

SEATS



SEAT Z110i SERIES - FAMILIARIZATION MAINTENANCE PRACTICES

FOR INFORMATION ONLY
REFERENCE THE APPROPRIATE CMM / AMM FOR AUTHORIZED DATA



PURPOSE

THE PURPOSE OF THIS DOCUMENT IS GENERAL FAMILIARIZATION WITH THE **Z110i** SEAT. AS THERE ARE SEVERAL CONFIGURATIONS IN THIS PRESENTATION WE WILL HIGHLIGHT THE **Z110i** BASED ON THE **CMM 25-26-80**.

THIS DOCUMENT IS SUPPLEMENTAL TO THE CMM AND **NOT INTENDED AS AUTHORIZED DATA** TO PERFORM MAINTENANCE;

REFER TO THE CMM DISASSEMBLY, ASSEMBLY AND FITS AND CLEARANCES SECTIONS FOR PROPER PROCEDURES AND SPECIFICATIONS.

Required Tools

■ Types of Tools

Special and few standard tools to perform the procedures of disassembly, assembly & troubleshooting.

Flat plier



Allen key 1/4

Allen key 1/8

Allen key 1/16

Allen key 3/16

Allen key 3/32

Allen key 5/32

Allen key 5/64

Allen key 7/64

Allen key 9/64

Torque spanner
with socket 2/35



Cruciform
screwdriver



Wrench 7/16

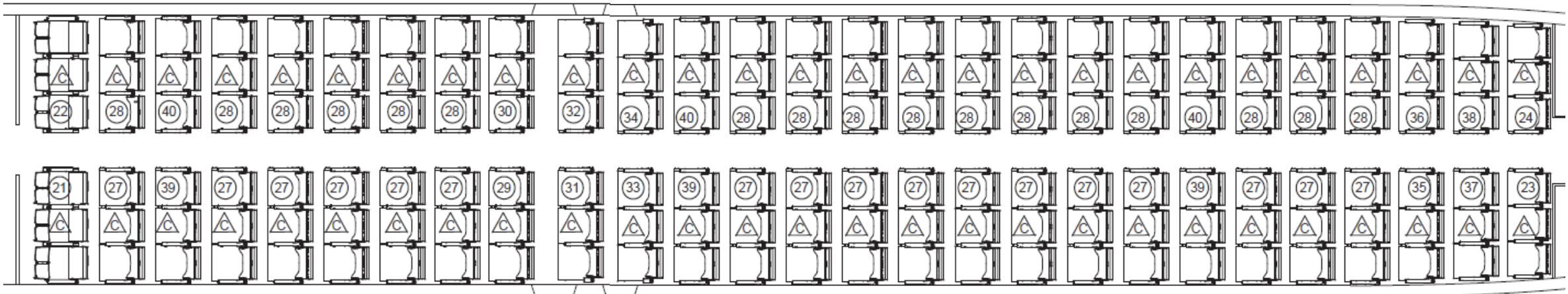


Reversible ratchet
with extension and socket 2/35



AIRCRAFT LAYOUT - B737-800

■ Triple Seat (Front Row and Standard)



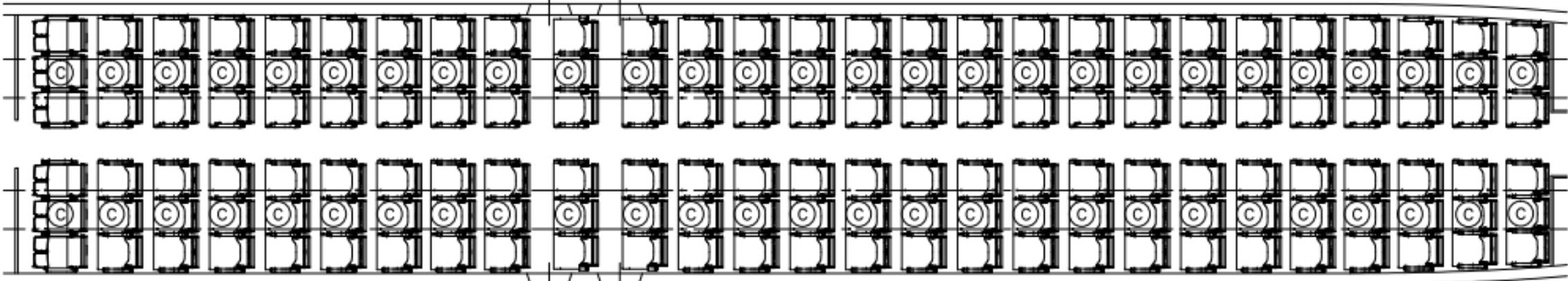
886466-4030 AIRCRAFT INSTALLATION
737-800
(162 T/C PAX)
MODEL Z110i SEAT ASSEMBLIES

LEGEND: SEATING ARRANGEMENT

㉑ 886465-421	㉓ 886465-422	㉔ 886465-423	㉕ 886465-424	㉖ 886465-427	㉗ 886465-428	㉘ 886465-429	㉙ 886465-430	㉚ 886465-431	㉛ 886465-432	㉜ 886465-433	㉝ 886465-434	㉞ 886465-435	㉟ 886465-436	㉟ 886465-437	㉟ 886465-438	㉟ 886465-439	㉟ 886465-440
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AIRCRAFT LAYOUT - B737-800

■ Triple Seat (Front Row and Standard)



-4030/-4050/-4070 COLOR DISTRIBUTION

CUSHION PLACARD DATA Z110i (T/C)				
DESCRIPTION	CUSHION ASSY P/N:	FIREBLOCKING ASSY P/N:	DRESS COVER P/N:	LIT POCKET COVER P/N:
BOTTOM CUSHION ASSY - STD (17.2)	886512	884580	886514	
BOTTOM CUSHION ASSY - NAR (16.2)	-401	-401	-401	
BOTTOM CUSHION ASSY - NAR (15.5)	-403	-403	-403	
BOTTOM CUSHION ASSY - EXIT OBD (16.2)	-407	-407	-407	
BOTTOM CUSHION ASSY - EXIT INBD (17.2)	-411	-445	-411	
BOTTOM CUSHION ASSY - F/R (17.2)	-413	-421	-413	
BOTTOM CUSHION ASSY - F/R OUTBD (17.2)	-415	-423	-415	
BACK DRESS COVER ASSY - STD (17.2)			886517	886518
BACK DRESS COVER ASSY - NAR (16.2)			-401	-401/-405/-406
BACK DRESS COVER ASSY - NAR AFT (16.2)			-403	-403/-407/-408
BACK DRESS COVER ASSY - EXIT INBD (17.2)			-405	
BACK DRESS COVER ASSY - EXIT CTR (17.2)			-407/-408	-401
BACK DRESS COVER ASSY - EXIT OUTB (16.2)			-409	-401
			-411/-412	-407/-408

C	BOTTOM: C9100887; POSEIDON (LWV91) BACK: C9100889; TRADEWINDS (LWV93) / C9100888; DEBOSSED OCEAN VIEW (AV255) / C9100887; POSEIDON (LWV91) LIT POCKET: C9100887; POSEIDON (LWV91)
DRESS COVER MATERIALS	

REFERENCE DOCUMENTS

■ Seat PN 886465-4XX

- CMM 25-26-80
- AC INSTALLATION DWG | 886466
- TRIM AND FINISH DWG | 886467
- PC POWER INSTALLATION DWG | 886499-401A/-402A/-407A/-408A/-413/-414
(Includes 3D Drawing)

CMM DESCRIPTION & INSTRUCTIONS

■ CLEANING

■ CHECK

■ REPAIR

■ DISASSEMBLY & ASSEMBLY

CLEANING

Cleaning Materials
Table 4001

Material	Identification	Source	Use
Aliphatic Naphtha	Federal Specification TTN95	Commercially available	To clean metal parts.
Acetone	Federal Specification O-A-51	Commercially available	To clean components before repair.
Corrosion Removing Compound	AMS Specification 1640	Commercially available	To remove corrosion.
Isopropyl Alcohol	Federal Specification TT-I-735A	Commercially available	To clean components before repair.
Toluene, Mineral Spirits	Federal Specification A-A-59107	Commercially available	To clean metal parts.
Methyl Propyl Ketone	CAS Number 107-87-9	Eastman Chemical Co. Kingsport, TN	To clean components before repair.
Upholstery Powder	Powderene	Von Schrader Co. Racine, WI	To clean fabric.
Upholstery Shampoo	DuPont Dry Cleaner	E.I. DuPont de Nemours and Company Wilmington, DE	To clean fabric.
Detergent	"Joy" or similar	Commercially available	To clean molded plastic areas.
Liquid Detergent	"Ivory" or similar	Commercially available	To clean fabric-backed vinyls and plastic molded areas.
Liquid Detergent	"Spray White E"	Kelite Chemical Corp Detroit, MI	To clean powder coated surfaces.
Commercial Wax	"Simoniz" or similar	Commercially available	To shine plastic areas.

Solvent Selection For Hand Cleaning Components
Table 4002

Material to be Cleaned	Solvent Suitability (1)			
	Toluene, Mineral Spirits	Isopropyl Alcohol	Acetone, Methyl Propyl Ketone	Lacquer Thinner (2)
Metal	B	B	A	B
Plastics: epoxy, phenolic nylon, polyester, polyurethane, acetal	B	A	A	B
Plastics: ABS, PVC, ABS/PVC, alloys, vinyls	B (3)	A	B (3)	C
Plastics: polycarbonate, polysulfone	C	A	C	C
Foam: PVC, polyethylene	A	A	B	C
Foam: neoprene, urethane, polystyrene	C	C	C	C
Rubber: SBR, Buna N, GRS	C	A	A (3)	C
Rubber: neoprene	B	A	A (3)	C
Rubber: silicone	A	A	A	B
Fabrics: wool, nylon, dacron, cotton and plastic-coated	C	A	C	C

Notes:

(1) A = Recommended; B = Allowed; C = Prohibited

(2) Lacquer thinners used for cleaning purposes must have vapor pressures not greater than 45 mmHg [6 kPa] at 25°C [77°F].

(3) Test on sample of material before using noted solvent.

The **CLEANING** chapter specifies the methods and processes, or refers to the **Cleaning Procedures** required for cleaning specific parts or areas of the equipment. For the list of consumables, refer to **Table 4001**.

CLEANING

C. Metal Parts.

- (1) Moisten a clean, dry cloth with a chlorinated dry cleaning solvent and thoroughly wipe metal parts fully clean. Do again as necessary to remove stubborn accumulation of dirt and grease. Dry with a fresh, clean, dry cloth.

D. Fabric-Backed Vinyls.

- (1) This type of material should be cleaned with a mild soap and water solution, such as Ivory Liquid Soap, and wiped clean and dry. Do not use solvent-type cleaners.

E. Leather Seat Covers.

- (1) Regular cleaning can be done simply by using a damp cloth, taking care not to soak the leather. Wring out a soft cloth in soap suds (mild soap and do not use a detergent). Apply to the surface of the leather in a light, circular motion until the dirty parts are clean. Do this procedure again with clean cloth and clean water.

CAUTION: DO NOT USE SADDLE SOAP OR WAX POLISHES.

DO NOT USE ANY SPRAY POLISHES THAT CONTAIN SILICONE.
SILICONE WILL CAUSE AN UNWANTED, STICKY SURFACE.

DO NOT USE ANY CLEANING FLUID WHICH DOES NOT
SPECIFICALLY TELL THAT IT CAN BE USED ON LEATHER.

- (2) Proprietary products, made by leather manufacturers, are available. These neutral creams or waxes are designed to restore the original sheen. These should not be used until the leather has first been cleaned with a damp clean cloth as outlined in step (1) above.

F. Plastic.

CAUTION: CLEANING AGENTS WITH CHLORINATED HYDROCARBONS WILL MAR PLASTIC AND ITS MAKEUP. LONG TIME USE OF ANY SUCH CLEANING AGENT IS NOT RECOMMENDED.

- (1) Extreme care should be taken in cleaning all plastic. Do not use abrasive soaps and bleaches to clean any plastic materials. All plastic surfaces should be cleaned with a mild soap and water solution or recommended plastic cleaner, such as those mentioned below.
- (2) Mix liquid soap or plastic cleaner with water to necessary concentration, depending on strength needed for cleaning purposes. Apply solution directly to surface and rub with a clean, lint-free cloth to loosen dirt and debris. Wipe off with fresh, clean, lint-free cloth or rinse with water and dry with a Turkish towel.

WARNING: DO NOT USE CLOTHS CONTAINING GRIT OR ABRASIVE PARTICLES OR KITCHEN BRUSHING COMPOUNDS ON KYDEX 510 SURFACES.

WARNING: USE ONLY APPROVED CLEANERS ON KYDEX 510 SURFACES; NON-APPROVED CLEANERS WILL MAKE A MARK ON, CUT OR MAKE THE UV-RESISTENT LAYER SOFT.

- (3) To clean KYDEX 510, dust it with a soft cloth or chamois and wipe the surface gently. Use soap and lukewarm water to remove light dirt. After washing dirt and rinsing, be sure to dry the surface by blotting with a damp cloth or chamois. If a cleaner must be used to remove heavier dirt or grease, "Joy" and "Ivory" detergents were found to be the most effective cleaners to remove this type of dirt (10% or less concentration).
- (4) It is possible that normal liquid cleaners or soap and water will not remove ground in dirt or grease. Stains such as iodine can be safely removed with Isopropyl Alcohol (45%). The higher concentration commercial grades of Isopropyl Alcohol will remove the stain, but will dull the film surface. To return the gloss, wax with Simoniz wax.
- (5) Light surface scratches and abrasions on KYDEX 510 can be removed by waxing with Simoniz. Deeper scratches can be removed by lightly buffing surface with a fine grade of rubbing compound. After application of the wax, polish the surface lightly with a clean cotton flannel or jersey cloth. After polishing, wipe area gently with a damp cloth to ground any electrostatic charges that can attract dust particles.

CMM DESCRIPTION & INSTRUCTIONS

■ CLEANING

■ INSPECTION/CHECK

■ REPAIR

■ DISASSEMBLY & ASSEMBLY

CHECK

Check Procedures
Table 5001

Procedure for Inspection	Check	Corrective Action
Visual	Check all parts for cleanliness.	Refer to Cleaning section to clean parts.
Visual	Check all metal parts for nicks, cuts, scoring, gouges, distortion, corrosion, or other damage which could impair operation.	Repair minor nicks and scratches. Replace damaged parts.
Visual	Check recline functionality.	Adjust per CMM (Refer to Fits and Clearances Adjustment Procedure).
Visual	Check for correct installation of bottom cushions and back cushion inserts. Check cushions, fireblocking and dress covers for excessive wear. (Refer to paragraph 2.L for inspection criteria).	Replace.
Visual	Check all seat belts for cut or worn edges, damaged stitching, broken fabric threads, excessive chafe marks, excessive wear/fusing. (Refer to paragraph 2.K for inspection criteria).	Replace.
Visual	Check track fitting for looseness, corrosion or other damage.	Adjust or Replace Accordingly.
Visual	Check functionality and leveling on back-mounted and IAT food table assemblies.	Adjust per CMM (Refer to Fits and Clearances Adjustment Procedure) or Replace.
Visual	Check bumper strips for damage (check corners).	Replace.
Visual	Check all armcaps for excessive wear.	Replace.
Visual	Check all food trays in seat backs and IAT for cracks and delamination.	Replace.
Visual	Check all bushings (seat backs, spreaders, eyebolts etc.) for excessive wear or looseness.	Replace.
Visual	Check spreaders and legs for looseness, cracks or other damage.	Repair looseness. If cracked or damaged, tell manufacturer of damages for replacement action.
Visual	Check all wear surfaces (slides, foodtable slides, cocktail trays, in arm food tables) for looseness and excessive wear.	Replace.

The **CHECK** chapter present the detailed procedures for Introduction / Check Procedures / Recommended Check Schedule / Replacement of Parts

CHECK

Inspection/Check

NOTE: Conduct checks under a bright light. Use a 5X to 7X power magnifying glass to detect surface flaws.

- A. Visually check that all parts are clean and free of cracks, corrosion, deterioration, and obvious signs of damage.
- B. Check security of all clamps and straps attaching leads and all other parts not removed during disassembly.
- C. Visually check all threaded parts for crossed or damaged threads. Reject part if thread damage exceeds 50% of one thread.

NOTE: If damage to any one thread is 50% or less, note defect and assign part for repair.

- D. Check sewn seams for fraying or separation and fabric for fraying, scuffing and rips.
- E. Check attaching bolts, nuts, screws and pins for tightness and floor attaching fittings for wear or deformation.
- F. Check helicoil inserts for damage and security of installation.
- G. Check structural parts including clips, brackets and machined parts for damage, cracks and sharp nicks.

NOTE: Burrs are defined as material raised above the normal surface, which if not removed would prevent full and correct mating of parts and sealing surfaces. Where nicks or scratches allow bare metal to show through a protective finish, note defect and assign part for repair. Dents or other damage must not impair finish or functional operation of any part.

- H. Check paint and finishes for chipping and worn marks, and note condition of bonding on parts and assemblies.
- I. Check data plate and placards for legibility and tight attachment.
- J. Check food table top shroud for nicks, cracks, stains or burns.

CHECK

K. Check seat belts for damaged or worn parts.

NOTE: Slight wear of the webbing is permitted however, excessive web wear that has progressed to cut or worn edges must be replaced. Refer to following criteria to make this determination.

- (1) A limited amount of "frayed" webbing will retain sufficient strength necessary to meet the mandatory strength. Frayed webbing is defined as broken filaments from either the warp (longitudinal) yams or the filler (transverse) yams. The number of broken filaments should not be sufficient to obscure the identity of any yarn when viewed from a distance of about 8.0 inches [20.3 cm].
- (2) Any web that is cut or torn deeper than 0.10 inches [0.25 cm] on the edge.
- (3) The amount of fray should be limited to an amount that is less than 10% of the width of the webbing and not to exceed 8.0 inches [20.3 cm] in length.
- (4) Webbing with more than 15 broken yarns in locations other than the edge.
- (5) Webbing that is frayed or distorted sufficiently to cause incorrect operation of any part of the restraint system.
- (6) Webbing has more than 15 stitches torn in a stitch pattern.
- (7) Seat belt markings are illegible.



Figure 1: Faded wording



Figure 2: Torn cushion

CAUTION: CUSHIONS MUST BE REPLACED IF THEY FEEL UNSTABLE (LOOSE PIECES, BRITTLE, ETC.).

- L. Check cushions for wear and damage to fireblock and dress cover. Repair if there are rips, gaps or loose seams. Cushions should be replaced at two year intervals to guarantee maximum comfort.

CMM DESCRIPTION & INSTRUCTIONS

■ CLEANING

■ CHECK

■ REPAIR

■ DISASSEMBLY & ASSEMBLY

REPAIR

Recommended Repair Materials
Table 6001 (Sheet 1 of 2)

Material	Identification	Source
Abrasive cloth, aluminum oxide, 120 grit or finer	Federal Specification P-C-451	Commercially available
Abrasive cloth, 320 grit or finer	Federal Specification P-C-451	Commercially available
Adhesive	2000NF and 2262	3M Company, St. Paul, MN
Adhesive	100NF	3M Company, St. Paul, MN
Adhesive	HH-66 Vinyl Cement VC-87	R-H Products Co. Inc Acton, MA
Anti-Seize	C-5 A Copper Stick (37229)	Loctite Corp. 705 N Mountain Rd. Newington, CT
Adhesive, Contact	M6308	Royal Adhesives & Sealants South Bend, IN
Adhesive, Epoxy	W135 A/B	Epoxies & Urethanes Fort Worth, Texas
Adhesive, Foam	Simalfa 308FR	Alfa Adhesives N. Haledon, NJ
Solvent	Cyclohexanone	Commercially available
Solvent	Tetrahydrofuran	Commercially available
Aliphatic Naphtha	Federal Specification TT-N-95B	Commercially available

Recommended Repair Materials
Table 6001 (Sheet 2 of 2)

Material	Identification	Source
Corrosion Preventative Petrolatum	Federal Specification MIL-C-10382D	Commercially available
Crocus Cloth	Federal Specification P-C-458	Commercially available
Detergent	"Joy" or similar	Commercially available
Glass cloth	3M 398FR WA9654-138-101	Atlan Dyess Fort Worth, TX
Kraft Paper		Commercially available
Stainless Steel Wool		Commercially available
Chromate Conversion Coating	Federal Specification MIL-DTL-5541F	Commercially available
Isopropyl Alcohol	Federal Specification TT-I-735A	Commercially available
Sodium Hydroxide	Federal Specification A-A-59260	Commercially available
Acetone	Federal Specification O-A-51	Commercially available
Toluene	Federal Specification TT-T-548F	Commercially available
Thread, Aramid	Federal Specification, 751, Type 301	Commercially available
Lubricant	41150 Super Lube	Synco Chemical Bohemia, NY
Lubricant	Lok-Cease 20/20 Brush Top Thread-Eze Ultra	NCH Corporation Irving, TX
Touch-up Paint	Masterthane (Color Matched)	H-I-S Paint Co. Oklahoma City, OK

The **REPAIR** chapter contains the detailed repair procedures and specifications to restoring parts to serviceable condition.

Note: Refer to CMM for more consumables items.

- Table 6001: For recommend repair materials.
- Table 6002: For approved material used for bonding.

REPAIR

Bonding with Epoxy and High Strength Adhesives
Table 6002 (Sheet 1 of 3)

SSUSA		Manufacturer or Suppliers			
T	C	G	L	R	
P	A	A	P	A	
E	S	D	E	S	
Product					
I	1	A	Hi-Temp 2214	Resin & Hardener	Alum
					3M 3M Center St. Paul, MN
					One part, general purpose 250.0°F [121.1°C] cure
I	2	A	DP-100FR	Resin & Hardener	Cream
					3M 3M Center St. Paul, MN
					Fast dry epoxy, bond non-metallic substrates, potting, and encapsulating materials (food tray table plastic to foam), 4-8 minute work life
I	2	A	DP-100 Plus Clear	Resin & Hardener	Clear
					3M 3M Center St. Paul, MN
					Fast setting, high shear strength, good seal performance properties, 4 minute work life
I	2	A	DP-420	Resin & Hardener	Off White
					3M 3M Center St. Paul, MN
					High sheer and peel (not for bonding aluminum to Kydex) 20 minute work life
I	2	A	DP-805	Resin & Hardener	Light Yellow
					3M 3M Center St. Paul, MN
					Bonds all plastics, 4 minute work life
I	2	A	DP-810	Resin & Hardener	Tan
					3M 3M Center St. Paul, MN
					Bonds all plastics, 8-10 minute work life

Bonding with Epoxy and High Strength Adhesives
Table 6002 (Sheet 2 of 3)

SSUSA		Manufacturer or Suppliers			
T	C	G	L	R	
P	A	A	P	A	
E	S	D	E	S	
Product					
I	2	A	EY 7016 A/B	Resin (A) Hardener (B)	Cream
					Epoxies and Urethanes Fort Worth, TX
					High density, fire retardant compound used for hard potting inserts into honeycomb panels
I	2	A	Epocast 50 A-1 9816	Resin (50 A-1) Hardener (9816)	Amber
					Huntsman Advanced Materials 5121 San Fernando Rd W. Los Angeles, CA
I	2	A	EY 7177A EY 7162B	Resin (A) Hardener (B)	Yellow
					Epoxies and Urethanes Fort Worth, TX
					Elevated service temp, -60.0°F to 220.0°F [-51.1°C to 104.4°C], used for mortise and tenon joint, metal-to-metal structure, etc.
I	2	A	Epoweld A/B	Resin (A) Hardener (B)	Gray
					Hardman, Inc. Belleville, NJ
					High peel strength metal bonding
I	2	A	W110 1812	Resin (110) Hardener (1812)	White
					Epoxies & Urethanes Fort Worth, Texas
I	2	A	W125 A/B	Resin (A) Hardener (B)	Light Gray
					Epoxies & Urethanes Fort Worth, Texas
I	2	A	W126A 9810	Resin (A) Hardener (9810)	Off White
					Epoxies & Urethanes Fort Worth, Texas
I	2	A	W135 A/B	Resin (A) Hardener (B)	Off White
					Epoxies & Urethanes Fort Worth, Texas
I	3	B	L-375-50	Supported Film	Water White
					J.D. Lincoln, Inc. Costa Mesa, CA
					250.0°F [121.1°C] cure

REPAIR

Thermoformed Plastic Shrouds.

- (1) The plastic shrouds are Kydex 510 material. A characteristic texture is also impressed on the appearance surface. These parts can be distorted by reheating to 325.0° F to 390.0° F [162.7°C to 198.8°C].
- (2) "Like-new" repair of plastic shrouds is not possible because it will be necessary to refinish the repaired areas with paint which has different wear characteristics than the original shroud material. In addition, the surface texture will be changed in the repaired area and restoration is difficult or even impossible to achieve.
- (3) Shrouds which are broken into two or more pieces should be discarded unless a fixture is devised as an external mold so that part shape will be retained during repair reinforcement procedures outlined below.

CAUTION: PLASTIC SHROUDS ARE DISSOLVED BY KETONES. USE ONLY ALIPHATIC NAPHTHA OR ISOPROPYL ALCOHOL NOT EXCEEDING 45% AS CLEANING SOLVENTS.

- (4) Remove shroud from substructure using care not to cause damage to or deform the parts. If shroud is bonded to substructure, a hot air gun can be used to make the adhesive bond line soft. Use care not to exceed 150.0°F [65.5°C] shroud temperature and not to deform the shroud while hot. Remove adhesive with Isopropyl Alcohol (<=45%) or Aliphatic Naphtha.
- (5) Clean shroud surfaces using a warm detergent solution. Refer to CLEANING for recommended cleaning procedures.

- (6) Where necessary, reinforce inside surface of shroud in damaged area as follows:
 - (a) Roughen an area at least 1.0 inch [2.5 cm] larger than damaged area with 80 grit abrasive cloth.
 - (b) Wipe bond area with Isopropyl Alcohol using clean, oil-free wipe.
 - (c) Apply HH-66 Vinyl Cement or VC-87 (Table 6001) adhesive to bond area.
 - (d) Laminate one layer of glass cloth to bond area.
 - (e) Apply epoxy to glass cloth and remove entrapped air bubbles with a roller or squeegee.
 - (f) Continue laminating layers of glass cloth and epoxy resin until necessary thickness is attained. Limit the reinforcement to that thickness which will permit reinstallation of reinforced shroud on its substructure. The necessary number of glass cloth reinforcements can be determined as follows:

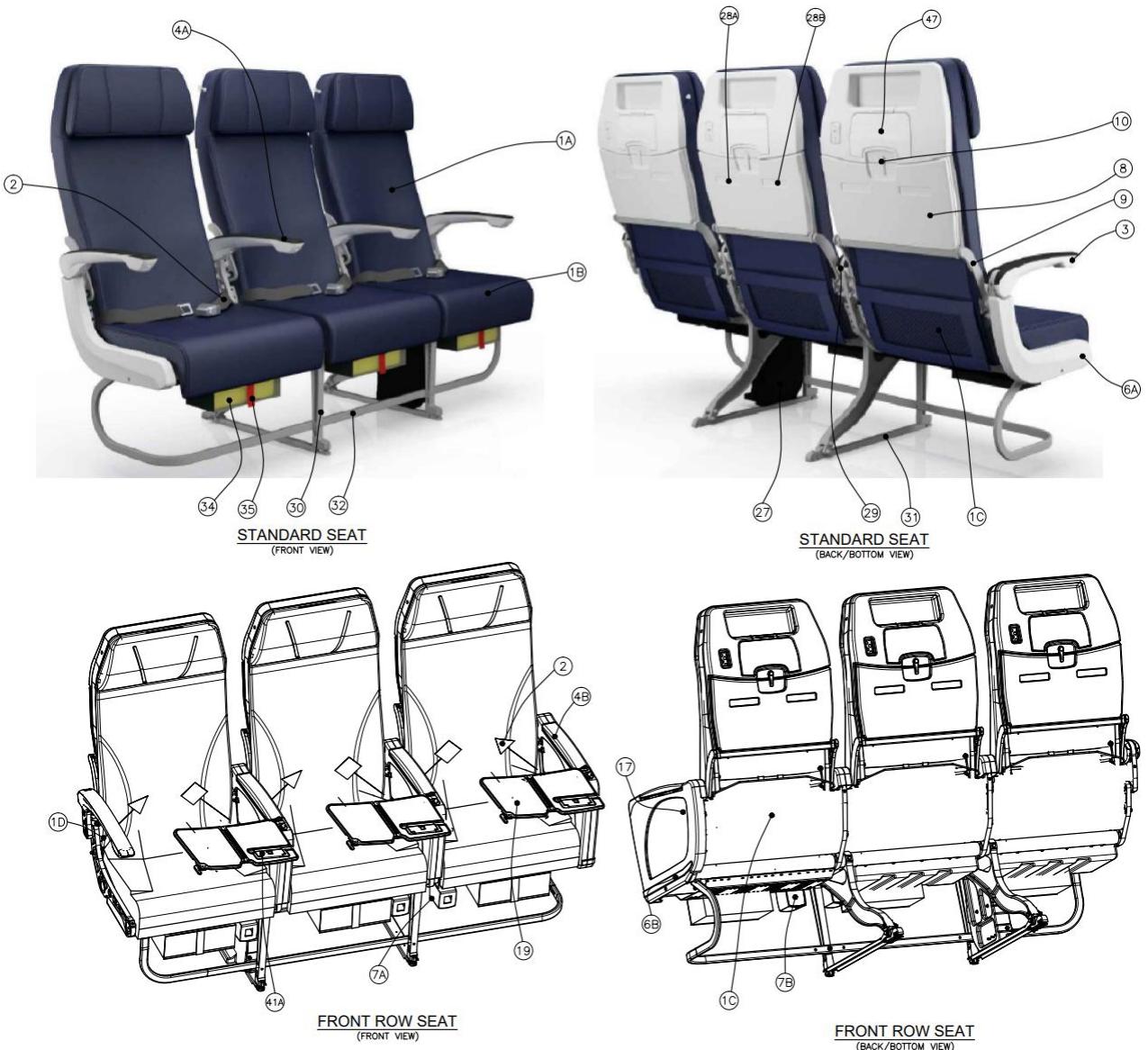
<u>Shroud Thickness (inch [cm])</u>	<u>Layers of Glass Cloth</u>
0.030 to 0.040 inch [0.076 to 0.102 cm]	1
0.041 to 0.055 inch [0.104 to 0.140 cm]	2
0.056 to 0.085 inch [0.142 to 0.216 cm]	3
0.086 to 0.125 inch [0.218 to 0.318 cm]	4

- (g) Cure epoxy resin reinforcements for 24 hours at room temperature, 75.0°F [23.8°C] or above. Cure can be accelerated by increasing temperature to 120.0°F [48.8°C] (max) which will cure resin in approximately four hours.

REPAIR

■ Trim and Finish (886467)

ITEM	NOMENCLATURE	MATERIAL	FINISH/TEXTURE	COLOR
2	SEAT BELT	POLYESTER		SEE TABLE 1
3	ARMREST-BODY	INJ. MOLDED		SEE TABLE 2
4A	ARMCAP-STD	INJ. MOLDED		SEE TABLE 2
4B	ARMCAP-FRONT ROW	INJ. MOLDED		SEE TABLE 2
5	ARMREST CLOSE OUT	ALUMINUM	SATIN BRUSH PER F-9.08	
6A	CART BUMPER-STD	INJ. MOLDED		SEE TABLE 2
6B	CART BUMPER-FRONT ROW	ALUMINUM	POWDER COAT PER F-2.48 (WA9986-1211-XXXX)	SEE TABLE 2
7A	USB HOUSING	INJ. MOLDED		SEE TABLE 2
7B	USB HOUSING COVER	INJ. MOLDED		(BAC 701 BLACK) WC0080
8	FOOD TRAY TABLE SHROUD	PLASTIC SHEET	P-3 VELOUR MATTE	SEE TABLE 2
9	FOOD TRAY ARMS, PIVOT BLOCK & TORQUE TUBE	ALUMINUM	POWDER COAT PER F-2.48 (WA9986-4253-0174)	(QUICKSILVER II) WC0174
10	FOOD TRAY LATCH	ALUMINUM	POWDER COAT PER F-2.48 (WA9986-4253-XXXX)	SEE TABLE 2
11	UPPER LITERATURE POCKET	INJ. MOLDED		SEE TABLE 2
12A	BASE PED HOLDER	INJ. MOLDED		SEE TABLE 2
12B	HINGE PED HOLDER	ALUMINUM	GLASS BEAD PEEN CLEAR CHEMICAL FILM PER F-9.29	
13	HANDLE PED HOLDER	INJ. MOLDED		SEE TABLE 2
14	SLIDER PED HOLDER	INJ. MOLDED		SEE TABLE 2
15	SHROUD UPPER LIT POCKET	PLASTIC SHEET	VELOUR	SEE TABLE 2
16	SHROUD PED HOLDER COVER	PLASTIC SHEET	VELOUR	SEE TABLE 2
17	IAT SHROUDS	PLASTIC SHEET	VELOUR	SEE TABLE 2
18	ESCUTCHEON-IAT	STAINLESS STEEL	SATIN BRUSH PER F-9.15	



REPAIR

■ Trim and Finish (886467)

4 TABLE 1: SEAT BELT COLOR OPTIONS		
	COLOR DESCRIPTION	PART NUMBERS
OPTION A (-4010 INSTL)	ORANGE	STD 2194-1-241-8213 Y-BELT LH 2143-1-091-8213 Y-BELT RH 2143-1-101-8213
OPTION B (-4030 INSTL)	BRIT BLUE	STD 2194-1-241-3577 Y-BELT LH 2143-1-091-3577 Y-BELT RH 2143-1-101-3577

4 TABLE 2: COLOR OPTIONAL ITEMS								
	INJECTION MOLDED MATERIALS			PLASTIC SHEET WA9452-047-XXX	POWDER COAT WA9986-4253-XXXX	PLASTIC SHEET WA9478-098-XXX	PLASTIC SHEET WA9478-047-XXX	SAFETY PLACARD BACKGROUND COLOR
	WA9500-124 (LEXAN 940)	WA9500-115 (LEXAN FST 9705)	WA9500-116 (LEXAN EXL 1463T)					
APPLICABLE ITEMS	3, 6A	7A	11, 12A, 13, 14	8, 19	10, 20, 22, 23, 40 41A, 41B, 42, 43, 44	15, 36, 37B	16, 17, 37A, 38	47
OPTION A (-4010 INSTL)	C9100618 GRAY MIST (WC0020)	C9100622 GRAY MIST (WC0020)	C9100620 GRAY MIST (WC0020)	WA9452-047-255 GRAY MIST (WC0020)	WA9986-4253-0020 GRAY MIST (WC0020)	C9100617 GRAY MIST (WC0020)	C9100616 GRAY MIST (WC0020)	WC0020 GRAY MIST
OPTION B (-4030 INSTL)	C9100618 GRAY MIST (WC0020)	C9100622 GRAY MIST (WC0020)	C9100620 GRAY MIST (WC0020)	WA9452-047-255 GRAY MIST (WC0020)	WA9986-4253-0020 GRAY MIST (WC0020)	C9100617 GRAY MIST (WC0020)	C9100616 GRAY MIST (WC0020)	WC0020 GRAY MIST
	INJECTION MOLDED MATERIALS				POWDER COAT WA9986-1211-XXXX			
	WA9500-106 (TEXIN 285)	WA9500-146 (LEXAN EXL 9330)	WA9500-145 (LEXAN EXL 9405)					
APPLICABLE ITEMS	4A, 4B	45	46		6B			
OPTION A (-4010 INSTL)	C9100592 BUNKER (WC0322)	C9100894 GRAY MIST (WC0020)	C9100894 GRAY MIST (WC0020)		WA9986-1211-0013 WHEEL SILVER (WC0013)			
OPTION B (-4030 INSTL)	C9100892 MIDNIGHT SKY (WC0244)	C9100894 GRAY MIST (WC0020)	C9100894 GRAY MIST (WC0020)		WA9986-1211-0013 WHEEL SILVER (WC0013)			

CMM DESCRIPTION & INSTRUCTIONS

■ CLEANING

■ CHECK

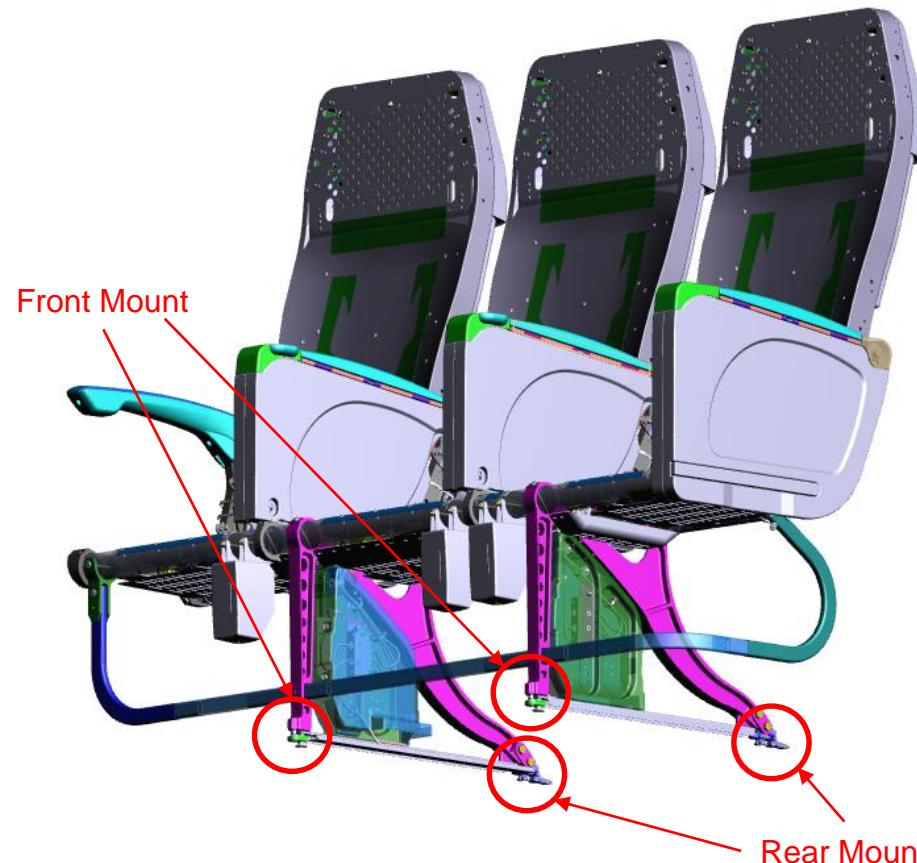
■ REPAIR

■ DISASSEMBLY & ASSEMBLY

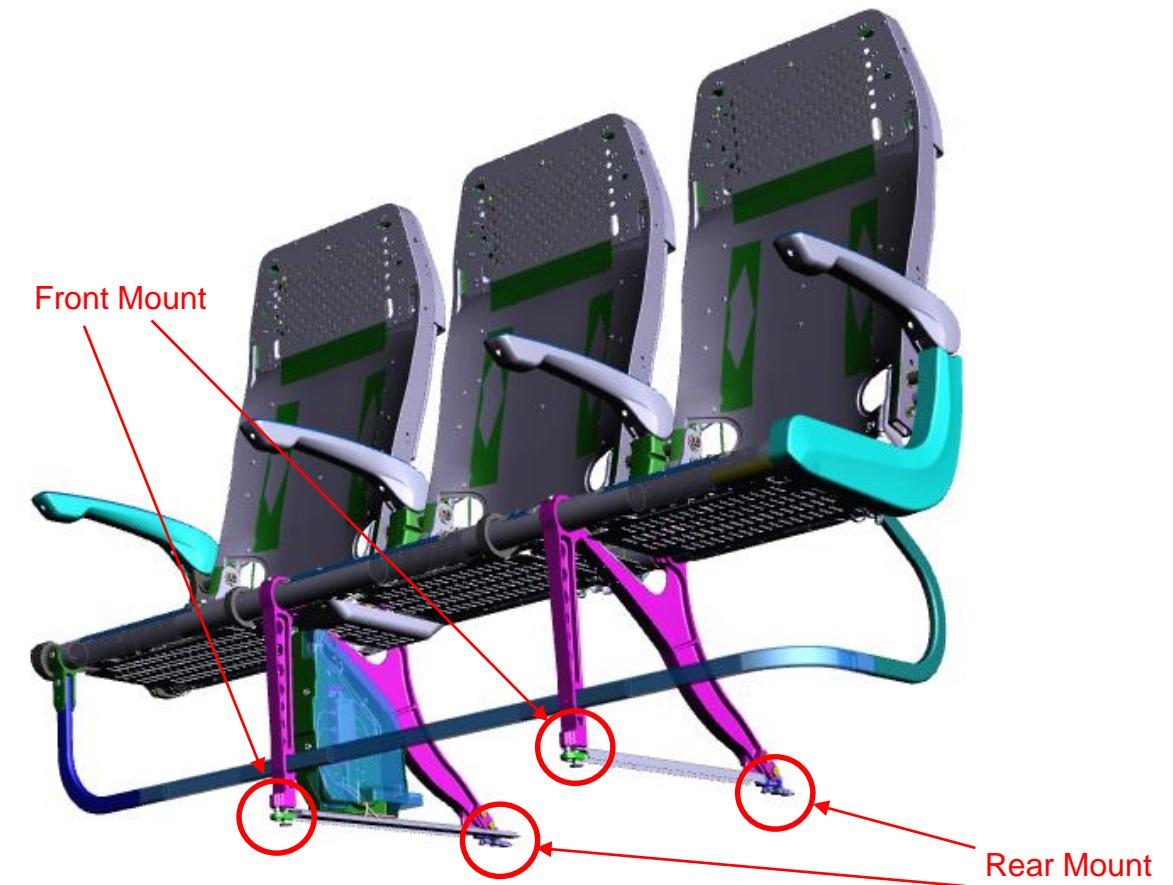
DISASSEMBLY & ASSEMBLY

■ Rear Mounting

**MODEL Z110i TOURIST CLASS FRONT ROW
TRIPLE SEAT ASSEMBLY**



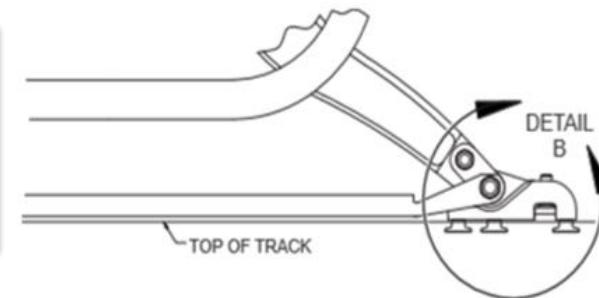
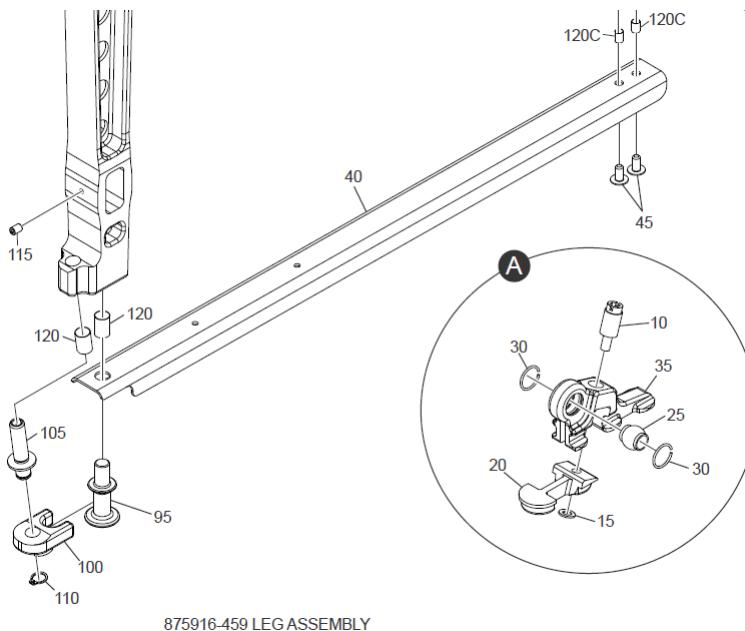
**MODEL Z110i TOURIST CLASS STANDARD
TRIPLE SEAT ASSEMBLY**



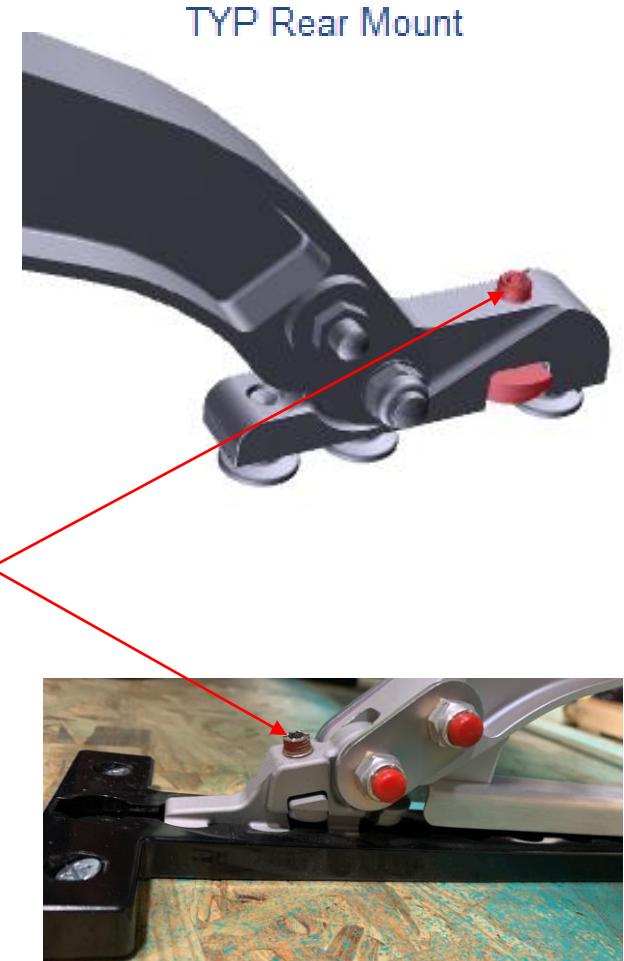
DISASSEMBLY & ASSEMBLY

■ Rear Mounting

- Place the seat on floor tracks and slide it forward or aft to the desired station number. Track fittings must align with the tracks when tightened for correctly installed (3/16" Allen Wrench)



Seat Track Fitting Installation and Adjustment



Torque front fitting to 35.00-37.00 in/lbs [3.95-4.18 N·m].

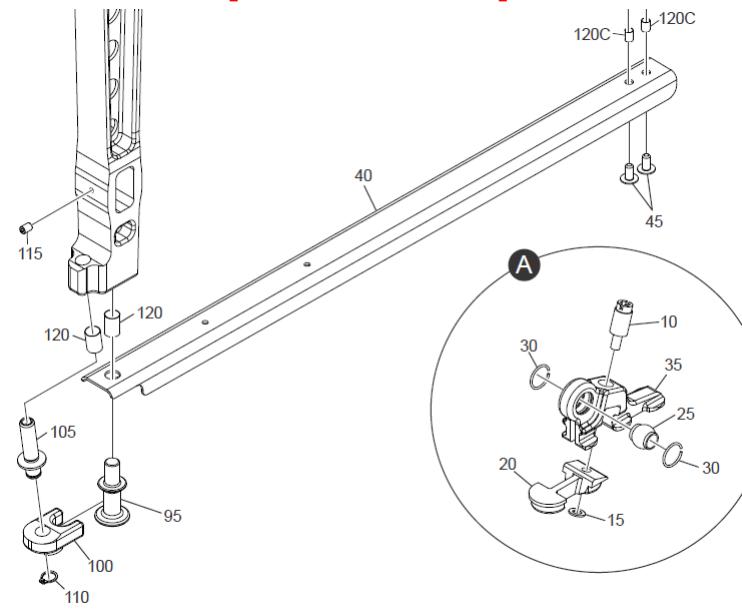
Torque rear fitting screws to 45.0 ± 10.0 in/lb [5.1 ± 1.1 N·m].

DISASSEMBLY & ASSEMBLY

■ Seat Track Fitting Installation and Adjustment

1. Use the applicable Aircraft Installation drawing to find the correct location for the front studs of the seat being installed.
2. Loosen anti-rattle fitting so that the seat will slide in the tracks.
3. Install seat so that the front studs are in the correct position.
4. **Torque front fitting to 35.00-37.00 in/lbs [3.95-4.18 N·m].**
5. Rear track fitting must align with track when tightened to be correctly installed (Painted portion of the track fitting screw adjuster should be sub-flush with the track fitting upper surface when viewed from the side).

Torque rear fitting screws to 45.0 ± 10.0 in/lb [5.1 ± 1.1 N·m].



875916-459 LEG ASSEMBLY

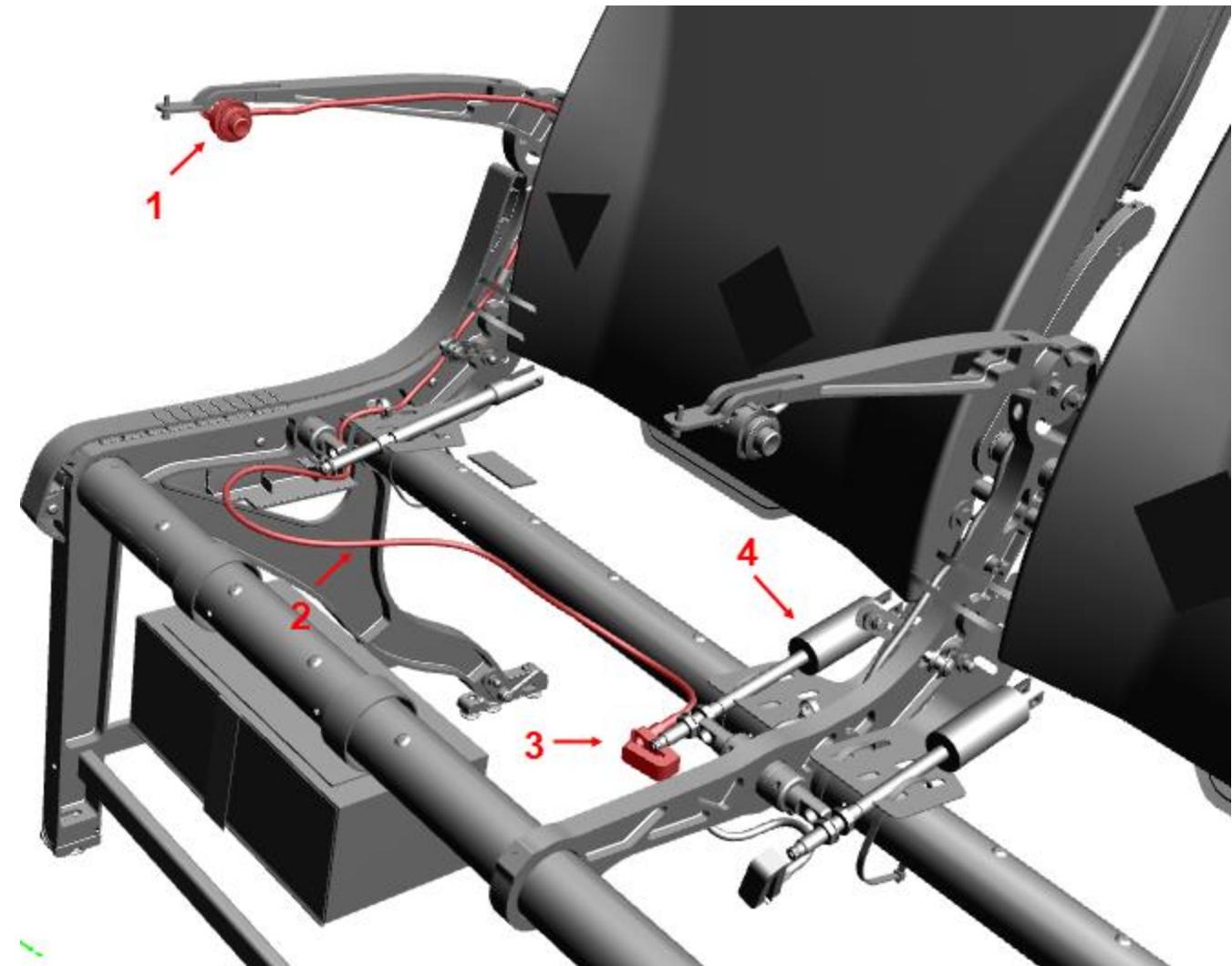
DISASSEMBLY & ASSEMBLY

■ Seat Back Recline System

The seat backs recline mechanism consists of;

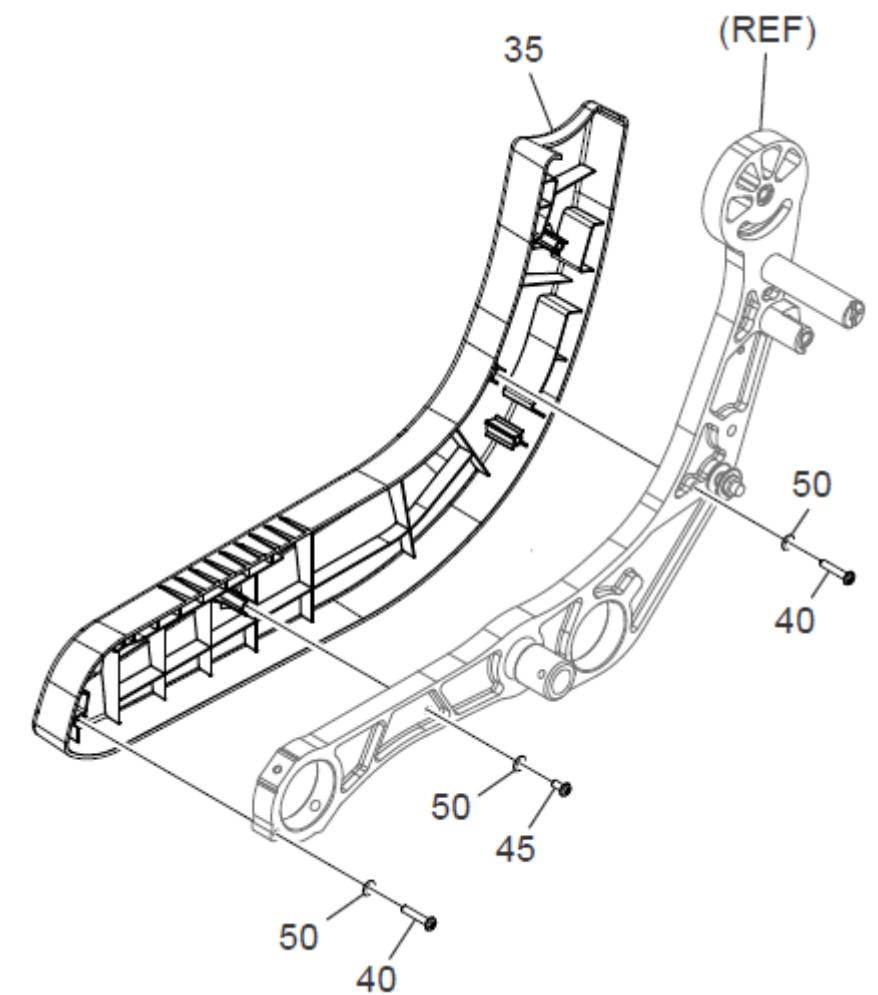
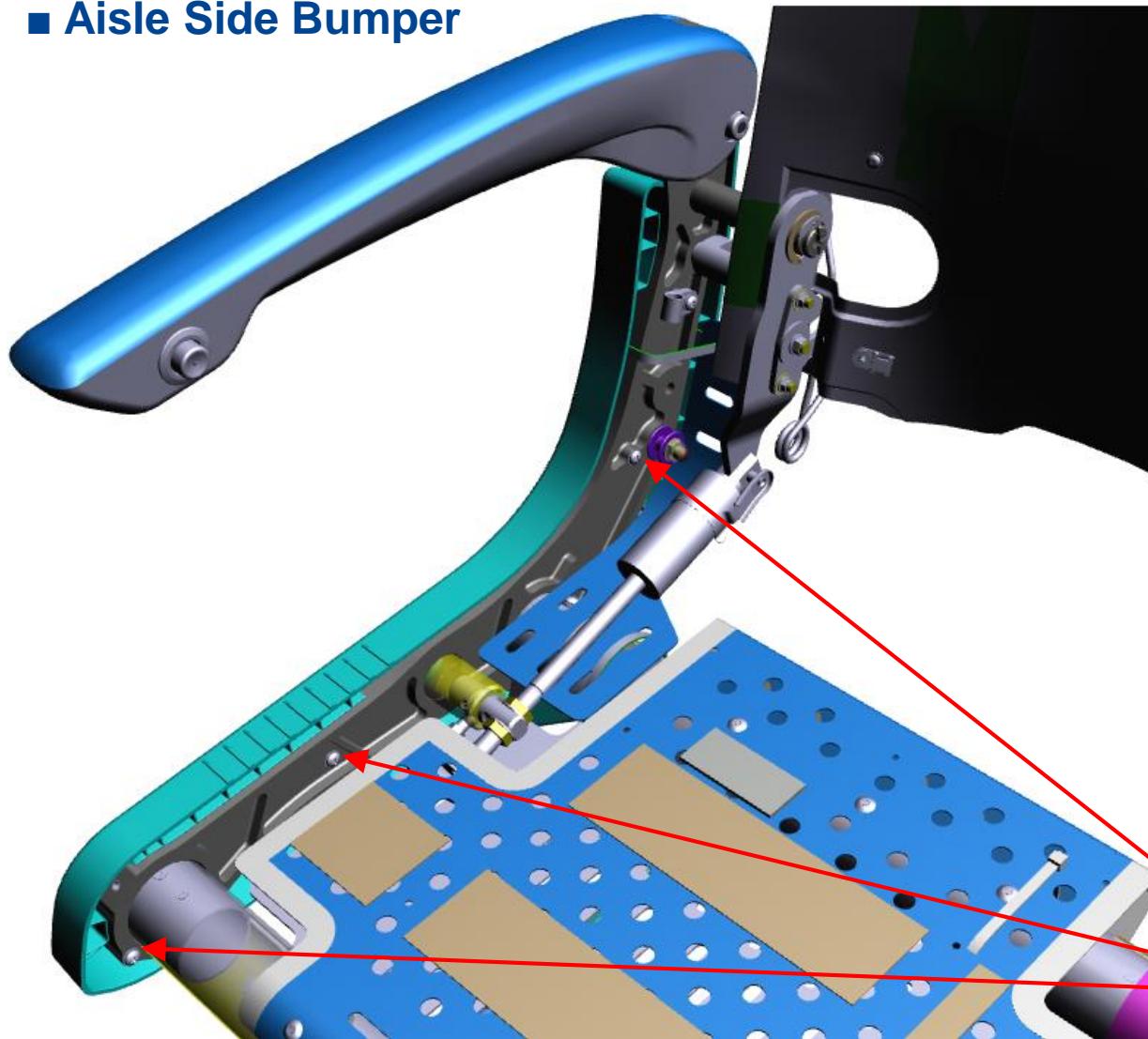
1. Armrest Control Button
2. Connecting Cable
3. Actuator
4. Hydraulic Cylinder

Depressing the control button engages the hydraulic cylinder allowing seat back recline when pressure to the seat back is applied. The upright return function is enabled through a return spring.



DISASSEMBLY & ASSEMBLY

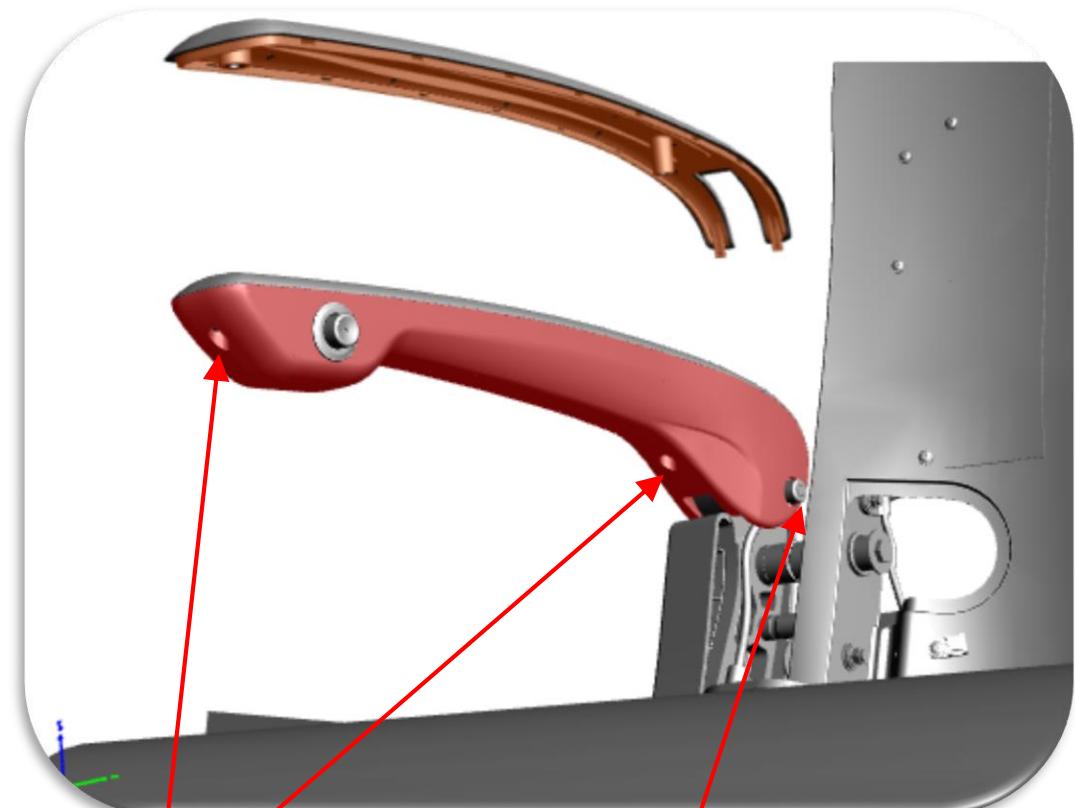
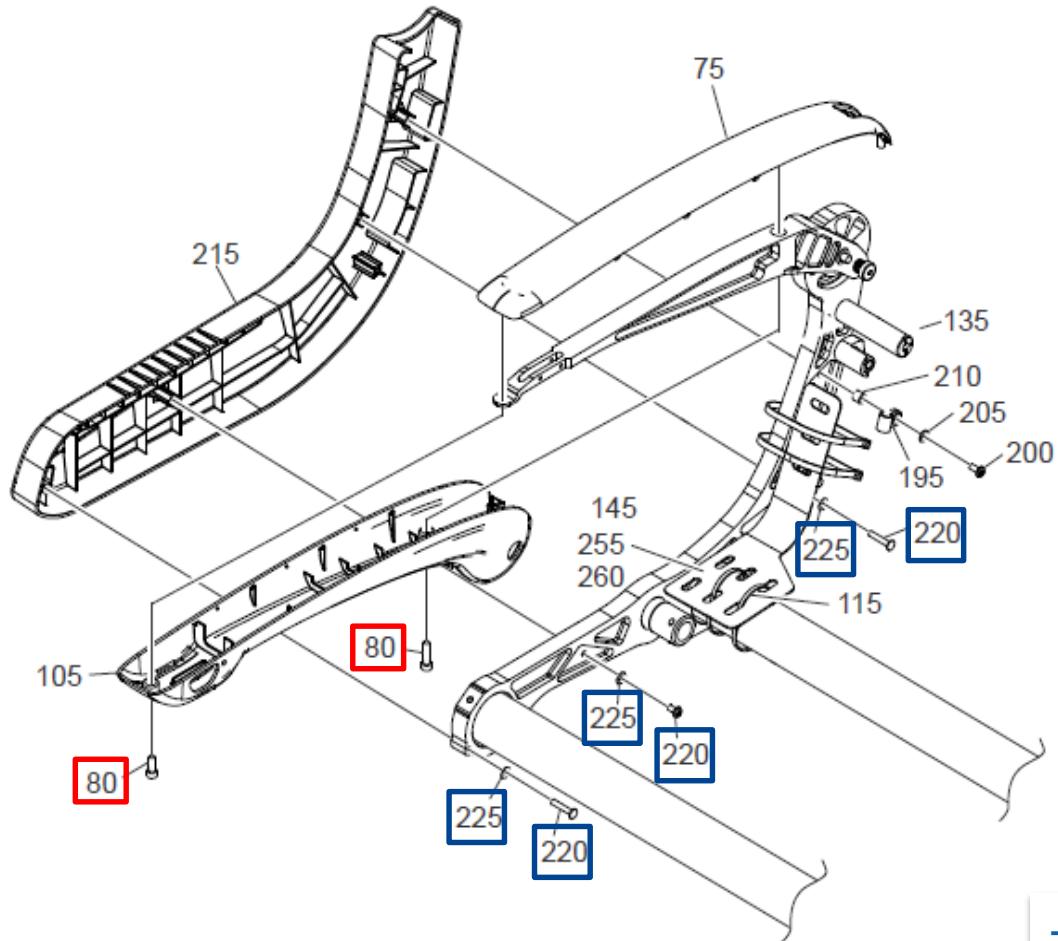
■ Aisle Side Bumper



- Remove the screws on the side of the frame

DISASSEMBLY & ASSEMBLY

■ Arm cap

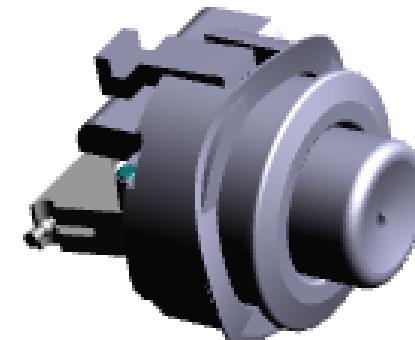
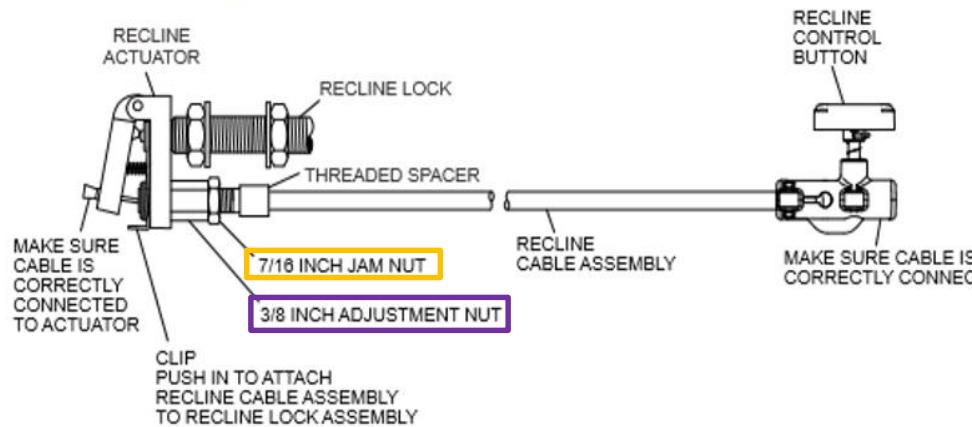


- Remove the screws under the arm assy

- Aisle side handicap arm release

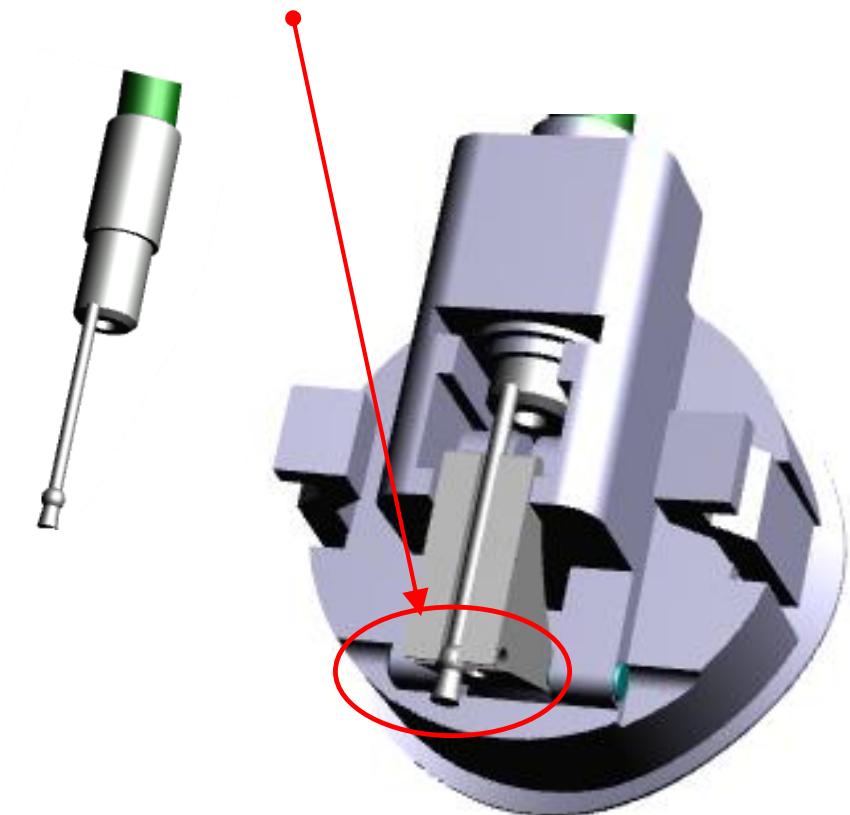
DISASSEMBLY & ASSEMBLY

■ Recline Control Button



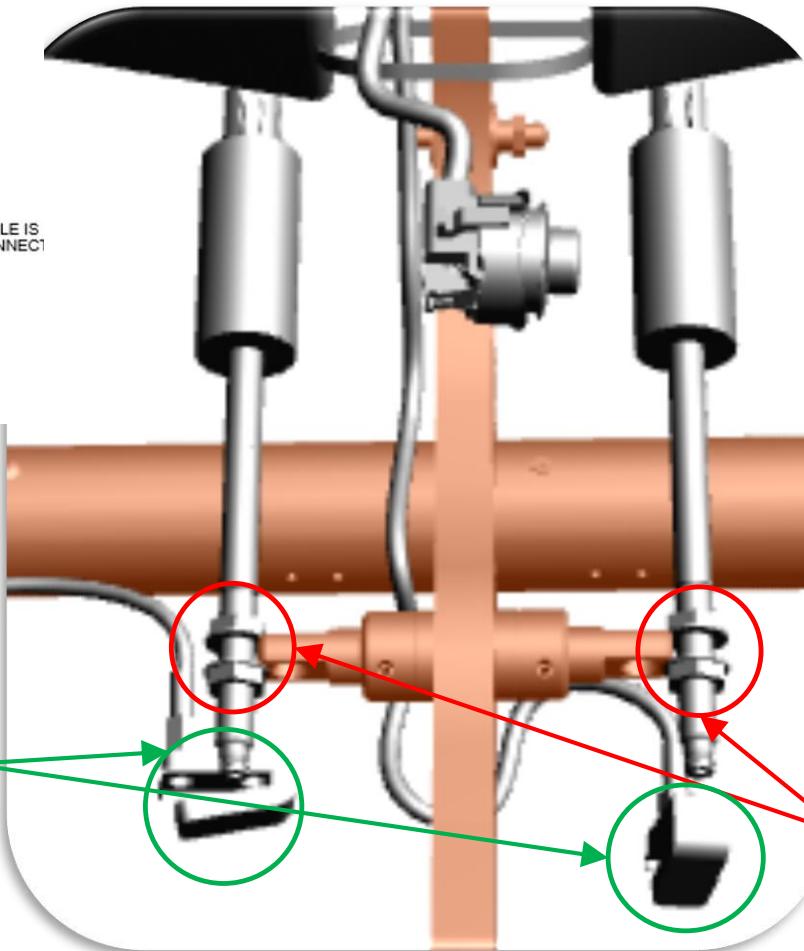
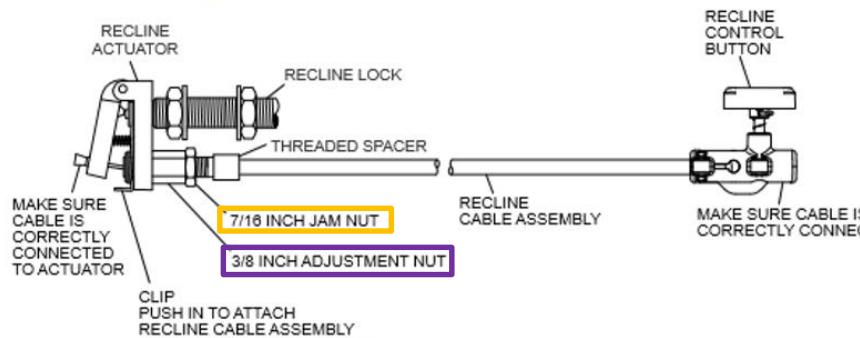
Control cable engagement with cam.

To remove cable: move the cam so the cable ball end can be removed from the slot and remove the cable from the housing assy. **Maintain cable routing for proper operation.**



DISASSEMBLY & ASSEMBLY

■ Seat Back and Cable Adjustment



Recline button and cable adjustment

1. Make sure cable is correctly connected to actuator.
2. Back off the jam nut (**7/16" Wrench**)
3. Adjust cable length (**3/8" Wrench**)
4. Tighten jam nut.

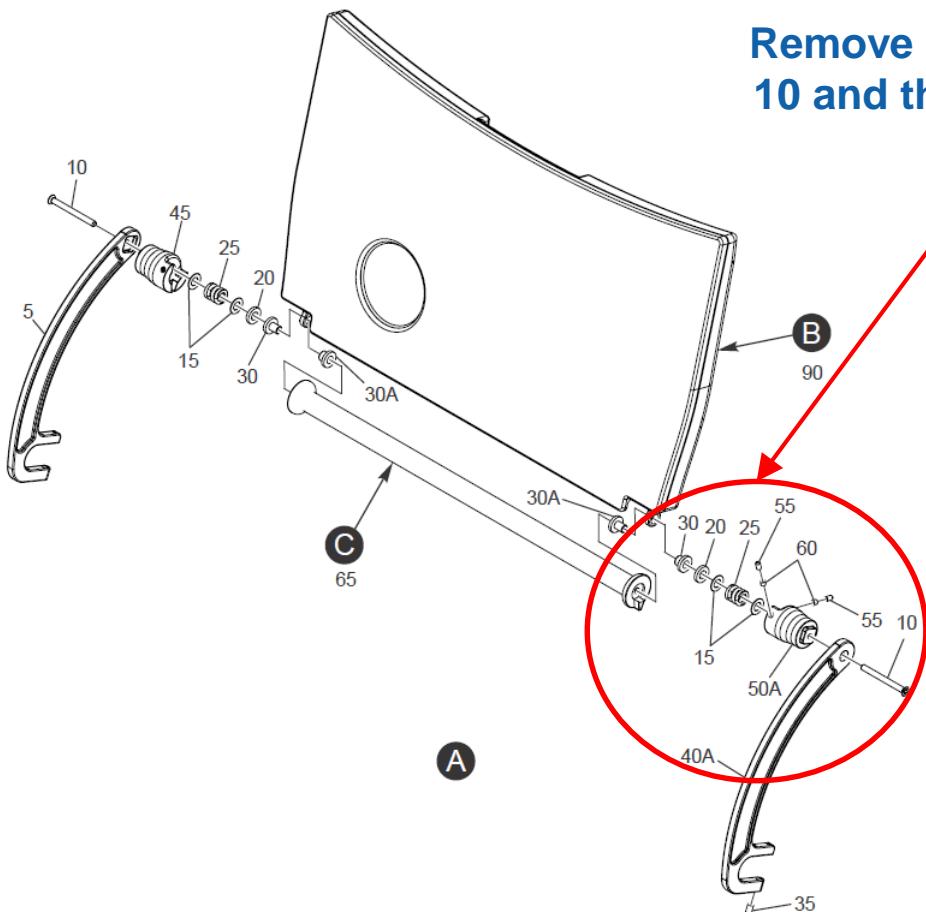


Seat back adjustment

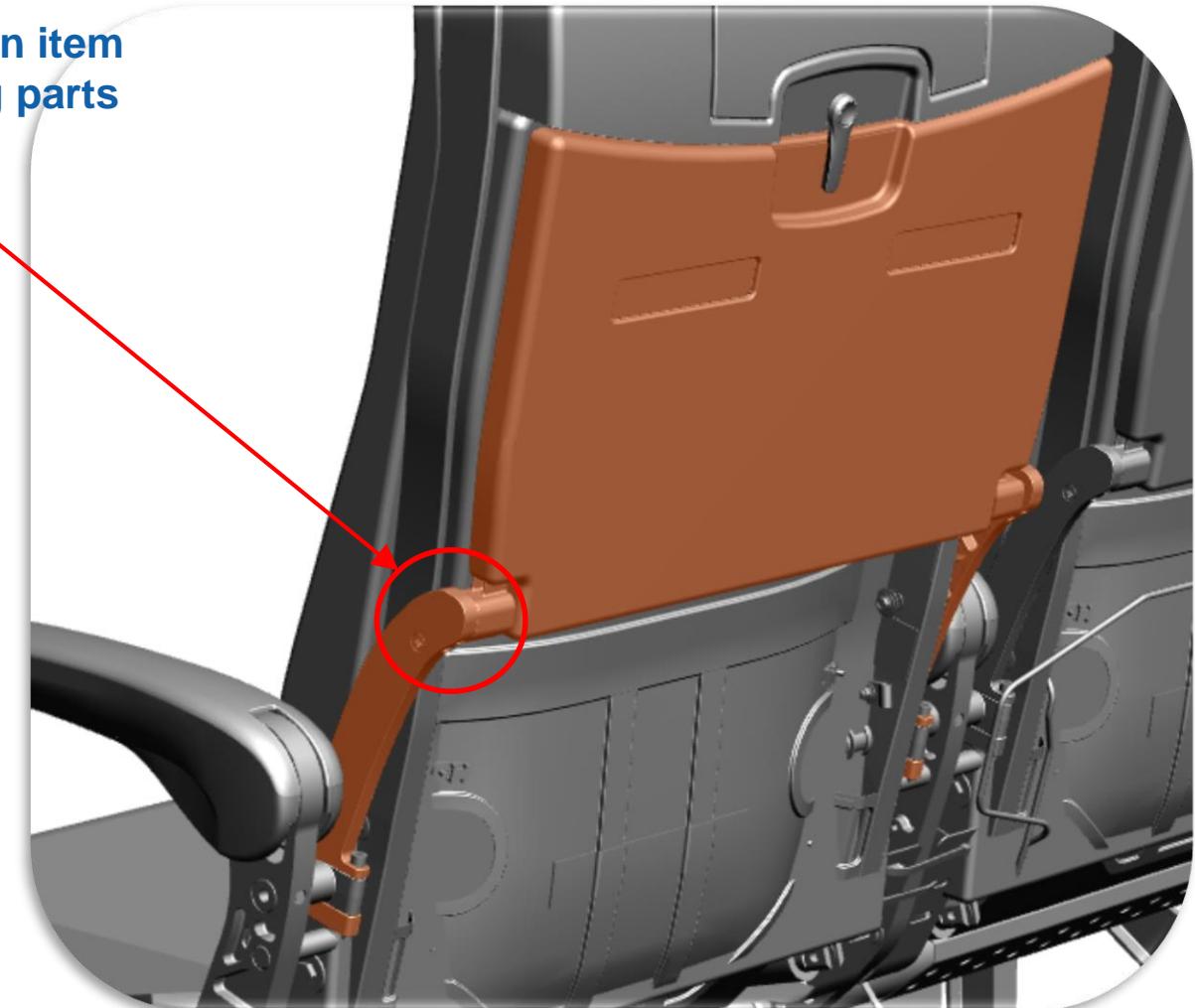
1. Adjust upright and seat back recline. (**9/16" Wrench**)

DISASSEMBLY & ASSEMBLY

■ Aft-Mounted Food Table Removal

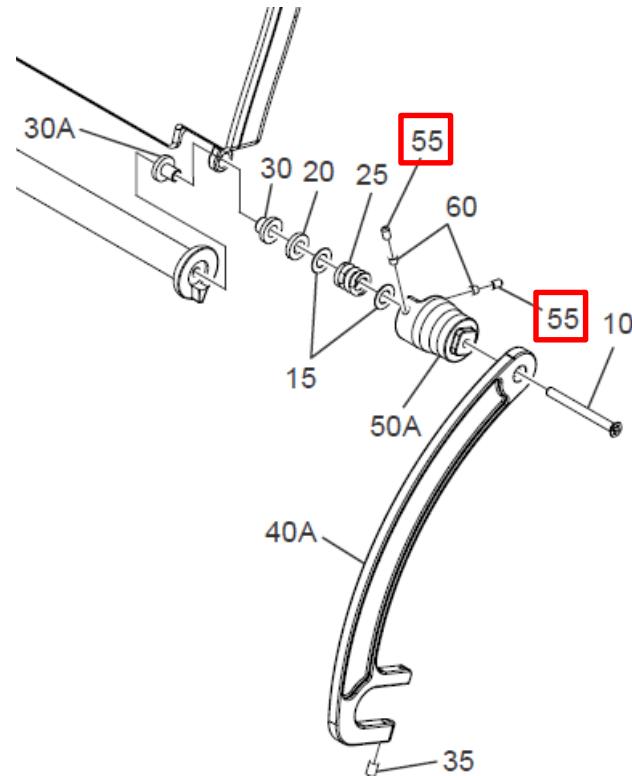
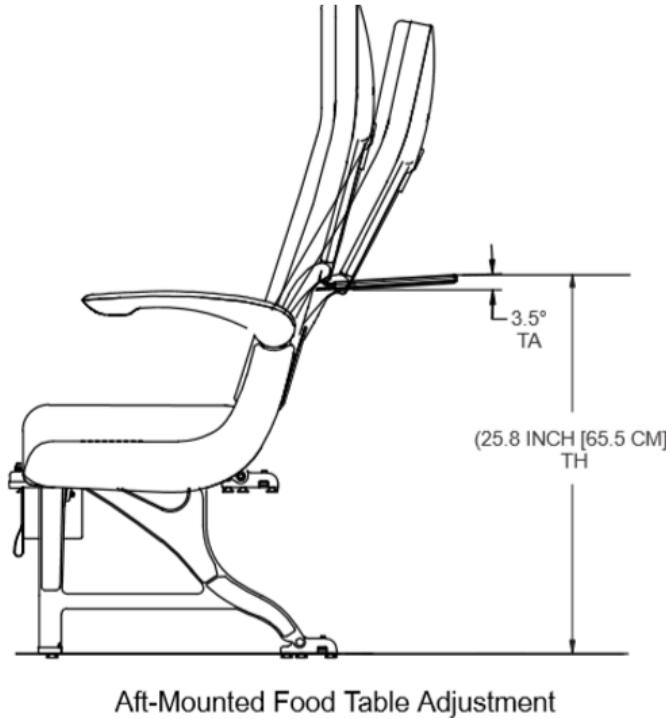


Remove the screw on item 10 and the attaching parts



DISASSEMBLY & ASSEMBLY

■ Aft-Mounted Food Table Adjustment

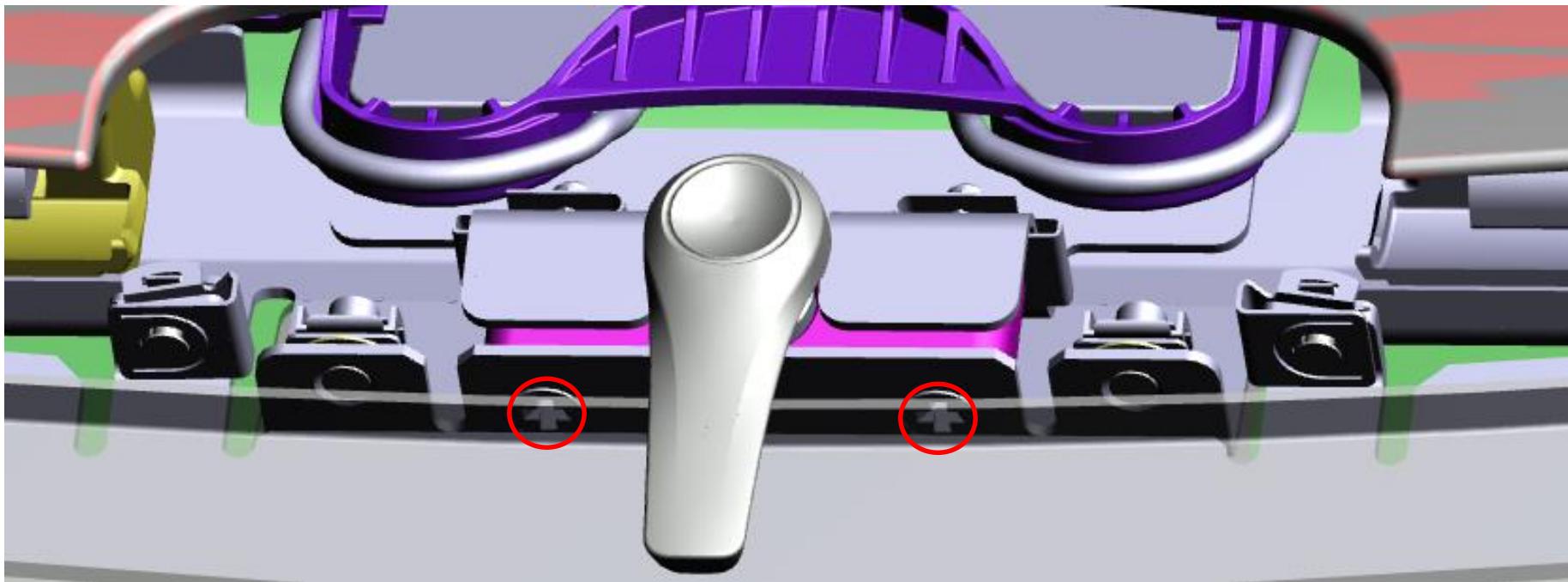


Food tray adjustment

1. Use the 5/64 Allen Wrench
2. Use item 35 to set height of the table with respect to aircraft floor
3. Use item 55 (both of them) are use to level the table. Loosen both to move table and tighten both after adjustment

DISASSEMBLY & ASSEMBLY

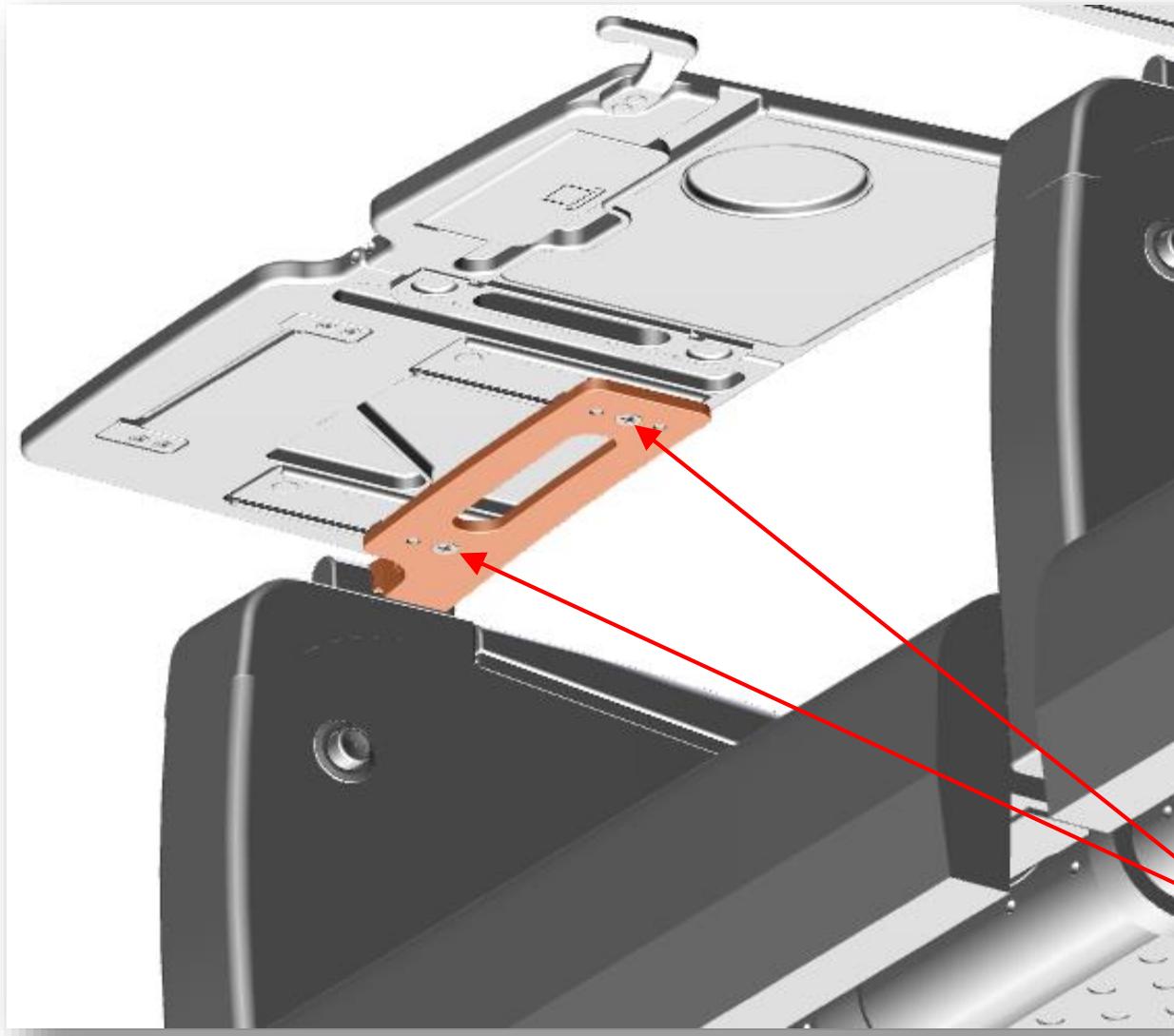
■ Latch Assembly



Loosen the two screws for the removal of the latch assembly. The screws next to the latch secure the Upper Shroud to the Upper Shroud Frame. The two screws on the outside secure the Upper Shroud to the Upper Lit Shroud

DISASSEMBLY & ASSEMBLY

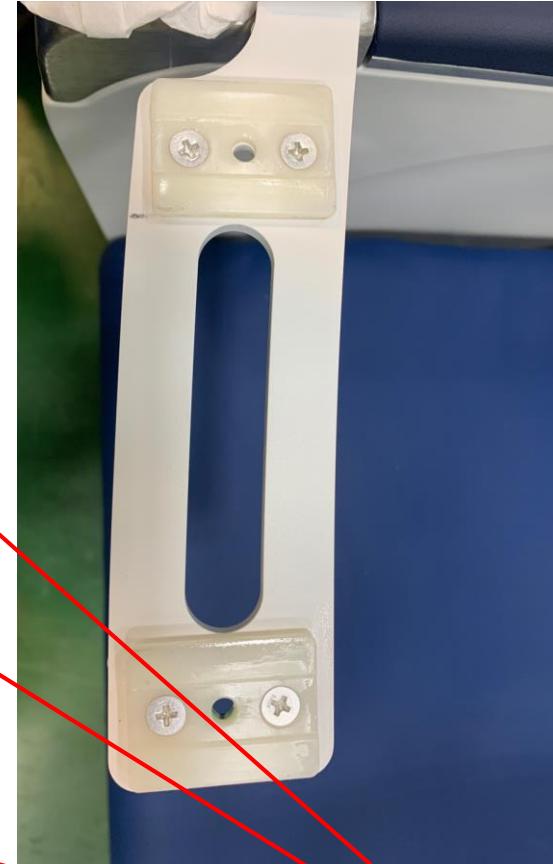
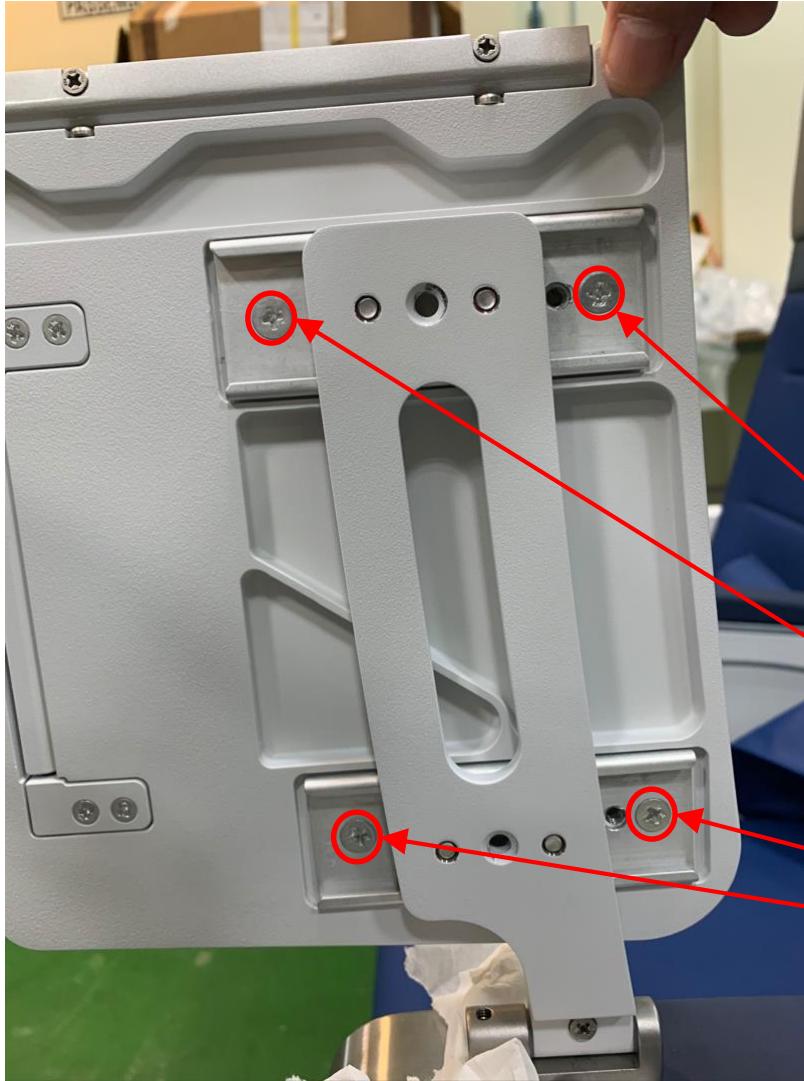
■ In-Arm Food Table Removal



Unloosen the screws and slide the tray table

DISASSEMBLY & ASSEMBLY

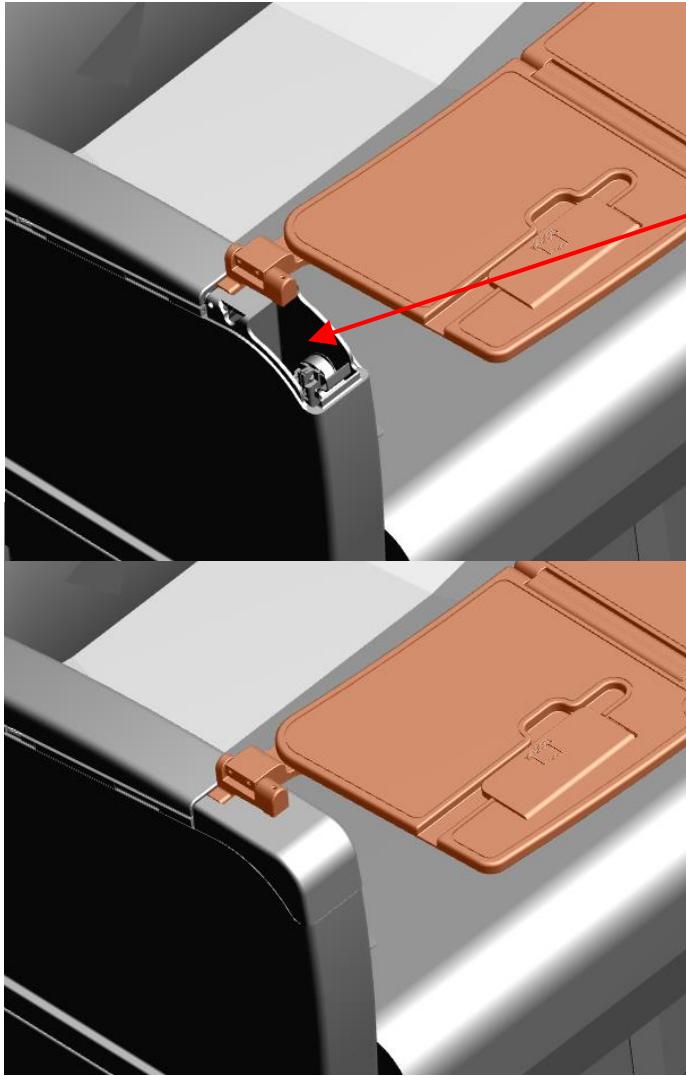
■ In-Arm Food Table Removal



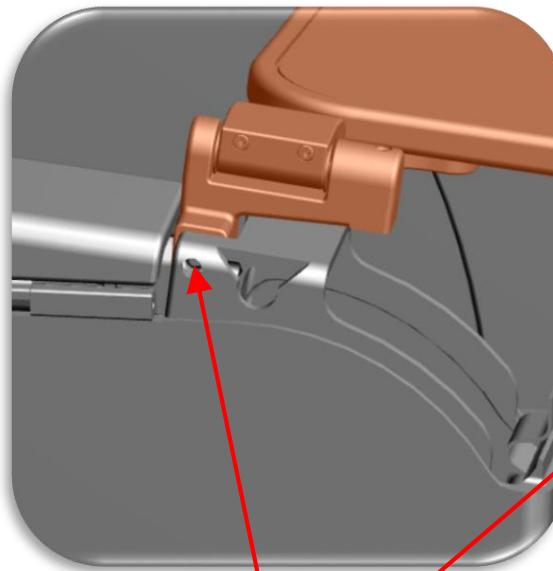
Remove the 4 screws and slide the tray table off from the track

DISASSEMBLY & ASSEMBLY

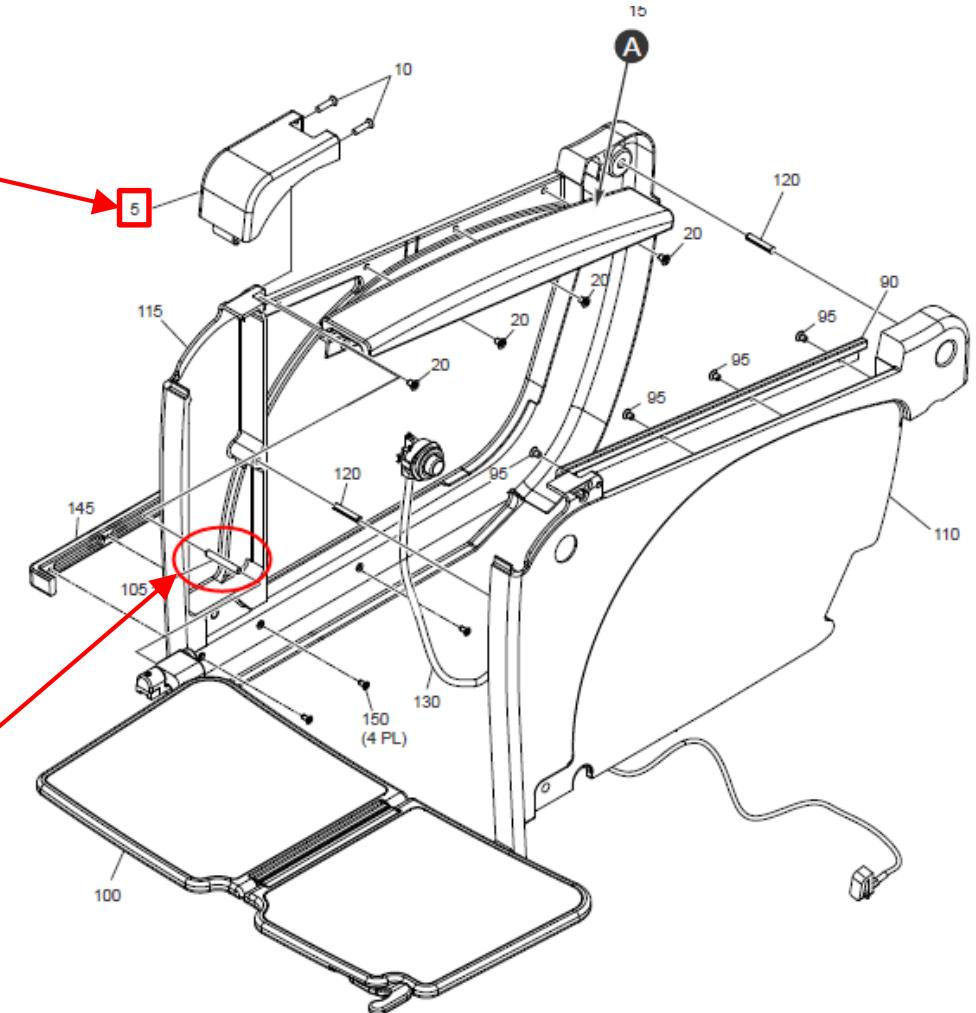
■ In-Arm Food Table Arm Removal with Food Table Attached



1- Remove the ECUTCHEON

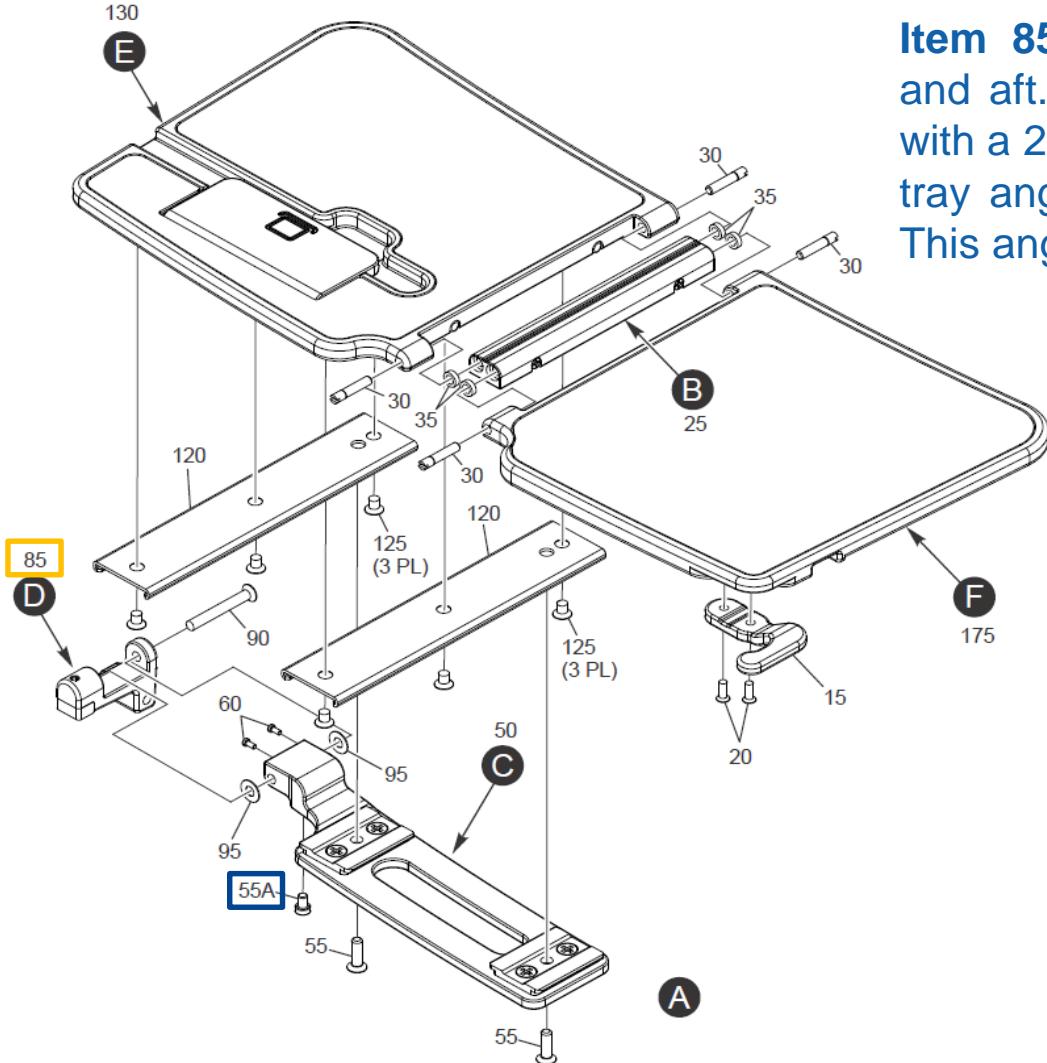


2- Remove the PIN



DISASSEMBLY & ASSEMBLY

■ In-Arm Food Table Adjustment

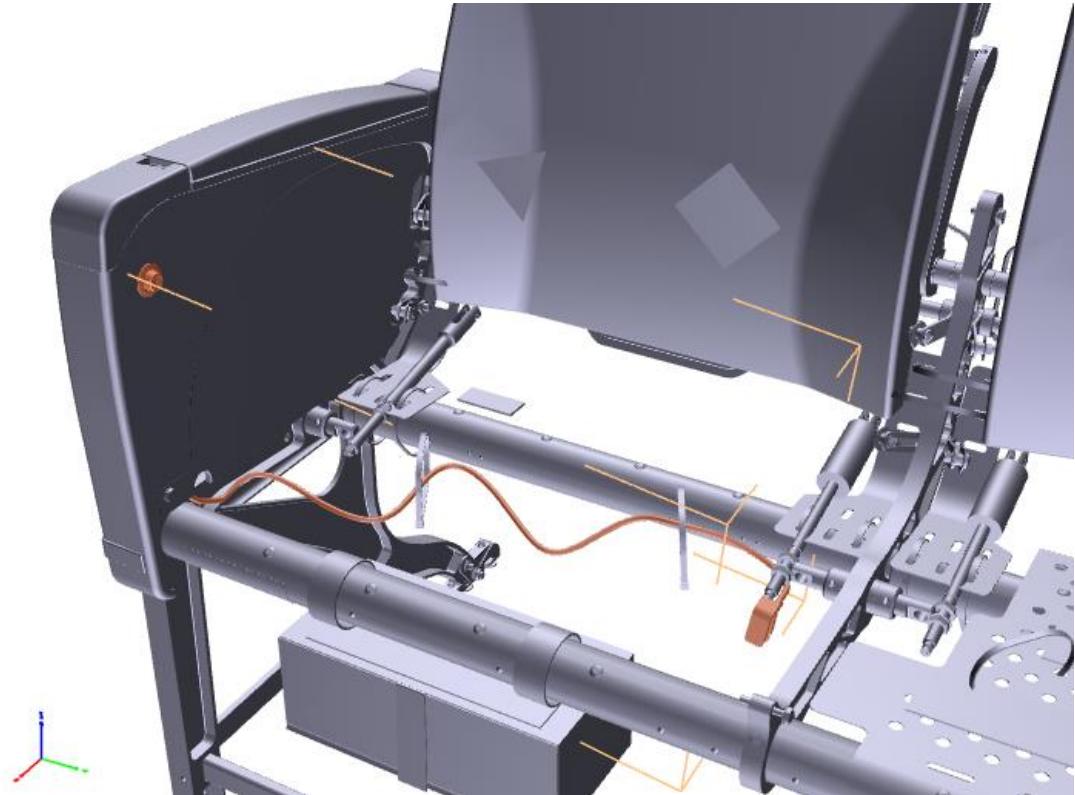
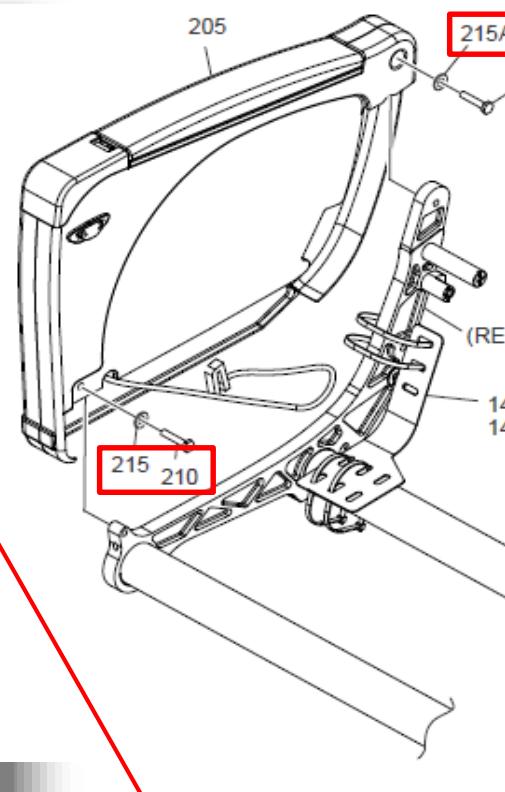
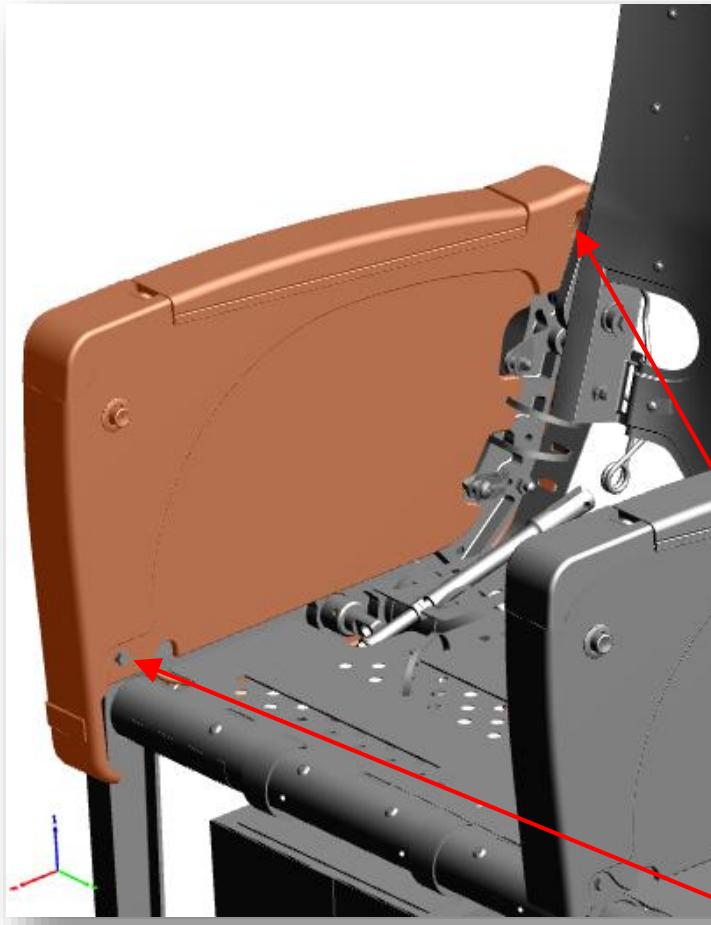


Item 85 adjusts the tray angle fwd and aft. The tray should be adjusted with a $2.5^\circ \pm .5^\circ$. **Item 55A** adjusts the tray angle across the passenger lap. This angle should be adjusted up 1° .



DISASSEMBLY & ASSEMBLY

■ Armrest Assembly (IAT)

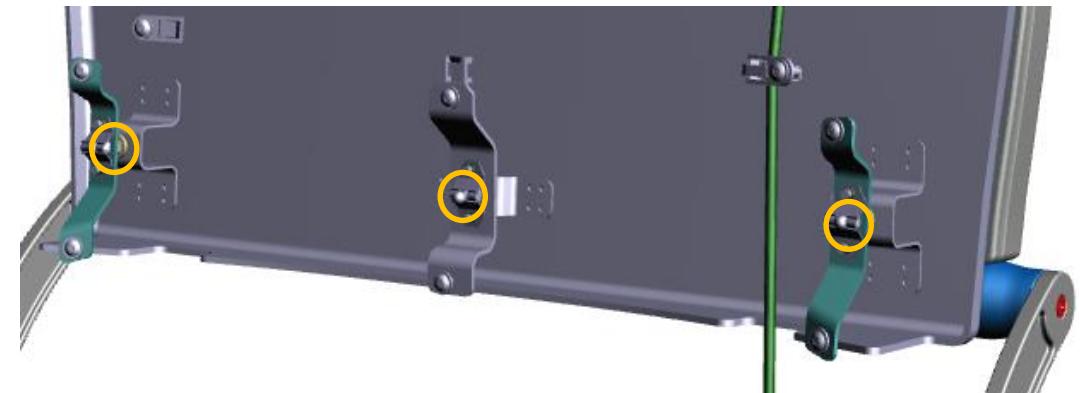
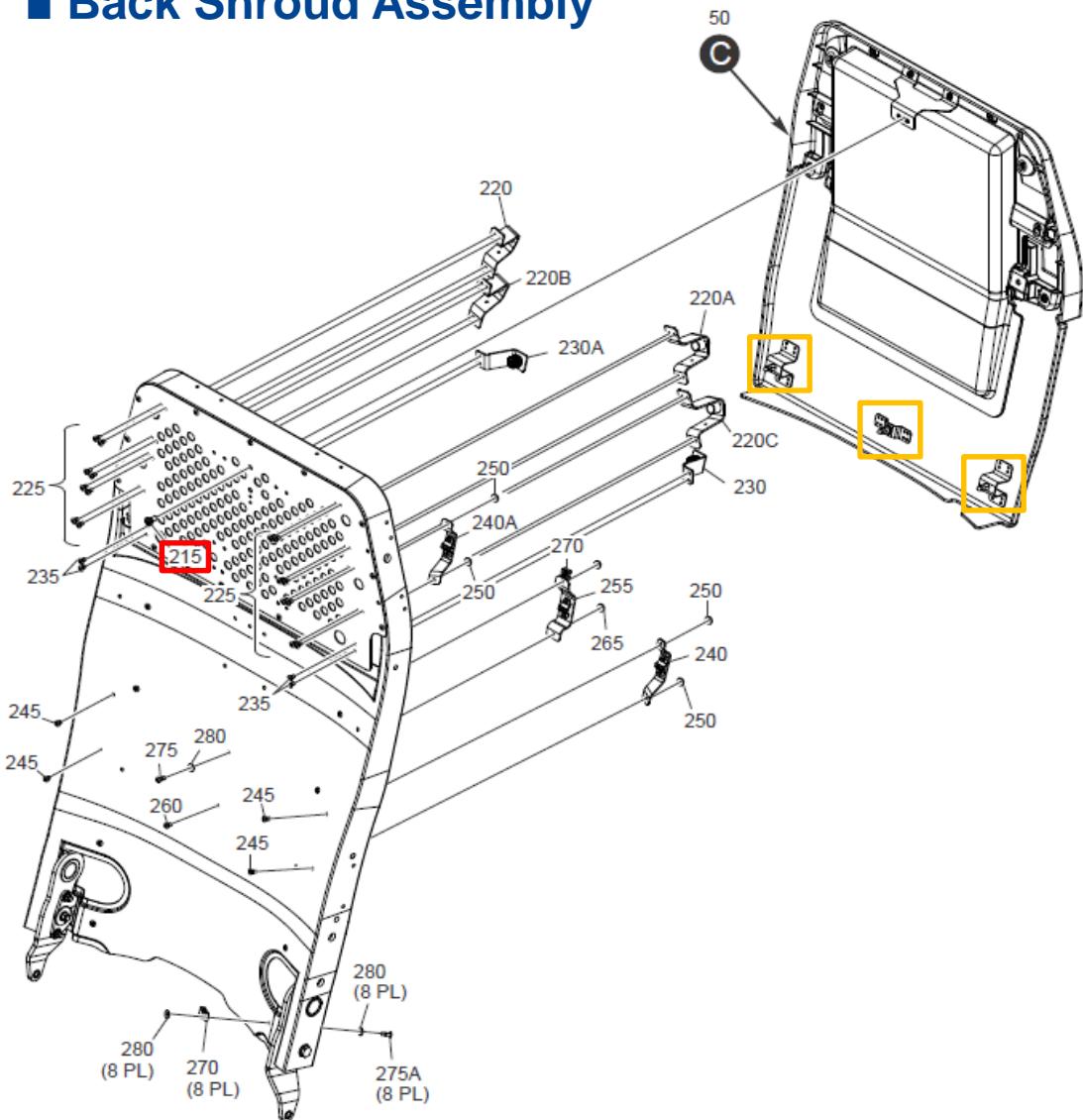


3 - Remove the 2 screws

- 1 - Remove the tie wraps that fix the recline cable**
- 2 - Disconnect the actuator from the hydrolock**

DISASSEMBLY & ASSEMBLY

■ Back Shroud Assembly



**POWERED
BY TRUST**