - (a) When the recline bezel (REF) is properly positioned, release the spring clip (REF) and it will hold the bezel (REF) in place, attaching the recline button to the IAT module.
  - (b) Install the end of the recline cable (20) in the slot in the lever (REF).

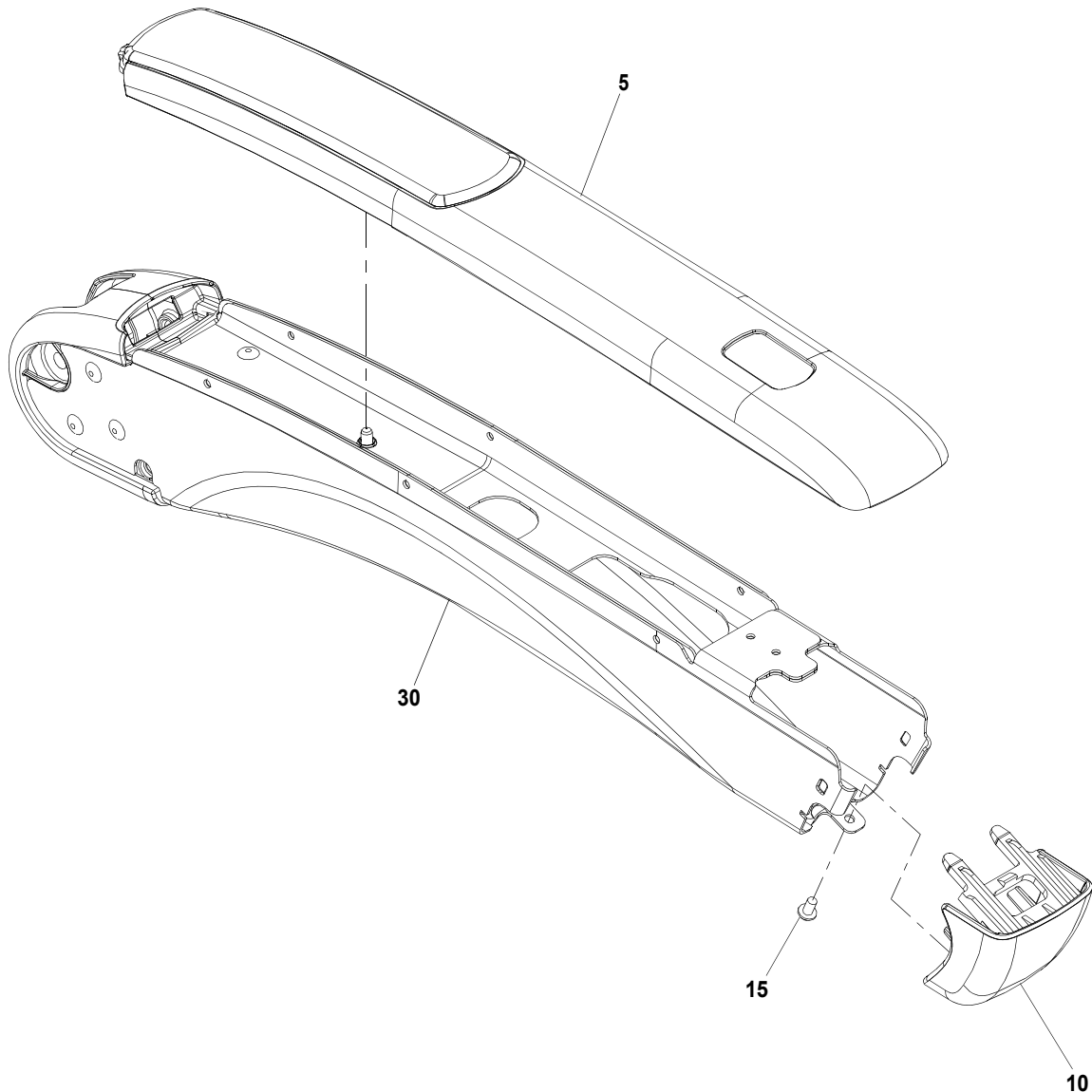


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**P. Assembly of the Arm Assembly (Continued)**

(Refer to the illustrations in this procedure and IPL FIG 8)

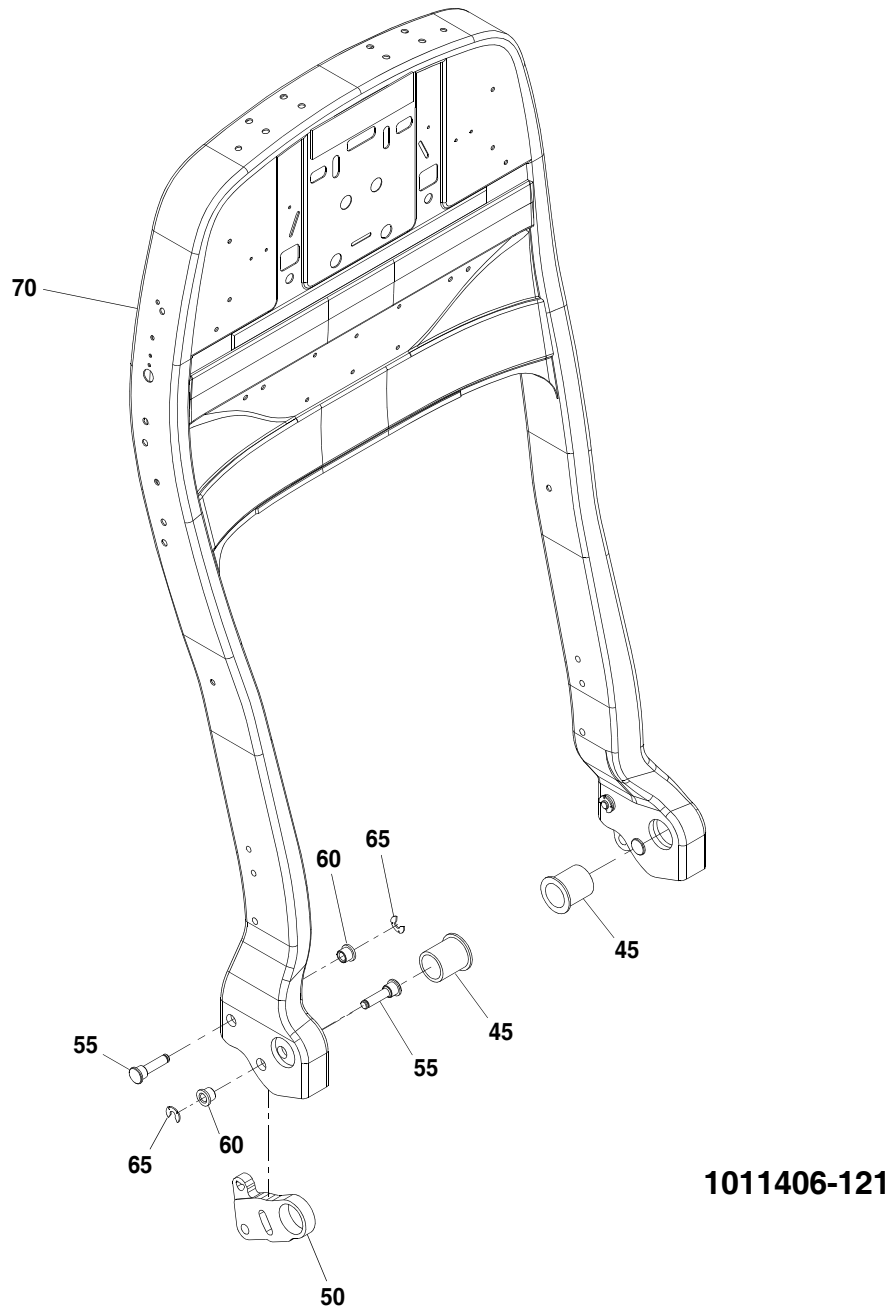
- (2) Install the blank escutcheon (10) to recline arm pan assembly (30A) with the screw (15).
- (3) Install the armcap assembly (5) to the recline arm pan assembly (30A).



- (4) On the blank arm assembly (5), attach the blank escutcheon (10) to the riveted arm pan assembly (30) by installing the screw (15).
- (5) Attach the armcap (5) to the riveted arm pan assembly (30) by tightening the captured fastener with a phillips screwdriver through the bottom access hole in the armpan. Slide the armcap (5) by placing up and sliding forward onto the armpan tab.

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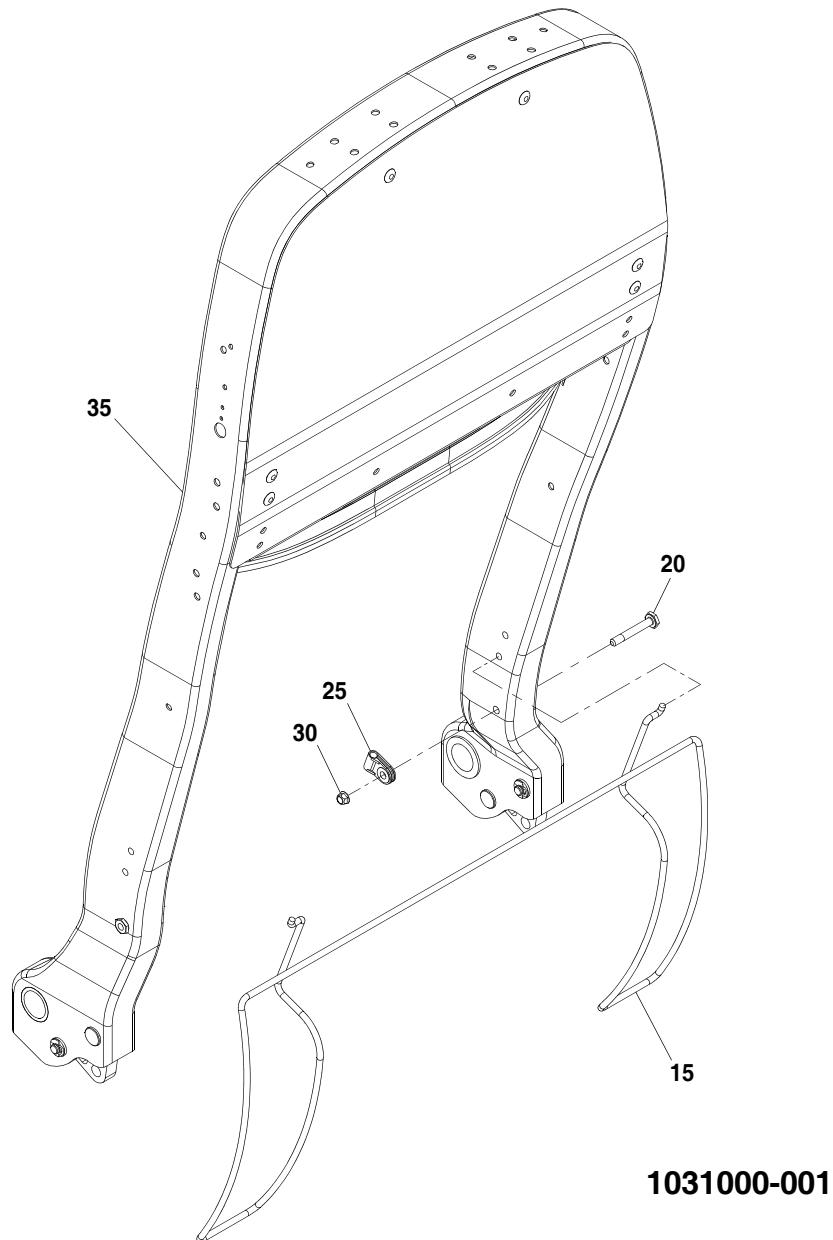
- Q. Assembly of the Back Assembly  
(Refer to the illustrations in this procedure and IPL FIG 6)



- (1) Install the back stops (50) to the back frame (70) by installing the studs (55), flanged bushings (60), and rings (65).
- (2) Install flanged bushings (45) into the back frame (70).

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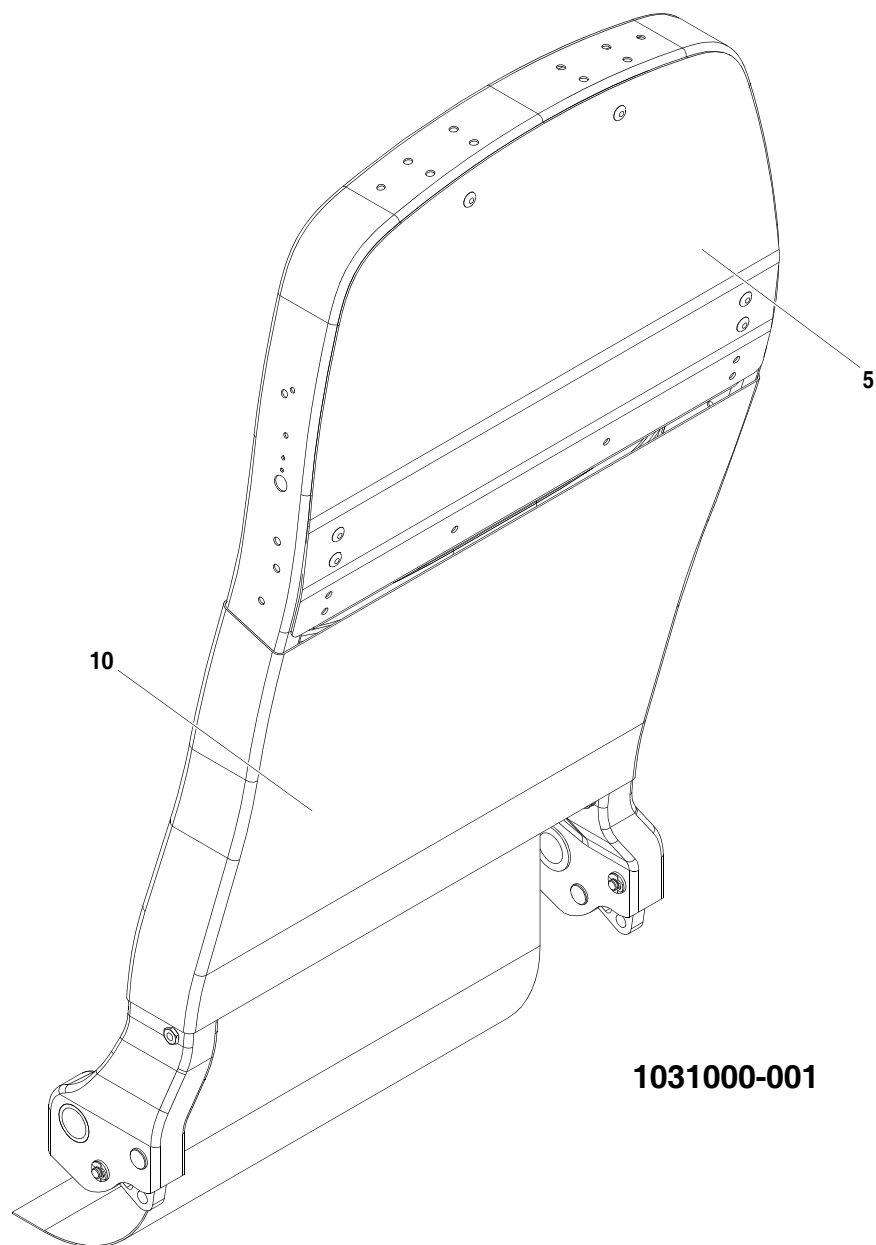
- Q. Assembly of the Back Assembly (Continued)  
(Refer to the illustrations in this procedure and IPL FIG 6)



- (3) Attach the literature pocket spring (15) to the back assembly (35) with the bolts (20), loop clamps (25), and nuts (30).

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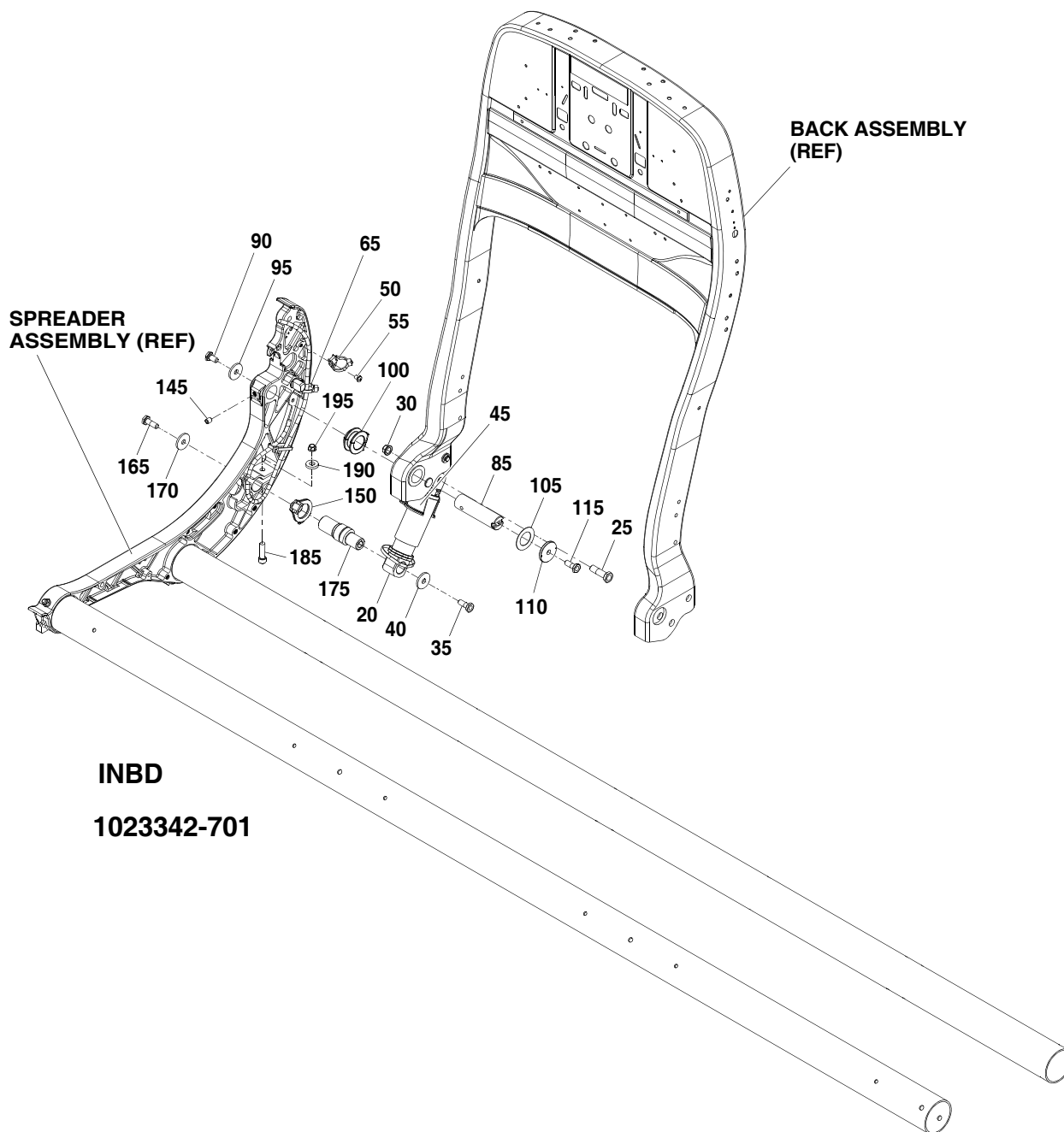
- Q. Assembly of the Back Assembly (Continued)  
(Refer to the illustrations in this procedure and IPL FIG 6)



- (4) Attach the back diaphragm (10).
- (5) Attach the rear cushion assembly (5).

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- R. Installation of Seat Back  
(Refer to the illustrations in this procedure and in IPL FIG 5)



**INBD**

**1023342-701**

- (1) At the inboard location, install the screw (185), washer (190), and nut (195).

NOTE: Torque the screw (185) to 60 ±10 IN-LB.

NOTE: Torque the nut (195) to 60 ±10 IN-LB.

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R. Installation of Seat Back (Continued)

(Refer to the illustrations in this procedure and in IPL FIG 5)

- (2) Install the shackle assemblies (150) by installing the bolt (165), washer (170), and clocking spindle (175).

NOTE: Torque the bolt (165) to 60 ±10 IN-LB.

- (3) Tighten the set screw (145).

- (4) Install the inboard and shaft (85) by installing the bolts (90, 115), washer (95), bushing (100), spacer (105), and pivot shaft cap (110).

NOTE: Torque the bolts (90, 115) to 60 ±10 IN-LB.

- (5) Install the cable ties (65) by installing the rivet (-70) and straps (-75).

- (6) Install the cable tie mounts (50) by installing the screws (55) and straps (-60).

- (7) Install the UltraLOC™ (20) by installing the cable retaining shroud (45), bolts (25, 35), nut (30), and washer (40).

NOTE: Torque the bolt (35) to 60 ±10 IN-LB.

NOTE: Torque the nut (30) to 120 ±20 IN-LB.



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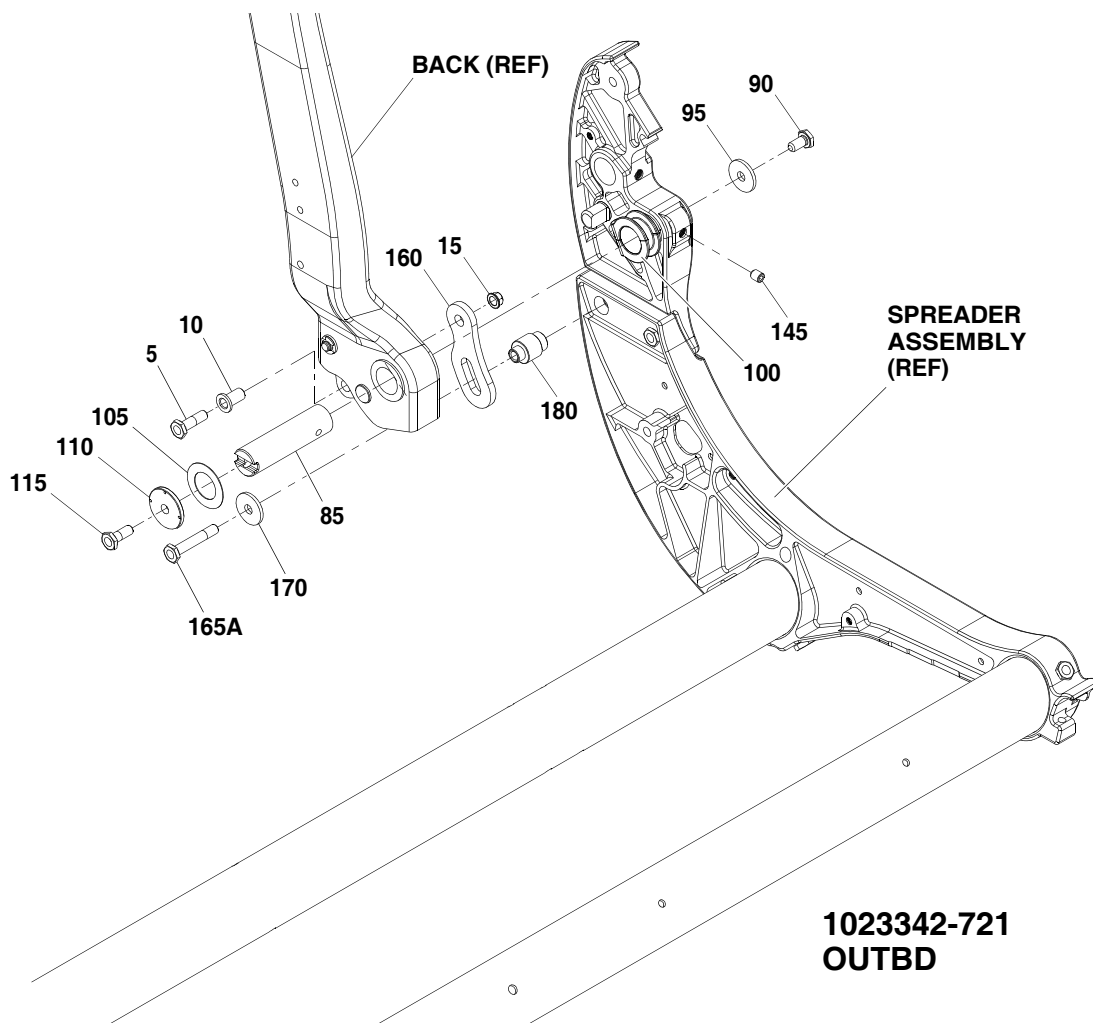
R. Installation of Seat Back (Continued)

(Refer to the illustrations in this procedure and in IPL FIG 5)

- (11) Install the bolt (5A), bushing (10), and nut (15).

**NOTE:** Torque the bolt (5A) to  $60 \pm 10$  IN-LB.

**NOTE:** Torque the nut (15) to  $60 \pm 10$  IN-LB.



- (12) Install the stop link (160) by installing bolt (165A), washer (170), and spacer (180).

**NOTE:** Torque the bolt (165A) to  $60 \pm 10$  IN-LB.

- (13) Attach the bolts (5), bushings (10), and nuts (15).

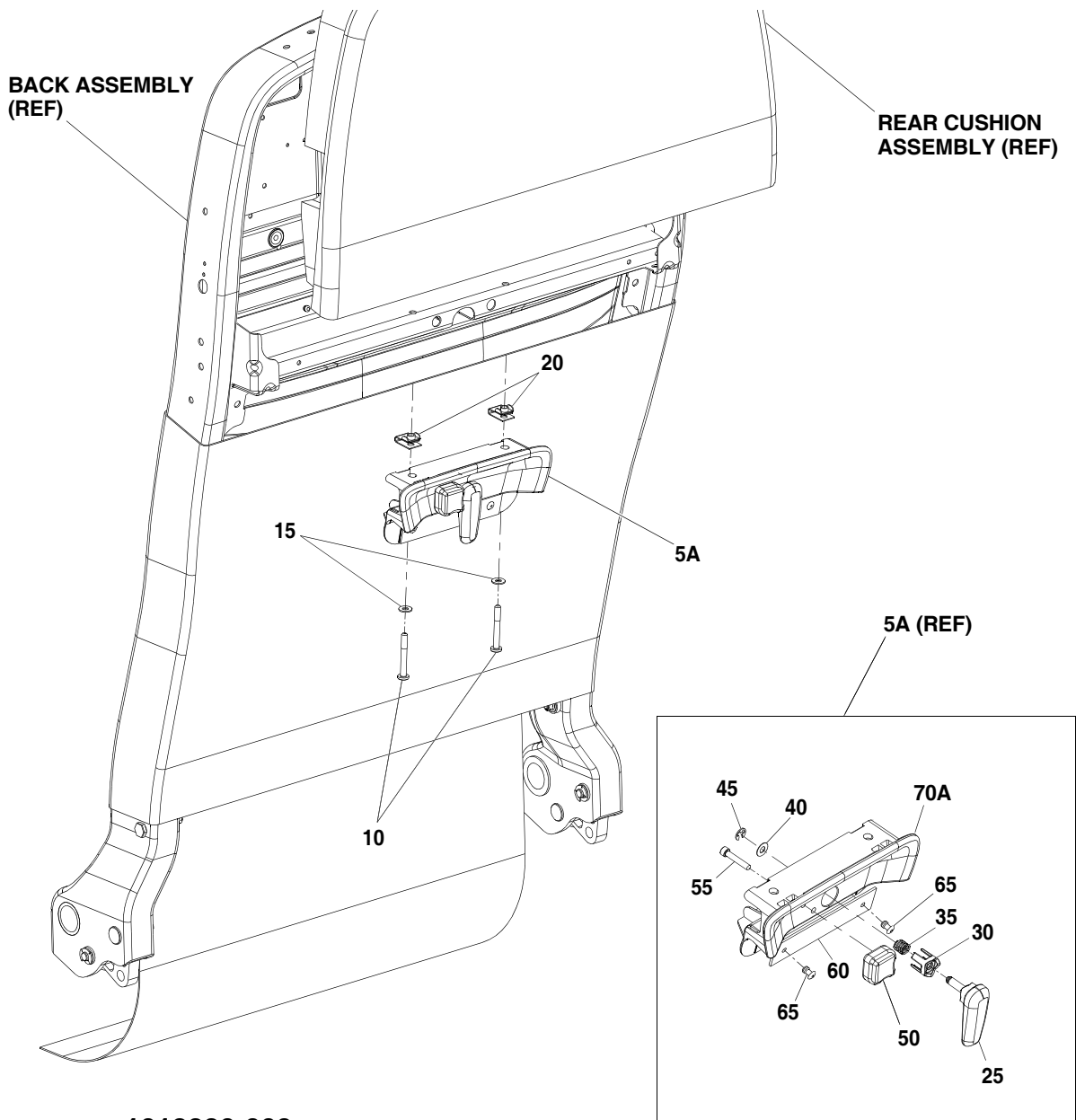
**NOTE:** Torque the bolt (165A) to  $60 \pm 10$  IN-LB.

**NOTE:** Torque the nut (15) to  $60 \pm 10$  IN-LB.



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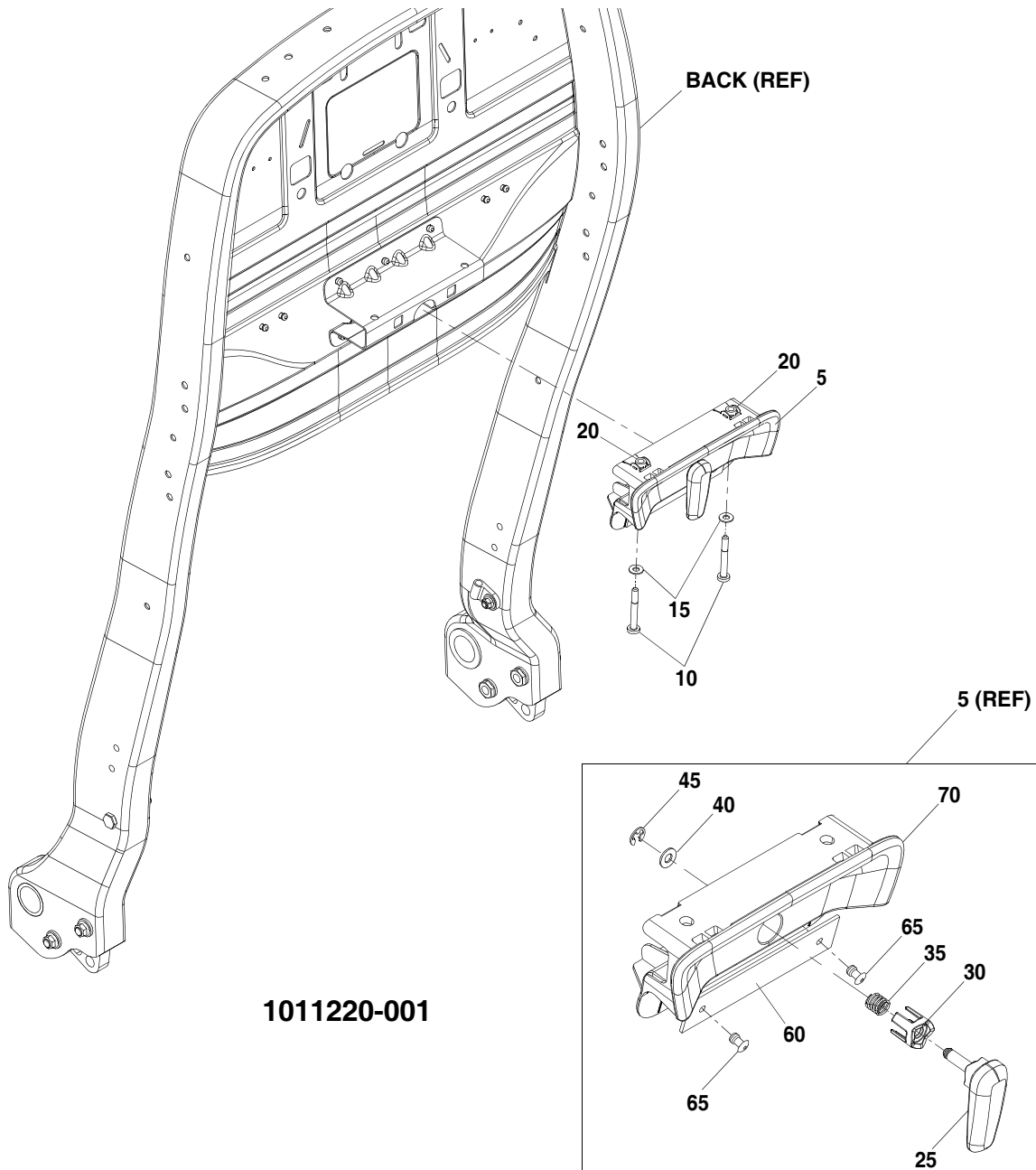
- S. Installation of the Foodtray Latch  
(Refer to the illustrations in this procedure and IPL FIG 4)



- (1) Install the hook adhesive (60) by installing the rivets (65).
- (2) Install the latch stop block (50) by installing the screw (55).
- (3) Install the foodtray latch assembly (25) to the latch escutcheon (70A) by installing the latch core (30), spring (35), washer (40), and retaining ring (45).
- (4) Install the foodtray latch assembly (5A) by installing the screws (10) and washers (15) from the clipnuts (20).

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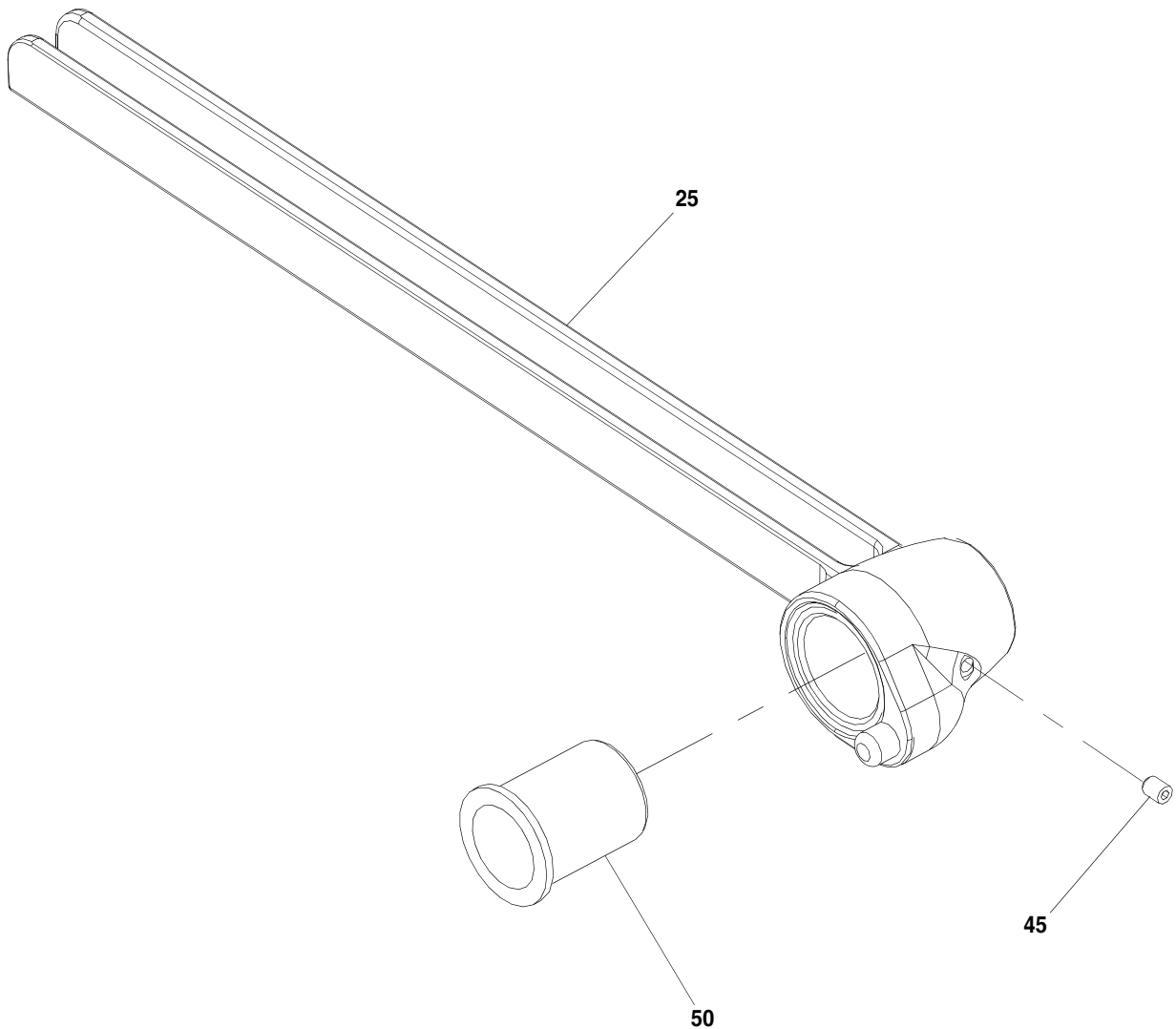
- S. Installation of the Foodtray Latch (Continued)  
(Refer to the illustrations in this procedure and IPL FIG 4)



- (5) Install the hook adhesive (60) by installing the rivets (65).
- (6) Install the foodtray latch assembly (25) to the latch escutcheon (70) by installing the latch core (30), spring (35), washer (40), and retaining ring (45).
- (7) Install the foodtray latch assembly (5) by installing the screws (10) and washers (15) from the clipnuts (20).

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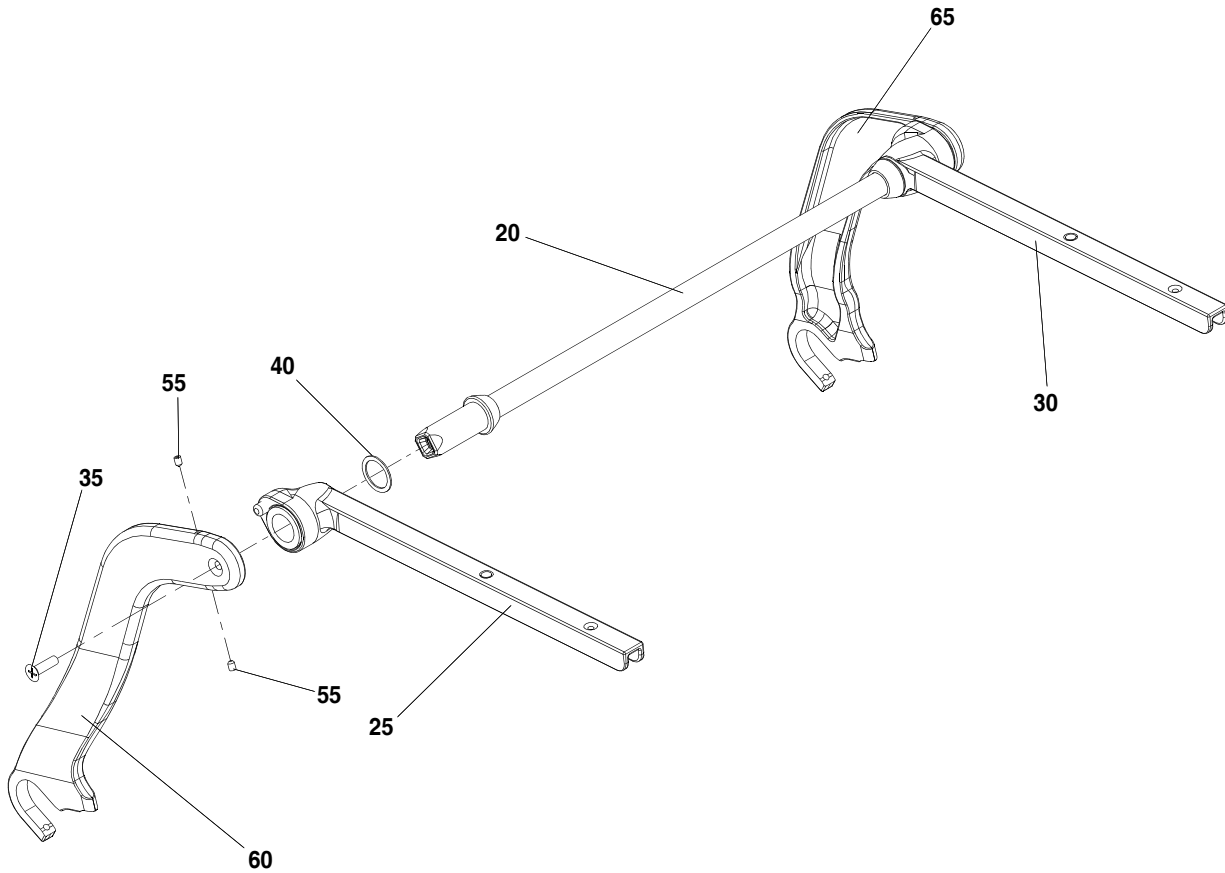
- T. Installation of the Back-Mounted Foodtray Assembly  
(Refer to the illustrations in this procedure and IPL FIG 3)



- (1) If removed, install the setscrew (45) and bushings (50) to the foodtray slide assemblies (25, 30).

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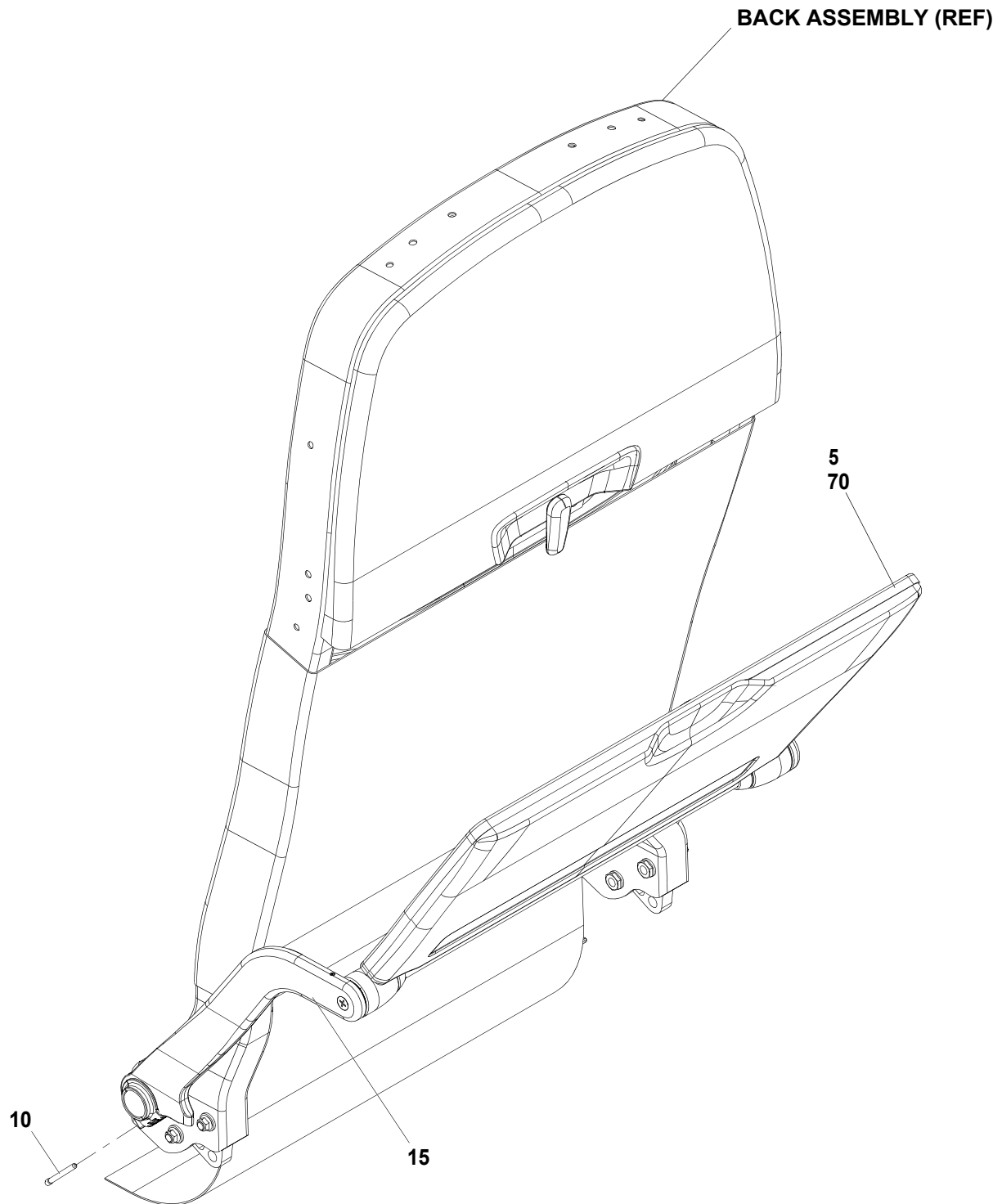
- T. Installation of the Back-Mounted Foodtray Assembly (Continued)  
(Refer to the illustrations in this procedure and IPL FIG 3)



- (2) Tighten the set screws (55).
- (3) Install the foodtray legs (60, 65) and foodtray slide assemblies (25, 30) to the torque tube assembly (20) by installing the screws (35) and spacers (40).

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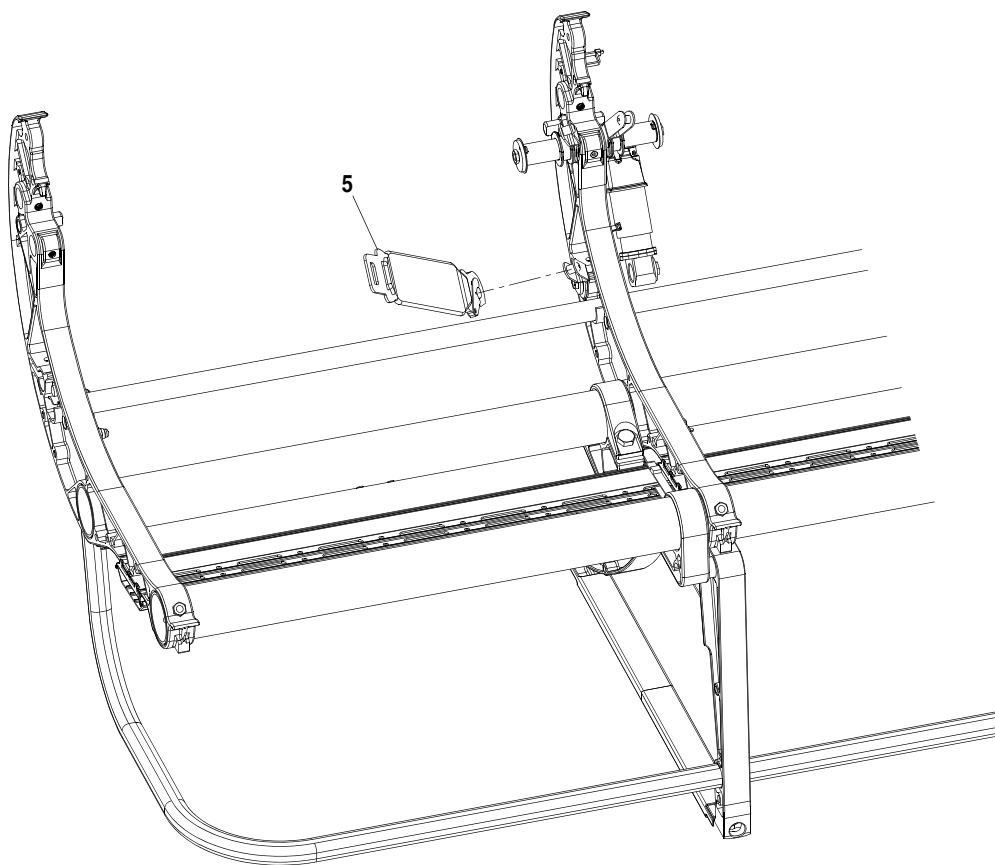
- T. Installation of the Back-Mounted Foodtray Assembly (Continued)  
(Refer to the illustrations in this procedure and IPL FIG 3)



- (4) Install the back-mounted foodtray assembly (5) to the bonded foodtray assembly (70) by installing the foodtray leaf hinge pins (10) to the foodtray arm assembly (15).

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- U. Installation of the Seat Belt Assembly  
(Refer to the illustration in this procedure and IPL FIG 2)



- (1) Install the lap belt assemblies (5) by hooking the ends of each seat belt to the shackle assemblies.

- V. Installation of the Dress Covers and Cushions  
(Refer to IPL FIG 1)

- (1) To attach the back covers (35, 40, 45), attach the hook-and-pile fasteners.
- (2) To attach the bottom cushion assemblies (20, 25, 30) with bottom covers (5, 10, 15), attach the hook-and-pile fasteners by doing the following:
  - (a) Place the front of the cushion tight to the diaphragm tube.
  - (b) Ensure that the hook-and-pile fasteners on the cushion and diaphragm tube align.
  - (c) Push the cushion securely in place from the front of the cushion to the rear.
  - (d) Confirm that the cushion is sitting firmly against the diaphragm and seated securely.

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4. Dress Cover Assemblies Installation

- A. Be careful when installing dress covers so they look good. Apply the dress cover on the foam smoothly. Work the cover with the palm of the hand so the cover is in position before it is locked down. The fold of all cord seams must be on the top or the bottom, the front or the rear, but not on the side of the foam.

NOTE: Do not push the point of the awl into the foam because it will damage the cushion.

- B. The same fold should be put onto the top or the bottom, the front or the rear of the foam as the cover is moved into place. Parts of the rear fold can move out of position. To locate a fold that is out of position, feel along the seam edges after the cover is installed. Adjust the fold with a sharp pointed awl. Move the point of the awl 0.25 to 0.37 inch (6.35 to 9.63 mm) into the material along the seam fold. Move the awl handle to catch the seam fold and move it into position.
- C. When attaching hook-and-pile tape, align the edges so the cover is smooth. The hook-and-pile tape will not be seen when it is correctly attached.

5. Storage

A. General

- (1) A seat assembly should be stored either in its original packaging (if available), in a suitable container, or should be properly wrapped. (For details, see Paragraph C below.)
- (2) If stacked storage must be used, avoid damage caused by excessive weight. (Refer to DESCRIPTION AND OPERATION Section for seat assembly weights.)
- (3) Packed / wrapped seat assembly ideally should be stored in a clean, dry, well-ventilated, temperature- and humidity-controlled environment.
- (4) Seat storage should be maintained between 5°C (41°F) minimum and 30°C (86°F) maximum.
- (5) Relative humidity should not exceed 65%.
- (6) Packed / wrapped seat assembly should not be stored in the vicinity of corrosive fluids or gases, in direct sunlight, or near heat or ozone generating surfaces.
- (7) Packed / wrapped seat assembly should be positioned so that storage identification label (See Paragraph D below) can be easily checked.

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**B. Preservation**

- (1) Before packing / wrapping for storage, seat assembly should be preserved in accordance with Specification MIL-P-116.

**C. Packing / Wrapping**

- (1) Seat assembly should be stored either in its original packaging (if available) or a suitable container, in accordance with Air Transport Association Specification No. 300 (ATA 300).
- (2) If a container is used, cushioning material and bracing must be provided to prevent accidental damage. (Refer to DESCRIPTION AND OPERATION Section for seat assembly dimensions.)
- (3) If wrapped, seat assembly should be completely covered in waterproof wrapping paper (Federal Specification UU-P-271, or equivalent), or plastic cover. Use tape (Federal Specification JAN-P-127, or equivalent) to secure wrapping plastic or plastic cover.

**D. Storage Identification Label**

- (1) A storage identification label should be affixed to seat assembly before packing/ wrapping, but an identical identification label **MUST** be affixed to outside of package/ wrapping.
- (2) Labels must contain all relevant data, including seat assembly part number, date of storage, and dates for condition checks during storage.
- (3) If label is missing, seat should not be approved for storage until properly reidentified.



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FITS AND CLEARANCES

1. General

Normal maintenance of the seat assemblies does not require fit and clearance information.

2. Torque Tables

A. Threaded Fastener Torque Ranges

When specific torque values are not shown on the applicable drawing, use the torque values in Table 8001 as a guide when tightening nuts, studs, bolts, and screws. When tightening a nut and bolt that are used together, measure the torque value on the nut. If the nut cannot be accessed or a nut is not used, measure the torque on the bolt.

(1) Standards and Specifications for Values

(a) Self-Locking Fasteners

A self-locking fastener supplies more resistance when it is turned on a thread. Because of this, add the prevailing torque value to the standard torque value to get the correct torque value for a self-locking fastener. This will help prevent unwanted vibrations that can work the fastener loose. (See Table 8001.)

NOTE: The prevailing torque value is taken from IFI 100/107, Prevailing-Torque Type Steel Hex Nuts, Grade B, Industrial Fasteners Institute, 1987. B/E Aerospace supplied the values for Self-Locking Fasteners, sizes 4-40 and 6-32.

(b) Standard Fastener Values

Most standard fastener values are from the *Standard Aircraft Handbook*. Refer to it for any fastener not listed in Table 8001.

NOTE: B/E Aerospace supplied the values for Standard Fasteners, sizes 4-40 and 6-32.

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Table 8001  
Threaded Fastener Torque Values

THREAD/IN	THREAD TYPE	STANDARD FASTENERS (IN-LB) MIN-MAX	PREVAILING TORQUE (IN-LB) MAX REFERENCE ONLY	SELF-LOCKING FASTENERS (IN-LB) MIN-MAX
4-40	Coarse	3-5	3	6-8
6-32	Coarse	7-10	8	15-18
8-32	Coarse	12-15	12	24-27
10-32	Fine	20-25	13	33-38
1/4-28	Fine	50-70	30	80-100
5/16-24	Fine	100-140	60	160-200

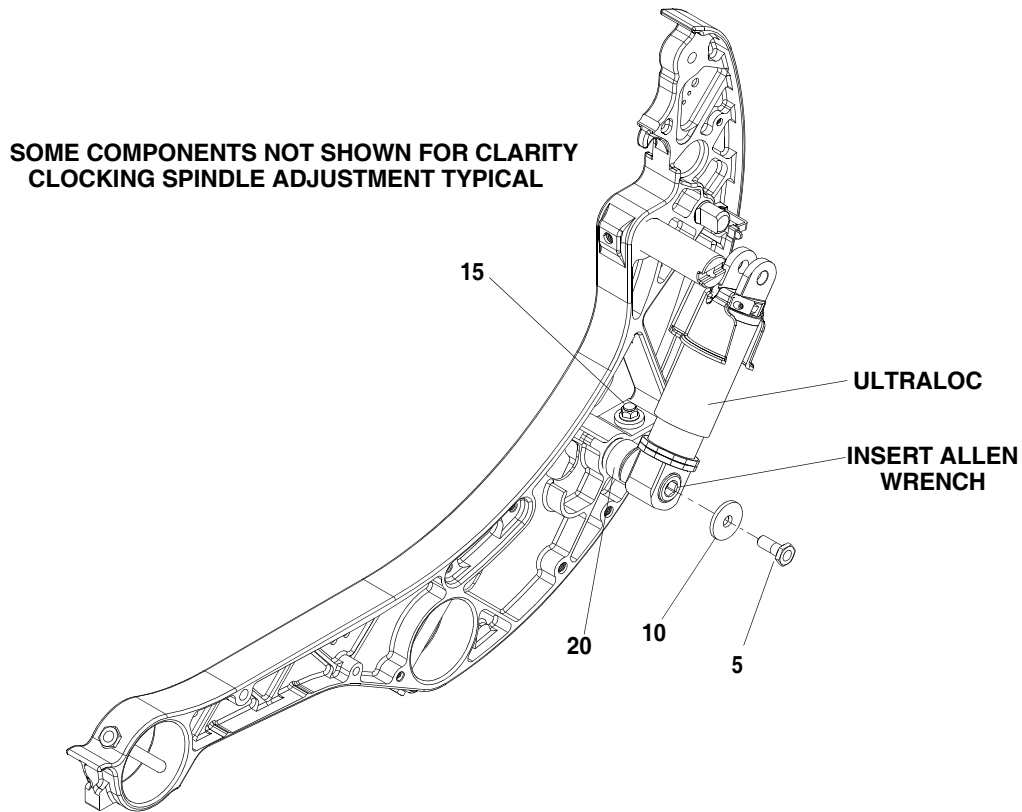
3. Quarter Turn and Other Fixed Fasteners

To properly secure items fastened by quarter (1/4) turn and other fixed fasteners, align the holes on the part being fastened, press and hold the part in place, turn fastener to engage.

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4. Back Adjustments for Full Upright Dimensions

Refer to the seat dimension illustrations in DESCRIPTION AND OPERATION for full upright dimension details. See Figure 8001 for adjustment procedures for full upright dimensions.



- A. Remove the screw (5) and washer (10).
- B. Loosen the screw and nut (15) so the clocking spindle (20) will turn.
- C. To adjust the full upright dimension, turn the clocking spindle (20) with an Allen wrench.

**NOTE:** Refer to the seat dimension illustrations in DESCRIPTION AND OPERATION for full upright dimensions.

- D. Tighten the nut (15) and torque to 10-14  $\pm$ 1 FT-LB.
- E. Attach the UltraLOC to the clocking spindle (20) with the screw (5) and washer (10).

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5. Back Adjustments for Recline Dimensions

Refer to the seat dimension illustrations in DESCRIPTION AND OPERATION for recline dimension (travel) details. See Figure 8002 and the following steps for adjustment procedures for recline dimensions.

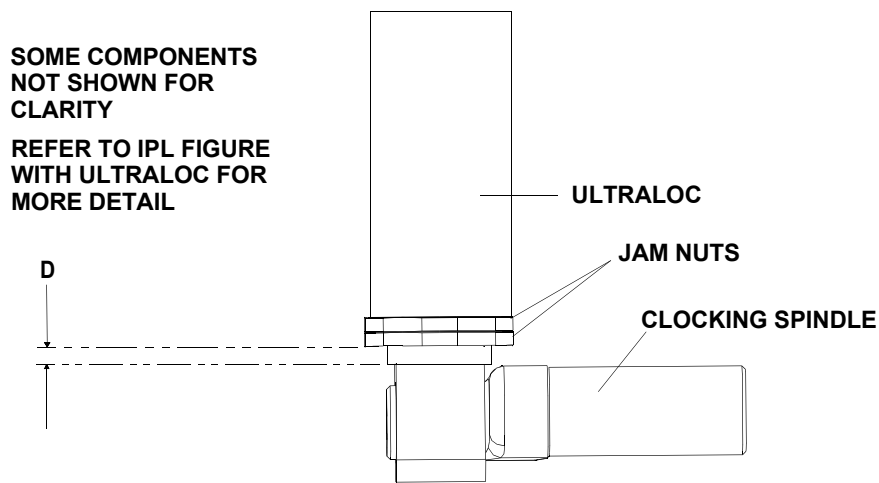


Figure 8002

- A. Use two 1 1/4" open end wrenches to turn the jam nuts (REF) to the bottom of the threads on the UltraLOC.
- B. Push the recline button on the armrest and pull the seat back (REF) rearward farther than the full recline dimension.

**NOTE:** Refer to the seat dimension illustrations in DESCRIPTION AND OPERATION for the recline dimensions.

- C. Push the seat back forward to the correct recline dimension.

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**CAUTION:** OVER TIGHTENING JAM NUTS CAN DAMAGE THE CYLINDER THREADS.

- D. Turn the jam nuts (REF) to the top of the threads (REF) on the UltraLOC. The jam nuts (REF) must fit tightly against the bottom of the cylinder (REF) on the UltraLOC.

**NOTE:** Recline travel can also be set by setting the jam nuts by distance. Refer to Table 8002 and Figure 8002.

Table 8002  
Recline Travel Adjustment Dimensions

D (DISTANCE) =	RECLINE TRAVEL
.400"	2.0"
.365"	2.5"
.330"	3.0"
.295"	3.5"
.260"	4.0"
.225"	4.5"
.190"	5.0"
.155"	5.5"
.120"	6.0"

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6. Adjustment of Deployment of Back-Mounted Foodtray

Normal maintenance requires that the deployment of the back-mounted foodtray is checked and adjusted if needed. When the foodtray latch is turned to release the foodtray from the seat back, the foodtray should deploy evenly on both arms. The passenger can then push the foodtray down to the fully deployed, level position. If the foodtray does not deploy properly, use the following steps to adjust the foodtray deployment. See Figure 8003 for adjustment setscrew location.

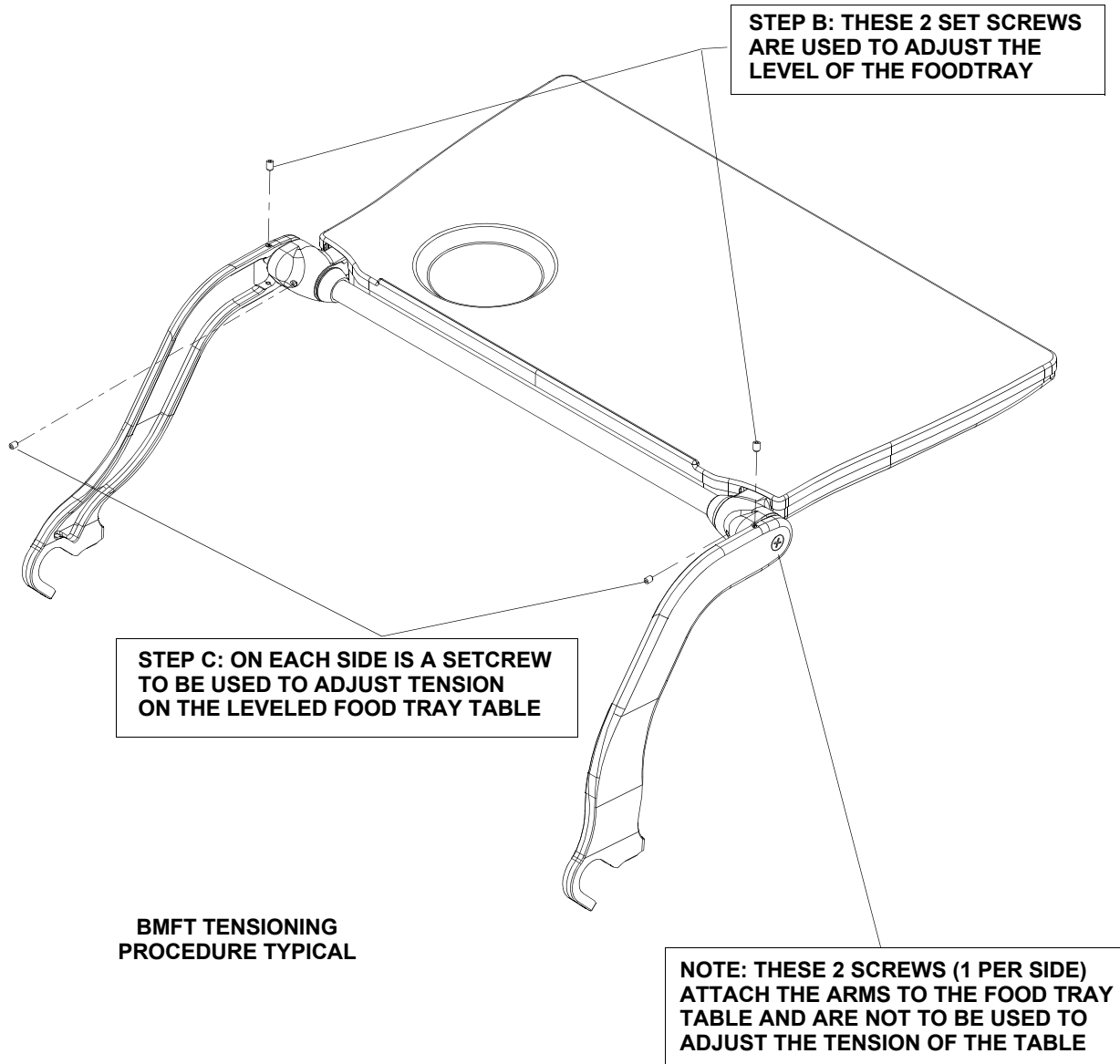


Figure 8003

- A. Without touching the foodtray, open the foodtray latch to release the foodtray from the seat back. Allow the foodtray to fall until it stops.
- B. If needed, use the 2 set screws to adjust the level of the food tray.
- C. If needed, adjust one or both tensioning screws until the foodtray deploys properly.

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**SPECIAL TOOLS, FIXTURES, AND EQUIPMENT**

1. Tools

- A. No special tools, fixtures, or equipment are required to maintain B/E Aerospace Pinnacle® passenger seats. Only common hand tools are required to assemble and/or disassemble the seats. Refer to Table 9001 for a list of suggested common hand tools.

NOTE: Equivalent substitutes may be used for tools listed in Table 9001.

Table 9001  
Suggested Common Hand Tools

TOOL
#2 Phillips Screwdriver
#3/4 Flat Screwdriver
3" Wire Cutters
3" Maglite
9/16" Wrench
7/16" Wrench
1/2" Wrench
1/4" Allen Wrench
3/16" Allen Wrench
5/32" Allen Wrench
9/64" Allen Wrench
5/64" Allen Wrench

2. Fixtures

There are no special fixture requirements.

3. Equipment

There are no special equipment requirements.

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ILLUSTRATED PARTS LIST

1. Introduction

A. Purpose

This Illustrated Parts List (IPL) helps to find and identify procurable parts of the seats. A procurable part is one that can be purchased as a replacement part.

B. How to Use the IPL

Each IPL figure has an illustration that uses item numbers to identify parts of the seat that can be replaced. Each illustration is followed by a parts list that shows all of the parts in item number sequence. Each parts list has the following columns:

FIG. ITEM	The number at the top of this column identifies the IPL Figure. The other numbers are item numbers. An item number is given to each part that can be replaced and is shown on the illustration. A dash (-) before an item number shows that the part is not shown on the illustration.
PART NUMBER	Identifies installations, assemblies and parts by number. If a part number is followed by (NP), that part is not procurable. If a part number is followed by (REF), that part number is a reference only because the actual 'true' part number does not conform to ATA Spec 2000. The 'true' part number for ordering purposes and replacement is found in the nomenclature column.
AIRLINE PART NO.	Blank column for airline use.
NOMENCLATURE	Identifies parts by name and is indented to show how parts are related to the primary assembly. See the next page for more details.
EFF CODE	Identifies which parts are used on the primary assemblies. The primary assemblies are shown at the start of the IPL figure. An effectivity code letter is given to each primary assembly. Each part used on a primary assembly is given the effectivity code letter of that primary assembly. If a part is used on all of the primary assemblies, it is not given an effectivity code. The effectivity codes in each IPL figure apply only to that figure and are not related to the effectivity codes in any other IPL figure.
UNITS/ASSY	Identifies the quantity of each part used on the primary assembly.

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The Nomenclature column uses bullet indents (•) to show the relationship between parts, as in the examples that follow:

Assembly or Installation	This is the primary assembly/installation and is not indented.
• Subassembly/Detail Part	This is a subassembly or detail part of the primary assembly/installation. It is indented with one bullet (•). If parts with two bullets (• •) follow the subassembly, they are part of the subassembly.
• • Sub-subassembly/Detail Part	A sub-subassembly/detail part of the subassembly. It is indented with two bullets (• •). If you can purchase the one indent subassembly/part, this part will be included. If parts with three bullets (• • •) follow the sub-subassembly, they are part of the sub-subassembly.
• • • Detail Part	Detail part for the sub-subassembly. It is indented with three bullets (• • •). If you can purchase the two-indent part, this part will be included.
ATTACHING PARTS	Shows that the parts listed after it attach the part or parts before it.
* * *	Shows the end of an ATTACHING PARTS list. Also used at the end of individual IPL parts listing tables.

C. Unless instructions for individual pieces of hardware specify otherwise, per manufacturer's instructions:

- (1) For hardware with thread size 8 and higher, apply Loctite™ -243 adhesive to ALL non-locking hardware and ALL hardware used in joints with no locking element.
- (2) For hardware with thread size less than 8, apply Loctite™-222 adhesive and Loctite™-7649 activator to all non-locking hardware and all hardware used in joints with no locking element.

2. Vendor Codes

Vendor Code numbers are specified in the current issue of Federal Supply Code for Manufacturers, Catalogue Handbooks H4-1, H4-3 and/or NATO codes, and are available on the Internet at [https://www.bpn.gov/bincs/search\\_info.asp](https://www.bpn.gov/bincs/search_info.asp).

3. Trim and Finish Codes

All seat part numbers and some parts in the IPL include a Trim and Finish (T & F) code at the end of the part number. Be sure to include the T & F codes when purchasing replacement parts. Example: part number 1047191-001NE01 where NE01 is the part's T & F code.

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4. LPxxxxx Parts Versus MSxxxxx Parts

The “LP” in LPxxxxx part numbers indicates that the part (typically a fastener such as a bolt, screw or nut) has “lockpatch” material applied to the threads to make the part self-locking. When such a part is used, the lockpatch is compressed, creating a much stronger metal-to-metal contact and positive resistance to vibration and loosening. **YOU CAN REPLACE AN LPxxxxx PART WITH AN EQUIVALENT MSxxxxx PART ONLY IF YOU USE A LOCKING MATERIAL (SUCH AS LOCTITE™) ON THE THREADS OF THE MSxxxxx PART.** For example, you may use part number MS27039 in place of part number LP27039 only when you apply Loctite™ to the threads before installation.

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5. Alpha/Numerical Index

PART NUMBER	AIRLINE PART NO.	IPL FIG.	ITEM	TTL REQ
CSPS04-02 (REF)		16	-45	2
CSPS04-03 (REF)		4	65	2
CSPS04-04 (REF)		5	-70	1
DB01-009		13	60	2
FTH3-01 (REF)		5	65A	1
JFI1012BE16B (REF)		3	50	1
JSI0406-12 (REF)		13	-40	2
LC030D02M		4	35	1
MS16562-49		12	135	2
MS21042-4		5	195	1
MS21042-4		15	30	2
MS21042-4		15	60	2
MS21042-4		15	105	1
MS21042-4		15	135	1
MS21042-4		18	45	1
MS21042-5		15	70	1
MS21042-6		15	110	1
MS21042-6		15	140	1
MS21043-3		6	30	2
MS21043-4		5	15	1
MS21043-5		5	30	1
MS24693C23 (REF)		13	90	2
MS24694C52 (REF)		3	35	2
MS25281F3 (REF)		6	25	2
MS27039-0811		12	10	4
MS27039-0820		4	10	2
MS27039-1-07		10	10	2
MS3367-5-9		5	-60	1
MS3367-5-9		5	-75	1
MS3367-5-9		5	-80	2
MS35206-226		8	15	1
MS35206-241		5	55	1
NAS1081-06A3L		3	45	1
NAS1081-4A5P		5	145	1
NAS1081-4A5P		15	5	2
NAS1149C0416R		7	25	1
NAS1149C0416R		7	55	1
NAS1149C0432R		11	20	2
NAS1149C0432R		12	120	1
NAS1149CN832R		4	15	2
NAS1149D0316H		4	40	1

- ITEM NOT ILLUSTRATED

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PART NUMBER	AIRLINE PART NO.	IPL FIG.	ITEM	TTL REQ
NAS1351-3-24		7	35	1
NAS1351-4-14		5	185	1
NAS1352-06-12		4	55	1
NAS1352-08-20		12	130	1
NAS514P632-6		12	50	2
NAS601-3		12	100	4
NAS601-6		12	60	2
NAS601-6		12	90	2
NAS607-3-14		12	80	1
NAS6604-8		12	115	1
NAS6603-1		15	55	1
NAS6603-16		6	20	2
NAS6604-1		5	90	1
NAS6604-1		16	20	1
NAS6604-10		15	90	1
NAS6604-10		15	120	1
NAS6604-11		16	15	2
NAS6604-11		16	60	1
NAS6604-11		18	35	1
NAS6604-12		11	10	1
NAS6604-12		15	-120A	1
NAS6604-15		15	-90A	1
NAS6604-15		15	-120B	1
NAS6604-17		5	165A	1
NAS6604-18		18	15A	1
NAS6604-19		7	20	1
NAS6604-19		11	15	1
NAS6604-19		20	15	2
NAS6604-2		15	45	1
NAS6604-20		7	45	1
NAS6604-21		5	165B	1
NAS6604-24		19	10	2
NAS6604-24		19	30	2
NAS6604-36		15	25	2
NAS6604-4		5	35	1
NAS6604-4		5	115	1
NAS6604-4		5	125	2
NAS6604-4		18	15	1
NAS6604-5		5	165	1
NAS6604-5		15	50	1
NAS6604-7		5	5	1
NAS6604-7		15	-50A	1
NAS6604-8		5	5A	1
NAS6605-10		5	25	1

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PART NUMBER	AIRLINE PART NO.	IPL FIG.	ITEM	TTL REQ
NAS6605-6		15	65	1
NAS6605-8		15	-65A	1
NAS6606-11		15	95	1
NAS6606-11		15	125	1
NAS6606-15		15	-95A	1
NAS6606-15		15	-125A	1
NAS6606-18		20	20	2
NAS679A3W		7	40	1
NAS679A4W		7	60	1
NAS679A4W		16	65	1
NAS77-12-100		6	45	2
NP565A6H3		3	55	4
NPS24693S25 (REF)		12	20	2
NPS24693S25 (REF)		12	30	2
NPS24693S272 (REF)		13	10	1
NPS24693S272 (REF)		13	20	1
NPS24693S47 (REF)		13	55	4
RE15ST035PA (REF)		4	45	1
SJ3519FR075B (REF)		4	60	AR
SL211-08-1		4	20	2
SP21651B		12	70	1
SP23997C27		12	-65	1
SP23997C30		8	20	1
SSCS03-02 (REF)		16	30	1
SSCS03-02 (REF)		16	70	1
TA1S8		5	50	1
TM1S6C (REF)		5	65	1
1002811-111BLF		4	50	1
1002933-023 (NP)		1	-195	1
1003105-305AXX		14	-20	2
1003114-201		20	10	4
1004147-003		14	-15A	1
1004147-005		14	15	1
1004147-007		14	-15D	1
1004147-023		14	-15B	1
1004147-059		14	-15C	1
1010200-201KA07		1	-115B	1
1010200-201KA07		1	-125B	2
1010200-201KA07		1	135	1
1010200-201KA07		8	-1	RF
1010200-203KA07		1	115	1
1010200-203KA07		1	125	2
1010200-203KA07		8	-1A	RF
1010200-204KA07		1	-115A	1

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PART NUMBER	AIRLINE PART NO.	IPL FIG.	ITEM	TTL REQ
1010200-204KA07		1	-125A	2
1010200-204KA07		8	-1B	RF
1010206-301BHU		8	10	1
1010207-305ZYA		8	-35	1
1010207-305ZYA		9	5	1
1010207-306ZYA		8	-40	1
1010207-306ZYA		9	10	1
1010207-307ZXV		7	65	1
1010207-308ZXV		7	70	1
1010207-321BHT		7	5	1
1010210-051KA01		7	30	1
1010210-301BHW		10	5	1
1010210-302BHW		10	-5A	1
1010210-321BHW		10	5B	1
1010210-322BHW		10	-5C	1
1010210-611ACH		7	-15A	1
1010210-612ACH		7	15	1
1010210-631		7	50	1
1010216-001KA06 (NP)		1	-110	1
1010216-001KA06 (NP)		7	-1	RF
1010216-002KA06 (NP)		1	-110A	1
1010216-002KA06 (NP)		7	-1A	RF
1010216-003 (NP)		1	-120	2
1010216-003 (NP)		7	-1B	RF
1010216-005 (NP)		1	-130	1
1010216-005 (NP)		7	-1C	RF
1011008-111		17	10	1
1011008-113		18	-20	1
1011008-114		18	-20A	1
1011008-115		18	50	1
1011008-116		18	-50A	1
1011008-117		15	-100	1
1011008-117		15	-130	1
1011008-121		19	15	1
1011008-121		19	35	1
1011008-123		17	-10A	1
1011008-125		18	10	1
1011008-126		18	-10A	1
1011008-131		19	5	1
1011008-135		19	25	1
1011008-139		20	40	2
1011008-141		17	-10B	1
1011008-191		19	-45A	1
1011008-195		19	45B	1

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PART NUMBER	AIRLINE PART NO.	IPL FIG.	ITEM	TTL REQ
1011008-197		19	45	1
1011008-655		20	50	2
1011099-103		16	-75	1
1011099-109		16	-40	1
1011099-109		16	-40A	2
1011327-441		6	70	1
1011327-445		6	-70A	1
1011400-101		5	120	1
1011400-111		5	85	1
1011402-051		5	155	1
1011402-051		18	30	1
1011402-052		5	150	1
1011402-052		18	-30A	1
1011402-101		5	175	1
1011402-111		18	40	1
1011402-143		6	50	2
1011402-147		6	-50A	2
1011402-151		5	180A	1
1011402-153		5	180	1
1011402-161		5	10	1
1011402-167		6	60	2
1011402-171		6	55	2
1011402-205		5	160A	1
1011402-207		5	160	1
1011402-601		5	110	1
1011402-601		5	130	2
1011404-101		17	5	1
1011404-103		17	-5A	1
1011404-103		18	25	1
1011404-301BHT		5	100	1
1011404-301BHT		5	140	2
1011406-041		6	-40B	1
1011406-121		6	-40	1
1011406-125		6	-40A	1
1011407-021		6	35	1
1011407-025		6	-35A	1
1011407-131		6	-35B	1
1011432-001KA01		1	175	1
1011432-001KA01		15	-1	RF
1011432-002KA01		1	-175A	1
1011432-002KA01		15	-1A	RF
1011432-003KA01		1	-175H	1
1011432-003KA01		15	-1B	RF
1011432-004KA01		1	-175J	1

- ITEM NOT ILLUSTRATED



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PART NUMBER	AIRLINE PART NO.	IPL FIG.	ITEM	TTL REQ
1011432-004KA01		15	-1C	RF
1011432-005KA01		1	-175D	1
1011432-005KA01		15	-1D	RF
1011432-006KA01		1	-175E	1
1011432-006KA01		15	-1E	RF
1011432-007KA01		1	-175B	1
1011432-007KA01		15	-1F	RF
1011432-008KA01		1	-175C	1
1011432-008KA01		15	-1G	RF
1011432-009KA01		1	-175F	1
1011432-009KA01		15	-1H	RF
1011432-010KA01		1	-175G	1
1011432-010KA01		15	-1J	RF
1011432-103KA01		1	-175K	1
1011432-103KA01		15	-1K	RF
1011432-104KA01		1	-175L	1
1011432-104KA01		15	-1L	RF
1011535-003		5	20	1
1011900-315 (NP)		1	-50	1
1011900-315 (NP)		2	-1	RF
1011906-301BHT		16	50	1
1011906-301BHT		16	80	1
1012022-003		15	-85A	1
1012022-003		15	-115C	1
1012022-003		19	-1	RF
1012022-007		15	85	1
1012022-007		15	115	1
1012022-007		19	-1A	RF
1012022-027		15	-115A	1
1012022-027		19	-1B	RF
1012022-028		15	-115B	1
1012022-028		19	-1C	RF
1012023-003		20	5	2
1012026-053		15	20	2
1012026-053		17	-1	RF
1012026-057		15	-15A	1
1012026-057		17	-1A	RF
1012026-058		15	15	1
1012026-058		17	-1B	RF
1012026-059		18	5	1
1012026-060		18	-5A	1
1012026-061		15	-20A	2
1012026-061		17	-1C	RF
1012026-063		15	-15C	1

- ITEM NOT ILLUSTRATED

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PART NUMBER	AIRLINE PART NO.	IPL FIG.	ITEM	TTL REQ
1012026-063		17	-1D	RF
1012026-064		15	-15B	1
1012026-064		17	-1E	RF
1012027-059		15	35	1
1012027-059		18	-1	RF
1012027-060		15	-35A	1
1012027-060		18	-1A	RF
1012027-061		15	-35B	1
1012027-061		18	-1B	RF
1012027-062		15	-35C	1
1012027-062		18	-1C	RF
1012030-001KA06 (NP)		1	-140	1
1012030-001KA06 (NP)		10	-1	RF
1012030-002KA06 (NP)		1	-140A	1
1012030-002KA06 (NP)		10	-1A	RF
1012030-021KA06 (NP)		1	-140B	1
1012030-021KA06 (NP)		10	-1B	RF
1012030-022KA06 (NP)		1	-140C	1
1012030-022KA06 (NP)		10	-1C	RF
1012042-055		12	15	2
1012042-063KA02		12	40	1
1012042-071KA02		12	5	1
1012042-072KA02		12	-5A	1
1012042-111		13	45	1
1012042-115		3	10	2
1012042-115		13	80	4
1012042-125		12	25	1
1012042-149		12	45	1
1012042-201		12	55	1
1012043-001KA01		12	95	1
1012043-002KA01		12	-95A	1
1012045-001 (NP)		1	-145	3
1012045-001 (NP)		11	-1	RF
1012061-103		16	-35	1
1012061-104		16	-35A	1
1012061-107		16	-35D	1
1012061-108		16	-35E	1
1012061-113		16	-35B	1
1012061-114		16	-35C	1
1012062-103		16	55	1
1012062-104		16	-55A	1
1012062-105		16	-55B	1
1012062-106		16	-55C	1
1012062-107		16	-55F	1

- ITEM NOT ILLUSTRATED

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PART NUMBER	AIRLINE PART NO.	IPL FIG.	ITEM	TTL REQ
1012062-108		16	-55G	1
1012062-109		16	-55H	1
1012062-110		16	-55J	1
1012062-111		16	-55D	1
1012062-112		16	-55E	1
1012063-201		16	10	1
1012063-203		15	40	1
1012063-204		15	-40A	1
1012064-051KA01		16	5	1
1012064-052KA01		16	-5A	1
1012064-053KA01		16	-5F	1
1012064-054KA01		16	-5G	1
1012064-059KA01		16	-5D	1
1012064-060KA01		16	-5E	1
1012064-061KA01		16	-5B	1
1012064-062KA01		16	-5C	1
1012220-001KA06 (NP)		1	-75	3
1012220-001KA06 (NP)		4	-1	RF
1012220-003KA06 (NP)		1	-75B	3
1012220-003KA06 (NP)		4	-1A	RF
1012220-004KA06 (NP)		1	-75A	3
1012220-004KA06 (NP)		4	-1B	RF
1012221-001 (NP)		1	-55	3
1012221-001 (NP)		3	-1	RF
1012222-041KA06		4	5	1
1012222-045KA06		4	-5B	1
1012222-046KA06		4	5A	1
1012223-301BLF		4	70	1
1012223-303ZZR		4	30	1
1012223-345BLF		4	-70B	1
1012223-346BLF		4	70A	1
1012280-001KA06		1	-60B	1
1012280-001KA06		1	-65A	1
1012280-001KA06		1	-70A	1
1012280-001KA06		3	5	RF
1012280-005KA06		1	60	1
1012280-005KA06		1	-65	1
1012280-005KA06		1	-70	1
1012280-005KA06		3	-5A	RF
1012280-055KA06		1	-60A	1
1012280-055KA06		1	-65B	1
1012280-055KA06		1	-70B	1
1012280-055KA06		3	-5B	RF
1012281-001KA06		3	70	1

- ITEM NOT ILLUSTRATED

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PART NUMBER	AIRLINE PART NO.	IPL FIG.	ITEM	TTL REQ
1012281-005KA06		3	-70A	1
1012287-113ACH		3	60	1
1012287-114ACH		3	65	1
1012289-091KA01		3	15	1
1012289-095KA01		3	-15A	1
1012289-115KA01		3	-15B	1
1012290-061KA01		3	25	1
1012290-062KA01		3	30	1
1012290-063KA01		3	-25A	1
1012290-064KA01		3	-30A	1
1012370-011KA01 (NP)		15	-10	1
1012370-011KA01 (NP)		16	-1	RF
1012370-012KA01 (NP)		15	-10A	1
1012370-012KA01 (NP)		16	-1A	RF
1012370-013KA01 (NP)		15	-10B	1
1012370-013KA01 (NP)		16	-1B	RF
1012370-014KA01 (NP)		15	-10C	1
1012370-014KA01 (NP)		16	-1C	RF
1012370-015KA01 (NP)		15	-10D	1
1012370-015KA01 (NP)		16	-1D	RF
1012370-016KA01 (NP)		15	-10E	1
1012370-016KA01 (NP)		16	-1E	RF
1012370-017KA01 (NP)		15	-10F	1
1012370-017KA01 (NP)		16	-1F	RF
1012370-018KA01 (NP)		15	-10G	1
1012370-018KA01 (NP)		16	-1G	RF
1012370-019KA01 (NP)		15	-10K	1
1012370-019KA01 (NP)		16	-1H	RF
1012370-020KA01 (NP)		15	-10L	1
1012370-020KA01 (NP)		16	-1J	RF
1012370-021KA01 (NP)		15	-10H	1
1012370-021KA01 (NP)		16	-1K	RF
1012370-022KA01 (NP)		15	-10J	1
1012370-022KA01 (NP)		16	-1L	RF
1012376-001		6	15	1
1012376-005		6	-15A	1
1012380-021		1	-20A	1
1012380-021		1	-25A	1
1012380-025		1	20	1
1012380-025		1	25	1
1012380-061		1	-20B	1
1012380-061		1	-25B	1
1012380-061		1	-30C	1
1012380-101		1	-30A	1

- ITEM NOT ILLUSTRATED

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PART NUMBER	AIRLINE PART NO.	IPL FIG.	ITEM	TTL REQ
1012380-105		1	30	1
1012380-145		1	-30B	1
1012381-001		6	5	1
1012381-005		6	-5A	1
1012386-001		14	5	1
1012386-005		14	-5A	1
1012386-021		14	-5B	1
1012386-025		14	-5C	1
1012620-031 (NP)		1	-180	1
1012620-031 (NP)		20	-1	RF
1012766-001KA01 (NP)		1	-160A	1
1012766-001KA01 (NP)		1	-165A	1
1012766-001KA01 (NP)		14	-1	RF
1012766-005KA01 (NP)		1	-160	1
1012766-005KA01 (NP)		1	-165	1
1012766-005KA01 (NP)		14	-1A	RF
1012766-021KA01 (NP)		1	-170A	1
1012766-021KA01 (NP)		14	-1B	RF
1012766-025KA01 (NP)		1	-170	1
1012766-025KA01 (NP)		14	-1C	RF
1012766-045KA01 (NP)		1	-160B	1
1012766-045KA01 (NP)		1	-165B	1
1012766-045KA01 (NP)		14	-1D	RF
1012766-065KA01 (NP)		1	-170B	1
1012766-065KA01 (NP)		14	-1E	RF
1012771-005		14	-5D	1
1012771-021		14	-5E	1
1012772-101		15	145	1
1012772-102		15	-145A	1
1012772-103		15	150	1
1012772-104		15	-150A	1
1012772-105		15	-145B	1
1012772-106		15	-145C	1
1012772-107		15	-150B	1
1012772-108		15	-150C	1
1012772-109		15	-145D	1
1012772-110		15	-145E	1
1012772-111		15	-150D	1
1012772-112		15	-150E	1
1012772-113		15	-145F	1
1012772-114		15	-145G	1
1012772-115		15	-150F	1
1012772-116		15	-150G	1
1012772-117		15	-145H	1

- ITEM NOT ILLUSTRATED

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PART NUMBER	AIRLINE PART NO.	IPL FIG.	ITEM	TTL REQ
1012772-118		15	-145J	1
1012772-119		15	-150H	1
1012772-120		15	-150J	1
1012787-105		12	125	1
1012801-111KA06 (NP)		1	-185	3
1012801-113KA06 (NP)		1	-185A	3
1012801-114KA06 (NP)		1	-185B	3
1012808-121ACT		1	-190	1
1013475-001KA01		14	25	1
1013475-001KA01		15	-75	1
1013475-301BHT		14	30	1
1013475-301BHT		15	-80	1
1013480-139		15	-145K	1
1013480-140		15	-145L	1
1013480-141		15	-150K	1
1013480-142		15	-150L	1
1013580-001		14	10	1
1013580-005		14	-10A	1
1013580-021		14	-10B	1
1013580-025		14	-10C	1
1013580-065		14	-10D	1
1013681-307BHT		5	45	1
1014071-051		13	25	1
1014071-052		13	-25A	1
1014071-053KA06		13	65	1
1014071-054KA06		13	-65A	1
1014071-055KA06		13	70	1
1014071-056KA06		13	-70A	1
1014071-101		13	-30	1
1014071-102		13	-30A	1
1014071-107		13	5	1
1014071-108		13	-5A	1
1014071-109		13	15	1
1014071-111		13	50	2
1014071-315BHW		13	85	1
1014071-317ZZS		12	85	1
1014072-001KA06		12	-75	1
1014072-001KA06		13	-1	RF
1014072-002KA06		12	-75A	1
1014072-002KA06		13	-1A	RF
1014252-301BNA		4	25	1
1014803-021ACH		3	20	1
1014803-025ACH		3	-20A	1
1014921-001KA06		1	-155	2

- ITEM NOT ILLUSTRATED

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PART NUMBER	AIRLINE PART NO.	IPL FIG.	ITEM	TTL REQ
1014921-001KA06		11	5	RF
1014921-001KA06		12	-1	RF
1014921-002KA06		1	-155A	2
1014921-002KA06		11	-5A	RF
1014921-002KA06		12	-1A	RF
1014921-003KA06		1	-150	1
1014921-003KA06		11	-5B	RF
1014921-003KA06		12	-1B	RF
1014921-004KA06		1	-150A	1
1014921-004KA06		11	-5C	RF
1014921-004KA06		12	-1C	RF
1014922-151ACH		12	-105A	1
1014922-152ACH		12	105	1
1014922-155ACH		12	-105C	1
1014922-156ACH		12	-105B	1
1014922-161ACH		12	110	1
1014922-162ACH		12	-110A	1
1016667-051ACH		8	30	1
1016667-053ACH		8	30A	1
1016667-055ACH		8	-30B	1
1016667-061ACH		1	-135A	1
1016667-061ACH		9	-1	RF
1023342-701KA01 (NP)		1	-80	1
1023342-701KA01 (NP)		5	-1	RF
1023342-702KA01 (NP)		1	-80A	1
1023342-702KA01 (NP)		5	-1A	RF
1023342-721KA01 (NP)		1	-90	1
1023342-721KA01 (NP)		5	-1B	RF
1023342-722KA01 (NP)		1	-90A	1
1023342-722KA01 (NP)		5	-1C	RF
1023342-793KA01 (NP)		1	-85	2
1023342-793KA01 (NP)		5	-1D	RF
1023342-794KA01 (NP)		1	-85A	2
1023342-794KA01 (NP)		5	-1E	RF
1024366-311BHU		8	5	1
1030999-001		6	10	1
1030999-005		6	-10A	1
1031000-001		1	-95B	1
1031000-001		1	-100A	1
1031000-001		1	-105A	1
1031000-001		6	-1	RF
1031000-005		1	95	1
1031000-005		1	100	1
1031000-005		1	105	1
1031000-005		6	-1A	RF

- ITEM NOT ILLUSTRATED

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PART NUMBER	AIRLINE PART NO.	IPL FIG.	ITEM	TTL REQ
1031000-021		1	-95A	1
1031000-021		1	-100B	1
1031000-021		1	-105B	1
1031000-021		6	-1B	RF
1047036 (NP)		1	-200	RF
1047191-001NE01		1	-1	RF
1047191-002NE01		1	-1A	RF
1047191-003NE01		1	-1B	RF
1047191-004NE01		1	-1C	RF
1047191-005NE01		1	-1D	RF
1047191-006NE01		1	-1E	RF
1047191-007NE01		1	-1F	RF
1047191-008NE01		1	-1G	RF
1047191-009NE01		1	-1H	RF
1047191-010NE01		1	-1J	RF
1047191-011NE01		1	-1K	RF
1047191-012NE01		1	-1L	RF
1047191-015NE01		1	-1M	RF
1047191-016NE01		1	-1N	RF
1047191-101NE01		1	-1P	RF
1047191-102NE01		1	-1Q	RF
1047902-001DSJ		1	-5B	1
1047902-001DSJ		1	-10B	1
1047902-001DSJ		1	-15C	1
1047902-005DSJ		1	5	1
1047902-005DSJ		1	10	1
1047902-011DSJ		1	-5A	1
1047902-011DSJ		1	-10A	1
1047902-015DSJ		1	-15B	1
1047902-021DSJ		1	-15A	1
1047902-025DSJ		1	15	1
1047902-031DSJ		1	-35B	1
1047902-031DSJ		1	-40A	1
1047902-031DSJ		1	-45A	1
1047902-035DSJ		1	35	1
1047902-035DSJ		1	40	1
1047902-035DSJ		1	45	1
1047902-041DSJ		1	-35A	1
1047902-041DSJ		1	-40B	1
1047902-041DSJ		1	-45B	1
127108-001		1	-190B	1
127109-001		1	-190A	1
2006-1-511-8010		2	5	3
27SR1660240		7	10	1

- ITEM NOT ILLUSTRATED

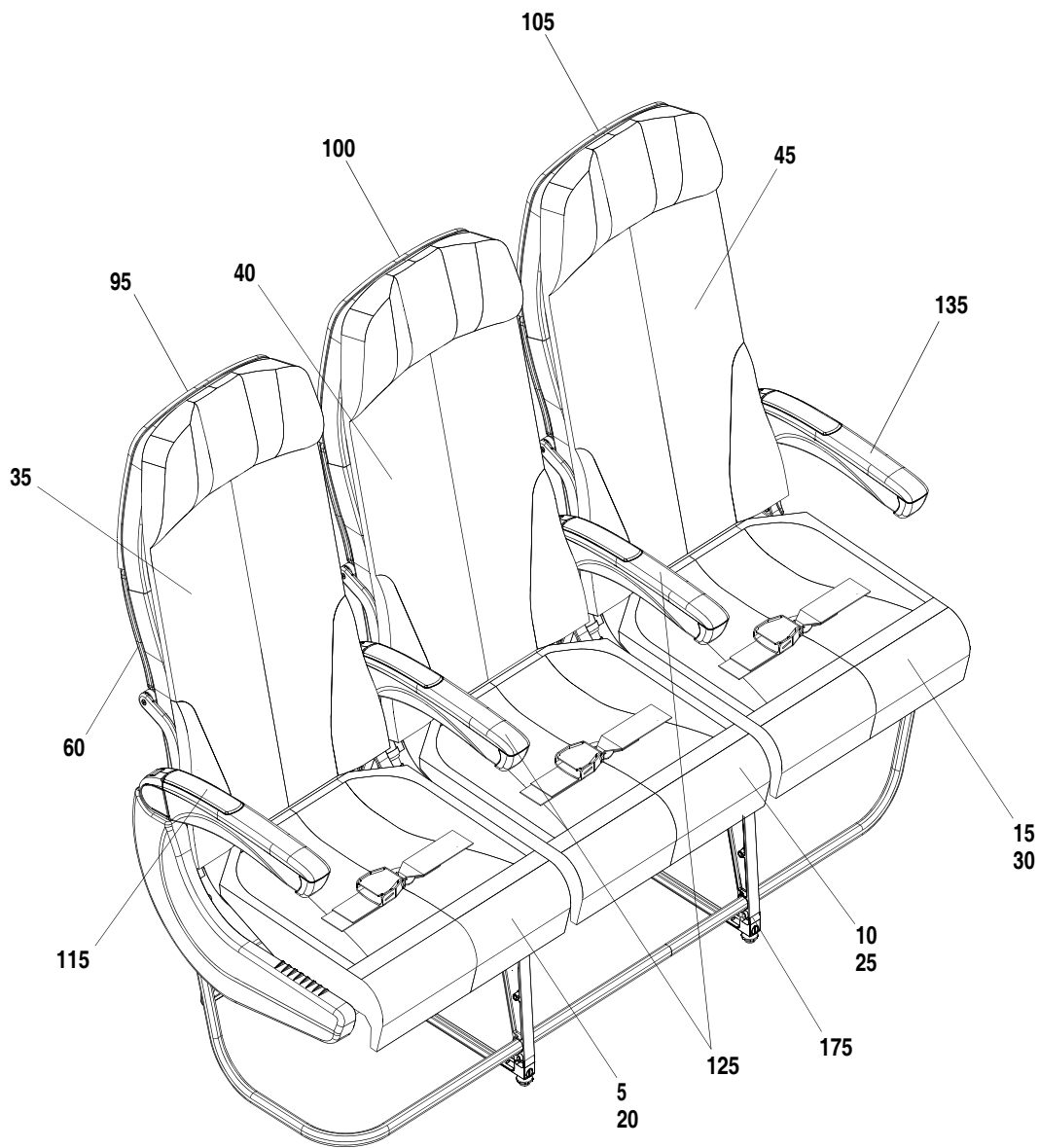


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PART NUMBER	AIRLINE PART NO.	IPL FIG.	ITEM	TTL REQ
27SR2000370		10	15	1
409615		12	35	2
42NKE048 (REF)		16	25	1
42NKE048 (REF)		19	20	2
42NKE048 (REF)		19	40	2
42NKE048 (REF)		20	30	2
47000283		13	75	2
48231303		13	-35	1
52NKE064 (REF)		20	35	2
5304-25		6	65	2
5710-561-120P (REF)		5	190	1
5710-821-90		5	40	1
5710-821-90		5	95	1
5710-821-90		5	170	1
96154011		8	25	1
97123007		20	45	2
98038115		20	25	4
98038411		5	105	1
98038411		5	135	2
98038605		3	40	2

- ITEM NOT ILLUSTRATED

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General Seat Assembly  
IPL Figure 1

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
1					
-1	1047191-001NE01		Seat Assembly, LH Triple, STD	A	RF
-1A	1047191-002NE01		Seat Assembly, RH Triple, STD	B	RF
-1B	1047191-003NE01		Seat Assembly, LH Triple, Narrow, Center and Outboard PAX	C	RF
-1C	1047191-004NE01		Seat Assembly, RH Triple, Narrow, Center and Outboard PAX	D	RF
-1D	1047191-005NE01		Seat Assembly, LH Triple, Narrow, No Back-Mounted Foodtray, 4.0" Recline	E	RF
-1E	1047191-006NE01		Seat Assembly, RH Triple, Narrow, No Back-Mounted Foodtray, 4.0" Recline	F	RF
-1F	1047191-007NE01		Seat Assembly, LH Forward Exit Triple, No Recline, 6.0" Sliding Back-Mounted Foodtray, One-Way Latch	G	RF
-1G	1047191-008NE01		Seat Assembly, RH Forward Exit Triple, No Recline, 6.0" Sliding Back-Mounted Foodtray, One-Way Latch	H	RF
-1H	1047191-009NE01		Seat Assembly, LH Exit Triple, No Recline, 6.0" Sliding Back-Mounted Foodtray, One-Way Latch, No Outboard Arm	J	RF
-1J	1047191-010NE01		Seat Assembly, RH Exit Triple, No Recline, 6.0" Sliding Back-Mounted Foodtray, One-Way Latch, No Outboard Arm	K	RF
-1K	1047191-011NE01		Seat Assembly, LH Aft Exit Triple, No Outboard Arm	L	RF
-1L	1047191-012NE01		Seat Assembly, RH Aft Exit Triple, No Outboard Arm	M	RF
-1M	1047191-015NE01		Seat Assembly, LH Triple, Offset, Narrow Outboard PAX	N	RF
-1N	1047191-016NE01		Seat Assembly, RH Triple, Offset, Narrow Outboard PAX	P	RF
-1P	1047191-101NE01		Seat Assembly, LH Triple, Front Row, Narrow, In-Arm Foodtray	Q	RF
-1Q	1047191-102NE01		Seat Assembly, RH Triple, Front Row, Narrow, In-Arm Foodtray	R	RF
5	1047902-005DSJ		• Cover - Bottom (INBD)	A-DG-P	1
-5A	1047902-011DSJ		• Cover - Bottom (INBD)	EF	1

- ITEM NOT ILLUSTRATED

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
1					
-5B	1047902-001DSJ		• Cover - Bottom (INBD)	QR	1
10	1047902-005DSJ		• Cover - Bottom (CTR)	ABG-P	1
-10A	1047902-011DSJ		• Cover - Bottom (CTR)	C-F	1
-10B	1047902-001DSJ		• Cover - Bottom (CTR)	QR	1
15	1047902-025DSJ		• Cover - Bottom (OUTBD)	ABGH	1
-15A	1047902-021DSJ		• Cover - Bottom (OUTBD)	C-FNP	1
-15B	1047902-015DSJ		• Cover - Bottom (OUTBD)	J-M	1
-15C	1047902-001DSJ		• Cover - Bottom (OUTBD)	QR	1
20	1012380-025		• Cushion Assembly - Bottom (INBD)	A-DG-P	1
-20A	1012380-021		• Cushion Assembly - Bottom (INBD)	EF	1
-20B	1012380-061		• Cushion Assembly - Bottom, Front Row (INBD)	QR	1
25	1012380-025		• Cushion Assembly - Bottom (CTR)	ABG-P	1
-25A	1012380-021		• Cushion Assembly - Bottom (CTR)	C-F	1
-25B	1012380-061		• Cushion Assembly - Bottom, Front Row (CTR)	QR	1
30	1012380-105		• Cushion Assembly - Bottom (OUTBD)	ABGH	1
-30A	1012380-101		• Cushion Assembly - Bottom (OUTBD)	C-FNP	1
-30B	1012380-145		• Cushion Assembly - Bottom (OUTBD)	J-M	1
-30C	1012380-061		• Cushion Assembly - Bottom, Front Row (OUTBD)	QR	1
35	1047902-035DSJ		• Cover - Back (INBD)	A-DG-P	1
-35A	1047902-041DSJ		• Cover - Back (INBD)	EF	1
-35B	1047902-031DSJ		• Cover - Back (INBD)	QR	1
40	1047902-035DSJ		• Cover - Back (CTR)	ABG-P	1
-40A	1047902-031DSJ		• Cover - Back (CTR)	CDQR	1
-40B	1047902-041DSJ		• Cover - Back (CTR)	EF	1
45	1047902-035DSJ		• Cover - Back (OUTBD)	ABG-M	1
-45A	1047902-031DSJ		• Cover - Back (OUTBD)	CDN-R	1

- ITEM NOT ILLUSTRATED

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
1					
-45B	1047902-041DSJ		• Cover - Back (OUTBD)	EF	1
-50	1011900-315 (NP)		• Installation - Seat Belt, STD TPL (See IPL FIG 2 for DET BKDN)		1
-55	1012221-001 (NP)		• Installation - Back-Mounted Foodtray (See IPL FIG 3 for DET BKDN)	A-D G-R	3
60	1012280-005KA06		• Back-Mounted Foodtray Assembly - W/ Arms (INBD) (See IPL FIG 3 for DET BKDN)	A-DL-P	1
-60A	1012280-055KA06		• Back-Mounted Foodtray Assembly - W/ Arms (INBD) (See IPL FIG 3 for DET BKDN)	G-K	1
-60B	1012280-001KA06		• Back-Mounted Foodtray Assembly - W/ Arms (INBD) (See IPL FIG 3 for DET BKDN)	QR	1
-65	1012280-005KA06		• Back-Mounted Foodtray Assembly - W/ Arms (CTR) (See IPL FIG 3 for DET BKDN)	ABL-P	1
-65A	1012280-001KA06		• Back-Mounted Foodtray Assembly - W/ Arms (CTR) (See IPL FIG 3 for DET BKDN)	CDQR	1
-65B	1012280-055KA06		• Back-Mounted Foodtray Assembly - W/ Arms (CTR) (See IPL FIG 3 for DET BKDN)	G-K	1
-70	1012280-005KA06		• Back-Mounted Foodtray Assembly - W/ Arms (OUTBD) (See IPL FIG 3 for DET BKDN)	ABLM	1
-70A	1012280-001KA06		• Back-Mounted Foodtray Assembly - W/ Arms (OUTBD) (See IPL FIG 3 for DET BKDN)	CDN-R	1
-70B	1012280-055KA06		• Back-Mounted Foodtray Assembly - W/ Arms (OUTBD) (See IPL FIG 3 for DET BKDN)	G-K	1
-75	1012220-001KA06 (NP)		• Installation - Foodtray Latch (See IPL FIG 4 for DET BKDN)	A-DL-R	3
-75A	1012220-004KA06 (NP)		• Installation - Foodtray Latch, One-Way (See IPL FIG 4 for DET BKDN)	GJ	3

- ITEM NOT ILLUSTRATED

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
1					
-75B	1012220-003KA06 (NP)		• Installation - Foodtray Latch, One-Way (See IPL FIG 4 for DET BKDN)	HK	3
-80	1023342-701KA01 (NP)		• Installation - Seat Back STD, TPL (INBD) (See IPL FIG 5 for DET BKDN)	ACEGJ LNQ	1
-80A	1023342-702KA01 (NP)		• Installation - Seat Back STD, TPL (INBD) (See IPL FIG 5 for DET BKDN)	BDF HK MPR	1
-85	1023342-793KA01 (NP)		• Installation - Seat Back STD, TPL (CTR-INBD and CTR-OUTBD) (See IPL FIG 5 for DET BKDN)	ACEGJ LNQ	2
-85A	1023342-794KA01 (NP)		• Installation - Seat Back STD, TPL (CTR-INBD and CTR-OUTBD) (See IPL FIG 5 for DET BKDN)	BDF HK MPR	2
-90	1023342-721KA01 (NP)		• Installation - Seat Back STD, TPL, Canted (OUTBD) (See IPL FIG 5 for DET BKDN)	ACEGJ LNQ	1
-90A	1023342-722KA01 (NP)		• Installation - Seat Back STD, TPL Canted (OUTBD) (See IPL FIG 5 for DET BKDN)	BDF HK MPR	1
95	1031000-005		• Back Assembly - HIC (INBD) (See IPL FIG 6 for DET BKDN)	A-DG-P	1
-95A	1031000-021		• Back Assembly - Last Row (INBD) (See IPL FIG 6 for DET BKDN)	EF	1
-95B	1031000-001		• Back Assembly - HIC (INBD) (See IPL FIG 6 for DET BKDN)	QR	1
100	1031000-005		• Back Assembly - HIC (CTR) (See IPL FIG 6 for DET BKDN)	ABG-P	1
-100A	1031000-001		• Back Assembly - HIC (CTR) (See IPL FIG 6 for DET BKDN)	CDQR	1
-100B	1031000-021		• Back Assembly - Last Row (CTR) (See IPL FIG 6 for DET BKDN)	EF	1
105	1031000-005		• Back Assembly - HIC (OUTBD) (See IPL FIG 6 for DET BKDN)	ABG-M	1
-105A	1031000-001		• Back Assembly - HIC (OUTBD) (See IPL FIG 6 for DET BKDN)	CDN-R	1
-105B	1031000-021		• Back Assembly - Last Row (OUTBD) (See IPL FIG 6 for DET BKDN)	EF	1

- ITEM NOT ILLUSTRATED

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
1					
-110	1010216-001KA06 (NP)		• Installation - Arm, HCEB (INBD) (See IPL FIG 7 for DET BKDN)	ACEGJ LN	1
-110A	1010216-002KA06 (NP)		• Installation - Arm, HCEB (INBD) (See IPL FIG 7 for DET BKDN)	BDF HKMP	1
115	1010200-203KA07		• Arm Assembly - Recline, No Placard (INBD) (See IPL FIG 8 for DET BKDN)	ACELN	1
-115A	1010200-204KA07		• Arm Assembly - Recline, No Placard (INBD) (See IPL FIG 8 for DET BKDN)	BDFMP	1
-115B	1010200-201KA07		• Arm Assembly - Recline, No Placard (INBD) (See IPL FIG 8 for DET BKDN)	G-K	1
-120	1010216-003 (NP)		• Installation - Arm (CTR-INBD and CTR-OUTBD) (See IPL FIG 7 for DET BKDN)	A-P	2
125	1010200-203KA07		• Arm Assembly - Recline, No Placard (CTR-INBD and CTR-OUTBD) (See IPL FIG 8 for DET BKDN)	ACELN	2
-125A	1010200-204KA07		• Arm Assembly - Recline, No Placard (CTR-INBD and CTR-OUTBD) (See IPL FIG 8 for DET BKDN)	BDFMP	2
-125B	1010200-201KA07		• Arm Assembly - Recline, No Placard (CTR-INBD and CTR-OUTBD) (See IPL FIG 8 for DET BKDN)	G-K	2
-130	1010216-005 (NP)		• Installation - Arm (OUTBD) (See IPL FIG 7 for DET BKDN)		1
135	1010200-201KA07		• Arm Assembly - Blank, No Placard (OUTBD) (See IPL FIG 8 for DET BKDN)	A-HN-R	1
-135A	1016667-061ACH		• Pan Arm Assembly - Emergency Exit (OUTBD) (See IPL FIG 9 for DET BKDN)	J-M	1
-140	1012030-001KA06 (NP)		• Installation - Endbay, STD (See IPL FIG 10 for DET BKDN)	ACEG JLN	1
-140A	1012030-002KA06 (NP)		• Installation - Endbay, STD (See IPL FIG 10 for DET BKDN)	BDF HKMP	1
-140B	1012030-021KA06 (NP)		• Installation - Endbay, Front Row (See IPL FIG 10 for DET BKDN)	Q	1

- ITEM NOT ILLUSTRATED

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
1					
-140C	1012030-022KA06 (NP)		• Installation - Endbay, Front Row (See IPL FIG 10 for DET BKDN)	R	1
-145	1012045-001 (NP)		• Installation - IAT Module (See IPL FIG 11 for DET BKDN)	QR	3
-150	1014921-003KA06		• IAT Module - Blank (INBD) (See IPL FIG 12 for DET BKDN)	Q	1
-150A	1014921-004KA06		• IAT Module - Blank (INBD) (See IPL FIG 12 for DET BKDN)	R	1
-155	1014921-001KA06		• IAT Module - Blank (CTR-INBD and CTR-OUTBD) (See IPL FIG 12 for DET BKDN)	Q	2
-155A	1014921-002KA06		• IAT Module - Blank (CTR-INBD and CTR-OUTBD) (See IPL FIG 12 for DET BKDN)	R	2
-160	1012766-005KA01 (NP)		• Installation - Diaphragm, Bottom (INBD) (See IPL FIG 14 for DET BKDN)	A-D GHNP	1
-160A	1012766-001KA01 (NP)		• Installation - Diaphragm, Bottom, AN79 (INBD) (See IPL FIG 14 for DET BKDN)	EFQR	1
-160B	1012766-045KA01 (NP)		• Installation - Diaphragm, Bottom (INBD) (See IPL FIG 14 for DET BKDN)	J-M	1
-165	1012766-005KA01 (NP)		• Installation - Diaphragm, Bottom (CTR) (See IPL FIG 14 for DET BKDN)	ABG HNP	1
-165A	1012766-001KA01 (NP)		• Installation - Diaphragm, Bottom (CTR) (See IPL FIG 14 for DET BKDN)	C-FQR	1
-165B	1012766-045KA01 (NP)		• Installation - Diaphragm, Bottom (CTR) (See IPL FIG 14 for DET BKDN)	J-M	1
-170	1012766-025KA01 (NP)		• Installation - Diaphragm, Bottom (OUTBD) (See IPL FIG 14 for DET BKDN)	ABGH	1
-170A	1012766-021KA01 (NP)		• Installation - Diaphragm, Bottom (OUTBD) (See IPL FIG 14 for DET BKDN)	C-FN-R	1
-170B	1012766-065KA01 (NP)		• Installation - Diaphragm, Bottom, AN79 (OUTBD) (See IPL FIG 14 for DET BKDN)	J-M	1

- ITEM NOT ILLUSTRATED



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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
1					
175	1011432-001KA01		• Frame Assembly (See IPL FIG 15 for DET BKDN)	AG	1
-175A	1011432-002KA01		• Frame Assembly (See IPL FIG 15 for DET BKDN)	BH	1
-175B	1011432-007KA01		• Frame Assembly (See IPL FIG 15 for DET BKDN)	C	1
-175C	1011432-008KA01		• Frame Assembly (See IPL FIG 15 for DET BKDN)	D	1
-175D	1011432-005KA01		• Frame Assembly (See IPL FIG 15 for DET BKDN)	E	1
-175E	1011432-006KA01		• Frame Assembly (See IPL FIG 15 for DET BKDN)	F	1
-175F	1011432-009KA01		• Frame Assembly (See IPL FIG 15 for DET BKDN)	JL	1
-175G	1011432-010KA01		• Frame Assembly (See IPL FIG 15 for DET BKDN)	KM	1
-175H	1011432-003KA01		• Frame Assembly (See IPL FIG 15 for DET BKDN)	N	1
-175J	1011432-004KA01		• Frame Assembly (See IPL FIG 15 for DET BKDN)	P	1
-175K	1011432-103KA01		• Frame Assembly (See IPL FIG 15 for DET BKDN)	Q	1
-175L	1011432-104KA01		• Frame Assembly (See IPL FIG 15 for DET BKDN)	R	1
-180	1012620-031 (NP)		• Installation - Track Fittings, STD (See IPL FIG 20 for DET BKDN)		1
-185	1012801-111KA06 (NP)		• Installation - Placard	A-DL-R	3
-185A	1012801-113KA06 (NP)		• Installation - Placard	GJ	3
-185B	1012801-114KA06 (NP)		• Installation - Placard	HK	3
-190	1012808-121ACT		• • Placard - Safety Pin (Order Separately)	A-DL-R	1
-190A	127109-001		• • Placard - Exit, Foodtray (Order Separately)	GJ	1
-190B	127108-001		• • Placard - Exit, Foodtray (Order Separately)	HK	1

- ITEM NOT ILLUSTRATED

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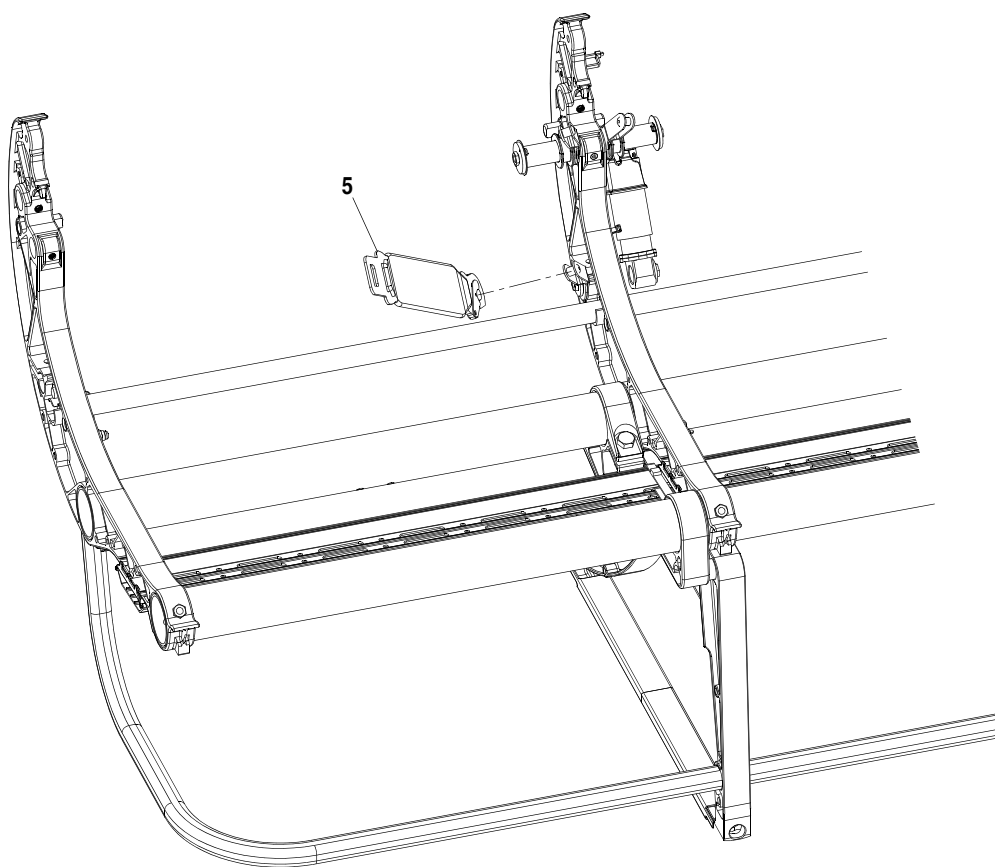
FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
1					
-195	1002933-023 (NP)		• Nameplate - TSO Tag		1
-200	1047036 (NP)		Envelope Drawing * * *		RF

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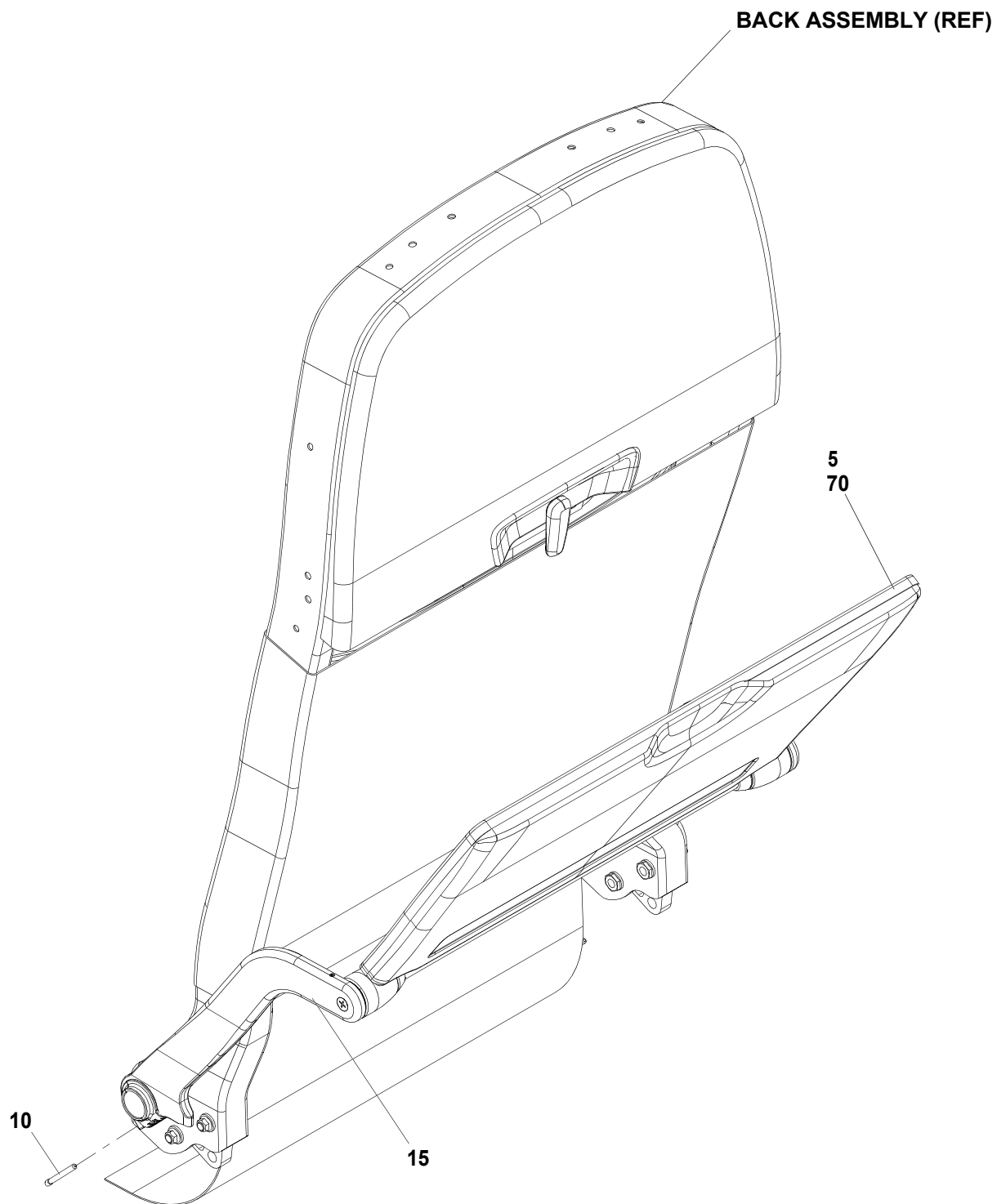
Seat Belt Installation  
IPL Figure 2

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
2					
-1	1011900-315 (NP)		Installation - Seat Belt, STD, TPL (See IPL FIG 1 for NHA)		RF
5	2006-1-511-8010		<ul style="list-style-type: none"> <li>Lap Belt Assembly (Order Separately)</li> </ul> <p style="text-align: center;">* * *</p>		3

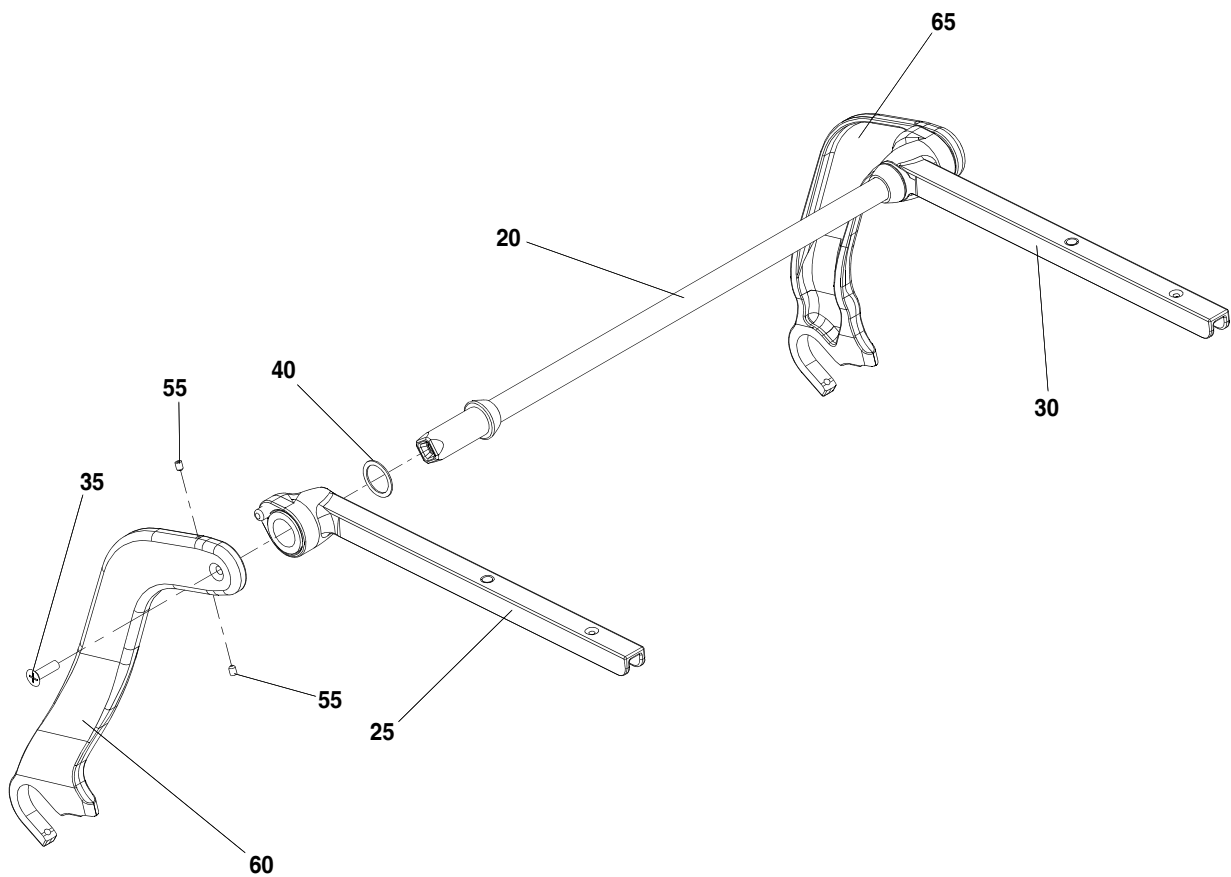
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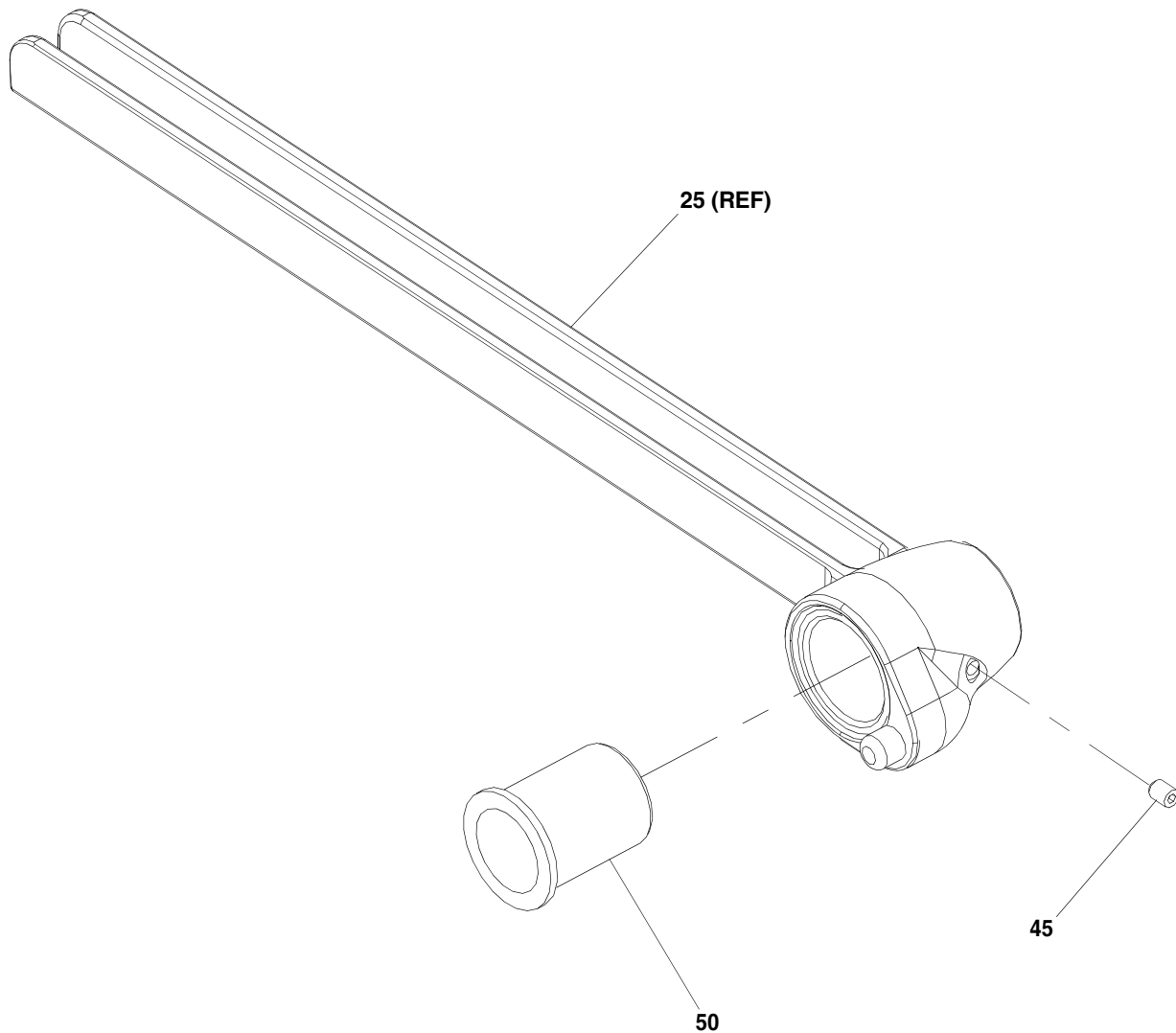
Back-Mounted Foodtray Installation  
IPL Figure 3 (Sheet 1 of 3)

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Back-Mounted Foodtray Installation  
IPL Figure 3 (Sheet 2 of 3)

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Back-Mounted Foodtray Installation  
IPL Figure 3 (Sheet 3 of 3)



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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
3					
-1	1012221-001 (NP)		Installation - Back-Mounted Foodtray (See IPL FIG 1 for NHA)	A	RF
5	1012280-001KA06		Back-Mounted Foodtray Assembly - W/ Arms (See IPL FIG 1 for NHA)	B	RF
-5A	1012280-005KA06		Back-Mounted Foodtray Assembly - W/ Arms (See IPL FIG 1 for NHA)	C	RF
-5B	1012280-055KA06		Back-Mounted Foodtray Assembly - W/ Arms (See IPL FIG 1 for NHA)	D	RF
			ATTACHING PARTS		
10	1012042-115		• Pin - Hinge, Foodtray Leaf (Order Separately)  * * *	A	2
15	1012289-091KA01		• Arm - Foodtray Assembly	B	1
-15A	1012289-095KA01		• Arm - Foodtray Assembly	C	1
-15B	1012289-115KA01		• Arm - Foodtray Assembly	D	1
20	1014803-021ACH		• • Tube Assembly - Torque	B	1
-20A	1014803-025ACH		• • Tube Assembly - Torque	CD	1
25	1012290-061KA01		• • Slide Assembly - Foodtray	BC	1
-25A	1012290-063KA01		• • Slide Assembly - Foodtray	D	1
30	1012290-062KA01		• • Slide Assembly - Foodtray	BC	1
-30A	1012290-064KA01		• • Slide Assembly - Foodtray	D	1
			ATTACHING PARTS		
35	MS24694C52 (REF)		• • Screw - CSK (True P/N is MS24694-C52)	B-D	2
40	98038605		• • Spacer - Nylon  * * *	B-D	2
45	NAS1081-06A3L		• • • Setscrew	B-D	1

- ITEM NOT ILLUSTRATED

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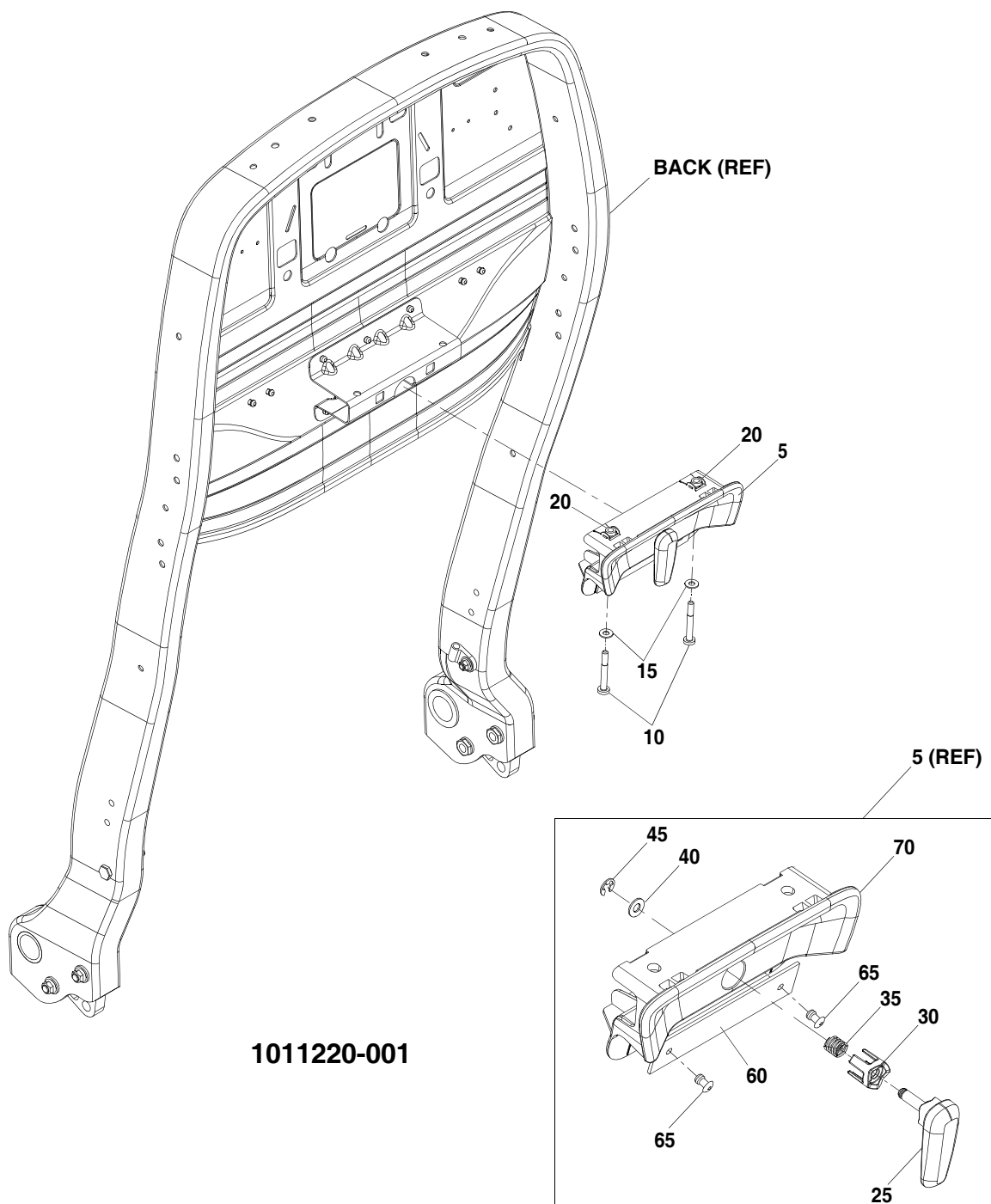
FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
3					
50	JFI1012BE16B (REF)		• • • Bearing (True P/N is JFI-1012BE-16B)	B-D	1
55	NP565A6H3		• • Set Screw (Adjust to provide tension on the Foodtray Slide Assembly)	B-D	4
60	1012287-113ACH		• • Leg - Foodtray	B-D	1
65	1012287-114ACH		• • Leg - Foodtray	B-D	1
70	1012281-001KA06		• Foodtray Assembly - Bonded	B	1
-70A	1012281-005KA06		• Foodtray Assembly - Bonded  * * *	CD	1

- ITEM NOT ILLUSTRATED

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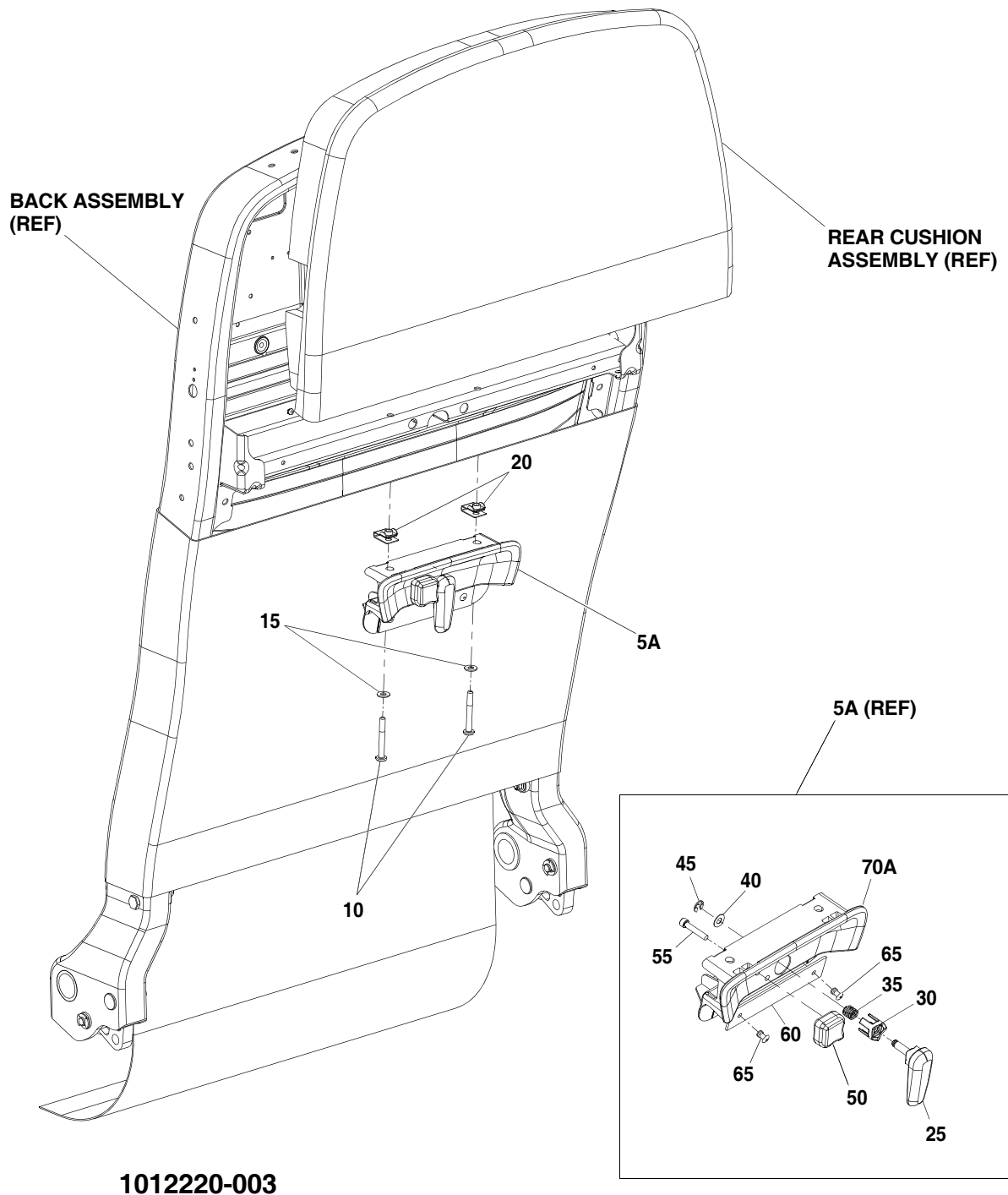
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Foodtray Latch Installation  
IPL Figure 4 (Sheet 1 of 2)

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Foodtray Latch Installation  
IPL Figure 4 (Sheet 2 of 2)

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
4					
-1	1012220-001KA06 (NP)		Installation - Foodtray Latch (See IPL FIG 1 for NHA)	A	RF
-1A	1012220-003KA06 (NP)		Installation - Foodtray Latch, One-Way (See IPL FIG 1 for NHA)	B	RF
-1B	1012220-004KA06 (NP)		Installation - Foodtray Latch, One-Way (See IPL FIG 1 for NHA)	C	RF
5	1012222-041KA06		• Foodtray Latch Assembly (Order Separately)	A	1
5A	1012222-046KA06		• Foodtray Latch Assembly, One-Way (Order Separately)	B	1
-5B	1012222-045KA06		• Foodtray Latch Assembly, One-Way (Order Separately)	C	1
			ATTACHING PARTS		
10	MS27039-0820		• Screw - Pan HD (Order Separately)		2
15	NAS1149CN832R		• Washer - Flat (Order Separately)		2
20	SL211-08-1		• Clipnut (Order Separately)		2
			* * *		
25	1014252-301BNA		• • Latch Assembly - Foodtray		1
			ATTACHING PARTS		
30	1012223-303ZZR		• • Latch Core - Standard		1
35	LC030D02M		• • Spring - Compression, Helical		1
40	NAS1149D0316H		• • Washer - Flat		1
45	RE15ST035PA (REF)		• • Ring - Shaft (True P/N is RE-15ST.035PA)		1
			* * *		
50	1002811-111BLF		• • Block - Latch Stop	BC	1
			ATTACHING PARTS		
55	NAS1352-06-12		• • Screw - Hex Socket Cap HD	BC	1
			* * *		

- ITEM NOT ILLUSTRATED

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
4					
60	SJ3519FR075B (REF)		<ul style="list-style-type: none"> <li>• • 3M™ Hook Adhesive 075 Black (True P/N is SJ3519FR075BLACK)</li> </ul>		AR
			ATTACHING PARTS		
65	CSPS04-03 (REF)		<ul style="list-style-type: none"> <li>• • Rivet - Pan HD (True P/N is CSPS-04-03)</li> </ul>		2
			* * *		
70	1012223-301BLF		<ul style="list-style-type: none"> <li>• • Escutcheon - Latch</li> </ul>	A	1
70A	1012223-346BLF		<ul style="list-style-type: none"> <li>• • Escutcheon - Latch, One-Way, RH</li> </ul>	B	1
-70B	1012223-345BLF		<ul style="list-style-type: none"> <li>• • Escutcheon - Latch, One-Way, LH</li> </ul>	C	1
			* * *		

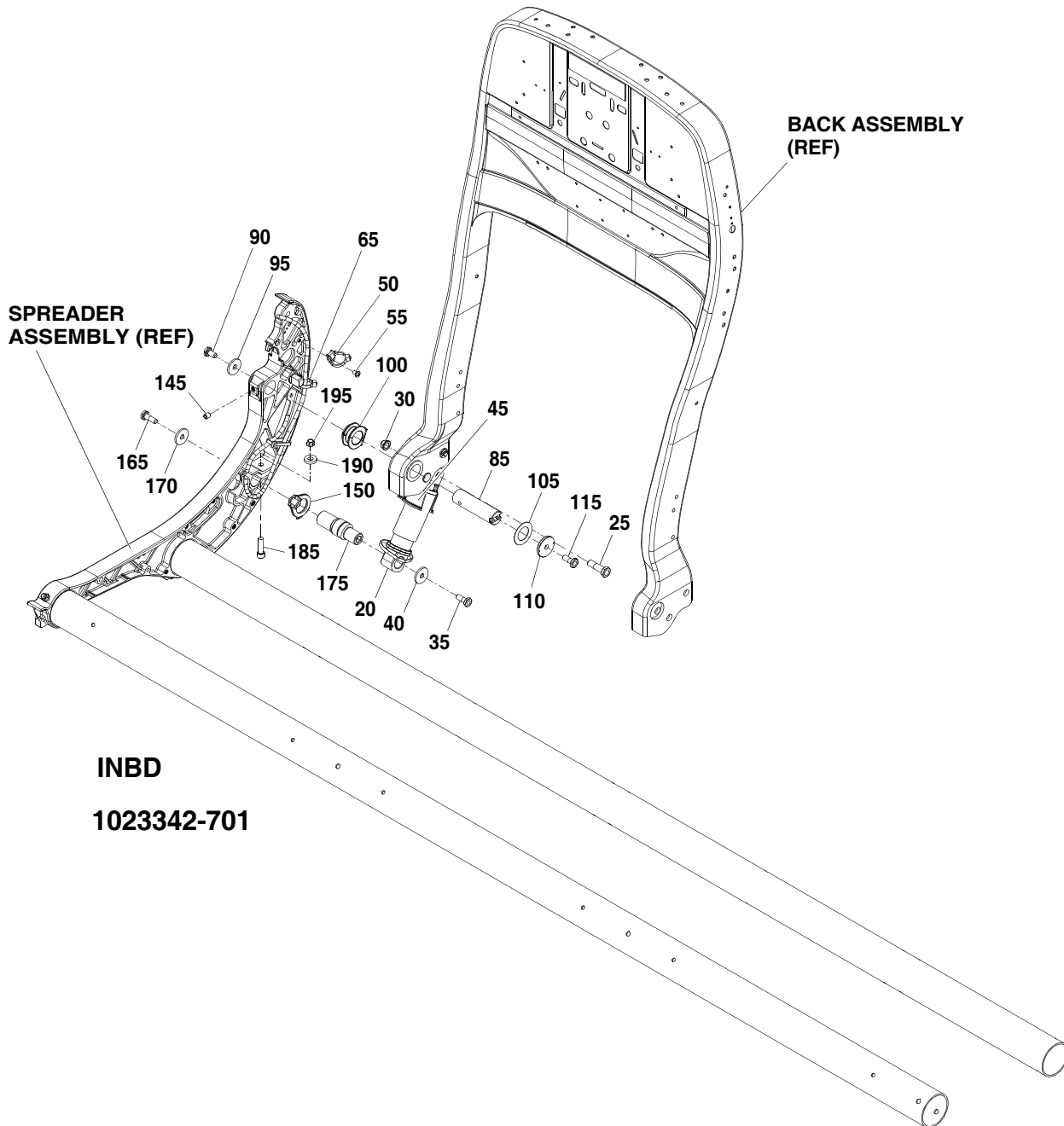
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**INBD**  
**1023342-701**

Seat Back Installation  
IPL Figure 5 (Sheet 1 of 3)

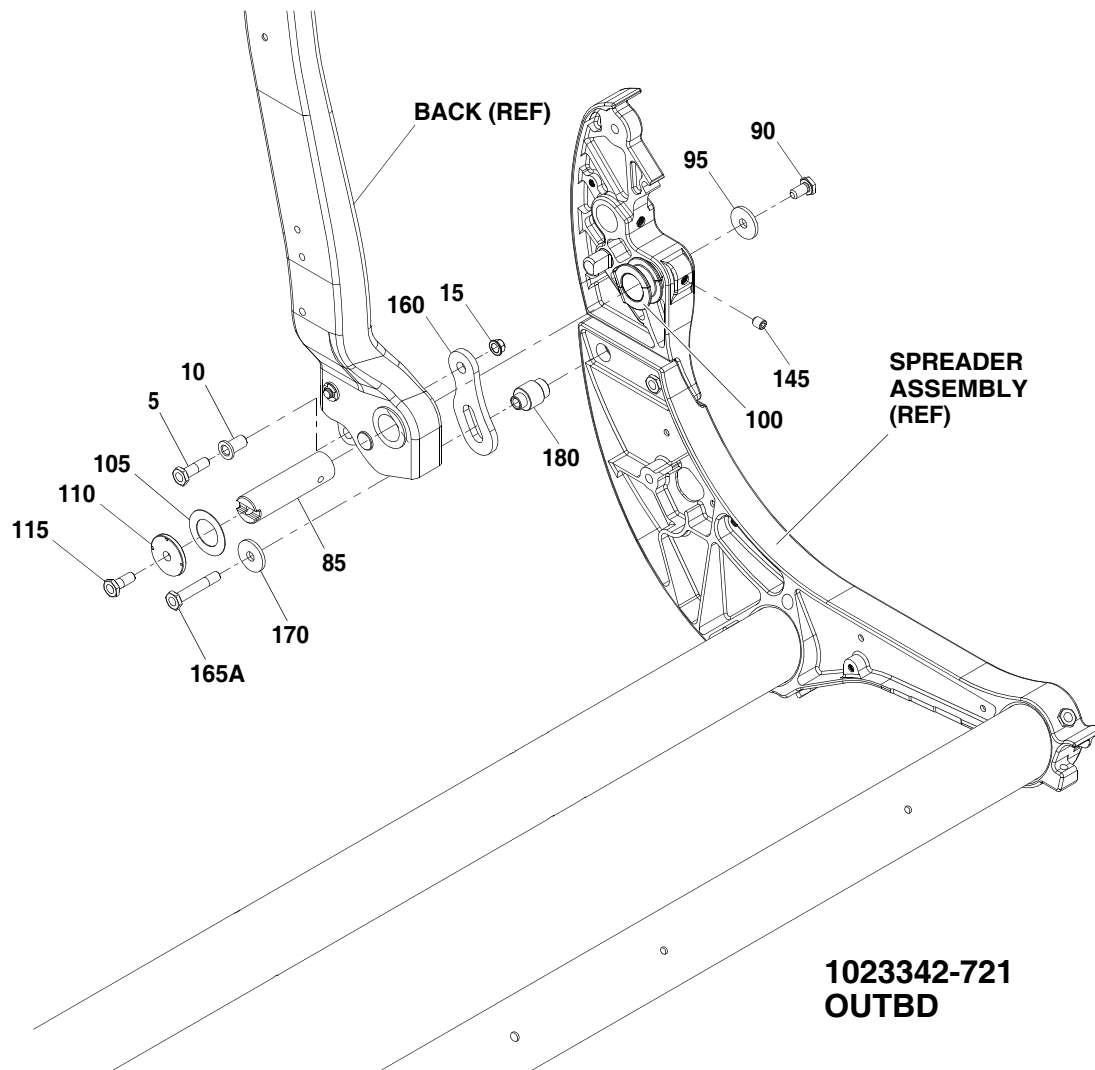
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## Seat Back Installation

### IPL Figure 5 (Sheet 2 of 3)

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Seat Back Installation  
IPL Figure 5 (Sheet 3 of 3)

**B/E AEROSPACE**  
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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
5					
-1	1023342-701KA01 (NP)		Installation - Seat Back STD, TPL (See IPL FIG 1 for NHA)	A	RF
-1A	1023342-702KA01 (NP)		Installation - Seat Back STD, TPL (See IPL FIG 1 for NHA)	B	RF
-1B	1023342-721KA01 (NP)		Installation - Seat Back STD, TPL (See IPL FIG 1 for NHA)	C	RF
-1C	1023342-722KA01 (NP)		Installation - Seat Back STD, TPL (See IPL FIG 1 for NHA)	D	RF
-1D	1023342-793KA01 (NP)		Installation - Seat Back STD, TPL (See IPL FIG 1 for NHA)	E	RF
-1E	1023342-794KA01 (NP)		Installation - Seat Back STD, TPL (See IPL FIG 1 for NHA)	F	RF
5	NAS6604-7		• Bolt - Hex HD (Order Separately) (Torque to 60 ±10 IN-LB)	CD	1
5A	NAS6604-8		• Bolt - Hex HD (Order Separately) (Torque to 60 ±10 IN-LB)	EF	1
10	1011402-161		• Bushing - Flanged (Order Separately)	C-F	1
15	MS21043-4		• Nut (Order Separately) (Torque to 60 ±10 IN-LB)	C-F	1
20	1011535-003		• UltraLOC (SP23789L) (Order Separately)	ABEF	1
			ATTACHING PARTS		
25	NAS6605-10		• Bolt - Hex HD (Order Separately)	ABEF	1
30	MS21043-5		• Nut - LKG (Order Separately) (Torque to 120 ±20 IN-LB)	ABEF	1
35	NAS6604-4		• Bolt - Hex HD (Order Separately) (Torque to 60 ±10 IN-LB)	ABEF	1
40	5710-821-90		• Washer - Flat (Order Separately)	ABEF	1
			* * *		

- ITEM NOT ILLUSTRATED

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
5					
45	1013681-307BHT		• Shroud - Cable Retaining (Order Separately)	ABEF	1
50	TA1S8		• Mount - Cable Tie (Order Separately)	ABEF	1
			ATTACHING PARTS		
55	MS35206-241		• Screw - Pan HD (Order Separately)	ABEF	1
-60	MS3367-5-9		• Strap - Tiedown (Order Separately)	ABEF	1
			* * *		
65	TM1S6C (REF)		• Cable Tie Mount (Order Separately by true P/N TM1S6-C)	AB	1
65A	FTH3-01 (REF)		• Mount - Cable Tie, Push (Order Separately by true P/N FTH-3-01)	EF	1
			ATTACHING PARTS		
-70	CSPS04-04 (REF)		• Rivet - Pan HD (Order Separately by true P/N CSPS-04-04)	AB	1
-75	MS3367-5-9		• Strap - Tiedown (Order Separately)	ABEF	1
			* * *		
-80	MS3367-5-9		• Strap - Tiedown (Order Separately)	ABEF	2
85	1011400-111		• Pivot Shaft (INBD and OUTBD) (Order Separately)	A-D	1
			ATTACHING PARTS		
90	NAS6604-1		• Bolt - Hex HD (Order Separately) (Torque to 60 ±10 IN-LB)	A-D	1
95	5710-821-90		• Washer - Flat (Order Separately)	A-D	1

- ITEM NOT ILLUSTRATED

**B/E AEROSPACE**  
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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
5					
100	1011404-301BHT		• Bushing - BMFT Leg (Order Separately)	A-D	1
105	98038411		• Spacer - Nylon (Order Separately)	A-D	1
110	1011402-601		• Cap - Pivot Shaft (Order Separately)	A-D	1
115	NAS6604-4		• Bolt - Hex HD (Order Separately) (Torque to 60 ±10 IN-LB)  * * *	A-D	1
120	1011400-101		• Pivot Shaft (CTR) (Order Separately)  ATTACHING PARTS	EF	1
125	NAS6604-4		• Bolt - Hex HD (Order Separately) (Torque to 60 ±10 IN-LB)	EF	2
130	1011402-601		• Cap - Pivot Shaft (Order Separately)	EF	2
135	98038411		• Spacer - Nylon (Order Separately)	EF	2
140	1011404-301BHT		• Bushing - BMFT Leg (Order Separately)  * * *	EF	2
145	NAS1081-4A5P		• Set Screw - Flat (Order Separately)		1
150	1011402-052		• Shackle Assembly - Seat Belt, RH (INBD and CTR) (Order Separately)	AEF	1
155	1011402-051		• Shackle Assembly - Seat Belt, LH (INBD and CTR) (Order Separately)	BEF	1
160	1011402-207		• Stop - Link (OUTBD) (Order Separately)	CD	1
160A	1011402-205		• Stop - Link (CTR) (Order Separately)	EF	1

- ITEM NOT ILLUSTRATED

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
5			ATTACHING PARTS		
165	NAS6604-5		• Bolt - Hex HD (Order Separately) (Torque to 60 ±10 IN-LB)	AB	1
165A	NAS6604-17		• Bolt - Hex HD (Order Separately) (Torque to 60 ±10 IN-LB)	CD	1
165B	NAS6604-21		• Bolt - Hex HD (Order Separately) (Torque to 60 ±10 IN-LB)	EF	1
170	5710-821-90		• Washer - Flat (Order Separately)		1
175	1011402-101		• Spindle - Clocking (Order Separately)	ABEF	1
180	1011402-153		• Spacer - Stop Link (Order Separately)	CD	1
180A	1011402-151		• Spacer - Stop Link (Order Separately)  * * *	EF	1
185	NAS1351-4-14		• Screw - Hex HD (Order Separately)	ABEF	1
190	5710-561-120P (REF)		• Washer - Flat (Order Separately by true P/N 5710-561-120-P)	ABEF	1
195	MS21042-4		• Nut - Hex (Order Separately) (Torque to 60 ±10 IN-LB)  * * *	ABEF	1

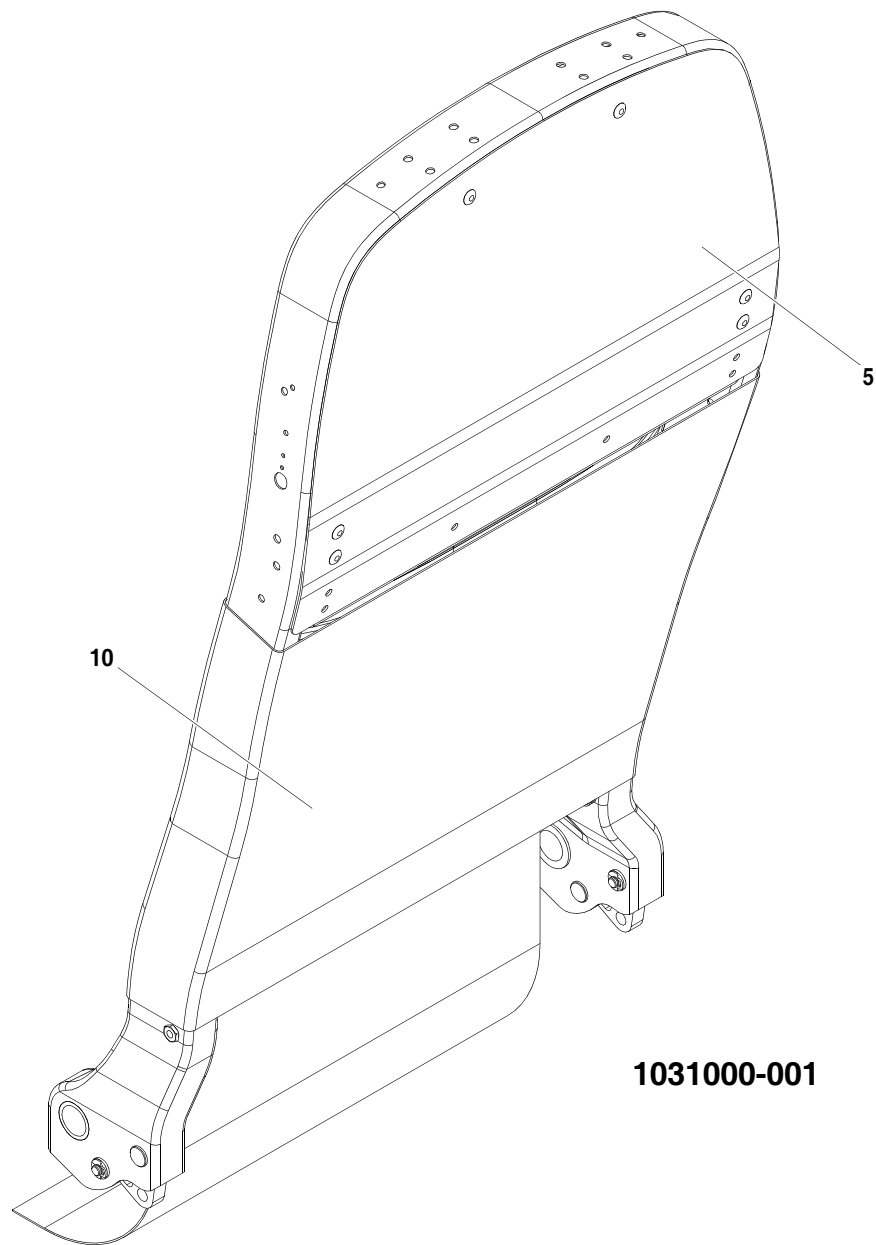
- ITEM NOT ILLUSTRATED



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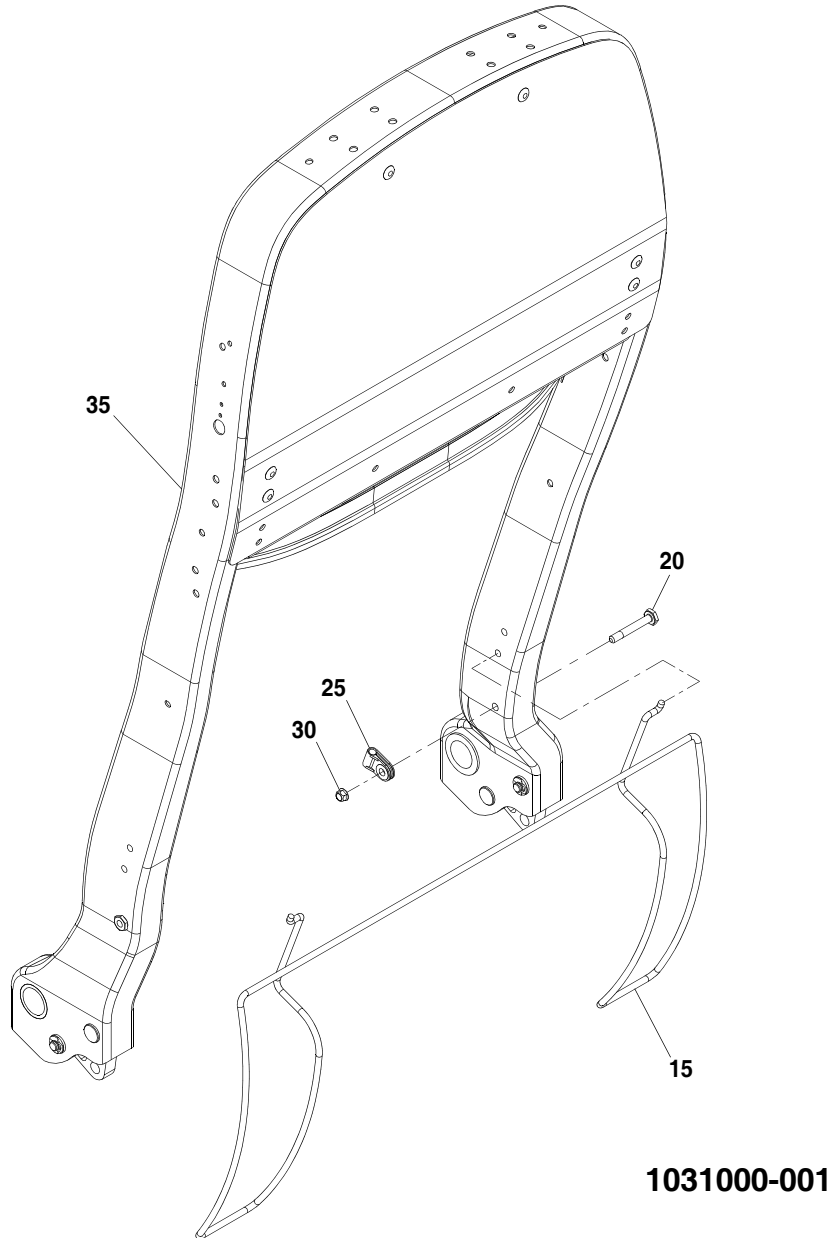
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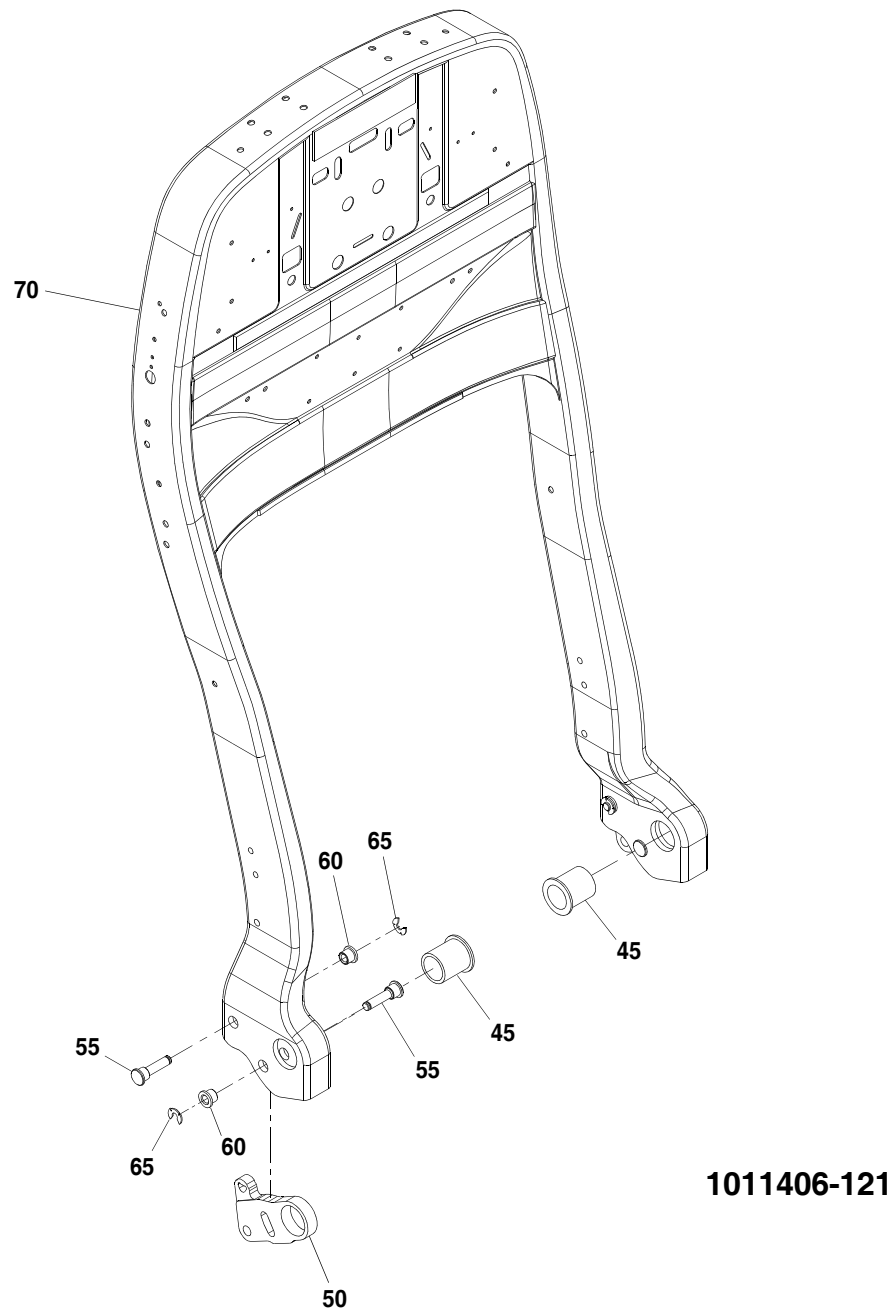
Back Assembly  
IPL Figure 6 (Sheet 1 of 3)

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Back Assembly  
IPL Figure 6 (Sheet 2 of 3)

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COMPONENT MAINTENANCE MANUAL  
PINNACLE® 1047191 SERIES



Back Assembly  
IPL Figure 6 (Sheet 3 of 3)

**B/E AEROSPACE**  
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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
6					
-1	1031000-001		Back Assembly (See IPL FIG 1 for NHA)	A	RF
-1A	1031000-005		Back Assembly (See IPL FIG 1 for NHA)	B	RF
-1B	1031000-021		Back Assembly (See IPL FIG 1 for NHA)	C	RF
5	1012381-001		• Cushion Assembly - Rear	A	1
-5A	1012381-005		• Cushion Assembly - Rear	B	1
10	1030999-001		• Diaphragm - Back	AC	1
-10A	1030999-005		• Diaphragm - Back	B	1
15	1012376-001		• Spring - Literature Pocket	AC	1
-15A	1012376-005		• Spring - Literature Pocket	B	1
			ATTACHING PARTS		
20	NAS6603-16		• Bolt - Hex HD		2
25	MS25281F3 (REF)		• Clamp - Loop (True P/N is MS25281-F3)		2
30	MS21043-3		• Nut - LKG		2
			* * *		
35	1011407-021		• Back Assembly - Riveted	A	1
-35A	1011407-025		• Back Assembly - Riveted	B	1
-35B	1011407-131		• Back Assembly - Riveted	C	1
-40	1011406-121		• • Back Assembly	A	1
-40A	1011406-125		• • Back Assembly	B	1
-40B	1011406-041		• • Back Assembly	C	1
45	NAS77-12-100		• • • Bushing - Flanged		2
50	1011402-143		• • • Back Stop	AB	2
-50A	1011402-147		• • • Back Stop	C	2

- ITEM NOT ILLUSTRATED

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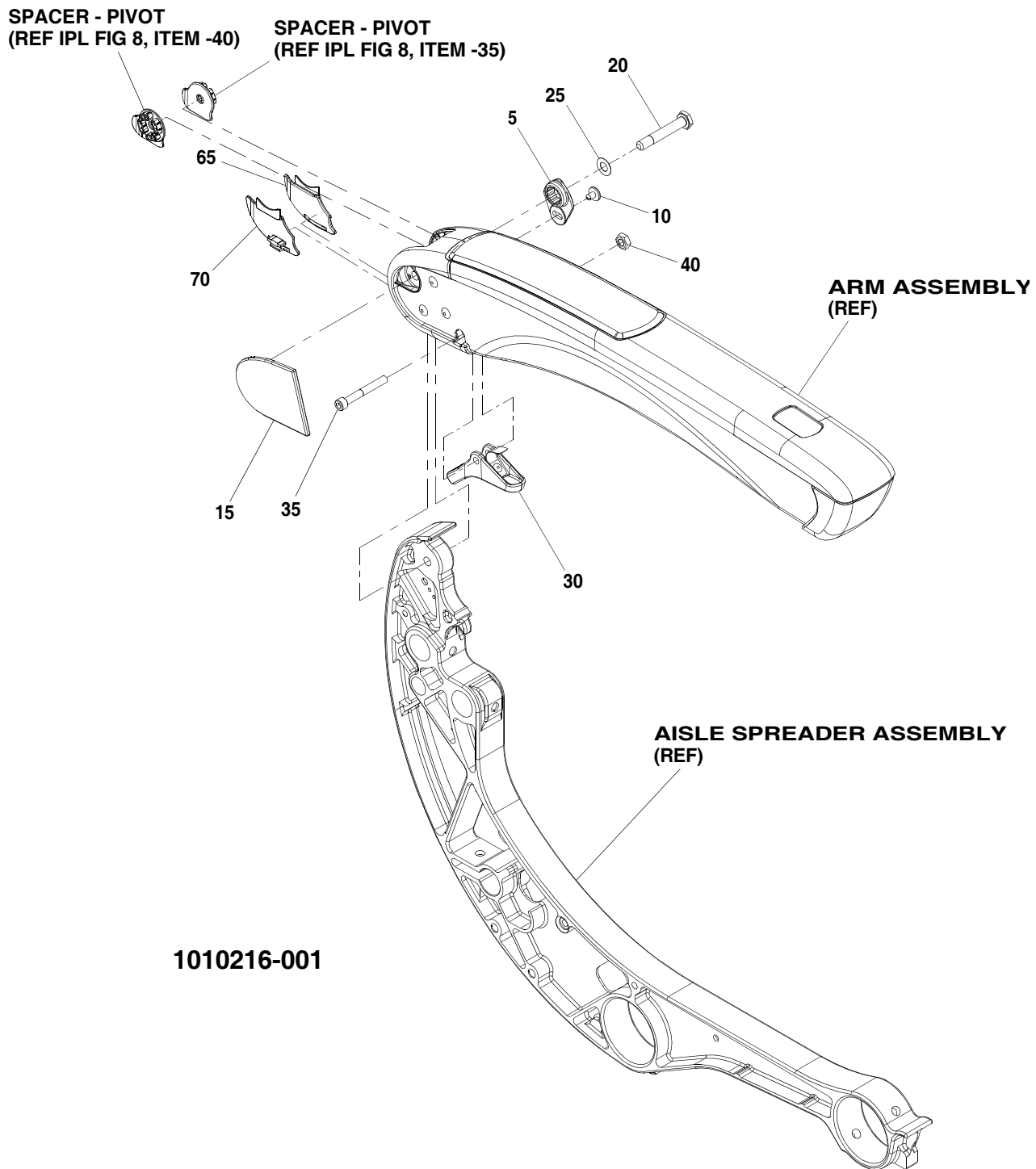
FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
6			ATTACHING PARTS		
55	1011402-171		• • • Stud - HIC Pin		2
60	1011402-167		• • • Bushing - Flanged		2
65	5304-25		• • • Ring - Retaining * * *		2
70	1011327-441		• • • Back Frame	AC	1
-70A	1011327-445		• • • Back Frame * * *	B	1

- ITEM NOT ILLUSTRATED

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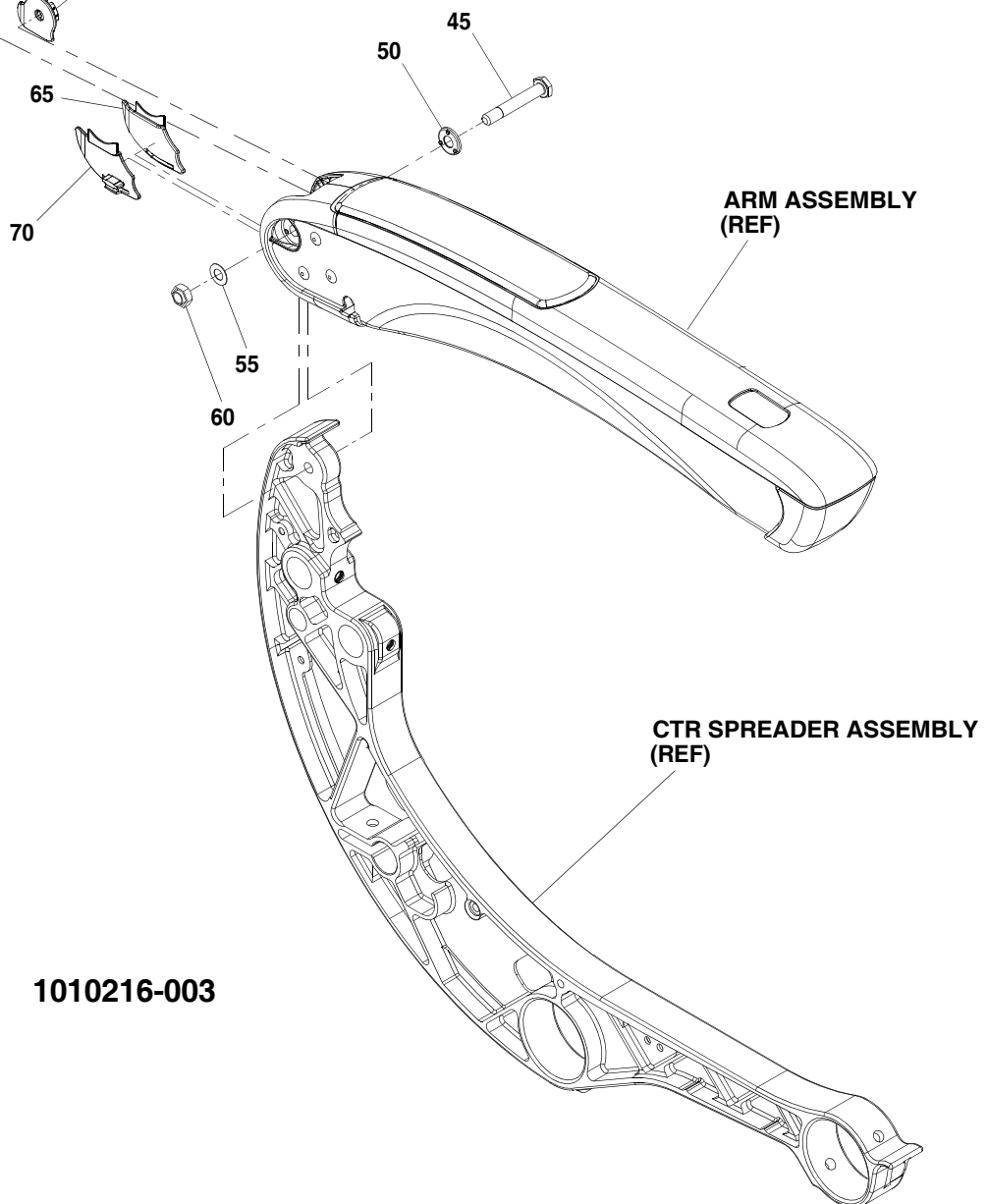
Arm Installation  
IPL Figure 7 (Sheet 1 of 3)



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**SPACER - PIVOT**  
(REF IPL FIG 8, ITEM -40)

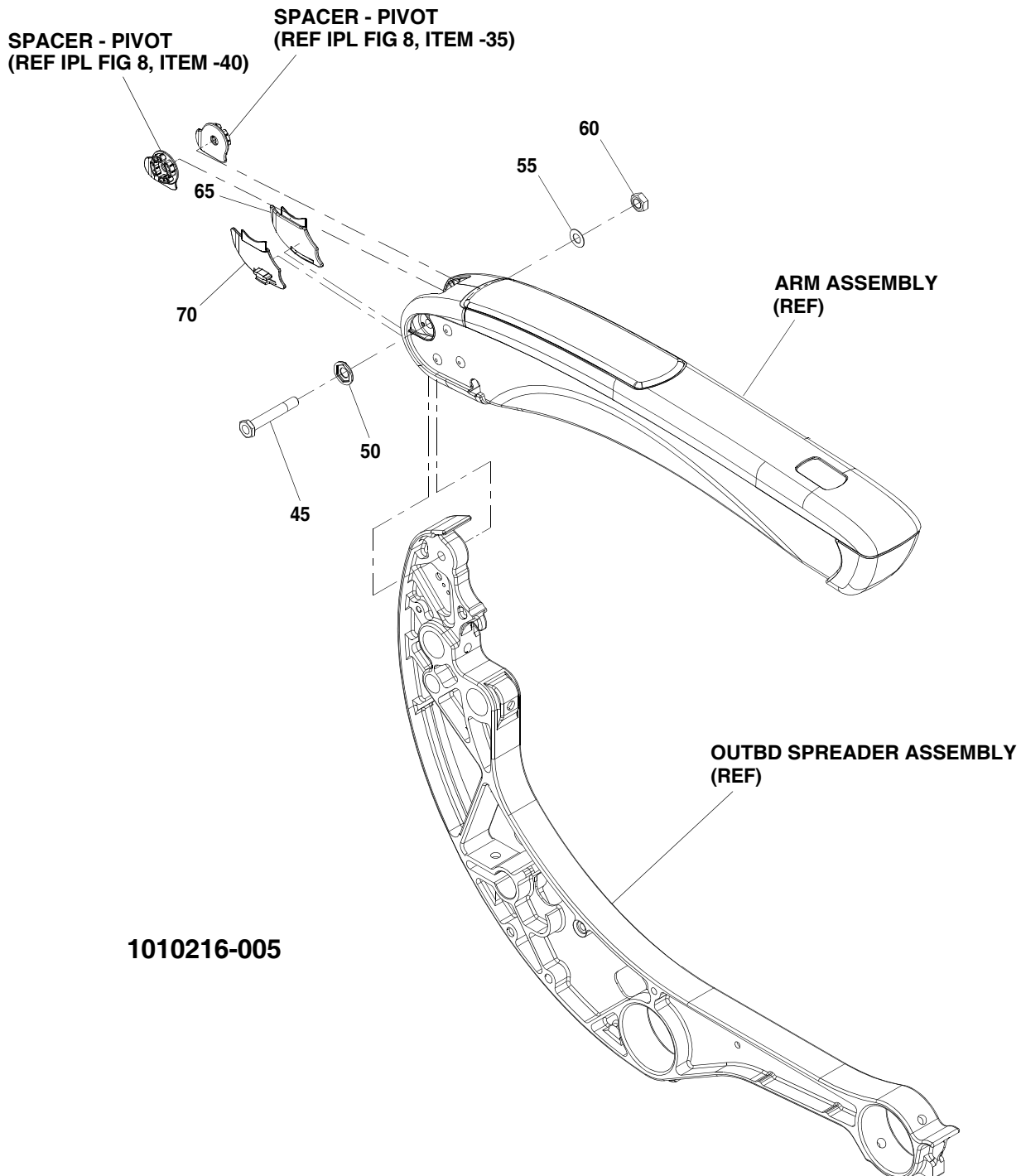
**SPACER - PIVOT**  
(REF IPL FIG 8, ITEM -35)



**1010216-003**

Arm Installation  
IPL Figure 7 (Sheet 2 of 3)

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1010216-005

Arm Installation  
IPL Figure 7 (Sheet 3 of 3)

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
7					
-1	1010216-001KA06 (NP)		Installation - Arm, HCEB (See IPL FIG 1 for NHA)	A	RF
-1A	1010216-002KA06 (NP)		Installation - Arm, HCEB (See IPL FIG 1 for NHA)	B	RF
-1B	1010216-003 (NP)		Installation - Arm See IPL FIG 1 for NHA)	C	RF
-1C	1010216-005 (NP)		Installation - Arm See IPL FIG 1 for NHA)	D	RF
5	1010207-321BHT		• Bracket - Anti-Rotation (Order Separately)  ATTACHING PARTS	AB	1
10	27SR1660240		• Rivet - Snap (Order Separately)  * * *	AB	1
15	1010210-612ACH		• Cap - Arm Pivot (Order Separately)	A	1
-15A	1010210-611ACH		• Cap - Arm Pivot (Order Separately)  ATTACHING PARTS	B	1
20	NAS6604-19		• Bolt - Hex HD (Order Separately)	AB	1
25	NAS1149C0416R		• Washer - Flat (Order Separately)  * * *	AB	1
30	1010210-051KA01		• Latch Assembly - HCEB (Order Separately)  ATTACHING PARTS	AB	1
35	NAS1351-3-24		• Screw (Order Separately)	AB	1
40	NAS679A3W		• Nut - LKG (Order Separately)  * * *	AB	1

- ITEM NOT ILLUSTRATED

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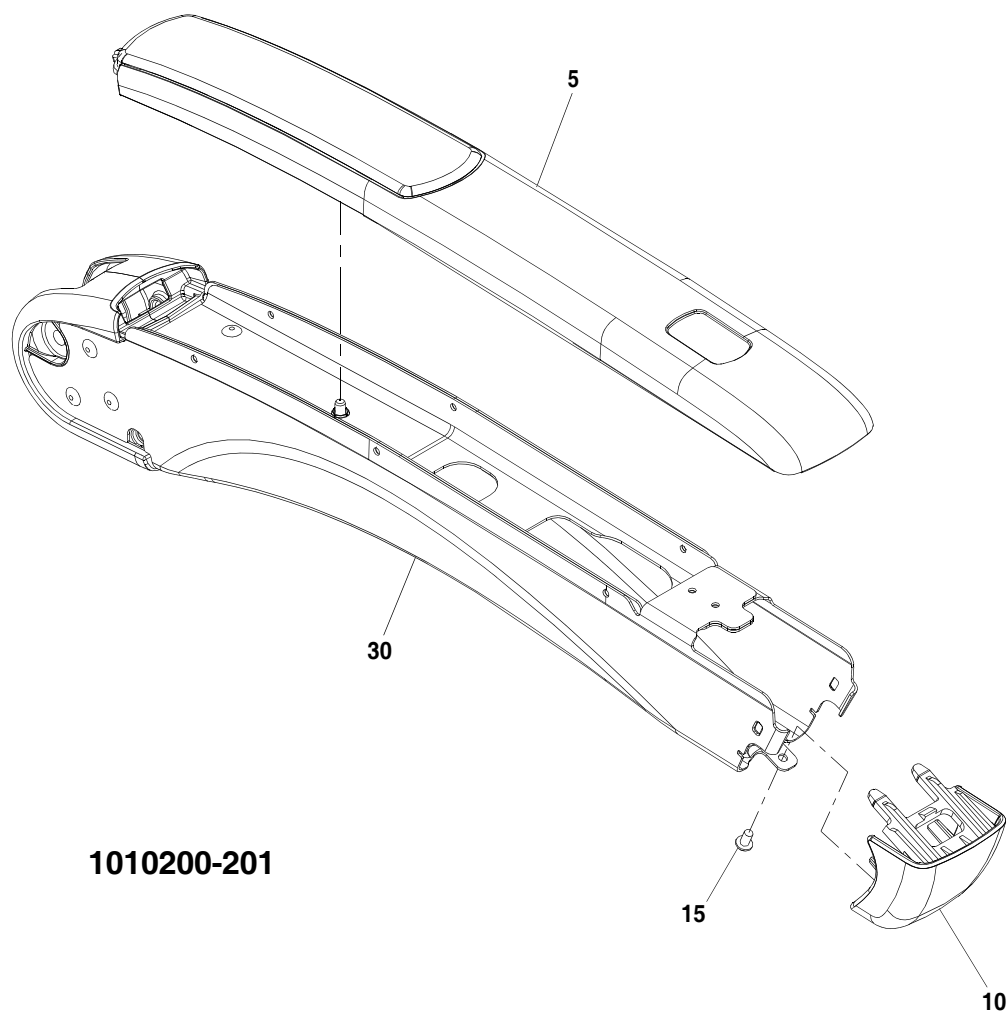
FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
7					
45	NAS6604-20		• Bolt - Hex HD (Order Separately)	CD	1
50	1010210-631		• Washer - Anti Rotation (Order Separately)	CD	1
55	NAS1149C0416R		• Washer - Flat (Order Separately)	CD	1
60	NAS679A4W		• Nut - LKG (Order Separately)	CD	1
65	1010207-307ZXV		• Spacer - Pivot, Lower (Order Separately)		1
70	1010207-308ZXV		• Spacer - Pivot, Lower (Order Separately) * * *		1

- ITEM NOT ILLUSTRATED

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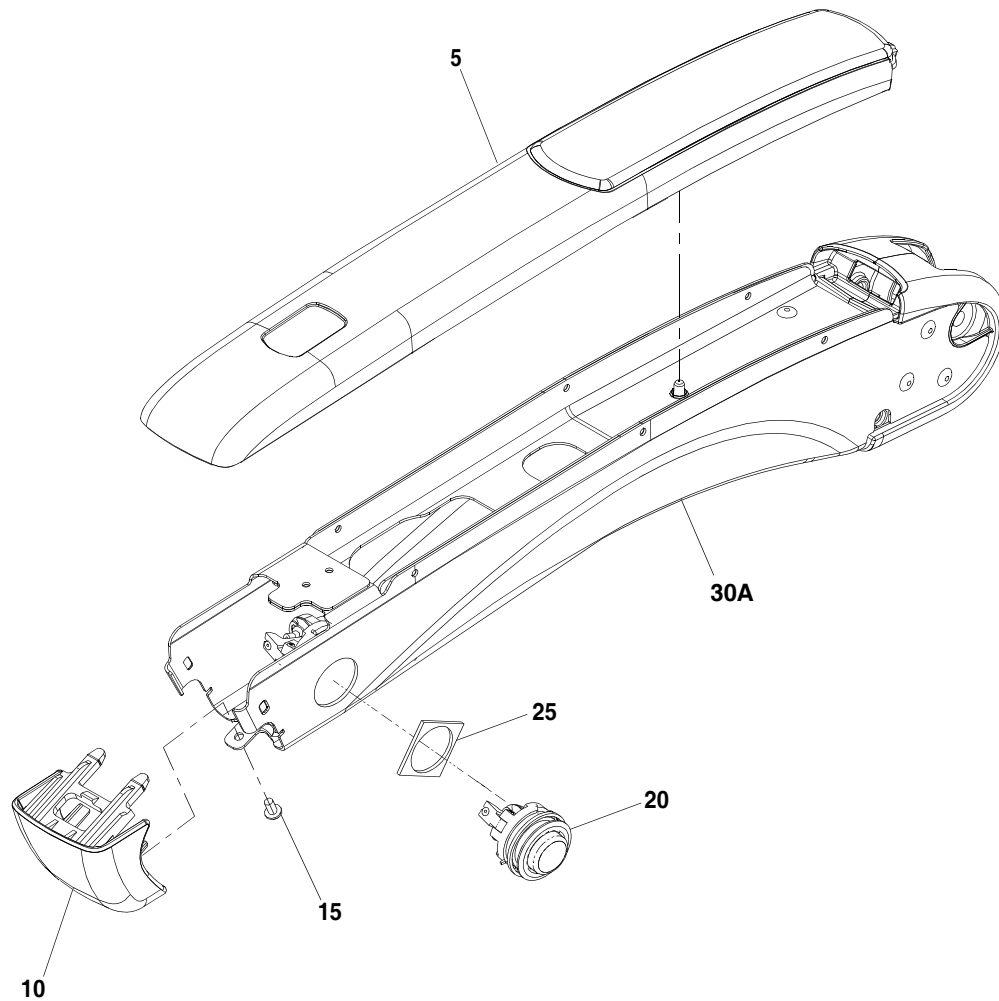
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**1010200-201**

Arm Assembly  
IPL Figure 8 (Sheet 1 of 2)

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**1010200-203**

Arm Assembly  
IPL Figure 8 (Sheet 2 of 2)

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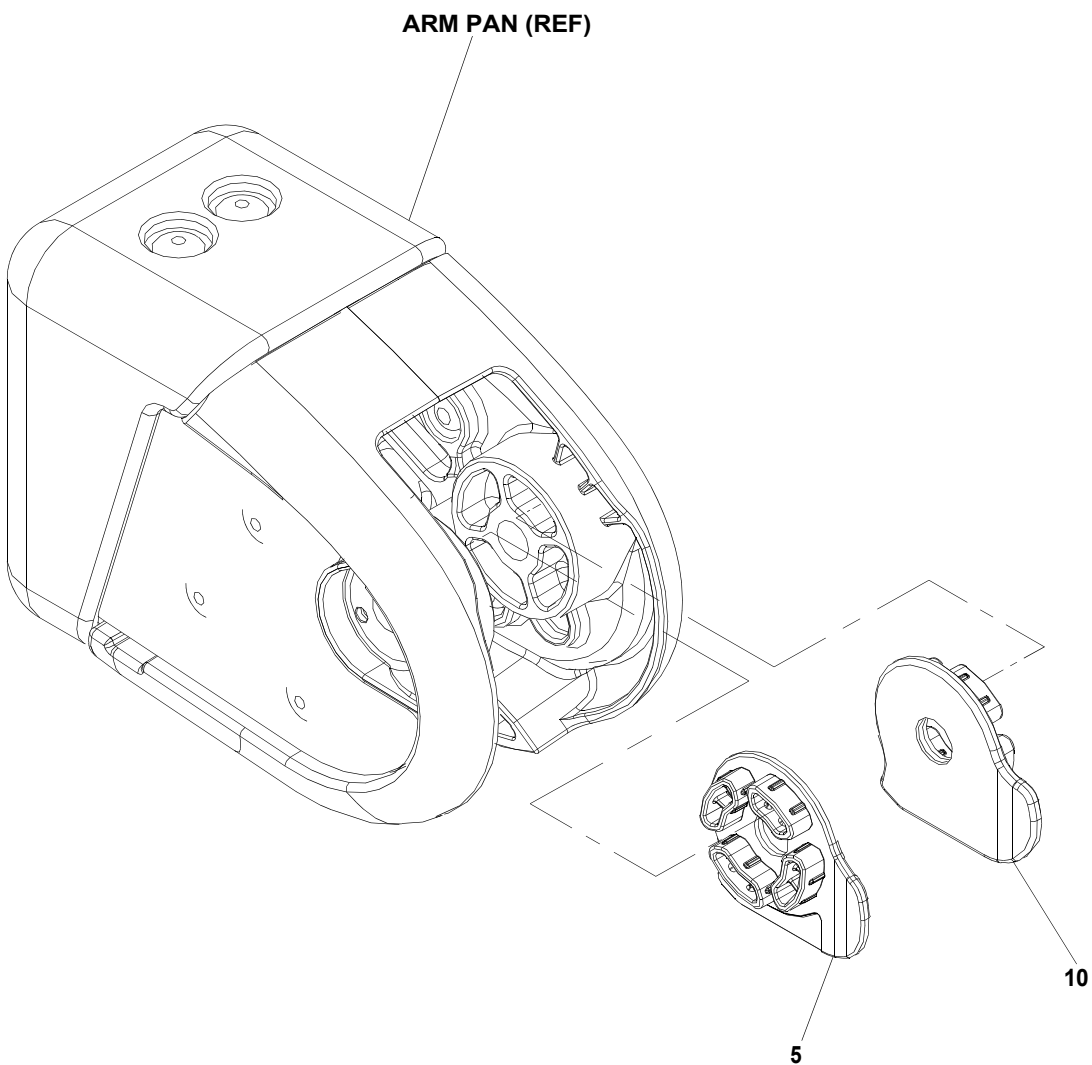


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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
8					
-1	1010200-201KA07		Arm Assembly - Blank, No Placard (See IPL FIG 1 for NHA)	A	RF
-1A	1010200-203KA07		Arm Assembly - Recline, No Placard (See IPL FIG 1 for NHA)	B	RF
-1B	1010200-204KA07		Arm Assembly - Recline, No Placard (See IPL FIG 1 for NHA)	C	RF
5	1024366-311BHU		• Armcap - Escutcheon, Blank		1
10	1010206-301BHU		• Escutcheon - Blank		1
			ATTACHING PARTS		
15	MS35206-226		• Screw - Pan HD		1
			* * *		
20	SP23997C30		• Recline Cable, 30"	BC	1
25	96154011		• Spacer - Recline Control	BC	1
30	1016667-051ACH		• Arm Pan Assembly - Riveted, No Recline	A	1
30A	1016667-053ACH		• Arm Pan Assembly - Riveted, LH Recline	B	1
-30B	1016667-055ACH		• Arm Pan Assembly - Riveted, RH Recline	C	1
-35	1010207-305ZYA		• • Spacer - Pivot (See IPL FIG 9 for INST DET)		1
-40	1010207-306ZYA		• • Spacer - Pivot (See IPL FIG 9 for INST DET)		1
			* * *		

- ITEM NOT ILLUSTRATED

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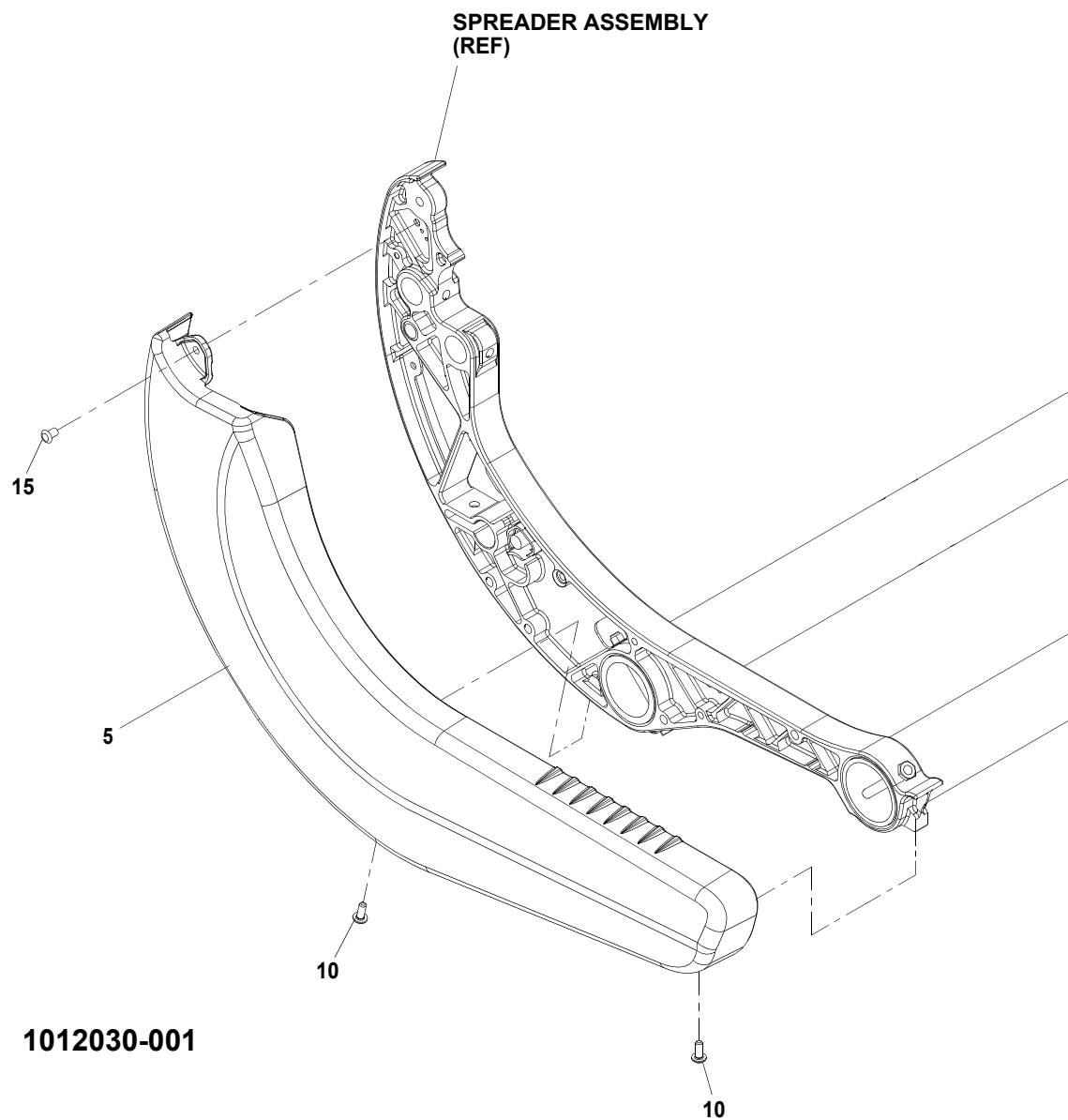
Emergency Exit Arm Pan Assembly  
IPL Figure 9

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
9					
-1	1016667-061ACH		Arm Pan Assembly - Emergency Exit (See IPL FIG 1 for NHA)		RF
5	1010207-305ZYA		• Spacer - Pivot		1
10	1010207-306ZYA		• Spacer - Pivot		1
			* * *		

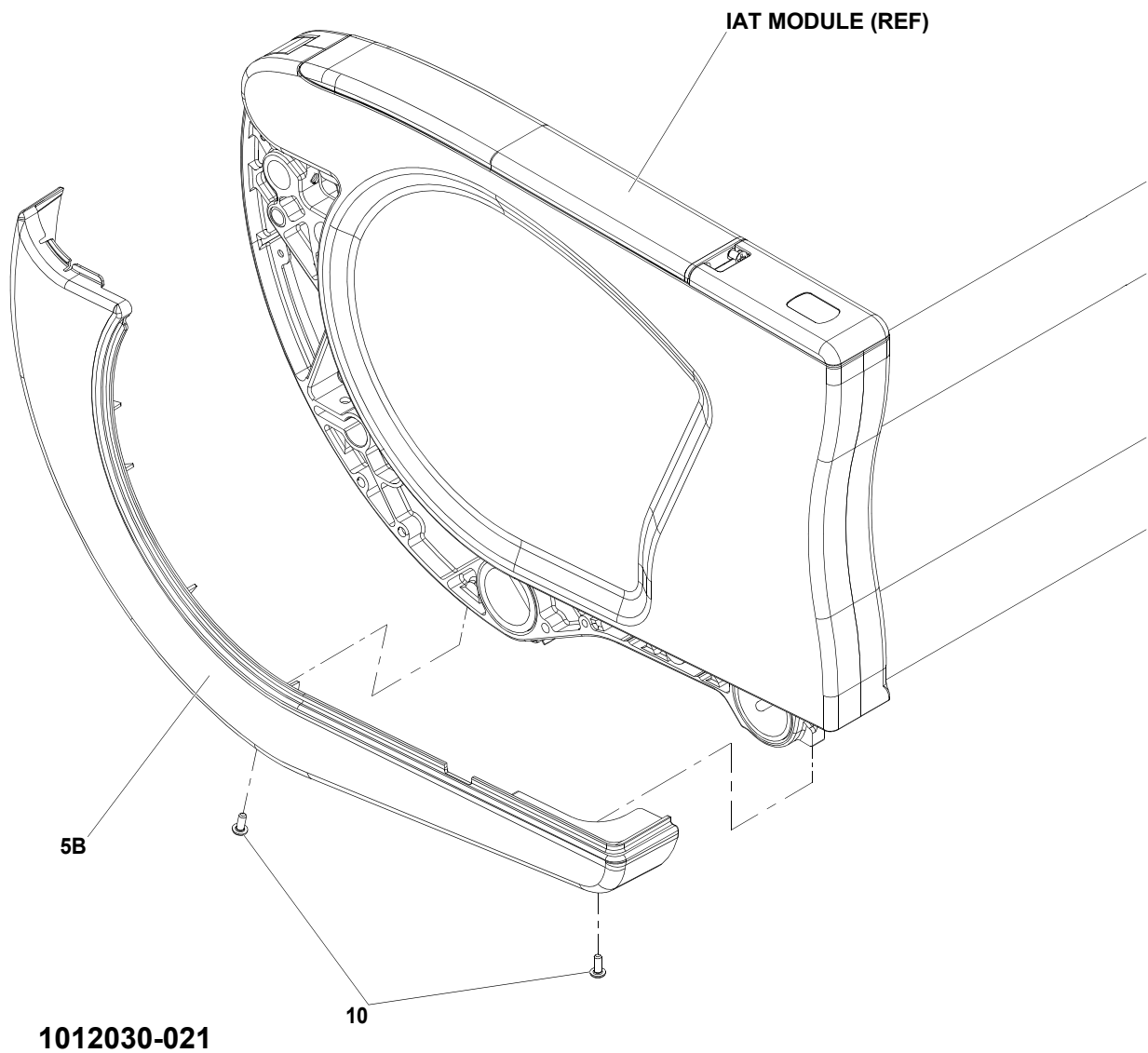
- ITEM NOT ILLUSTRATED

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Endbay Installation  
IPL Figure 10 (Sheet 1 of 2)

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Endbay Installation  
IPL Figure 10 (Sheet 2 of 2)

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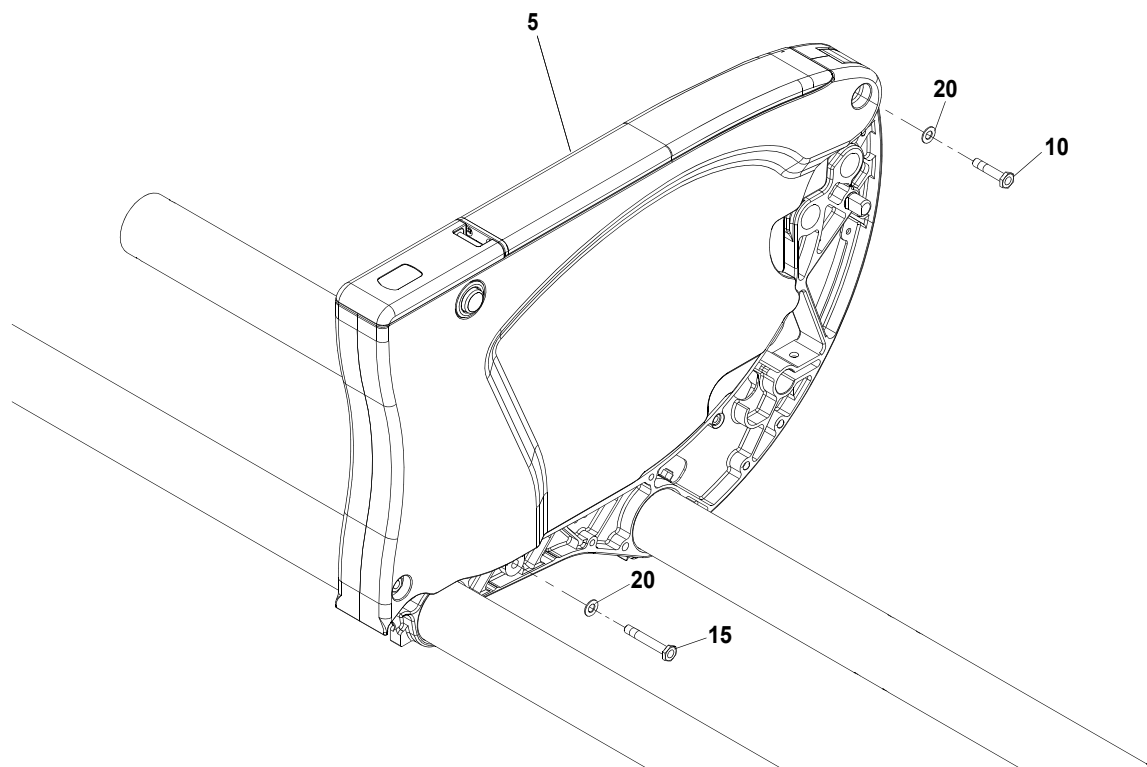
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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
10					
-1	1012030-001KA06 (NP)		Installation - Endbay, STD (See IPL FIG 1 for NHA)	A	RF
-1A	1012030-002KA06 (NP)		Installation - Endbay, STD (See IPL FIG 1 for NHA)	B	RF
-1B	1012030-021KA06 (NP)		Installation - Endbay, Front Row (See IPL FIG 1 for NHA)	C	RF
-1C	1012030-022KA06 (NP)		Installation - Endbay, Front Row (See IPL FIG 1 for NHA)	D	RF
5	1010210-301BHW		• Bumper - Endbay (Order Separately)	A	1
-5A	1010210-302BHW		• Bumper - Endbay (Order Separately)	B	1
5B	1010210-321BHW		• Bumper - Endbay, Front Row (Order Separately)	C	1
-5C	1010210-322BHW		• Bumper - Endbay, Front Row (Order Separately)	D	1
			ATTACHING PARTS		
10	MS27039-1-07		• Screw - Pan HD (Order Separately)		2
15	27SR2000370		• Rivet - Snap (Order Separately)	AB	1
			* * *		

- ITEM NOT ILLUSTRATED

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IAT Module Installation  
IPL Figure 11

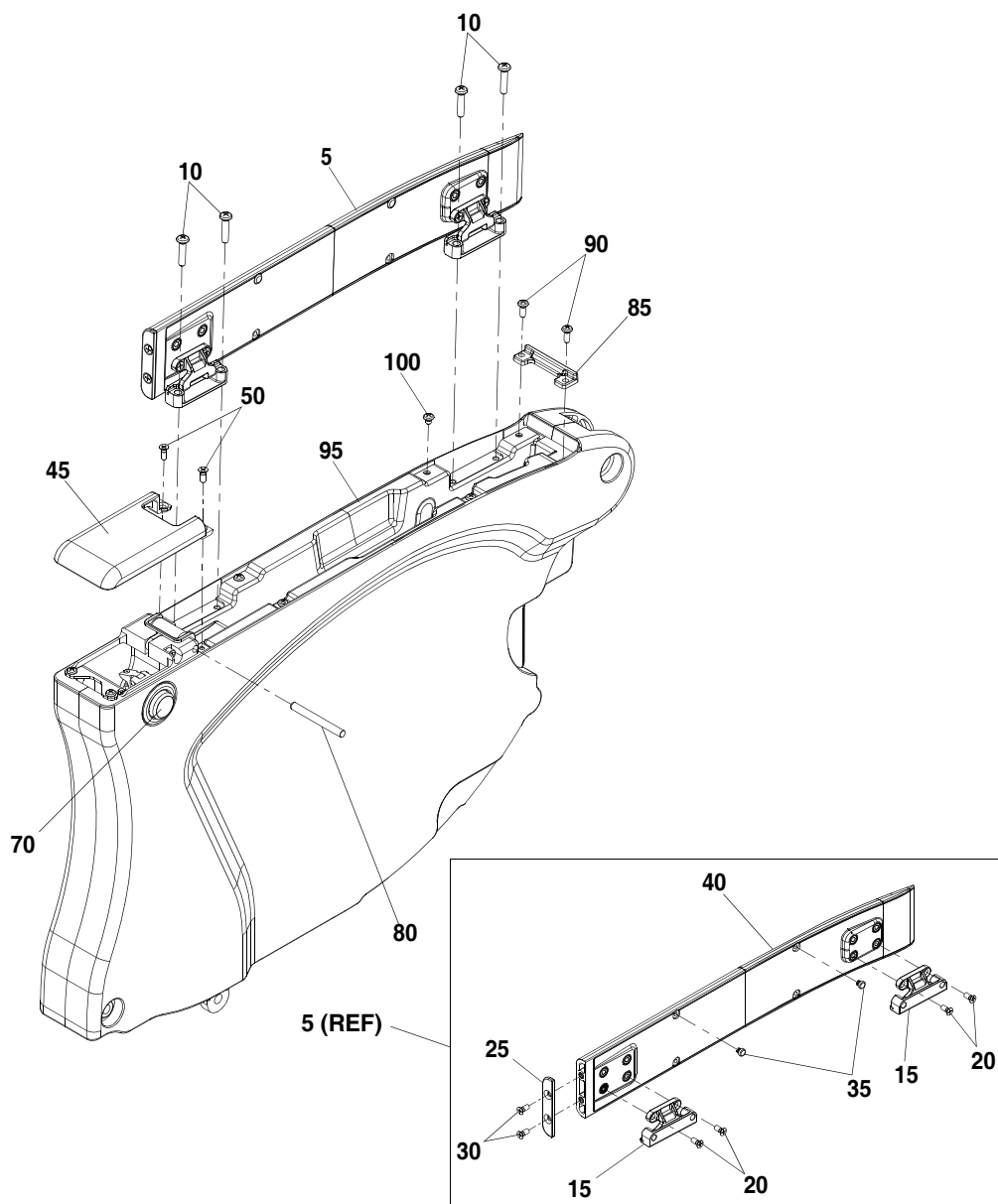


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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
11					
-1	1012045-001 (NP)		Installation - IAT Module (See IPL FIG 1 for NHA)		RF
5	1014921-001KA06		IAT Module - Blank (See IPL FIG 1 for NHA) (See IPL FIG 12 for DET BKDN)		RF
-5A	1014921-002KA06		IAT Module - Blank (See IPL FIG 1 for NHA) (See IPL FIG 12 for DET BKDN)		RF
-5B	1014921-003KA06		IAT Module - Blank (See IPL FIG 1 for NHA) (See IPL FIG 12 for DET BKDN)		RF
-5C	1014921-004KA06		IAT Module - Blank (See IPL FIG 1 for NHA) (See IPL FIG 12 for DET BKDN)		RF
			ATTACHING PARTS		
10	NAS6604-12		• Bolt - Hex HD (Order Separately)		1
15	NAS6604-19		• Bolt - Hex HD (Order Separately)		1
20	NAS1149C0432R		• Washer - Flat (Order Separately)		2
			* * *		

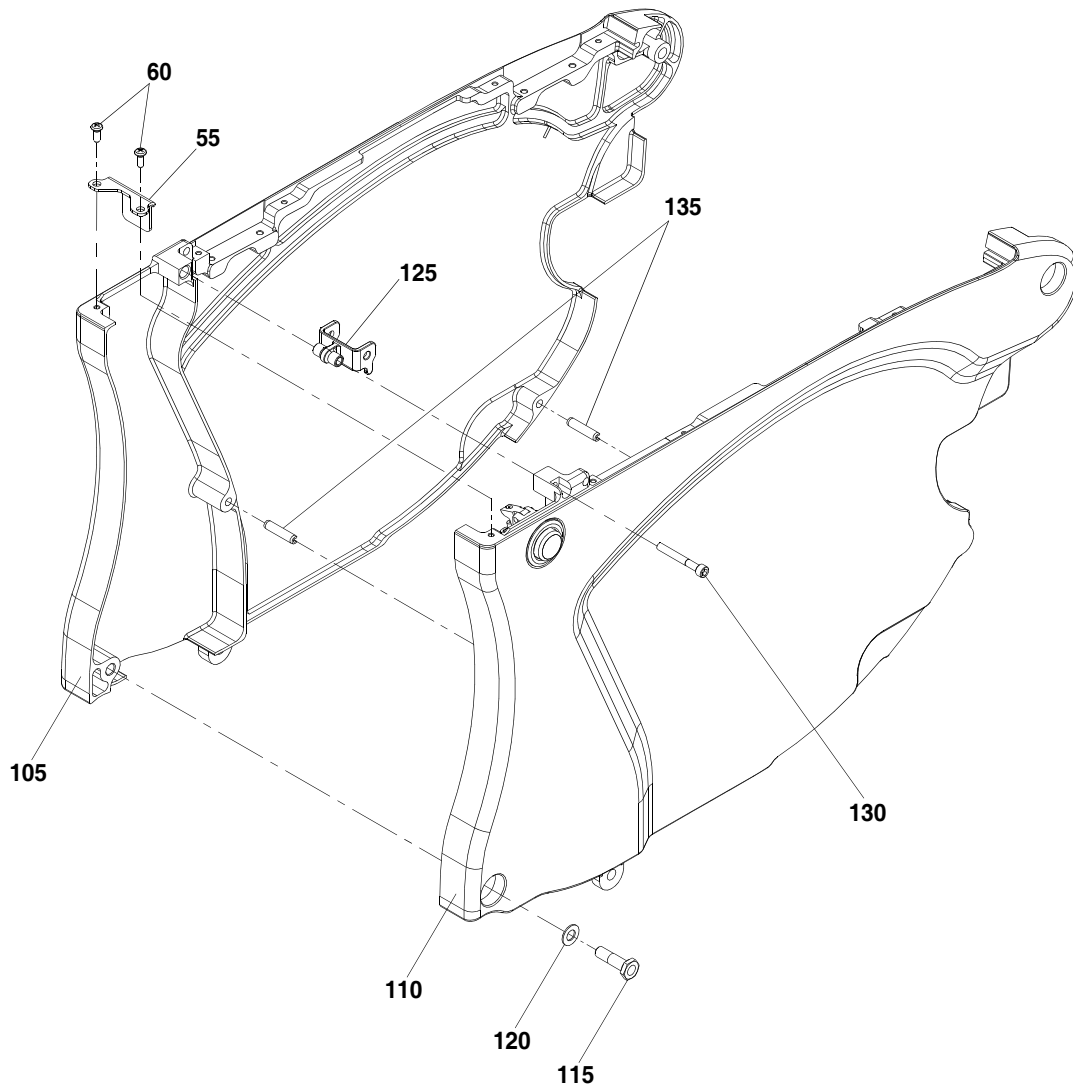
- ITEM NOT ILLUSTRATED

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IAT Module Assembly  
IPL Figure 12 (Sheet 1 of 2)

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IAT Module Assembly  
IPL Figure 12 (Sheet 2 of 2)

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
12					
-1	1014921-001KA06		IAT Module - Blank (See IPL FIG 1 for NHA)	A	RF
-1A	1014921-002KA06		IAT Module - Blank (See IPL FIG 1 for NHA)	B	RF
-1B	1014921-003KA06		IAT Module - Blank (See IPL FIG 1 for NHA)	C	RF
-1C	1014921-004KA06		IAT Module - Blank (See IPL FIG 1 for NHA)	D	RF
5	1012042-071KA02		• Armcap Assembly - IAT	AC	1
-5A	1012042-072KA02		• Armcap Assembly - IAT	BD	1
			ATTACHING PARTS		
10	MS27039-0811		• Screw - Pan HD		4
			* * *		
15	1012042-055		• • Hinge Assembly - Armcap, IAT		2
			ATTACHING PARTS		
20	NPS24693S25 (REF)		• • Screw - CSK (True P/N is NPS24693-S25)		2
			* * *		
25	1012042-125		• • Endcap - Armcap, IAT		1
			ATTACHING PARTS		
30	NPS24693S25 (REF)		• • Screw - CSK (True P/N is NPS24693-S25)		2
			* * *		
35	409615		• • Bumper - Grommet (Apply Loctite™-454) (Excess adhesive is not allowed)		2
40	1012042-063KA02		• • Armcap Assembly - Welded, IAT		1
45	1012042-149		• Escutcheon - IAT		1

- ITEM NOT ILLUSTRATED

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
12					
			ATTACHING PARTS		
50	NAS514P632-6		<ul style="list-style-type: none"> <li>Screw - CSK</li> </ul> <p style="text-align: center;">* * *</p>		2
55	1012042-201		<ul style="list-style-type: none"> <li>Bracket - RJU Mount, IAT</li> </ul> <p style="text-align: center;">ATTACHING PARTS</p>		1
60	NAS601-6		<ul style="list-style-type: none"> <li>Screw - Pan HD</li> </ul> <p style="text-align: center;">* * *</p>		2
-65	SP23997C27		<ul style="list-style-type: none"> <li>Recline Cable - 27"</li> </ul>		1
70	SP21651B		<ul style="list-style-type: none"> <li>• Button - Recline (Order Separately)</li> </ul>		1
-75	1014072-001KA06		<ul style="list-style-type: none"> <li>In-Arm Foodtray Assembly (See IPL FIG 13 for DET BKDN)</li> </ul>	AC	1
-75A	1014072-002KA06		<ul style="list-style-type: none"> <li>In-Arm Foodtray Assembly (See IPL FIG 13 for DET BKDN)</li> </ul> <p style="text-align: center;">ATTACHING PARTS</p>	BD	1
80	NAS607-3-14		<ul style="list-style-type: none"> <li>Pin - Dowel</li> </ul> <p style="text-align: center;">* * *</p>		1
85	1014071-317ZZS		<ul style="list-style-type: none"> <li>Striker Plate - IAT Foodtray, Molded</li> </ul> <p style="text-align: center;">ATTACHING PARTS</p>		1
90	NAS601-6		<ul style="list-style-type: none"> <li>Screw - Pan HD</li> </ul> <p style="text-align: center;">* * *</p>		2
95	1012043-001KA01		<ul style="list-style-type: none"> <li>Liner Assembly - IAT</li> </ul>	AC	1
-95A	1012043-002KA01		<ul style="list-style-type: none"> <li>Liner Assembly - IAT</li> </ul> <p style="text-align: center;">ATTACHING PARTS</p>	BD	1
100	NAS601-3		<ul style="list-style-type: none"> <li>Screw - Pan HD</li> </ul> <p style="text-align: center;">* * *</p>		4

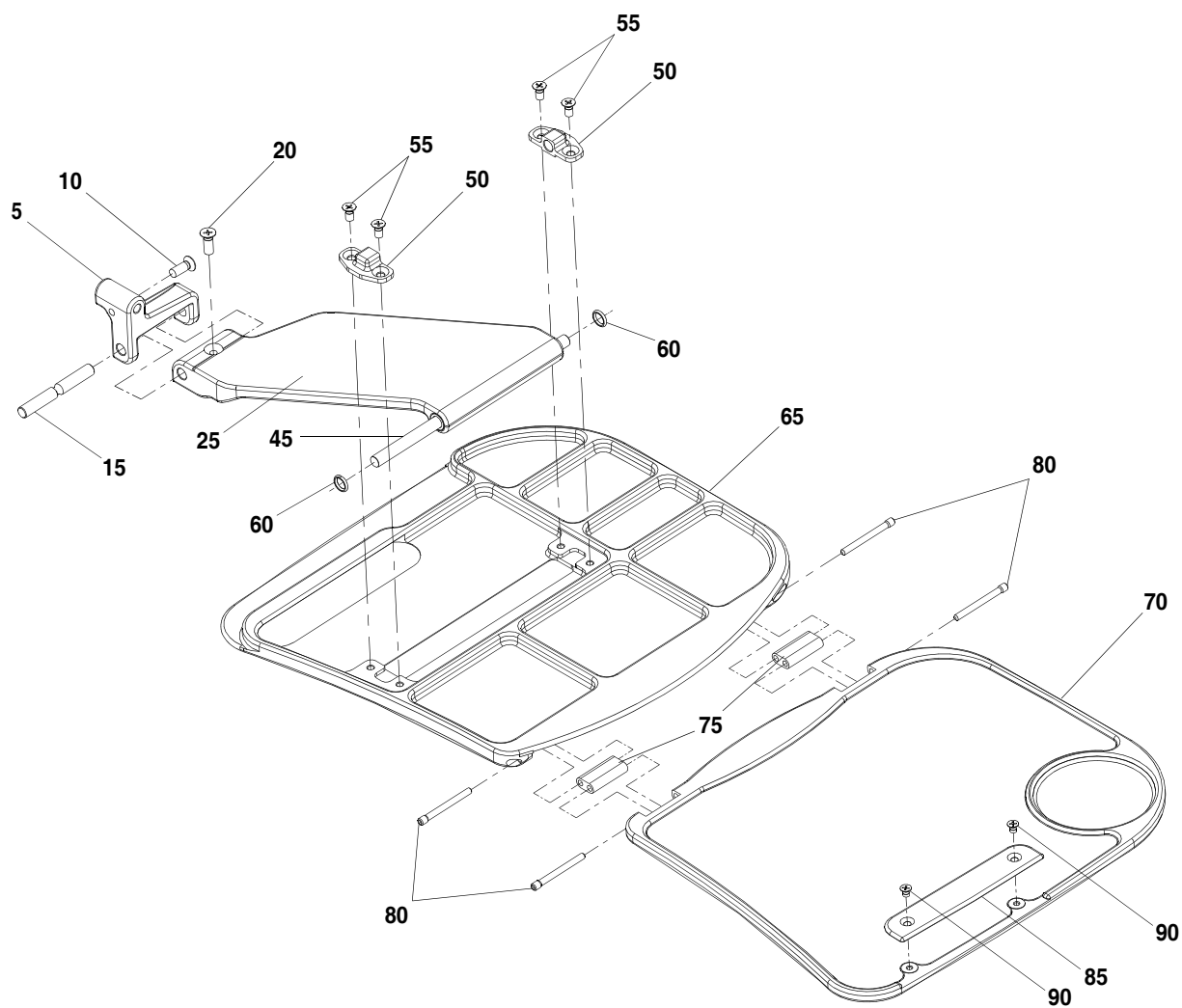
- ITEM NOT ILLUSTRATED

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
12					
105	1014922-152ACH		• IAT Module - Center, Blank	A	1
-105A	1014922-151ACH		• IAT Module - Center, Blank	B	1
-105B	1014922-156ACH		• IAT Module - Aisle, Blank	C	1
-105C	1014922-155ACH		• IAT Module - Aisle, Blank	D	1
110	1014922-161ACH		• IAT Module - Center, Blank	AC	1
-110A	1014922-162ACH		• IAT Module - Center, Blank	BD	1
			ATTACHING PARTS		
115	NAS6604-8		• Bolt - Hex HD		1
120	NAS1149C0432R		• Washer - Flat		1
125	1012787-105		• Adapter - IAT Module		1
130	NAS1352-08-20		• Screw - Socket HD (Black)		1
135	MS16562-49		• Spring Pin		2
			* * *		

- ITEM NOT ILLUSTRATED

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In-Arm Foodtray Assembly  
IPL Figure 13



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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
13					
-1	1014072-001KA06		In-Arm Foodtray Assembly (See IPL FIG 12 for NHA)	A	RF
-1A	1014072-002KA06		In-Arm Foodtray Assembly (See IPL FIG 12 for NHA)	B	RF
5	1014071-107		• Pivot - IAT, Main Hinge	A	1
-5A	1014071-108		• Pivot - IAT, Main Hinge	B	1
			ATTACHING PARTS		
10	NPS24693S272 (REF)		• Screw - CSK (True P/N is NPS24693-S272)		1
15	1014071-109		• Pin - Link, Foodtray		1
			* * *		
20	NPS24693S272 (REF)		• Screw - CSK (True P/N is NPS24693-S272)		1
25	1014071-051		• Paddle Arm Assembly - IAT	A	1
-25A	1014071-052		• Paddle Arm Assembly - IAT	B	1
-30	1014071-101		• • Paddle Arm - IAT	A	1
-30A	1014071-102		• • Paddle Arm - IAT	B	1
-35	48231303		• • Cap - Slide (Bond to Item -30 Using Acrylic Tape- 01001432)		1
-40	JSI0406-12 (REF)		• • Bearing (True P/N is JSI-0406-12)		2
45	1012042-111		• Rod - IAT Slide		1
50	1014071-111		• Mount - IAT Slide Rod		2
			ATTACHING PARTS		
55	NPS24693S47 (REF)		• Screw - CSK (True P/N is NPS24693-S47)		4
60	DB01-009		• Dixie Bearing / O-Ring		2
			* * *		

- ITEM NOT ILLUSTRATED

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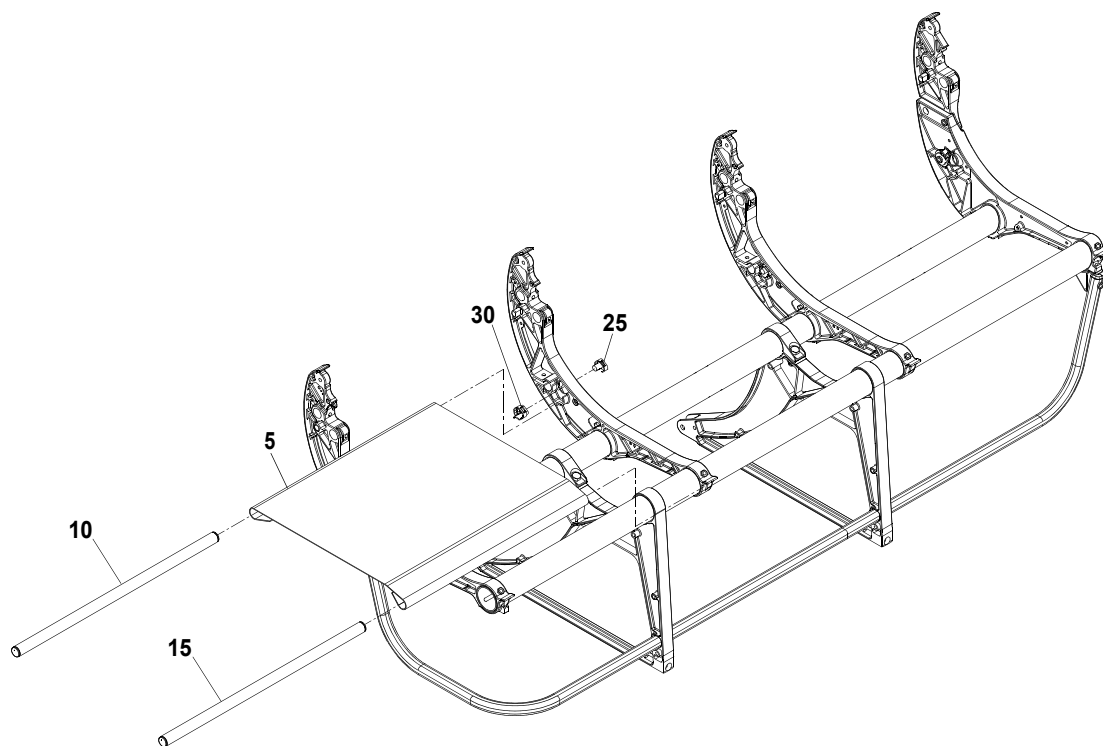
FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
13					
65	1014071-053KA06		• Foodtray Leaf Assembly - IAT Inner	A	1
-65A	1014071-054KA06		• Foodtray Leaf Assembly - IAT Inner	B	1
70	1014071-055KA06		• Foodtray Leaf Assembly - IAT Outer	A	1
-70A	1014071-056KA06		• Foodtray Leaf Assembly - IAT Outer	B	1
			ATTACHING PARTS		
75	47000283		• Hinge - Foodtray Leaf		2
80	1012042-115		• Hinge Pin - Foodtray Leaf (Apply Loctite™-222) (Apply AD-RTVR-T silicone to head of hinge pin after assembly)  * * *		4
85	1014071-315BHW		• Side Pad - IAT		1
			ATTACHING PARTS		
90	MS24693C23 (REF)		• Screw - CSK (True P/N isMS24693-C23)  * * *		2

- ITEM NOT ILLUSTRATED

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Diaphragm Installation  
IPL Figure 14

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
14					
-1	1012766-001KA01 (NP)		Installation - Diaphragm, Bottom (See IPL FIG 1 NHA)	A	RF
-1A	1012766-005KA01 (NP)		Installation - Diaphragm, Bottom (See IPL FIG 1 NHA)	B	RF
-1B	1012766-021KA01 (NP)		Installation - Diaphragm, Bottom (See IPL FIG 1 NHA)	C	RF
-1C	1012766-025KA01 (NP)		Installation - Diaphragm, Bottom (See IPL FIG 1 NHA)	D	RF
-1D	1012766-045KA01 (NP)		Installation - Diaphragm, Bottom, AN79 (See IPL FIG 1 NHA)	E	RF
-1E	1012766-065KA01 (NP)		Installation - Diaphragm, Bottom, AN79 (See IPL FIG 1 NHA)	F	RF
5	1012386-001		• Diaphragm - Bottom (Order Separately)	A	1
-5A	1012386-005		• Diaphragm - Bottom (Order Separately)	B	1
-5B	1012386-021		• Diaphragm - Bottom, OUTBD (Order Separately)	C	1
-5C	1012386-025		• Diaphragm - Bottom, OUTBD (Order Separately)	D	1
-5D	1012771-005		• Diaphragm - Bottom, AN79 (Order Separately)	E	1
-5E	1012771-021		• Diaphragm - Bottom, AN79 OUTBD (Order Separately)	F	1
10	1013580-001		• Diaphragm Tube (Order Separately)	A	1
-10A	1013580-005		• Diaphragm Tube (Order Separately)	BE	1
-10B	1013580-021		• Diaphragm Tube (Order Separately)	C	1
-10C	1013580-025		• Diaphragm Tube (Order Separately)	D	1
-10D	1013580-065		• Diaphragm Tube (Order Separately)	F	1
15	1004147-005		• Tube - Carbon Bottom Support (Order Separately)	A	1

- ITEM NOT ILLUSTRATED

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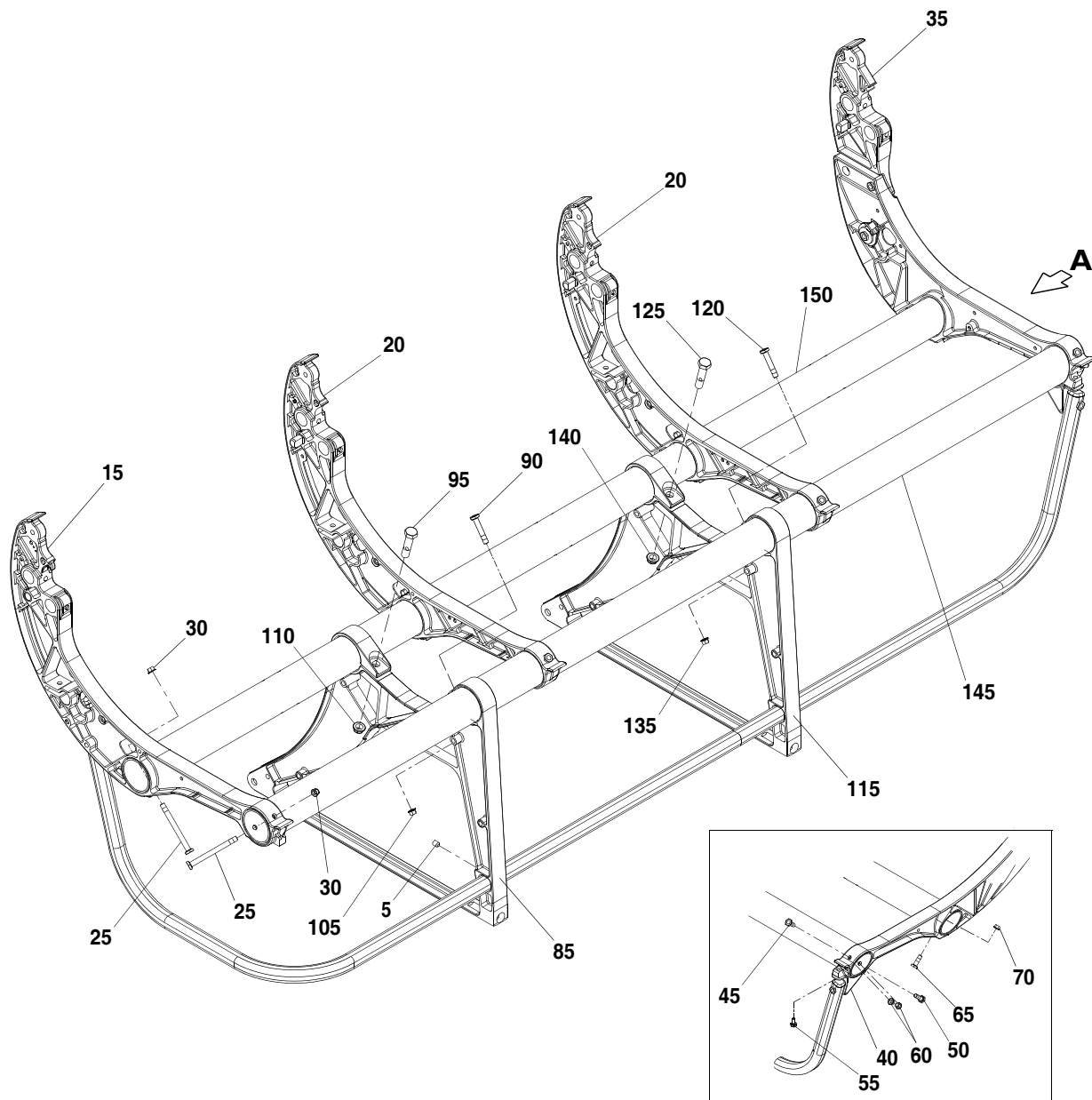
FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
14					
-15A	1004147-003		• Tube - Carbon Bottom Support (Order Separately)	BE	1
-15B	1004147-023		• Tube - Carbon Bottom Support (Order Separately)	C	1
-15C	1004147-059		• Tube - Carbon Bottom Support (Order Separately)	D	1
-15D	1004147-007		• Tube - Carbon Bottom Support (Order Separately)	F	1
-20	1003105-305AXX		• Stiffener - Bottom Diaphragm, AN79 (Order Separately)	EF	2
25	1013475-001KA01		• Retainer Assembly - Diaphragm Tube (Order Separately)		1
30	1013475-301BHT		• Retainer - Diaphragm Tube (Order Separately)		1
			* * *		

- ITEM NOT ILLUSTRATED

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**DETAIL A**

Frame Assembly  
IPL Figure 15



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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
15					
-1	1011432-001KA01		Frame Assembly (See IPL FIG 1 for NHA)	A	RF
-1A	1011432-002KA01		Frame Assembly (See IPL FIG 1 for NHA)	B	RF
-1B	1011432-003KA01		Frame Assembly (See IPL FIG 1 for NHA)	C	RF
-1C	1011432-004KA01		Frame Assembly (See IPL FIG 1 for NHA)	D	RF
-1D	1011432-005KA01		Frame Assembly (See IPL FIG 1 for NHA)	E	RF
-1E	1011432-006KA01		Frame Assembly (See IPL FIG 1 for NHA)	F	RF
-1F	1011432-007KA01		Frame Assembly (See IPL FIG 1 for NHA)	G	RF
-1G	1011432-008KA01		Frame Assembly (See IPL FIG 1 for NHA)	H	RF
-1H	1011432-009KA01		Frame Assembly (See IPL FIG 1 for NHA)	J	RF
-1J	1011432-010KA01		Frame Assembly (See IPL FIG 1 for NHA)	K	RF
-1K	1011432-103KA01		Frame Assembly (See IPL FIG 1 for NHA)	L	RF
-1L	1011432-104KA01		Frame Assembly (See IPL FIG 1 for NHA)	M	RF
5	NAS1081-4A5P		• Set Screw (Used To Secure Baggage Bar Assembly To Leg Assembly)		2
-10	1012370-011KA01 (NP)		• Installation - Baggage Bar, STD (See IPL FIG 16 for DET BKDN)	A	1
-10A	1012370-012KA01 (NP)		• Installation - Baggage Bar, STD (See IPL FIG 16 for DET BKDN)	B	1
-10B	1012370-013KA01 (NP)		• Installation - Baggage Bar, Narrow (See IPL FIG 16 for DET BKDN)	C	1
-10C	1012370-014KA01 (NP)		• Installation - Baggage Bar, Narrow (See IPL FIG 16 for DET BKDN)	D	1
-10D	1012370-015KA01 (NP)		• Installation - Baggage Bar, Narrow (See IPL FIG 16 for DET BKDN)	E	1

- ITEM NOT ILLUSTRATED

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
15					
-10E	1012370-016KA01 (NP)		• Installation - Baggage Bar, Narrow (See IPL FIG 16 for DET BKDN)	F	1
-10F	1012370-017KA01 (NP)		• Installation - Baggage Bar, Narrow (See IPL FIG 16 for DET BKDN)	G	1
-10G	1012370-018KA01 (NP)		• Installation - Baggage Bar, Narrow (See IPL FIG 16 for DET BKDN)	H	1
-10H	1012370-021KA01 (NP)		• Installation - Baggage Bar, Exit (See IPL FIG 16 for DET BKDN)	J	1
-10J	1012370-022KA01 (NP)		• Installation - Baggage Bar, Exit (See IPL FIG 16 for DET BKDN)	K	1
-10K	1012370-019KA01 (NP)		• Installation - Baggage Bar, Narrow (See IPL FIG 16 for DET BKDN)	L	1
-10L	1012370-020KA01 (NP)		• Installation - Baggage Bar, Narrow (See IPL FIG 16 for DET BKDN)	M	1
15	1012026-058		• Spreader Assembly - RH (INBD) (See IPL FIG 17 for DET BKDN)	ACEGJ	1
-15A	1012026-057		• Spreader Assembly - LH (INBD) (See IPL FIG 17 for DET BKDN)	BDFHK	1
-15B	1012026-064		• Spreader Assembly - RH, Front Row (INBD) (See IPL FIG 17 for DET BKDN)	L	1
-15C	1012026-063		• Spreader Assembly - LH, Front Row (INBD) (See IPL FIG 17 for DET BKDN)	M	1
20	1012026-053		• Spreader Assembly - STD (CTR-INBD and CTR-OUTBD) (See IPL FIG 17 for DET BKDN)	A-K	2
-20A	1012026-061		• Spreader Assembly - Front Row (CTR-INBD and CTR-OUTBD) (See IPL FIG 17 for DET BKDN)	LM	2
			ATTACHING PARTS		
25	NAS6604-36		• Bolt - Hex HD (Torque to 10-12 FT-LB)		2
30	MS21042-4		• Nut - Hex, LKG		2
			* * *		
35	1012027-059		• Spreader Assembly - LH (Canted) (See IPL FIG 18 for DET BKDN)	ACEGL	1

- ITEM NOT ILLUSTRATED

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
15					
-35A	1012027-060		• Spreader Assembly - RH (Canted) (See IPL FIG 18 for DET BKDN)	BDFHM	1
-35B	1012027-061		• Spreader Assembly - LH, Exit Row (Canted) (See IPL FIG 18 for DET BKDN)	J	1
-35C	1012027-062		• Spreader Assembly - RH, Exit Row (Canted) (See IPL FIG 18 for DET BKDN)	K	1
40	1012063-203		• Bracket - Restraint	ACEGJL	1
-40A	1012063-204		• Bracket - Restraint	BDFHKM	1
			ATTACHING PARTS		
45	NAS6604-2		• Bolt - Hex HD (Torque to 10-12 FT-LB)		1
50	NAS6604-5		• Bolt - Hex HD (Torque to 10-12 FT-LB)	A-K	1
-50A	NAS6604-7		• Bolt - Hex HD (Torque to 10-12 FT-LB)	L-M	1
55	NAS6603-1		• Bolt - Hex HD		1
60	MS21042-4		• Nut - Cap, LKG		2
65	NAS6605-6		• Bolt - Hex HD (Torque to 20-25 FT-LB)	A-K	1
-65A	NAS6605-8		• Bolt - Hex HD (Torque to 20-25 FT-LB)	LM	1
70	MS21042-5		• Nut - Cap, LKG		1
			* * *		
-75	1013475-001KA01		• Retainer Assembly - Diaphragm Tube		1
-80	1013475-301BHT		• Retainer - Diaphragm Tube		1
85	1012022-007		• Leg Assembly - Straight (INBD) (See IPL FIG 19 for DET BKDN)	A-K	1
-85A	1012022-003		• Leg Assembly - Straight (INBD) (See IPL FIG 19 for DET BKDN)	LM	1
			ATTACHING PARTS		
90	NAS6604-10		• Bolt - Hex HD (Torque to 7-10 FT-LB) (Part of Item 85)	A-K	1

- ITEM NOT ILLUSTRATED

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
15					
-90A	NAS6604-15		• Bolt - Hex HD (Torque to 7-10 FT-LB) (Part of Item -85A)	LM	1
95	NAS6606-11		• Bolt - Hex HD (Torque to 20-25 FT-LB) (Part of Item 85)	A-K	1
-95A	NAS6606-15		• Bolt - Hex HD (Torque to 20-25 FT-LB) (Part of Item -85A)	LM	1
-100	1011008-117		• Washer - Leg (Part of Item -85A)	LM	1
105	MS21042-4		• Nut - Hex, LKG (Part of Items 85 and -85A)		1
110	MS21042-6		• Nut - Hex, LKG (Part of Items 85 and -85A)  * * *		1
115	1012022-007		• Leg Assembly - Straight (OUTBD) (See IPL FIG 19 for DET BKDN)	A-DG-K	1
-115A	1012022-027		• Leg Assembly - Offset, LH (OUTBD) (See IPL FIG 19 for DET BKDN)	E	1
-115B	1012022-028		• Leg Assembly - Offset, RH (OUTBD) (See IPL FIG 19 for DET BKDN)	F	1
-115C	1012022-003		• Leg Assembly - Straight (OUTBD) (See IPL FIG 19 for DET BKDN)  ATTACHING PARTS	LM	1
120	NAS6604-10		• Bolt - Hex HD (Torque to 7-10 FT-LB) (Part of Item 115)	A-DG-K	1
-120A	NAS6604-12		• Bolt - Hex HD (Torque to 7-10 FT-LB) (Part of Items -115A and -115B)	EF	1
-120B	NAS6604-15		• Bolt - Hex HD (Torque to 7-10 FT-LB) (Part of Item -115C)	LM	1
125	NAS6606-11		• Bolt - Hex HD (Torque to 20-25 FT-LB) (Part of Item 115)	A-DG-K	1

- ITEM NOT ILLUSTRATED

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
15					
-125A	NAS6606-15		• Bolt - Hex HD (Torque to 20-25 FT-LB) (Part of Items -115A thru -115C)	EFLM	1
-130	1011008-117		• Washer - Leg (Part of Item -115C)	LM	1
135	MS21042-4		• Nut - Hex, LKG (Part of Items 115 thru -115C)		1
140	MS21042-6		• Nut - Hex, LKG (Part of Items 115 thru -115C)  * * *		1
145	1012772-101		• Beam - Stretch, Front	A	1
-145A	1012772-102		• Beam - Stretch, Front	B	1
-145B	1012772-105		• Beam - Stretch, Front	C	1
-145C	1012772-106		• Beam - Stretch, Front	D	1
-145D	1012772-109		• Beam - Stretch, Front	E	1
-145E	1012772-110		• Beam - Stretch, Front	F	1
-145F	1012772-113		• Beam - Stretch, Front	G	1
-145G	1012772-114		• Beam - Stretch, Front	H	1
-145H	1012772-117		• Beam - Stretch, Front	J	1
-145J	1012772-118		• Beam - Stretch, Front	K	1
-145K	1013480-139		• Beam - Stretch, Front	L	1
-145L	1013480-140		• Beam - Stretch, Front	M	1
150	1012772-103		• Beam - Stretch, Rear	A	1
-150A	1012772-104		• Beam - Stretch, Rear	B	1
-150B	1012772-107		• Beam - Stretch, Rear	C	1
-150C	1012772-108		• Beam - Stretch, Rear	D	1
-150D	1012772-111		• Beam - Stretch, Rear	E	1
-150E	1012772-112		• Beam - Stretch, Rear	F	1
-150F	1012772-115		• Beam - Stretch, Rear	G	1
-150G	1012772-116		• Beam - Stretch, Rear	H	1
-150H	1012772-119		• Beam - Stretch, Rear	J	1

- ITEM NOT ILLUSTRATED

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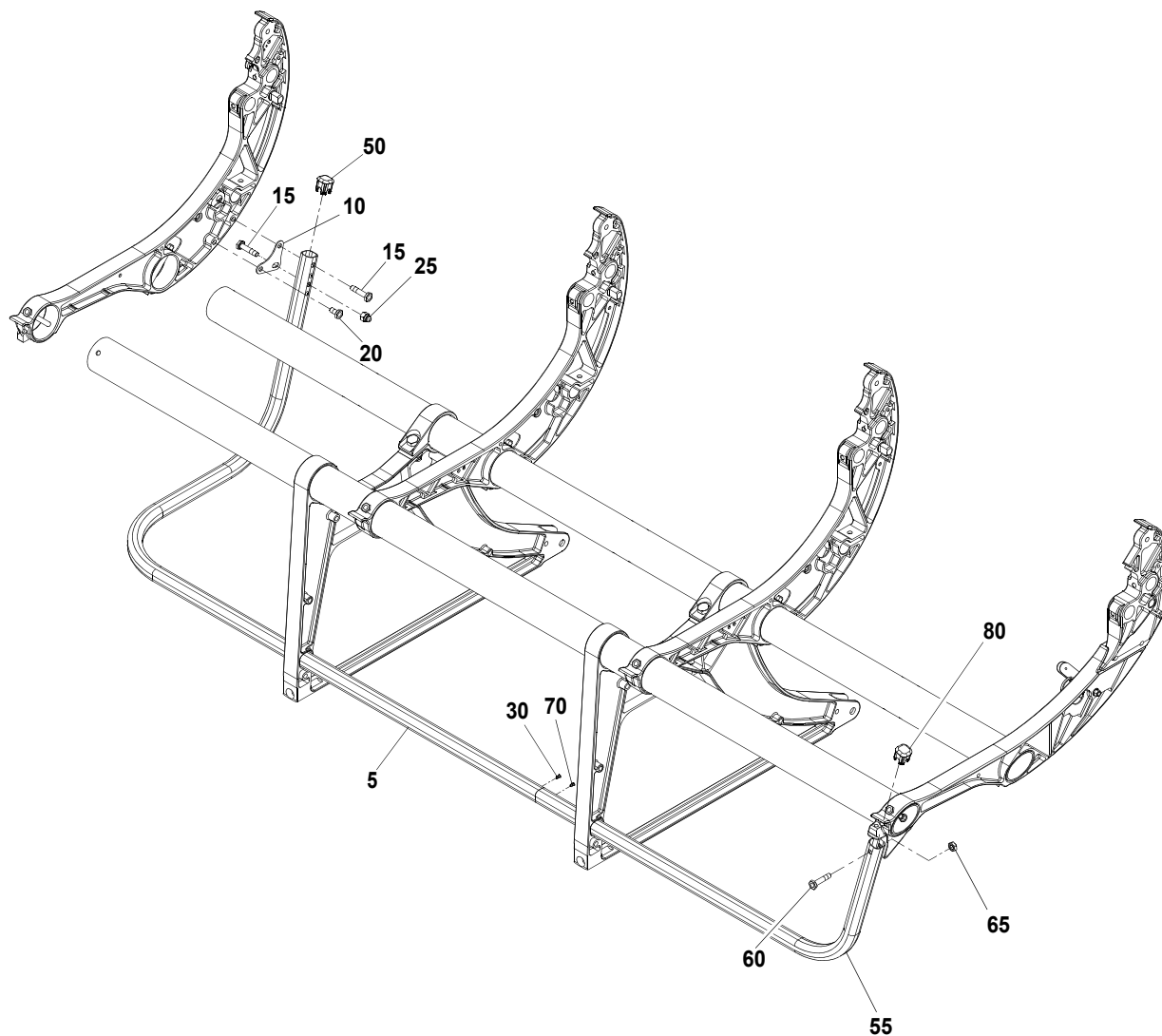
FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
15					
-150J	1012772-120		• Beam - Stretch, Rear	K	1
-150K	1013480-141		• Beam - Stretch, Rear	L	1
-150L	1013480-142		• Beam - Stretch, Rear	M	1
			* * *		

- ITEM NOT ILLUSTRATED

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Baggage Bar Installation  
IPL Figure 16



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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
16					
-1	1012370-011KA01 (NP)		Installation - Baggage Bar, STD (See IPL FIG 15 for NHA)	A	RF
-1A	1012370-012KA01 (NP)		Installation - Baggage Bar, STD (See IPL FIG 15 for NHA)	B	RF
-1B	1012370-013KA01 (NP)		Installation - Baggage Bar, Narrow (See IPL FIG 15 for NHA)	C	RF
-1C	1012370-014KA01 (NP)		Installation - Baggage Bar, Narrow (See IPL FIG 15 for NHA)	D	RF
-1D	1012370-015KA01 (NP)		Installation - Baggage Bar, Narrow (See IPL FIG 15 for NHA)	E	RF
-1E	1012370-016KA01 (NP)		Installation - Baggage Bar, Narrow (See IPL FIG 15 for NHA)	F	RF
-1F	1012370-017KA01 (NP)		Installation - Baggage Bar, Narrow (See IPL FIG 15 for NHA)	G	RF
-1G	1012370-018KA01 (NP)		Installation - Baggage Bar, Narrow (See IPL FIG 15 for NHA)	H	RF
-1H	1012370-019KA01 (NP)		Installation - Baggage Bar, Narrow (See IPL FIG 15 for NHA)	J	RF
-1J	1012370-020KA01 (NP)		Installation - Baggage Bar, Narrow (See IPL FIG 15 for NHA)	K	RF
-1K	1012370-021KA01 (NP)		Installation - Baggage Bar, Exit (See IPL FIG 15 for NHA)	L	RF
-1L	1012370-022KA01 (NP)		Installation - Baggage Bar, Exit (See IPL FIG 15 for NHA)	M	RF
5	1012064-051KA01		• Baggage Bar Assembly (Order Separately)	AGL	1
-5A	1012064-052KA01		• Baggage Bar Assembly (Order Separately)	BHM	1
-5B	1012064-061KA01		• Baggage Bar Assembly (Order Separately)	C	1
-5C	1012064-062KA01		• Baggage Bar Assembly (Order Separately)	D	1
-5D	1012064-059KA01		• Baggage Bar Assembly (Order Separately)	E	1
-5E	1012064-060KA01		• Baggage Bar Assembly (Order Separately)	F	1
-5F	1012064-053KA01		• Baggage Bar Assembly (Order Separately)	J	1

- ITEM NOT ILLUSTRATED

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
16					
-5G	1012064-054KA01		• Baggage Bar Assembly (Order Separately)	K	1
10	1012063-201		• Bracket - Restraint Plate (Order Separately)		1
			ATTACHING PARTS		
15	NAS6604-11		• Bolt - Hex HD (Order Separately)		2
20	NAS6604-1		• Bolt - Hex HD (Order Separately)		1
25	42NKE048 (REF)		• Nut - Cap LKG, Nylon (Order Separately by true P/N 42NKE-048)		1
30	SSCS03-02 (REF)		• Rivet - CSK (Order Separately by true P/N SSCS-03-02)		1
			* * *		
-35	1012061-103		• • Tube - Baggage Bar (Aisle) (Part of Items 5 and -5B)	ACGL	1
-35A	1012061-104		• • Tube - Baggage Bar (Aisle) (Part of Items -5A and -5C)	BDHM	1
-35B	1012061-113		• • Tube - Baggage Bar (Aisle) (Part of Item -5D)	E	1
-35C	1012061-114		• • Tube - Baggage Bar (Aisle) (Part of Item -5E)	F	1
-35D	1012061-107		• • Tube - Baggage Bar (Aisle) (Part of Item -5F)	J	1
-35E	1012061-108		• • Tube - Baggage Bar (Aisle) (Part of Item -5G)	K	1
-40	1011099-109		• • Doubler - Baggage Bar (Part of Items 5 thru -5E)	A-HLM	1
-40A	1011099-109		• • Doubler - Baggage Bar (Part of Items -5F and -5G)	JK	2
			ATTACHING PARTS		
-45	CSPS04-02 (REF)		• • Rivet - Pan (Part of Items 5 thru -5G) (True P/N is CSPS-04-02)		2
			* * *		

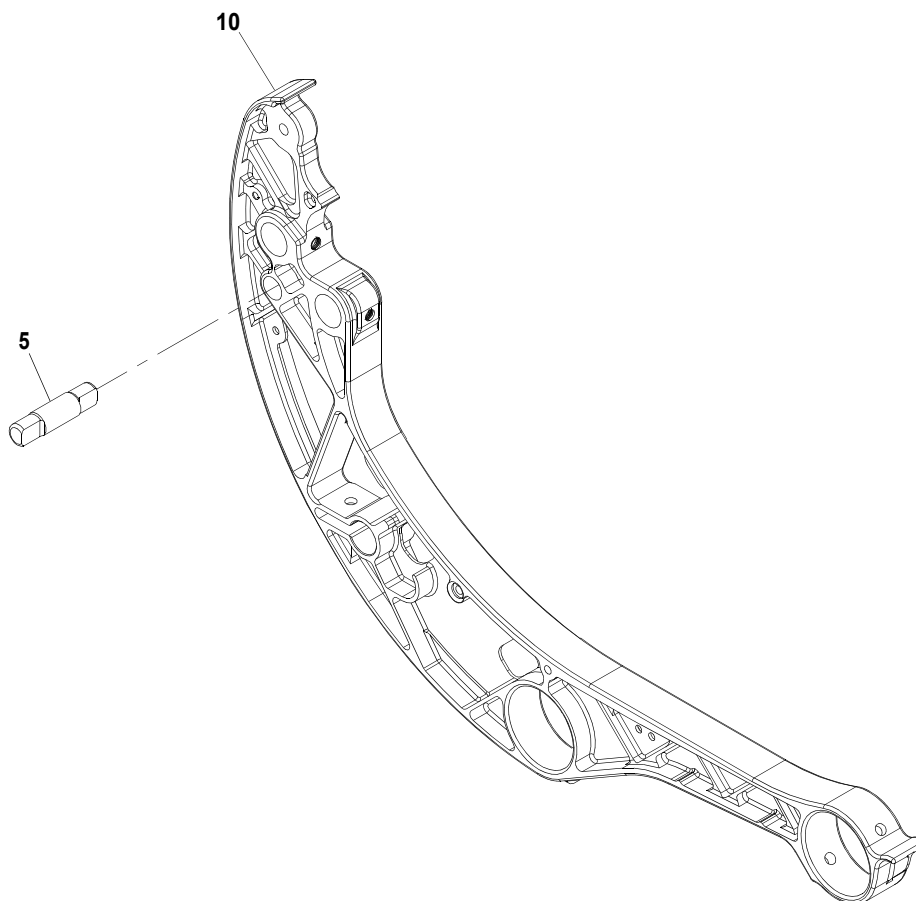
- ITEM NOT ILLUSTRATED

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
16					
50	1011906-301BHT		• • End Cap - Baggage Bar (Part of Items 5 thru -5G)		1
55	1012062-103		• Tube - Baggage Restraint (Order Separately)	A	1
-55A	1012062-104		• Tube - Baggage Restraint (Order Separately)	B	1
-55B	1012062-105		• Tube - Baggage Restraint (Order Separately)	CJ	1
-55C	1012062-106		• Tube - Baggage Restraint (Order Separately)	DK	1
-55D	1012062-111		• Tube - Baggage Restraint (Order Separately)	E	1
-55E	1012062-112		• Tube - Baggage Restraint (Order Separately)	F	1
-55F	1012062-107		• Tube - Baggage Restraint (Order Separately)	G	1
-55G	1012062-108		• Tube - Baggage Restraint (Order Separately)	H	1
-55H	1012062-109		• Tube - Baggage Restraint (Order Separately)	L	1
-55J	1012062-110		• Tube - Baggage Restraint (Order Separately)	M	1
			ATTACHING PARTS		
60	NAS6604-11		• Bolt - Hex HD (Order Separately)		1
65	NAS679A4W		• Nut - LKG (Order Separately)		1
70	SSCS03-02 (REF)		• Rivet - CSK (Order Separately by true P/N SSCS-03-02)		1
			* * *		
-75	1011099-103		• Doubler - Baggage Bar (Order Separately)		1
80	1011906-301BHT		• End Cap - Baggage Bar (Order Separately)		1
			* * *		

- ITEM NOT ILLUSTRATED

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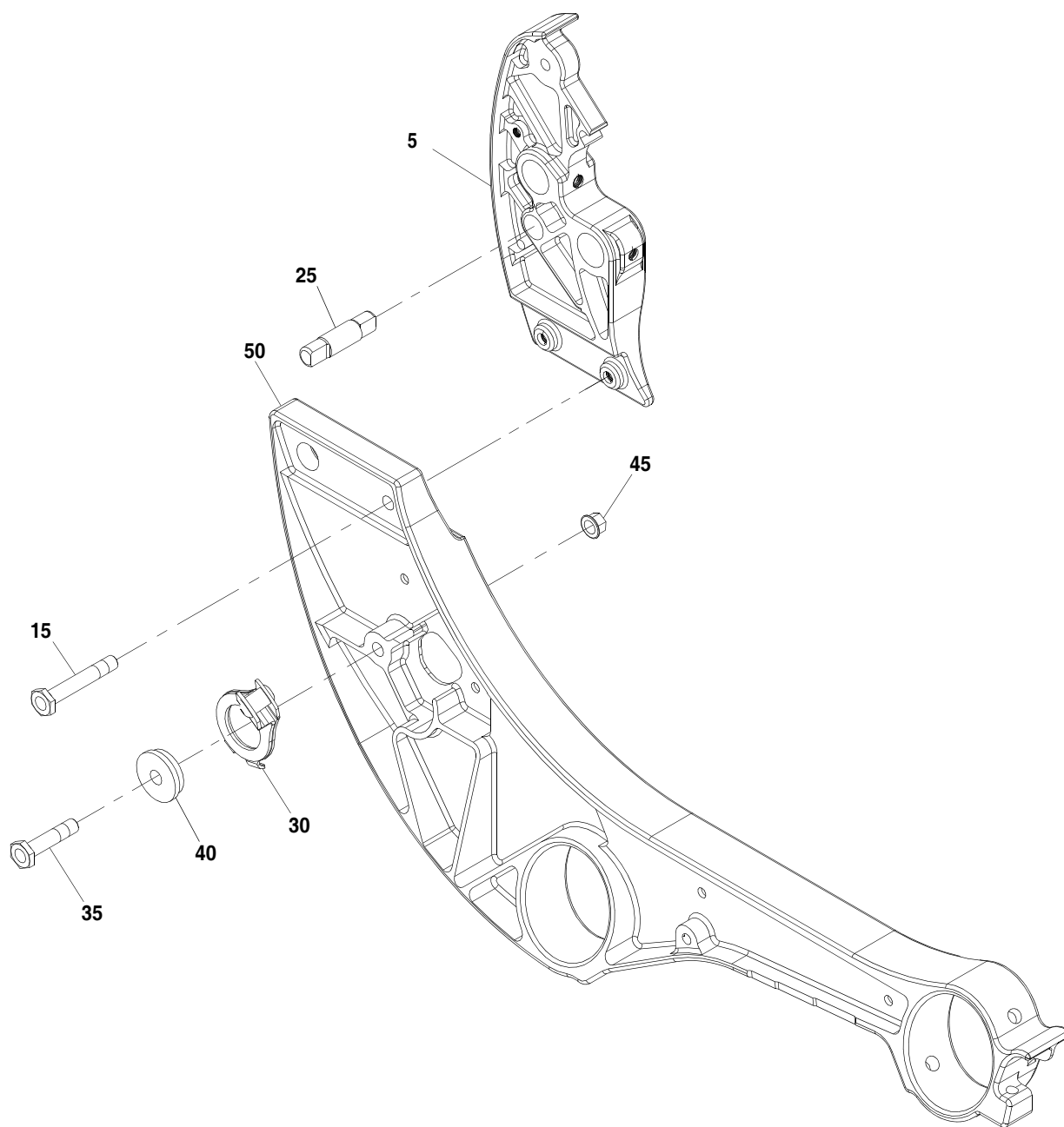
Standard Spreader Assembly  
IPL Figure 17

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
17					
-1	1012026-053		Spreader Assembly - STD (See IPL FIG 15 for NHA)	A	RF
-1A	1012026-057		Spreader Assembly - Aisle LH (See IPL FIG 15 for NHA)	B	RF
-1B	1012026-058		Spreader Assembly - Aisle RH (See IPL FIG 15 for NHA)	C	RF
-1C	1012026-061		Spreader Assembly - Front Row CTR (See IPL FIG 15 for NHA)	D	RF
-1D	1012026-063		Spreader Assembly - Front Row Inboard/Outboard LH (See IPL FIG 15 for NHA)	E	RF
-1E	1012026-064		Spreader Assembly - Front Row Inboard/Outboard RH (See IPL FIG 15 for NHA)	F	RF
5	1011404-101		• Pin - BMFT Stop - Center	AD	1
-5A	1011404-103		• Pin - BMFT Stop - Outboard	BCEF	1
10	1011008-111		• Spreader - Machined, Center	A	1
-10A	1011008-123		• Spreader - Machined, Aisle	BC	1
-10B	1011008-141		• Spreader - Machined, Front Row	D-F	1
			* * *		

- ITEM NOT ILLUSTRATED

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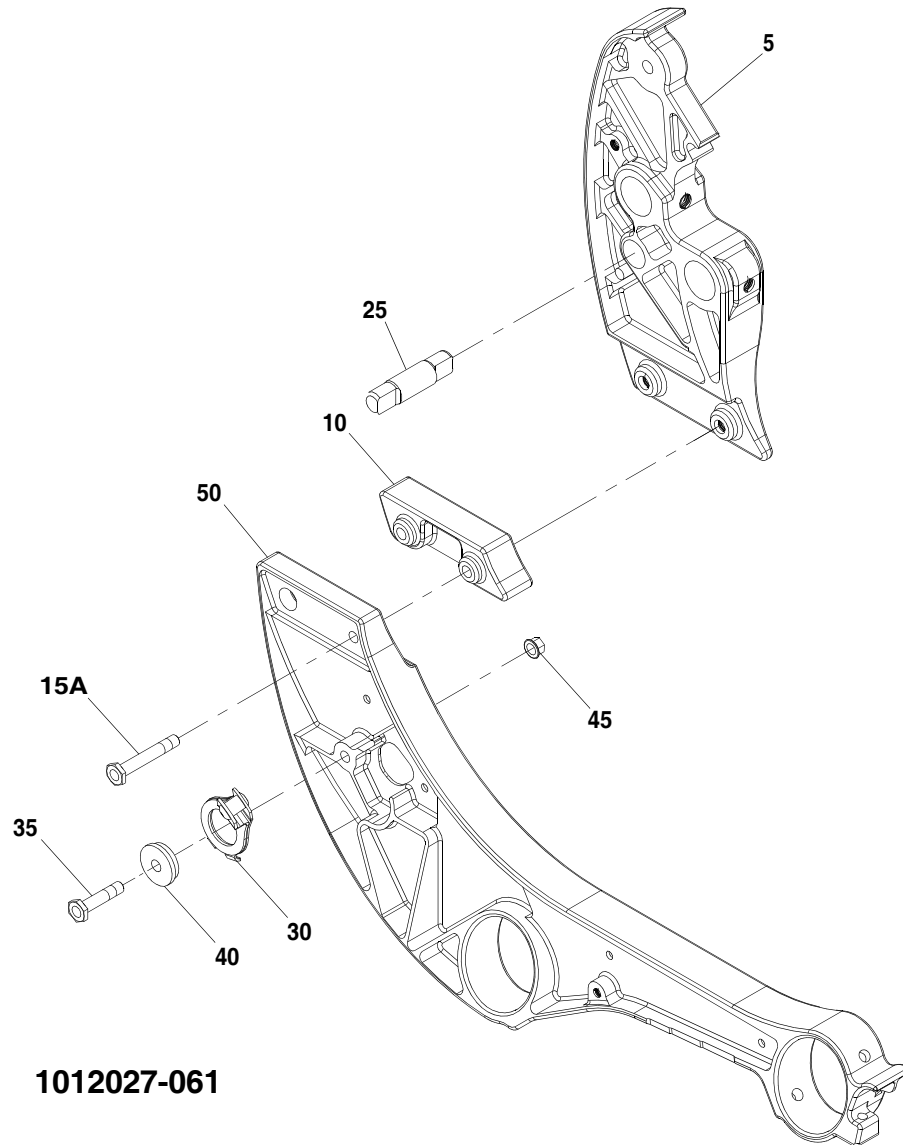
**1012027-059**

Canted Spreader Assembly  
IPL Figure 18 (Sheet 1 of 2)

**25-21-51**

Page 10102  
Aug 14, 2015

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**1012027-061**

Canted Spreader Assembly  
IPL Figure 18 (Sheet 2 of 2)

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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
18					
-1	1012027-059		Spreader Assembly - Canted, LH (See IPL FIG 15 for NHA)	A	RF
-1A	1012027-060		Spreader Assembly - Canted, RH (See IPL FIG 15 for NHA)	B	RF
-1B	1012027-061		Spreader Assembly - Canted, Exit Row, LH (See IPL FIG 15 for NHA)	C	RF
-1C	1012027-062		Spreader Assembly - Canted, Exit Row, RH (See IPL FIG 15 for NHA)	D	RF
5	1012026-059		• Spreader Assembly - Canted LH	AC	1
-5A	1012026-060		• Spreader Assembly - Canted RH	BD	1
10	1011008-125		• Spacer - Machined Spreader - Exit Row	C	1
-10A	1011008-126		• Spacer - Machined Spreader - Exit Row	D	1
			ATTACHING PARTS		
15	NAS6604-4		• Bolt - Hex HD	AB	1
15A	NAS6604-18		• Bolt - Hex HD	CD	1
			* * *		
-20	1011008-113		• • Spreader - Machined, Canted (Part of Item 5)	AC	1
-20A	1011008-114		• • Spreader - Machined, Canted (Part of Item -5A)	BD	1
25	1011404-103		• • Pin - BMFT Stop (Part of Items 5 and -5A)		1
30	1011402-051		• Shackle Assembly - Seat Belt - LH	AC	1
-30A	1011402-052		• Shackle Assembly - Seat Belt - RH	BD	1
			ATTACHING PARTS		
35	NAS6604-11		• Bolt - Hex HD		1
40	1011402-111		• Cap - Clocking Spindle		1
45	MS21042-4		• Nut - LKG		1
			* * *		

- ITEM NOT ILLUSTRATED

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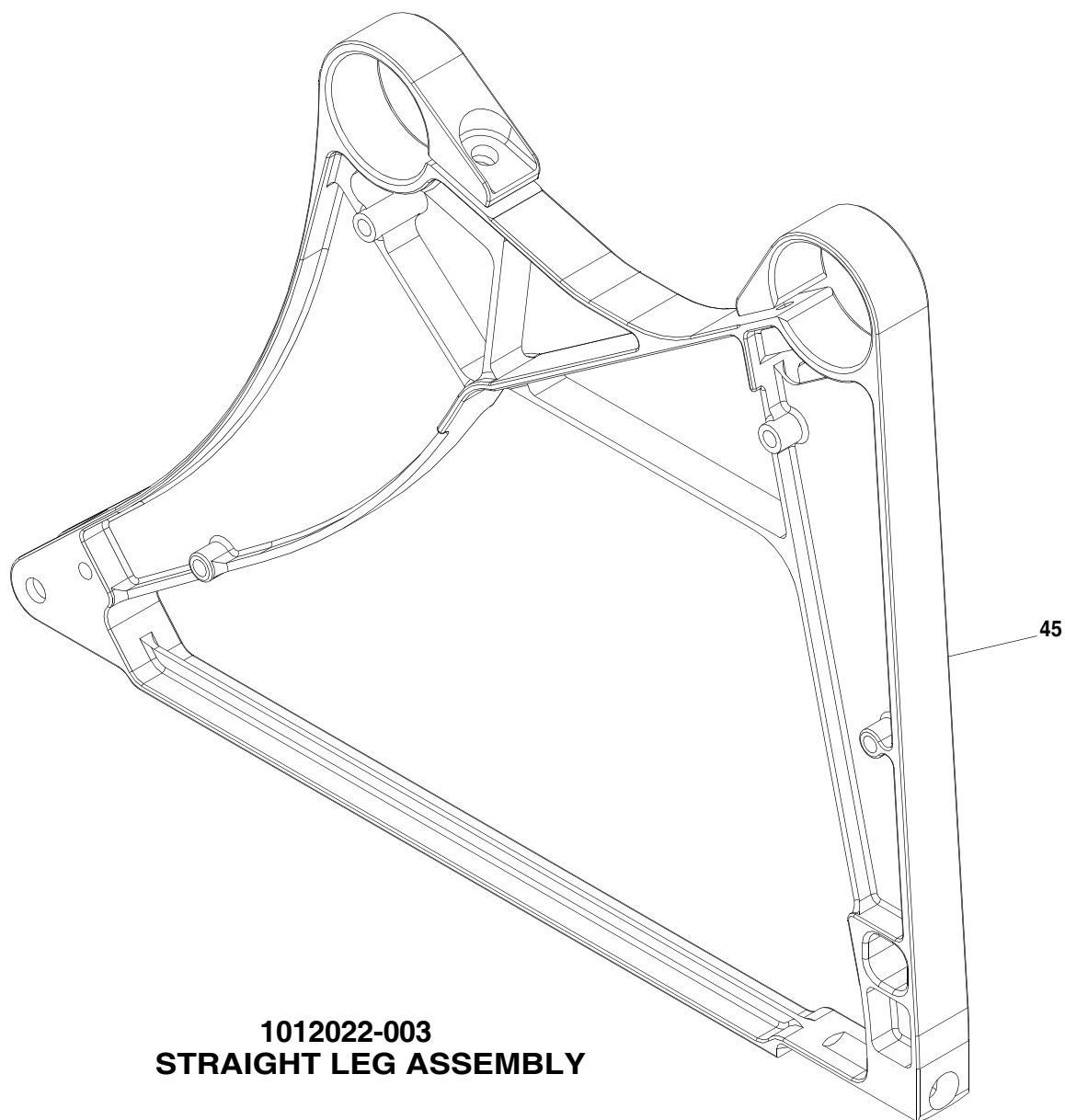
FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
18					
50	1011008-115		• Spreader - Machined - Canted - Lower LH	AC	1
-50A	1011008-116		• Spreader - Machined - Canted - Lower RH	BD	1
			* * *		

- ITEM NOT ILLUSTRATED

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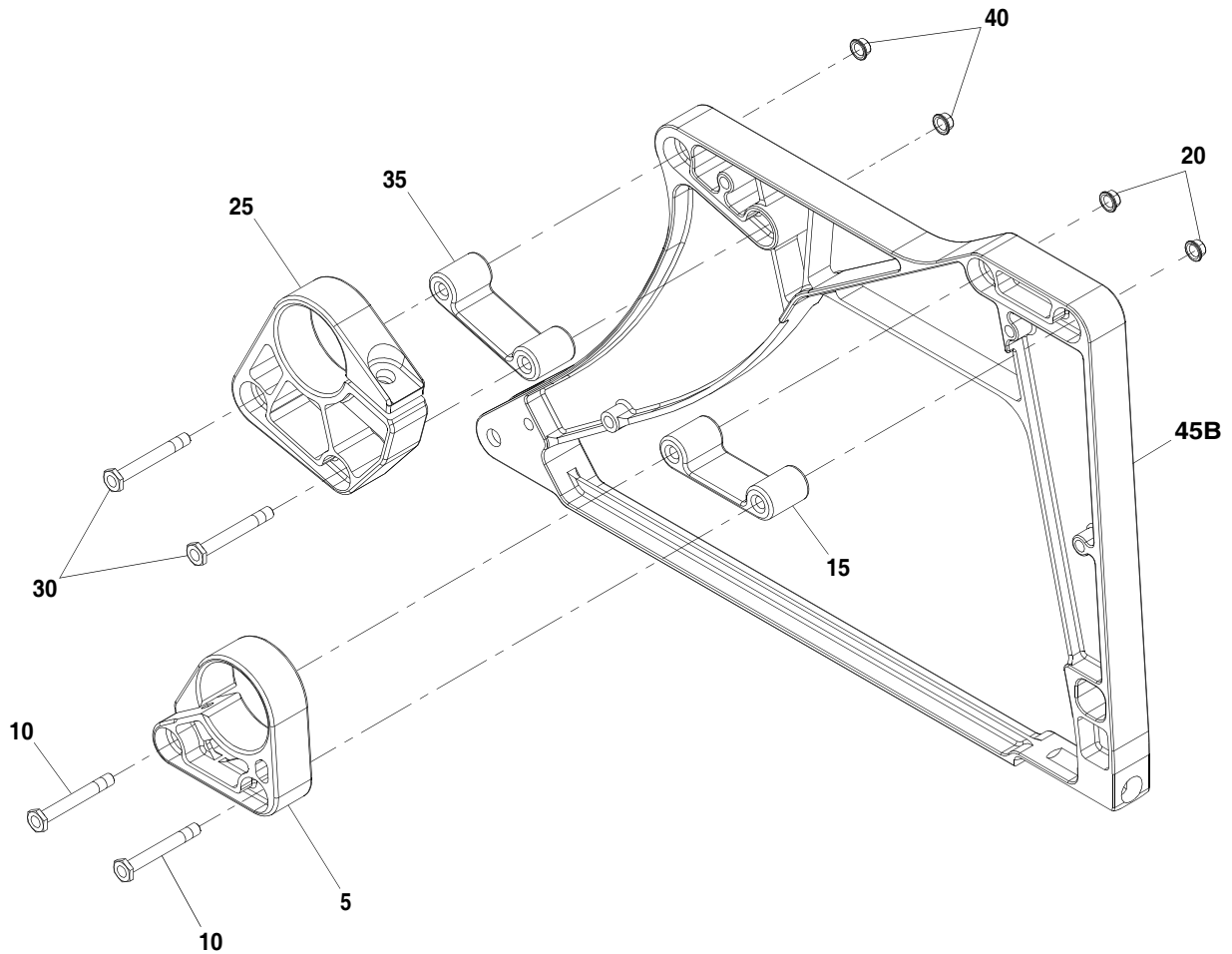
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**1012022-003**  
**STRAIGHT LEG ASSEMBLY**

Leg Assembly  
IPL Figure 19 (Sheet 1 of 2)

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**1012022-027**  
**OFFSET LEG ASSEMBLY**

Leg Assembly  
IPL Figure 19 (Sheet 2 of 2)

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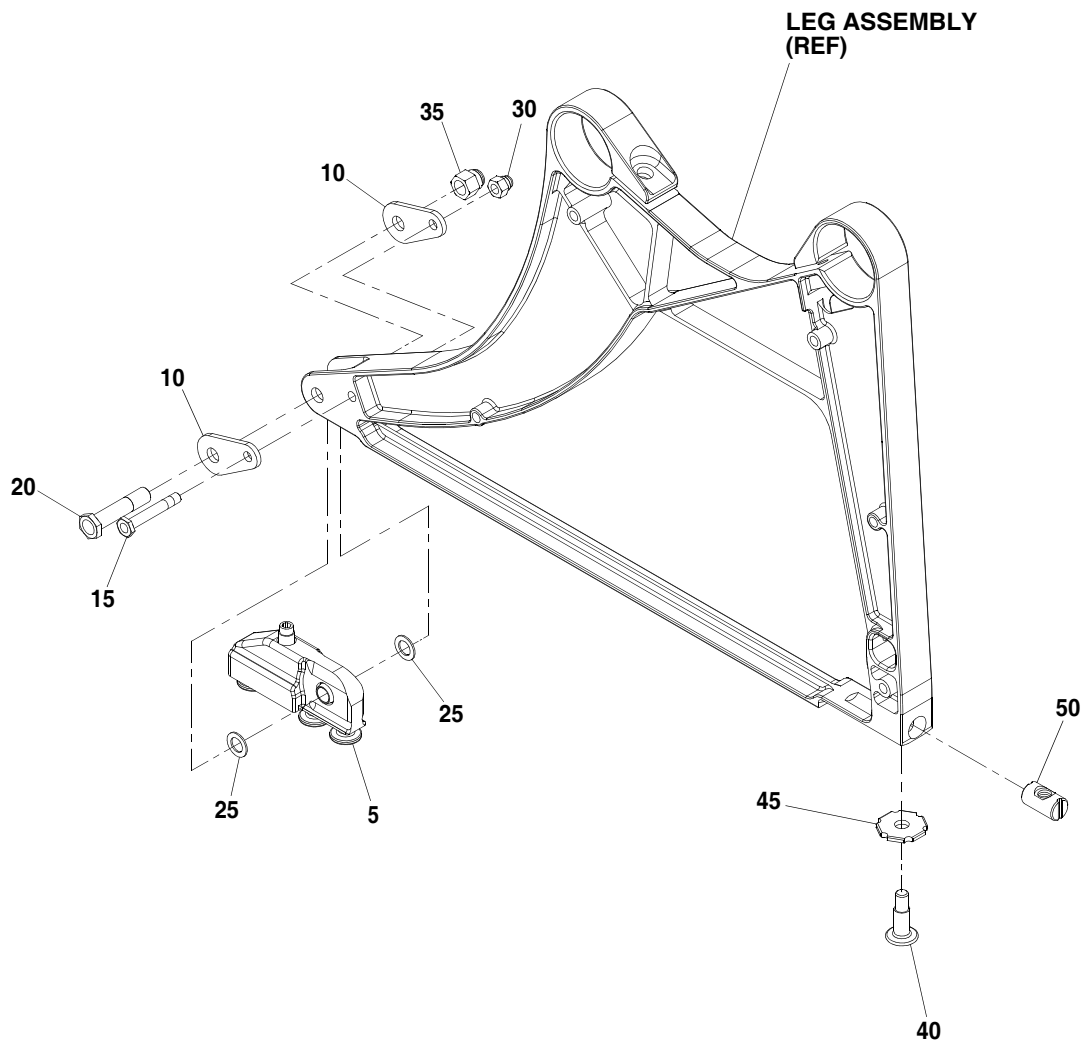
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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
19					
-1	1012022-003		Leg Assembly - Straight (See IPL FIG 15 for NHA)	A	RF
-1A	1012022-007		Leg Assembly - Straight (See IPL FIG 15 for NHA)	B	RF
-1B	1012022-027		Leg Assembly - Offset (See IPL FIG 15 for NHA)	C	RF
-1C	1012022-028		Leg Assembly - Offset (See IPL FIG 15 for NHA)	D	RF
5	1011008-131		• Leg - Machined, Offset Upper Front  ATTACHING PARTS	CD	1
10	NAS6604-24		• Bolt - Hex HD (Torque to 8 ±2 FT-LB)	CD	2
15	1011008-121		• Spacer - Offset Leg	CD	1
20	42NKE048 (REF)		• Nut - Nylon Cap, LKG (Torque to 8 ±2 FT-LB) (True P/N is 42NKE-048)  * * *	CD	2
25	1011008-135		• Leg - Machined, Offset Upper Aft  ATTACHING PARTS	CD	1
30	NAS6604-24		• Bolt - Hex HD (Torque to 8 ±2 FT-LB)	CD	2
35	1011008-121		• Spacer - Offset Leg	CD	1
40	42NKE048 (REF)		• Nut - Nylon Cap, LKG (Torque to 8 ±2 FT-LB) (True P/N is 42NKE-048)  * * *	CD	2
45	1011008-197		• Leg - Machined, Straight	A	1
-45A	1011008-191		• Leg - Machined, Straight	B	1
45B	1011008-195		• Leg - Offset  * * *	CD	1

- ITEM NOT ILLUSTRATED

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Track Fittings Installation  
IPL Figure 20



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FIG. ITEM	PART NUMBER	AIRLINE PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	EFF CODE	UNITS/ ASSY
20					
-1	1012620-031 (NP)		Installation - Track Fittings, STD (See IPL FIG 1 for NHA)		RF
5	1012023-003		• Track Fitting (Order Separately)		2
10	1003114-201		• Doubler (Order Separately)		4
			ATTACHING PARTS		
15	NAS6604-19		• Bolt - Hex HD (Order Separately) (Torque to 96 ±24 IN-LB)		2
20	NAS6606-18		• Bolt - Hex HD (Order Separately) (Torque to 110 ±24 IN-LB)		2
25	98038115		• Spacer - Nylon (Order Separately)		4
30	42NKE048 (REF)		• Nut - Hex, Cap Nylon (Order Separately by true P/N 42NKE-048) (Torque to 96 ±24 IN-LB)		2
35	52NKE064 (REF)		• Nut - Hex, Cap Nylon (Order Separately by true P/N 52NKE-064) (Torque to 110 ±24 IN-LB)		2
			* * *		
40	1011008-139		• Stud - Front (Order Separately) (Torque to 96 ±24 IN-LB)		2
45	97123007		• Nut - Anti-Rattle (Order Separately)		2
50	1011008-655		• Pin - Leg Barrel Nut (Order Separately) (Apply Loctite™-263 or Loctite 270 may be used as alternate)		2
			* * *		

- ITEM NOT ILLUSTRATED

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MAINTENANCE AND SERVICING

1. General

A. Description

The maintenance schedules/procedures recommended in this section are applicable to all Pinnacle® seats currently in operation, although specific customer configurations may vary. If specific components are not present on your seats, skip those particular checks.

TYPE OF CHECK	PAGE
Daily	14002
Monthly Check - In Aircraft	14003
Light Check - In Aircraft	14006
Heavy Check - Out of Aircraft	14009

- B. Compliance is at the discretion of the customer. Failure to perform proper preventive maintenance may adversely affect serviceability of the seat.
- C. All procedures may be implemented during normal scheduled maintenance cycles.
- D. These maintenance procedures do not affect the certification basis of the seat unit, assuming qualified replacement parts are used. However, failure to replace damaged or defective components could affect the airworthiness of the seat.
- E. Refer to INSPECTION/CHECK (Page Block 5000) before re-installing seats onto the aircraft.
- F. The installation and use of non-B/E Aerospace products/components on this seat assembly will affect the certification and warranty of the seat.

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2. Checks

A. Daily Checks

Limited access time during Daily Checks, unless specifically indicated, does not normally allow enough time for component replacement. Consider the extent of the damage/defect to determine if the component replacement can be deferred until an appropriately scheduled maintenance period, or if the seat should be repaired immediately.

	TASK	TIME REQUIRED
1	Visually examine the general condition of the seats and seat covers.	
2	Check the seat track fittings for secure attachment to the floor tracks.	
4	Ensure that recline controls operate correctly.	
5	Check in-arm foodtrays for damage, correct operation, and trash accumulation.	
6	Check back-mounted foodtrays for damage and correct operation.	
7	Check foodtray latches for damage and correct operation.	

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**B. Monthly Check - In Aircraft**

Limited access time during Monthly Checks, unless specifically indicated, does not normally allow enough time for component replacement. Consider the extent of the damage/defect to determine if replacement/repair can be deferred until an appropriately scheduled Light Check or Heavy Check, or if the seat should be repaired immediately.

	TASK	TIME REQUIRED
1	Visually examine the complete seat assemblies. (Refer to IPL Figure 1) Examine seat parts for cuts, nicks, cracks, corrosion, scoring, damaged threads, excessive wear and any defects which may impair the efficient operation of the seat.	
2	Seat Covers and Cushions (Refer to IPL Figure 1)	
	Replace any seat cushion/cover assemblies that have been damaged or are dirty/stained. These can be repaired or cleaned as required. Refer to <u>CLEANING</u> (Page Block 4000).	
3	Back Assembly and Installation (Refer to IPL Figures 5 and 6)	
	Check/tighten all loose bolts and nuts, paying particular attention to the hydraulic lock installation and recline cable connections; replace any worn or damaged items.	
	Check the seat back assemblies for cracks in the metal; replace as necessary.	
	Ensure that the literature pocket springs are secure and correctly fitted; replace as necessary.	
	Verify that seat backs are in line to the dimensions shown in the <u>DESCRIPTION AND OPERATION</u> section or adjust as needed.	

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	TASK	TIME REQUIRED
4	Arm Assembly and Installation (Refer to IPL Figures 7 thru 9)	
	Replace all damaged or worn armcap assemblies.	
	Check/tighten all screws and bolts.	
	Ensure that there are no rough edges on screws, bolts, etc.; smooth as needed.	
	Check armcap hinges for loose screws and damage; repair or replace as needed.	
	Check arm escutcheons for security/damage; replace as needed.	
	Check HCEB latches for functionality.	
5	Front Row Module Assembly and Installation (Refer to IPL Figures 11 thru 13)	
	Check module armcaps for secure installation and damage; tighten, repair, or replace as needed.	
	Check the functioning of the in-arm foodtrays, paying particular attention to foodtray link pins and linkages.	
	Check module escutcheons for damage; repair or replace as needed.	
6	Frame Assembly (Refer to IPL Figure 15)	
	Check all seat belt shackles for damage and secure attachment; repair or replace as needed.	
	Check all seat belts for damage and secure attachment; repair or replace as needed.	
	Check or tighten all loose nuts, bolts and screws, paying particular attention to the baggage bar; replace any worn or damaged parts.	
	Ensure that the baggage bar trim plugs are securely fitted; replace if missing.	
	Check the bottom diaphragms and replace any damaged bottom diaphragm support tube assemblies.	

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	TASK	TIME REQUIRED
7	Leg Assembly and Installation (Refer to IPL Figures 19 and 20)	
	Check and tighten all loose bolts; replace any worn or damaged parts.	
	Check the serviceability of the rear leg fitting assembly.	
	Ensure that seat track fittings are secure in the floor tracks.	
	Ensure that spreaders are undamaged.	

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C. Light Check - In Aircraft

A Light Check includes all previous checks plus some additional checks.

	TASK	TIME REQUIRED
1	Visually examine the complete seat assembly. (Refer to IPL Figure 1) Examine parts for cuts, nicks, cracks, corrosion, scoring, damaged threads, excessive wear and any defects that may impair the efficient operation of the seat.	
2	Seat Covers and Cushions (Refer to IPL Figure 1)	
	Replace any seat cushion/cover assemblies that have been damaged or are dirty/stained. These can be cleaned. Refer to <u>CLEANING</u> (Page Block 4000).	
	Test the seat covers for continued flame retardancy.  <u>NOTE:</u> Repetitive cleaning and buildup of foreign substances in covers adversely affect flame retardancy of covers over time. Cover appearance may be adequate while actual serviceability no longer meets regulatory requirements.  <u>NOTE:</u> Tears, gouges, rips or open seams in the cushion fireblocking material greater than one inch will require replacement of the cushion. If damage or wear to the cushion allows contact by the passenger with any part of the seat structure originally protected from contact by the cushion padding the cushion must be replaced.	



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	TASK	TIME REQUIRED
3	Back Assembly and Installation (Refer to IPL Figures 5 and 6)	
	Check the seat back assemblies for cracks in the metal; replace as needed.	
	Make sure the literature pocket springs are secure and correctly fitted; replace as needed.	
	Check/tighten all loose bolts and nuts, paying particular attention to the hydraulic lock installations; replace any worn or damaged items.	
	Check the functioning of the hydraulic locks; replace any that are found defective.	
	Adjust the seat controls, as required.	
	Set the seat backs in line to the dimensions shown in the <u>DESCRIPTION AND OPERATION</u> section.	
4	Arm Assembly and Installation (Refer to IPL Figures 7 thru 9)	
	Replace all damaged or excessively worn armcap assemblies.	
	Check and tighten all loose screws and bolts.	
	Make sure there are no rough edges on screws, bolts, etc.; blend as needed.	
	Check the armcap hinges for loose screws and damage; repair or replace as needed.	
	Check the arm escutcheons for security/damage; replace as needed.	
5	Front Row Module Assembly and Installation (Refer to IPL Figures 11 thru 13)	
	Examine the sliding trays and cocktail trays for damage or wear to the laminate; replace any damaged assemblies.	
	Check the functioning of the in-arm foodtrays, paying particular attention to foodtray link pins and linkages.	
	Examine all in-arm foodtray laminates; repair or replace as needed.	
	Check the armcaps for secure installation and damage; tighten, repair, or replace as needed.	

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	TASK	TIME REQUIRED
6	Frame Assembly (Refer to IPL Figure 15)	
	Check seat belt shackles for damage and secure attachment; repair or replace as needed.	
	Check the endbays for damage and secure attachment; repair or replace as needed.	
	Check seat belts for damage and secure attachment and check the seat belt buckles and tips for correct location and alignment; correct, repair, or replace as needed.	
	Check and tighten all loose nuts, bolts and screws, paying particular attention to the baggage bar; replace any worn or damaged parts.	
	Check the bottom diaphragms; replace any damaged bottom diaphragm support tube assemblies.	
7	Leg Assembly and Installation (Refer to IPL Figures 19 and 20)	
	Thoroughly examine the leg assemblies, including spreaders, for any signs of corrosion; repair as needed.	
	Check the leg assemblies for damage; replace any damaged legs.	
	Check and tighten all loose bolts; replace any worn or damaged parts.	
	Check the serviceability of the rear leg fitting assemblies.	
	Make sure the seat track fittings are secure in the floor tracks.	
	Make sure the spreaders are undamaged.	

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D. Heavy Check - Out of Aircraft

The Heavy Check includes all previous checks plus some additional checks.

**NOTE:** Replacement of seat cushions, fabrics, and plastics is recommended for the clean and neat appearance of the seats. However, replacement is at the discretion of the customer or depends upon conditions noted in the inspection that require replacement.

	TASK	TIME REQUIRED
1	Preparation and Cleaning Procedure	
	Visually examine the complete seat assemblies (Refer to IPL Figure 1). Thoroughly inspect all components, assemblies and sub-assemblies using a strong light and some means of magnification. Examine parts for cuts, nicks, cracks, corrosion, scoring, damaged threads, excessive wear and any defects that may impair the efficient operation of the seat.	

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	TASK	TIME REQUIRED
2	Seat Covers and Cushions (Refer to IPL Figure 1)	
	<p>Test seat covers for continued flame retardancy. Test flotation cushions to determine that they provide 14 pounds of buoyancy at all times.</p> <p><u>NOTE:</u> Repetitive cleaning and buildup of foreign substances in seat covers adversely affect flame retardancy over time. Cover appearance may be adequate while actual serviceability no longer meets regulatory requirements.</p> <p><u>NOTE:</u> Refer to <u>CLEANING</u> (Page Block 4000) for instructions on dry cleaning and for keeping records of cleaning cycles.</p> <p><u>NOTE:</u> Tears, gouges, rips or open seams in the cushion fire blocking material greater than one inch will require replacement of the cushion. If damage or wear to the cushion allows contact by the passenger with any part of the seat structure originally protected from contact by the cushion padding the cushion must be replaced.</p>	
	Replace hook-and-pile fasteners on seat covers as required.	
	Replace all seat back and seat bottom cushion assemblies (Refer to IPL Figure 1).	
3	Back Assembly and Installation (Refer to IPL Figures 5 and 6)	
	Check all bolts and nuts for damage; replace any worn or damaged parts.	
	Check the seat back assemblies for cracks in the metal; replace as needed.	
	Check the operation of the hydraulic locks; replace as needed.	
	Adjust the seat backs to the dimensions shown in the <u>DESCRIPTION AND OPERATION</u> section.	
	Adjust the seat controls, as required. Refer to <u>FITS AND CLEARANCES</u> (Page Block 8000).	
	Make sure the literature pocket springs are secure and correctly fitted; replace any defective literature pocket springs.	

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	TASK	TIME REQUIRED
4	Arm Assembly and Installation (Refer to IPL Figures 7 thru 9)	
	Check/tighten all bolts, making sure there are no rough edges on fasteners; replace as needed.	
	Check all recline control mechanical cables; replace any found defective.	
	Replace all escutcheons, unless they have already been replaced since the previous Heavy Check.	
	Replace all arm cap assemblies, unless they have already been replaced since the previous Heavy Check.	
5	Front Row Module Assembly and Installation (Refer to IPL Figures 11 thru 13)	
	Replace side panels and escutcheons, unless they have already been replaced since the previous Heavy Check.	
	Replace all armcap assemblies, unless they have already been replaced since the previous Heavy Check.	
	Check all in-arm foodtray cover leaves for damage; repair or replace as needed.	
	Check the functioning of the in-arm foodtrays, paying particular attention to foodtray link pins and linkages.	
6	Frame Assembly (Refer to IPL Figure 15)	
	Check all seat belt linkages for damage and for security of attachment, and check seat belt buckles and tips for correct location and alignment; replace any damaged or defective parts.	
	Check and tighten all seat belt linkage attachment bolts and nuts.	
	Check and tighten all loose bolts and nuts; replace any worn or damaged parts.	
	Check the baggage bar for damage; replace as needed.	
	Check to ensure that the baggage bar trim plugs are securely fitted; replace as needed.	
	Check all bottom diaphragm tube assemblies for bending, cracking, corrosion and other signs of damage; replace as needed.	
	Check all seat diaphragms; replace as needed.	

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	TASK	TIME REQUIRED
7	Leg Assembly and Installation (Refer to IPL Figures 19 and 20)	
	Check and tighten all fasteners; replace any defective bolts.	
	Check the leg assemblies for damage caused during the removal and installation of the seat in the seat tracks in the aircraft; replace any defective or damaged parts.	
	Check all track fitting studs and track fitting assemblies; replace any defective or damaged parts.	
	Check the spreader assemblies for cracks, corrosion or other damage; repair or replace any damaged spreaders.	