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INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

ICA-D206-642

Skidtube Installation

BELL 206/206A/206A-1/206B/206B-1/206L/206L1/206L3/206L4/407 MODELS

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REVISION RECORD

Revision No.	Issue Date	Description	Date Inserted	Inserted By
0	07.03.07	New Issue		
1	07.10.26	Change installation of Mid Float Bag on -611/-612/-613/-614/-641		
2	09.04.03	Incorporated DSI 9420, DSI 9421, DSI 9427 & DSI 9440.		
3	09.09.09	D206-642-311/-312 now compatible with 206L/ L1/ L3/ L4 on high gear; Refomat; Incorporate DSI 9466/ 9467.		
4	11.06.15	Added -313/-314/-413/-414/-515/-516/-517/-518 Skidtube Kits; Added -349/-449/-549/-649 Wearplate Kits. Incorporate DSI 9497/9516		
5	13.02.12	Add reference to 206-320-101/-102, 206-320-303/-304 Change inspection interval from 300 hrs/6 months to 300 hrs/annual Incorporate DSI 9583		
6	13.10.11	Revise Detail K, wording in Section 32.2.4; Textured coating replaces gaskets; Corrected qty(2) D3457-1 in Parts Lists Sections 32.15 & 32.16, and incorporate DSI 9655 Rev. A		

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CHAPTER 0 – INTRODUCTION (00-00-00)

0.1 SCOPE

This manual provides the requirements set forth in Appendix A of FAR Part 27 for the Instructions for Continued Airworthiness of the Dart **Skidtube Installations** when installed on the Bell 206/206A/206A-1/206B/206B-1/206L/206L-1/206L-3/206L-4/407 aircraft. Where this document references "206A/B aircraft", the reader should interpret this to mean "206/206A/206A-1/206B/206B-1 aircraft". These Instructions for Continued Airworthiness have been determined to be acceptable to the Federal Aviation Administration (FAA) and are to be referred to for inspection and maintenance when the Dart Skidtubes are installed on, removed from, or in service on the rotorcraft.

0.2 ARRANGEMENT

This manual is arranged in ATA-100 format. This manual is only applicable to the model Bell 206A/206B/206L/206L-1/206L-3/206L-4/407 rotorcraft modified with the Dart **Skidtube Installation**.

There are no abbreviations, acronyms, or symbolization, which are not common to the aviation industry in this manual.

Units of measurement are expressed in Imperial and metric values and all torque values are standard values for the specified fastener combinations as defined in FAA AC 43.13, unless specified otherwise in this document.

No other Instructions for Continued Airworthiness for any product or appliance is inferred or addressed herein.

0.3 DISTRIBUTION

Any changes in the content or revision level of this document will be made available to any owner/operator at www.dartaero.com

Additionally, any changes will be sent to FAA. All changes will be recorded in the Record of Revisions page at the front of this manual.

0.4 COMPATIBILITY

Compatibility of this installation with the aircraft is the **responsibility of the installer**. Ensure that this installation does not conflict with a previous modification.

0.5 SYSTEM DESCRIPTION

These instructions cover the installation of Dart skidtubes on the 206/206A/206A-1/206B/206B-1/206L/206L-1/206L-3/206L-4/407 aircraft. Where this document references "206A/B aircraft", the reader should interpret this to mean "206/206A/206A-1/206B/206B-1 aircraft".

The components in the Dart skidtube installations are as defined in the tables in Section 32.11 through 32.19 of this document. The different Dart installations are designated by the last 3 digits of the Dart skidtube installation Part No. For convenience, only the last three digits of the Part No. are listed on the top row of each table. The quantity of each component which is included in the D206-642-111 Skidtube Installation, for example, is as defined in the column labeled -111.

The Dart skidtube installations are replacements for the following (or previously replaced) skidtubes:

AIRCRAFT	DART INSTALLATION	BELL INSTALLATION	AAI INSTALLATION
206 A/B w/ Low Gear	D206-642-111/-113 D206-642-112/-114	206-050-296-101/-105/-107 206-050-296-102/-106/-108	206-320-201 206-320-202 206-320-203 206-320-204 206-320-303 260-320-304
206 A/B w/ High Gear	D206-642-211/-215 D206-642-212/-216 D206-642-611 D206-642-612	206-050-107-105/-123 206-050-107-106/-124 206-050-246-101/-107 206-050-246-102/-108	206-321-211 206-321-212 206-327-201 206-327-202
206 A/B w/ High Gear Thru Bolt	D206-642-213/-217 D206-642-214/-218 D206-642-613 D206-642-614	206-050-297-101/-105 206-050-297-102/-106 206-050-298-101 206-050-298-102	206-321-251 206-321-252 206-327-251 206-327-252
206 L/L-1/L-3/L-4 w/ Low Gear Or High Gear	D206-642-311 D206-642-312 D206-642-313 D206-642-314	206-053-118-105 206-053-118-106	206-325-201 206-325-202
206 L/L-1/L-3/L-4 w/ High Gear	D206-642-411/-412 D206-642-413/-414 D206-642-511/-512 D206-642-513/-514 D206-642-515/-516 D206-642-517/-518	206-053-158-103 206-053-158-104 206-053-184-113/-117 206-053-184-114/-118 206-053-184-113/-117 206-053-184-114/-118	206-323-211 206-323-212 206-324-457/-459 206-324-458/-460 206-324-457/-459 206-324-458/-460
407	D206-642-311/-312 D206-642-313/-314 D206-642-511/-512 D206-642-513/-514 D206-642-515/-516 D206-642-517/-518	206-053-118-109 206-053-118-110 206-053-184-121 206-053-184-122 206-053-184-121 206-053-184-122	407-011-201 407-011-202 407-012-203 407-012-204 407-012-203 407-012-204

- NOTES:**
- 1) Dart D206-642-511/-512/-515/-516/-611/-612/-613/-614 float skidtubes are **not** compatible with Bell OEM float system. The Dart float skidtubes are **only** compatible with Tri-Bag Emergency Floats per FAA STC SR01535LA.
 - 2) Dart D206-642-513/-514/-517/-518 float skidtubes are compatible with **both** the Bell OEM float system and with Apical Tri-Bag Emergency Floats per FAA STC SR01535LA.
 - 3) It is acceptable to fly aircraft equipped with D206-642-511/-512/-513/-514/-515/-516/-517/-518/-611/-612/-613/-614 Float Skidtubes without the float bags installed as long as the operation does not dictate that the float system is required.
 - 4) It is acceptable to install D206-642-311/-312/-313/-314 on 206L/L-1/L-3/L-4 & 407 aircraft equipped with either low or high gear.

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FLOAT COMPATIBILITY

The Dart float skidtube installations are compatible with the following float systems:

AIRCRAFT	DART INSTALLATION	COMPATIBLE FLOAT SYSTEM
206 A/B w/ High Gear	D206-642-611 D206-642-612 D206-642-613 D206-642-614	614.5501/2 (Apical fwd) 614.5601/2 & 614.5701/2 (Apical mid) 614.5601/2 (Apical aft)
206 L/L-1/L-3/L-4 w/ High Gear 407	D206-642-511 D206-642-512 D206-642-515 D206-642-516	614.5501/2 (Apical, fwd bag) 614.5601/2 & 614.5701/2 (Apical, mid bag) 614.5607/8 (Apical, aft bag)
	D206-642-513 D206-642-514 D206-642-517 D206-642-518	614.5501/2 (Apical, fwd bag) 614.5601/2 & 614.5701/2 (Apical, mid bag) 614.5607/8 (Apical, aft bag) 20077-113 (Apical PMA, fwd bag, 206L) 20077-117 (Apical PMA, mid bag, 206L) 20077-115 (Apical PMA, aft bag, 206L) 604.6001 (Apical PMA, fwd bag, 407) 604.6101 (Apical PMA, mid bag, 407) 604.6201 (Apical PMA, aft bag, 407) 206-050-248-101/-107/-113/-119 (OEM, fwd bag) 206-050-248-111/-117/-123 (OEM, mid bag) 206-050-248-109/-115/-121 (OEM, aft bag) 407-350-300-101 (OEM, fwd bag, 407) 407-350-301-101 (OEM, mid bag, 407) 407-350-302-101 (OEM, aft bag, 407) 206-369-003 (AAI PMA, fwd bag, 206L) 206-369-002 (AAI PMA, mid bag, 206L) 206-369-001 (AAI PMA, aft bag, 206L)

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CROSSTUBE COMPATIBILITY

The Dart skidtube installations are approved replacements for skidtube and saddles on the 206 A/B and 206L/407 series Rotorcraft when installed with the cross tubes listed in the following table or approved compatible replacement crosstubes.

AIRCRAFT MODELS	DART INSTALLATION	FORWARD CROSSTUBES	AFT CROSSTUBES
206A/B w/ Low Gear	D206-642-111 D206-642-112 D206-642-113 D206-642-114	206-050-119-001 or 206-050-119-005 or 206-050-119-103 or 206-050-286-101 or 206-320-101 or 206-320-119 or 206-320-121	206-050-119-003 or 206-050-119-007 or 206-050-119-101 or 206-050-286-103/-105 or 206-320-102 or 206-320-120 or 206-320-122/-126
206A/B w/ High Gear	D206-642-211 D206-642-212 D206-642-215 D206-642-216 D206-642-611 D206-642-612	206-050-107-025 or 206-050-107-119 or 206-050-288-101 or 206-321-019 or D206-667-101	206-050-107-027 or 206-050-107-121 or 206-321-022 or D206-667-201
206A/B w/ High Gear Thru Bolt	D206-642-213 D206-642-214 D206-642-217 D206-642-218 D206-642-613 D206-642-614	206-050-107-025 or 206-050-107-119 or 206-050-288-101 or 206-321-019 or D206-667-101	206-050-288-103 or 206-321-024 or D206-667-201
206L/L-1/L-3/L-4 w/ Low Gear 407 w/ Low Gear	D206-642-311 D206-642-312 D206-642-313 D206-642-314	206-053-119-003 or 206-053-119-103 or 206-053-119-107 or 206-053-201-101 or 407-050-101-101 or 206-325-119 or 407-722-101	206-053-119-001 or 206-053-119-101 or 206-053-119-105 or 206-053-201-103 or 407-050-102-101 or 206-325-120 or 407-723-104
206L/L-1/L-3/L-4 w/ High Gear	D206-642-311/-312 D206-642-313/-314 D206-642-411/-412 D206-642-413/-414 D206-642-511/-512 D206-642-513/-514 D206-642-515/-516 D206-642-517/-518	or 206-053-109-007 or 206-053-109-103 or 206-053-109-105 or 206-053-109-109 or 206-053-203-101 or 206-323-021 or D206-667-103	or 206-053-109-005 or 206-053-109-101 or 206-053-109-107 or 206-053-203-103 or 206-323-022 or D206-667-203
407 w/ High Gear	D206-642-311/-312 D206-642-313/-314 D206-642-511/-512 D206-642-513/-514 D206-642-515/-516 D206-642-517/-518	407-050-201-101 or 407-724-101 or D407-667-105	407-050-202-101 or 407-725-104 or D407-667-205

The Dart D206-642-111/-112/-113/-114/-213/-214/-217/-218/-613/-614 skidtubes are compatible with BHT STC SR09397RC for internal gross weight increase from 3200 lbs to 3350 lbs as described in BHT-206-SI-129.

The Dart D206-642-211/-212/-215/-216/-611/-612 skidtubes are also compatible with BHT STC SR09397RC as long as they are installed with Dart D206-667-101/-201 crosstubes per Canadian STCSH01-5 (ref. FAA STC SR01304NY).

CHAPTER 4 – AIRWORTHINESS LIMITATIONS (04-00-00)

The Airworthiness Limitations section is FAA approved and specifies inspections and other maintenance required under Sections 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

No airworthiness limitations associated with this type design change.

CHAPTER 5 – INSPECTION REQUIREMENTS (05-00-00)**5.1 DAILY CHECK**

- 5.1.1 The installation should be visually checked for corrosion or excessive wear/damage. If corrosion, wear, or damage in excess of the limits outlined in Section 5.2 has occurred, perform the detailed 300 hour inspection outlined below.

5.2 300 HOUR / ANNUAL INSPECTION

(To be performed every 300 hours/12 months to coincide with aircraft landing gear inspection or after any hard landing)

Note: For the convenience of scheduling maintenance, the tolerance for scheduled inspection intervals is +/-10% (+/- 30 hours or +/- 1 month). In each case, the subsequent interval will be adjusted to re-establish the original schedule. When an inspection is done more than 10% early, subsequent inspections will be advanced as required not to exceed the maximum tolerance. Concurrence and final approval of inspection interval tolerance by the governing civil aviation authority is the responsibility of the owner/operator.

- 5.2.1 All areas of the installation should be inspected visually for mechanical damage (nicks and scratches) and corrosion. It is acceptable to have nicks, scratches, or corrosion damage up to 0.010" (0.4 mm) deep anywhere on the skidtube. Blend out scratches/nicks/corrosion in the skidtube using 400 grit abrasive cloth to a maximum depth of 0.010" (0.4 mm). There should be a smooth transition from the surrounding tube to the affected area. After clean up, touch up affected area with chemical film material (Alodine 1200 or 1201) per MIL-C-5541, one coat of MIL-P-85582 or MIL-P-23377 primer, and 2-3 coats of MIL-C-83285 polyurethane paint to match original finish.
- 5.2.2 The wearshoes should be checked for excessive wear/damage. Wearshoes need to be replaced when 2 sequential tabs are cracked or when the wearshoe has wear, scratches, nicks, or corrosion damage of any size deeper than 0.030" (0.8 mm). Wearshoes with hard surfacing should be replaced when the hard surfacing has worn through.

The wearplate attachment holes may be elongated up to 0.125" (3 mm) in diameter. If any of the attachment holes are elongated beyond 0.125" (3 mm) in diameter, the wearplates must be replaced.

For skidtubes with carbon steel wearplates, the weld beads may be built back up to 0.06" (1.5mm) to 0.13" (3.4mm) using UTP 7560 Hard Coat welding rod. Cracks in the base material of the wearplate that are up to 0.125" (3 mm) in length do not need to be repaired. Cracks in the base material that exceed 0.125" (3 mm) in length to be welded closed per AMS STD 2219 using ER70S-6 filler rod.

For skidtubes with stainless steel wearplates, the weld beads may be built back up to 0.06" (1.5mm) to 0.13" (3.4mm) using 2059B Hard Coat welding rod. Cracks in the base material of the wearplates that are up to 0.125" (3 mm) in length do not need to be repaired. Cracks in the base material that exceed 0.125" (3 mm) in length need to be welded closed per AMS STD 2219 using ER316L or ER308L filler rod.

For skidtubes equipped with training wearplates, the weld beads on the wearbars may be built back up to 0.20" (5 mm) to 0.30" (8 mm) thick per AMS STD 2219 using 2059B hard coat welding rod. If the wearbars have been worn down to less than 0.06" (1.5 mm) thick, the wearplate must be replaced. Cracks in the wearbars that are perpendicular to the axis of

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the skidtube (as shown in Figure 5-1) are permissible and do not hinder the performance of the wearplate. If these cracks are less than 0.50" (13 mm) apart, the cracks must be filled per AMS STD 2219 using ER316L or ER308L filler rod.

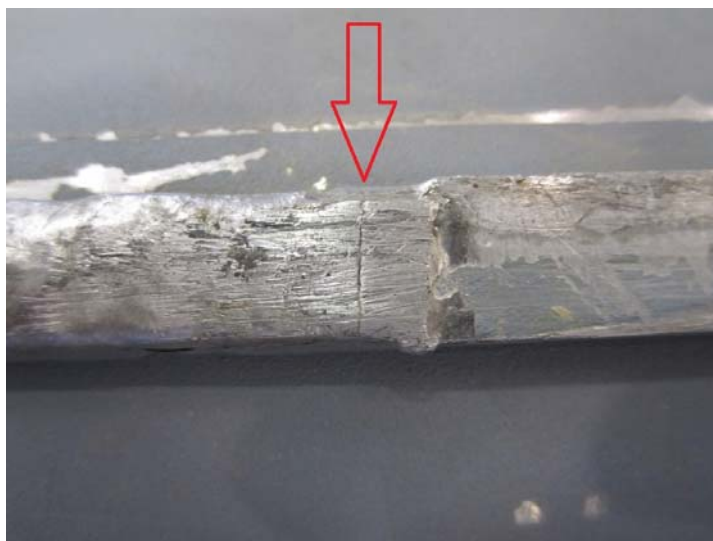


Figure 5-1 – Cracks in Wearbars

- 5.2.3 Inspect the skidtube assembly for serious damage in any of the areas indicated by "X" in Figure 5-2.

Serious damage is defined as follows:

- cracks that exceed 0.25" (6.4 mm) in length
- localized denting deeper than 0.015" (0.4 mm)
- skidtube dimensions beyond the limits shown in Figure 5-3 (adjust limits for corrosion/wear as described in item 5.2.1 above)

This type of damage is unacceptable anywhere along the straight section of the tube. Replace parts per item 5.2.12.

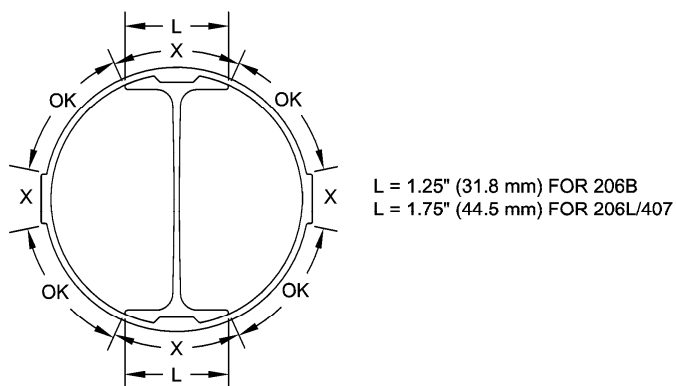


Figure 5-2 – Damage Regions

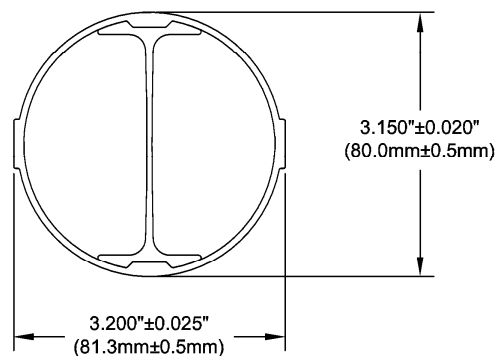


Figure 5-3 – Acceptable Limits

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- 5.2.4 Inspect the sides of the skidtube for excessive wear/damage. Dents up to 2.00" (51 mm) long x 1.00" (25 mm) wide x 0.12" (3.0 mm) deep are acceptable in the areas indicated 'OK' in Figure 5-2. Damaged areas should be a minimum of 3.00" (76 mm) apart.
- 5.2.5 Cracks on the sides (areas indicated by 'OK' in Figure 5-2) of the skidtubes that do not exceed 1.00" (25 mm) in length can be repaired by T.I.G. welding as follows:
- a) clean area of paint, etc.
 - b) grind a chamfer 0.050" (1.3 mm) x 45° along crack
 - c) T.I.G. weld per MIL-STD-2219 Class 'C' using 5356 filler rod and grind flush
 - d) Touch up affected areas with chemical film material (Alodine 1200 or 1201) per MIL-C-5541, one coat of MIL-P-85582 or MIL-P-23377 primer, and 2-3 coats of MIL-C-83285 polyurethane coat to match original finish
- It is unacceptable to perform weld repairs on the skidtubes in the saddle areas. Weld repairs must be a minimum of 1" (25 mm) apart.
- 5.2.6 Inspect the area between the saddles for bow or sharp bends. A smooth bow in the skidtube from saddle to saddle is acceptable as long as permanent deflection does not exceed 0.50" (13 mm). Maximum deflection should be at or near the midpoint between the saddles.
- 5.2.7 Inspect the aft cap for damage. If cracked or porous, replace the cap in accordance with item 5.2.12.
- 5.2.8 Inspect the tow rings and associated attachment hardware for cracks, bending, wear and suitability for continued service. Cracks in the tow ring may be repaired by TIG welding per MIL-STD-2219 using an ER70S-6 filler rod (when repairing the D2707-043 Tow Ring) or using an RG-45 filler rod (when repairing the D2968-043 Tow Ring) or using a TIG174 filler rod (when repairing the D3407-043 Tow Ring). Replace unserviceable/non-repairable parts per item 5.2.12.
- 5.2.9 Inspect the ground handling lugs and associated attachment hardware for cracks, bending, wear and suitability for continued service. Cracks in the ground handling lugs may be repaired by TIG welding per MIL-STD-2219 using an ER70S-6 filler rod (when repairing the D2659 GHW lug) or using an ER316L or ER308L filler rod (when repairing the D3414-041 GHW lug). Replace unserviceable/non-repairable parts per item 5.2.12.
- 5.2.10 Check saddles for signs of yielding (i.e. buckled or twisted flanges or noticeable increases in the size of gaps between the saddles and the crosstube/skidtube), cracking, or elongation of holes. Saddle holes may be elongated by up to 0.025" (0.6 mm). Saddles with any signs of cracks should be replaced immediately per item 5.2.12. Scratches or corrosion damage up to 0.010" (0.25 mm) deep can be blended out with scotchbrite up to 0.010" (0.25 mm) deep. Touch up repaired areas with chemical film material (Alodine 1200 or 1201) per MIL-C-5541, one coat of MIL-P-85582 or MIL-P-23377 primer, and 2-3 coats of MIL-C-85285 polyurethane coating to match original finish. Ensure that the saddles are sealed in accordance with Section 32. The torque on all saddle fasteners are within acceptable limits of Section 32.2 and adjust per the instructions in Section 32.2.
- 5.2.11 Inspect all areas of the skidtube for suitability of the paint finish. Touch up affected areas with chemical film material (Alodine 1200 or 1201) per MIL-C-5541 (aluminum only), one coat of MIL-P-85582 or MIL-P-23377 primer, and 2-3 coats of MIL-C-83285 polyurethane paint to match original finish. Clean off flaking anti-skid and touch up with Black Anti-Skid paint per MIL-W-5044 Type 2.
- 5.2.12 Any part which does not meet the limitations described above is considered to be excessively damaged or unserviceable. Replace all excessively damaged or unserviceable parts per Chapter 32 of these instructions.

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5.3 OVERHAUL REQUIREMENTS

NO COMPONENT OVERHAUL REQUIRED FOR THIS DESIGN CHANGE.

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CHAPTER 32 – LANDING GEAR (32-00-00)

NOTE: In corrosive environments, exposed hardware should be coated with LPS Procyon after installation. Excess should be cleaned with a degreaser (MEK).

32.1 SKIDTUBE REMOVAL

32.1.1 Hoist or jack the helicopter for removal of damaged skid tubes using the procedures prescribed in the Aircraft Maintenance Manual. If required, disconnect/remove and retain any clamps/fittings/hoses associated with the float system that will interfere with the removal of the skid tubes.

32.1.2 Break/remove bead of sealant between top of saddle and the crosstube.

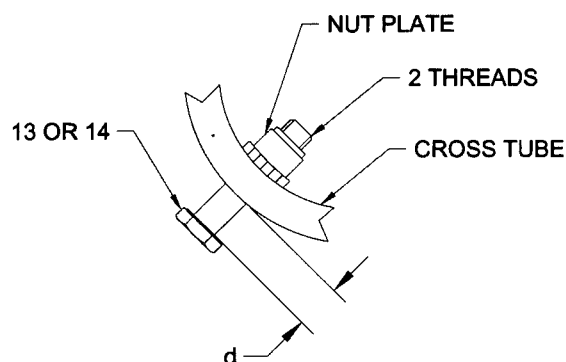
32.1.3 Back off (but **DO NOT** remove) all AN3 and AN4 bolts (H3 to H12 in Figure 32-1).

32.1.4 Remove the AN5 bolts (H1 and H2 in Figure 32-1) that secure the saddles to the crosstube and remove skid tube.

32.2 SKIDTUBE RE-INSTALLATION

32.2.1 Position the skid tube and saddle assembly onto the crosstubes aligning holes H1 and H2 as shown in Figure 32-1 with holes in the crosstubes and fasten in place using item 13 or 14 (see Figure 32-12). These bolts align with existing anchor nuts on the inside of the crosstubes. If installing the Dart skid tubes with Dart D206-667-101/-103/-107/-201/-203/-207 or D407-667-105/-205 crosstubes per STC SH01-5 (ref. FAA STC SR01304NY), the bolts at holes H1 and H2 will be replaced with AN5-32A or AN5-34A. Refer to STC SH01-5 (ref. FAA STC SR01304NY).

If installing with replacement Bell/AAI fwd and/or aft crosstubes, the bolts should be selected as follows:



Bolt Selection

Install the lower dash length given for item 13 or 14 into the crosstube **without the saddles** and inspect the nut plate on the inside of the crosstube for 2 threads safety. Measure the distance d between the bolt head and the crosstube. **The measured distance d should be between 0.290" and 0.400".** If the measured distance d is less than 0.290", try the same procedure with the longer bolt. If neither bolt works, find the appropriate bolt length so that the measured distance d is within the correct range.

For 206L/407 float tubes, items 60, 61, 62 are provided as corrosion resistant replacements for the saddle-to-crosstube attachment hardware when the float skidtubes are installed with Dart crosstubes. They should be installed using Installation Instructions IIN-D206-667 as reference (ref. FAA STC SR01304NY, Canadian STC SH01-5).

- 32.2.2 All bolts should be tightened until tight **in numerical order as specified in Figure 32-1** for fwd and aft saddles. The bolts should then be tightened **in numerical order as specified in Figure 32-1** to the specified torques on the nuts as described in Table 32-1.

NOTE: For all float skidtubes, when installing D3672-XX phenolic washers in conjunction with metal AN960C washers, the metal washer is placed under the bolt head or nut to prevent the phenolic washer from deforming.

NOTE: After torquing the bolts, it is acceptable to have a gap between the saddles and the D2884/D2885/D2934/D2935 spacers (item 38 and 39) that are installed between the saddle flanges.

CAUTION:

Over-torquing the nuts or not torquing the nuts in the correct numerical order could lead to saddle structural damage.

- 32.2.3 Apply a continuous bead of sealant in accordance with the Aircraft Maintenance Manual in the following locations as per Figure 32-1 and Detail A:

- A) Along saddle/crosstube interface
- B) Between the saddle flanges
- C) Along saddle/skidtube interface

- 32.2.4 Re-attach (re-connect any clamps/fittings/hoses that were removed/disconnected to remove the skidtube) per Section 32.1.1.

For the Dart D206-642-511/-512/-515/-516 skidtubes:

The 614.8701-614.8708 brackets should be installed with spacers per Detail K for clearance with the Dart saddles and the 602.1413/602.1420 lines should be installed using AN3C35A/ C37A bolts per Detail J/ S/ AC.

For the Dart D206-642-513/-514/-517/-518 skidtubes:

The OEM/PMA tee-shaped manifold on the fwd (407 only) and aft (206L/407 only) saddle location should be installed using qty(2) MS21919WDG-28 clamps and either the D3452-1 (for -10 sized tees, 407) or D3452-3 Bracket (for -8 sized tees, 206L) per Detail M. When installing the D3452-1/-3 Bracket it is acceptable to add additional washers or use longer/shorter AN3 bolts to ensure proper clamp-up and at least 2 threads in safety. For fwd saddle location on 206L models, the 206-050-253-101 clip assembly should be installed on the forward saddle as shown in Detail L.

For the Dart D206-642-611/-612/-613/-614 skidtubes:

The 614.8701-614.8708 brackets should be installed with spacers per Detail K for clearance with the Dart saddles and the 644.1210 hose spacer should be installed on one of the ground handling studs per Detail C.

32.3 SADDLE REPLACEMENT

- 32.3.1 Remove skidtube in accordance with Section 32.1.
- 32.3.2 Remove damaged saddle by removing all AN3 and AN4 bolts that attach the 2 saddle halves together.
- 32.3.3 Remove/break any sealant preventing the saddle from being removed from the skidtube. Remove the damaged saddle and its mating part. Remove residual sealant.
- 32.3.4 Check underlying tube for corrosion damage and repair in accordance with Chapter 5.
- 32.3.5 Loosely attach the replacement saddle and its mating part to the skidtube through holes H3 to H6 (see Figure 32-1) on the saddles using qty (4) AN3-41A or qty (4) AN3C41A bolts (item 10) and associated hardware as shown in Figure 32-12 Detail A. **Note that all nuts should be on the inboard side of the skidtube.**
- 32.3.6 Loosely install the flange hardware as shown in Detail A through holes H7 to H12 (see Figure 32-1) of the saddles. **Note that all nuts should be on the inboard side of the skidtube.**
- 32.3.7 Re-install the skidtube in accordance with Section 32.2.

32.4 GROUND HANDLING LUG REPLACEMENT

- 32.4.1 Remove D2659 or D3414-041 Ground Handling Lug by removing qty (2) AN3-37A or qty (2) AN3C37A bolts (item 41) and associated hardware as shown in Figure 32-13 Detail G.
- 32.4.2 Check underlying tube for corrosion damage and repair in accordance with Chapter 5.
- 32.4.3 Re-install replacement D2659 or D3414-041 Ground Handling Lug using qty (2) AN3-37A or qty (2) AN3C37A bolts (item 41) and associated hardware as shown in Figure 32-13 Detail G. Torque nuts to 15-25 in·lbs (1.7-2.8 N·m).

32.5 RING REPLACEMENT

- 32.5.1 Remove D2655 or D3413-1 Ring (item 36) by removing qty (1) AN4C5A or qty (1) AN4-5A (item 34) and associated hardware as shown in Figure 32-13 Detail F.
- 32.5.2 Check tube for corrosion damage and repair in accordance with Chapter 5.
- 32.5.3 Re-install replacement D2655 or D3413-1 Ring using qty (1) AN4C5A or qty (1) AN4-5A (item 34) and associated hardware as shown in Figure 32-13 Detail F. Torque nuts per Table 5-1.

32.6 TOW RING REPLACEMENT

- 32.6.1 Remove D2707-043 or D2968-043 or D3407-043 Tow Ring (item 30) by removing qty (1) MS21042-4 or qty (1) MS21043-4 nut (item 33) and associated hardware as shown in Figure 32-13 Detail D.
- 32.6.2 Check tube for corrosion damage and repair in accordance with Chapter 5.

- 32.6.3 Re-install replacement D3407-043 Tow Rings using qty (1) MS21043-4 nut (item 33) and associated hardware as shown in Figure 32-13 Detail D. Torque nuts to 50-70 in-lb (5.7-7.9 N-m).

32.7 WEARSHOE/WEARPAD REPLACEMENT

NOTE: If replacing wearshoes and gaskets, it is recommended that the D3535-XX wearshoes and D3536-XX gaskets be replaced with D4956-XX wearshoes.

- 32.7.1 Remove wearshoes/wearpads by removing AN3 bolts or MS27039 screws. Begin wearshoe removal from the fwd end of the skidtube towards the aft end. On some skidtube installations this will require breaking a layer of sealant between the wearshoes and the skidtube.
- 32.7.2 Check skidtube and wearplate for corrosion and mechanical damage in accordance with Chapter 5 and repair as required.
- 32.7.3 If present, clean residual sealant off of the bottom of the skidtube. Check for corrosion and mechanical damage in accordance with Chapter 5 and repair as required.
- 32.7.4 Install replacement D4956-11/-13/-15/-21/-23/-25/-31/-33/-35/-37/-39/-41 wearshoes and D3537-1/-3 wearpads using AN3C bolts or MS27039 screws as applicable beginning from the aft end of the skidtube and install towards the fwd end of the skidtube as shown in Figures 32-2, 32-4, 32-6, 32-8 and 32-10. All bolts/screws should be sealed with Sikaflex-241/-291 or Proseal 890 or AMS-S-8802 Class 'B2' sealant before installing as per Detail E. Torque bolts/screws to 15-25 in-lb (1.7-2.8 N-m).

32.8 RUN-ON LANDING WEARPLATE ASSEMBLY REPLACEMENT

- 32.8.1 Remove wearplate assemblies by removing AN3 bolts and associated hardware.
- 32.8.2 On D206-642-149/-249 kits at CHG 001, remove D3807-X gaskets if damaged. The D3805-XX Wearplates are no longer installed with gasket. Remove adhesive using Methyl Ethyl Ketone (MEK). If required, scrape softened adhesive off the surface using plastic squeegee after the remover has sat for the required amount of time. Repeat if required. Remove remaining adhesive by scrubbing area with a cloth Methyl Ethyl Ketone (MEK). Scotchbrite may be used as required. Saturate a clean cotton cloth with Methyl Ethyl Ketone (MEK) and wipe the surface to clean the entire area. Apply a layer of Plus One Rockguard 4715A Black or PF715C Pro Guard Rubberized Graviguard Black sealant (0.020"-0.040" thick/0.5 - 1.0 mm thick) and allow to cure per Manufacturer's Instructions.
- On D206-642-149/-249 at CHG 002 and D206-349/-449/-549/-649 kits, inspect the condition of the textured coating sealant on the wearplate. If damaged, remove using an abrasive pad. Apply a new layer of Plus One Rockguard 4715A Black or PF715C Pro Guard Rubberized Graviguard Black sealant (0.020"-0.040" thick/0.5 - 1.0 mm thick) and allow to cure per Manufacturer's Instructions.
- 32.8.3 Check skidtube and wearplate for corrosion and mechanical damage in accordance with Chapter 5 and repair as required.
- 32.8.4 Re-install wearplate assemblies or replacement wearplate assemblies using AN3 bolts and associated hardware shown in Figures 32-3, 32-5, 32-7, 32-9 and 32-11. Torque bolts/screws to 15-25 in-lb (1.7-2.8 N-m).

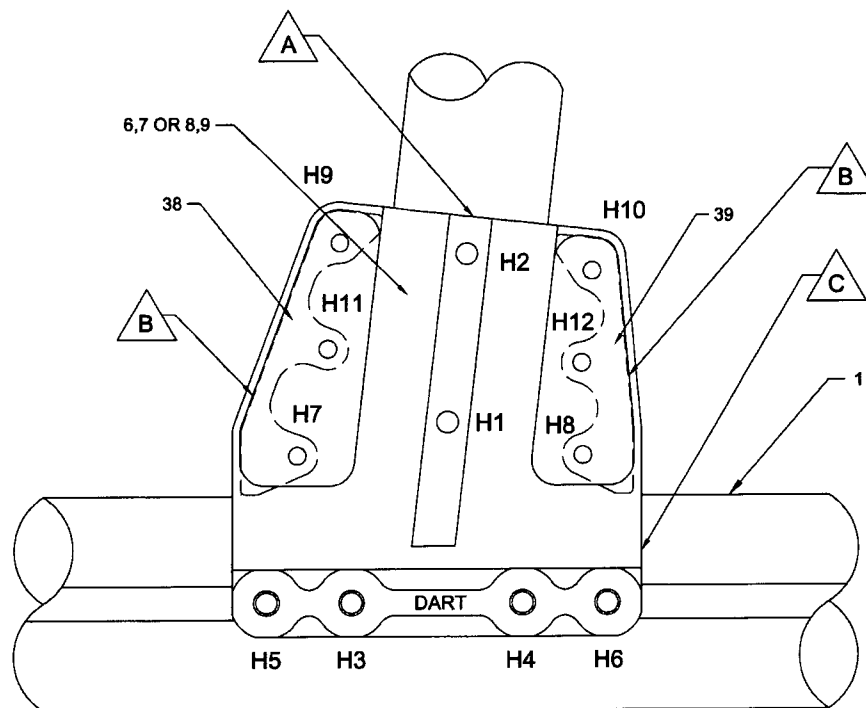
32.9 AFT CAP REPLACEMENT

- 32.9.1 Remove AN3 bolts or MS27039 screws securing the D2646 Aft Cap to the skidtube.
- 32.9.2 Break/remove sealant between cap and skidtube and remove cap.
- 32.9.3 Clean off residual sealant and inspect for corrosion damage per Chapter 5.
- 32.9.4 Insert new Aft Cap and install with AN3 bolts or MS27039 screws as applicable. Torque screws/bolts to 15-25 in-lb (1.7-2.8 N-m).
- 32.9.5 Apply a bead of Sikaflex -241/-291 or Proseal 890 or AMS-S-8802 sealant between the cap and the skidtube.

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**FIGURE 32-1: SADDLE INSTALLATION**

Bolt	Size	Torque on Nut
H1	AN5	65-85 in-lbs (7.3-9.6 N-m)
H2	AN5	65-85 in-lbs (7.3-9.6 N-m)
H3	AN3	15-25 in-lbs (1.7-2.8 N-m)
H4	AN3	15-25 in-lbs (1.7-2.8 N-m)
H5	AN3	15-25 in-lbs (1.7-2.8 N-m)
H6	AN3	15-25 in-lbs (1.7-2.8 N-m)
H7	AN4	50-70 in-lbs (5.7-7.9 N-m)
H8	AN4	50-70 in-lbs (5.7-7.9 N-m)
H9	AN4	50-70 in-lbs (5.7-7.9 N-m)
H10	AN4	50-70 in-lbs (5.7-7.9 N-m)
H11	AN4	50-70 in-lbs (5.7-7.9 N-m)
H12	AN4	50-70 in-lbs (5.7-7.9 N-m)

TABLE 32-1: MAXIMUM TORQUE ON NUTS

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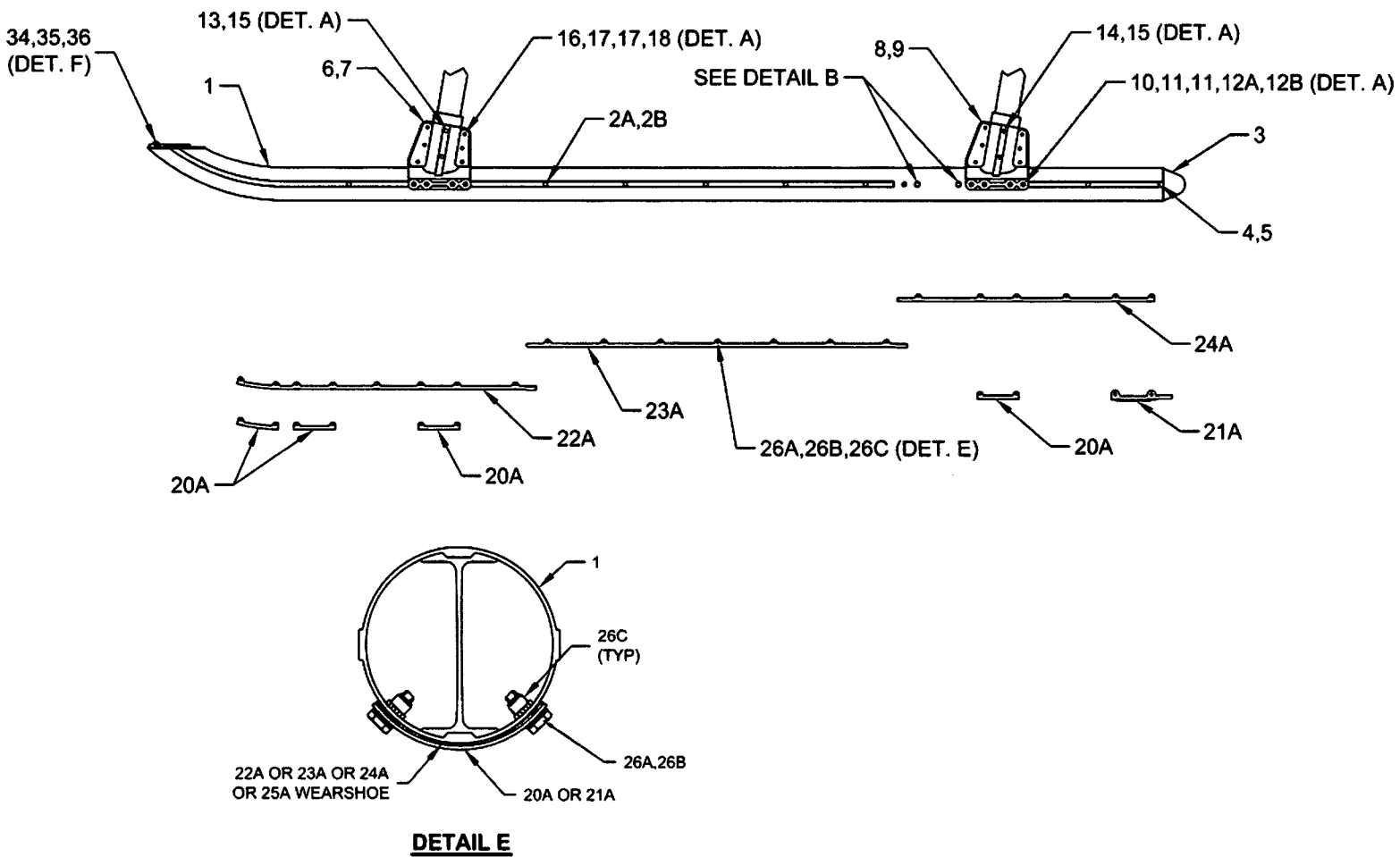


FIGURE 32-2: D206-642-111/-112/-211/-212/-213/-214 SKIDTUBE INSTALLATION
(206 A/B SKIDTUBES)

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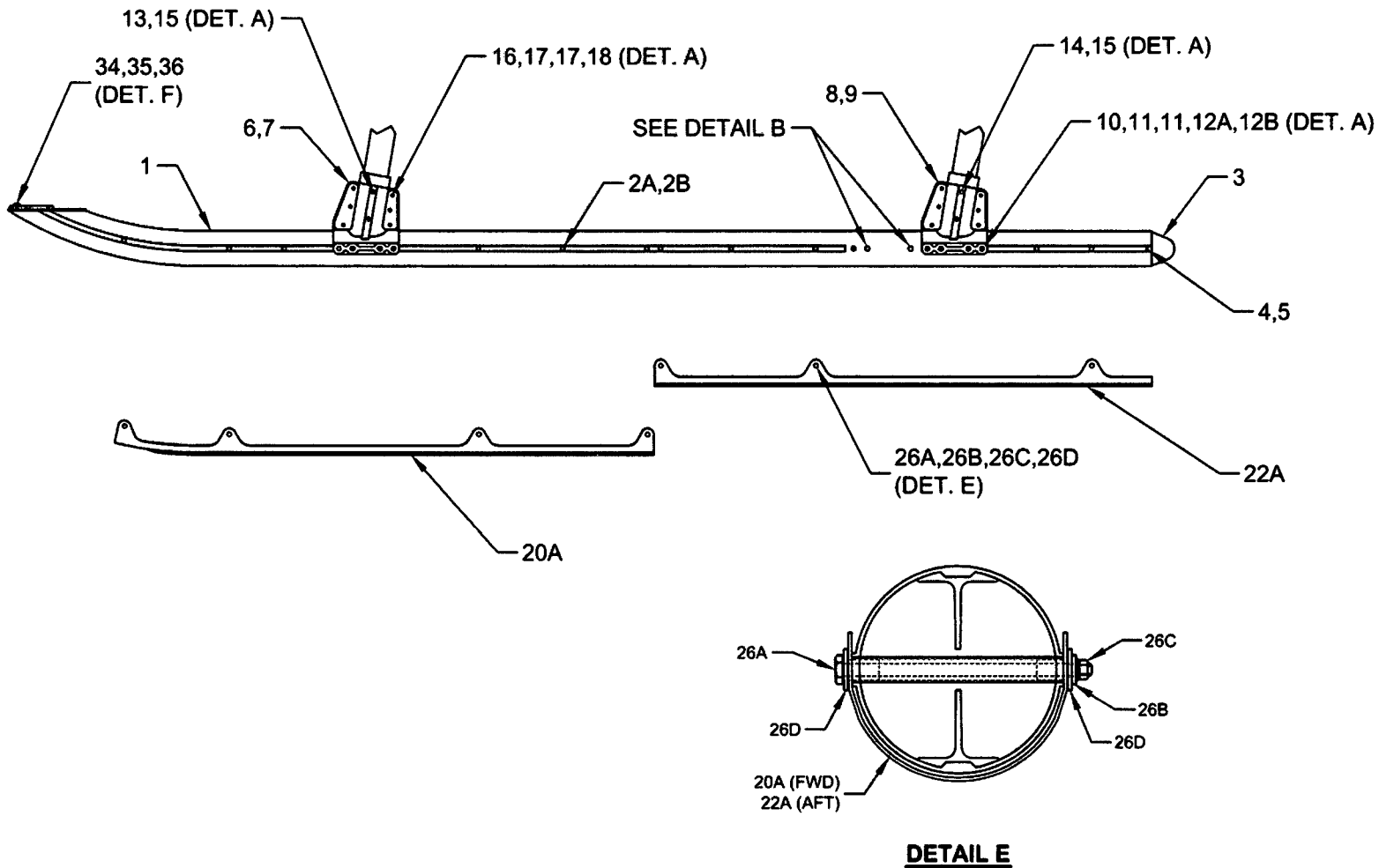


FIGURE 32-3: D206-642-113/-114/-215/-216/-217/-218 SKIDTUBE INSTALLATION
(206 A/B SKIDTUBES)

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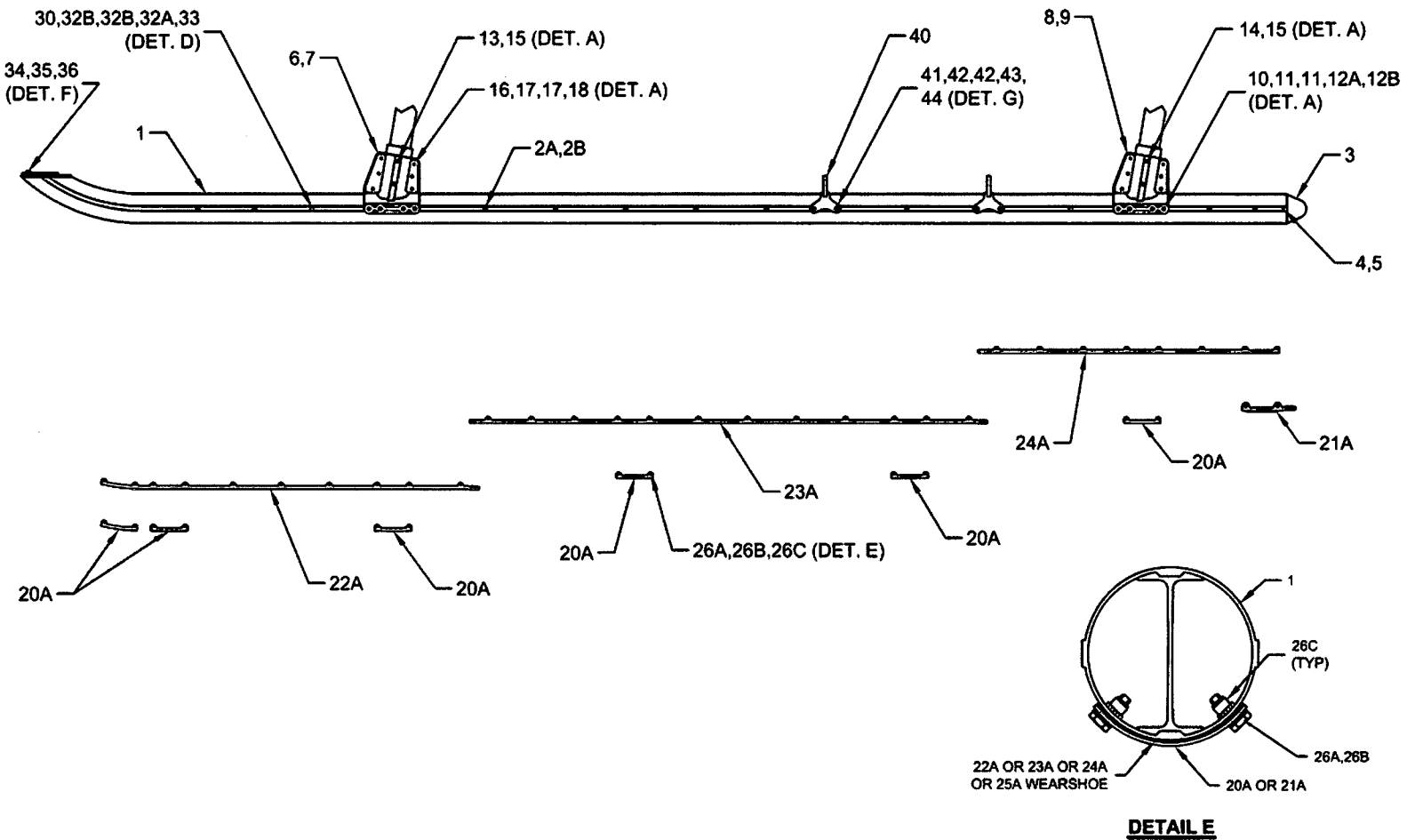


FIGURE 32-4: (D206-642-311/-312/-411/-412) SKIDTUBE INSTALLATION
(206 L/L-1/L-3/L-4/407 SKIDTUBES)

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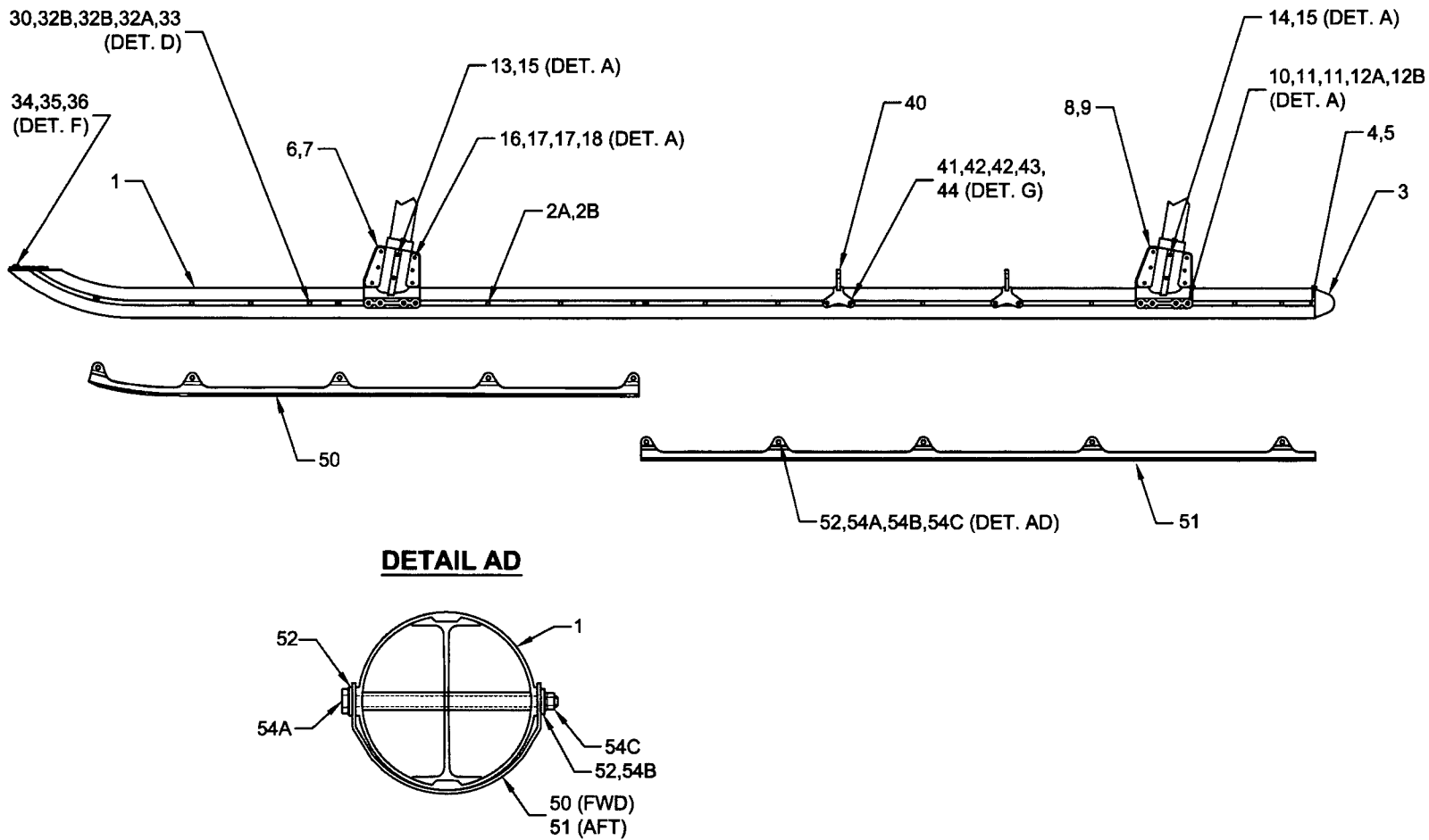


FIGURE 32-5: D206-642-313/-314/-413/-414 SKIDTUBE INSTALLATION
(206 L/L-1/L-3/L-4/407 SKIDTUBES)

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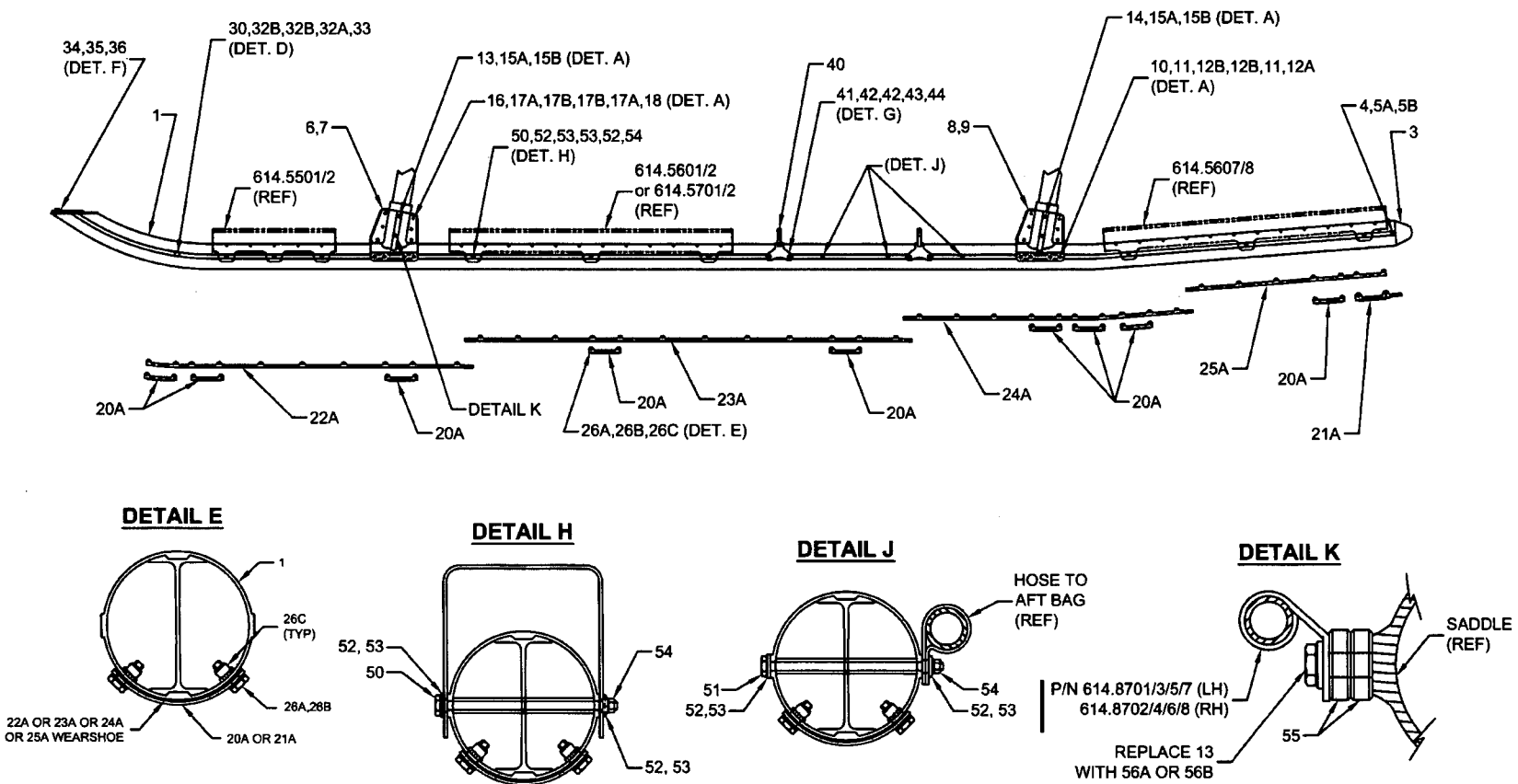


FIGURE 32-6: (D206-642-511/-512) SKIDTUBE INSTALLATION
(206 L/L-1/L-3/L-4/407 FLOAT SKIDTUBES (TRI-BAG FLOATS))

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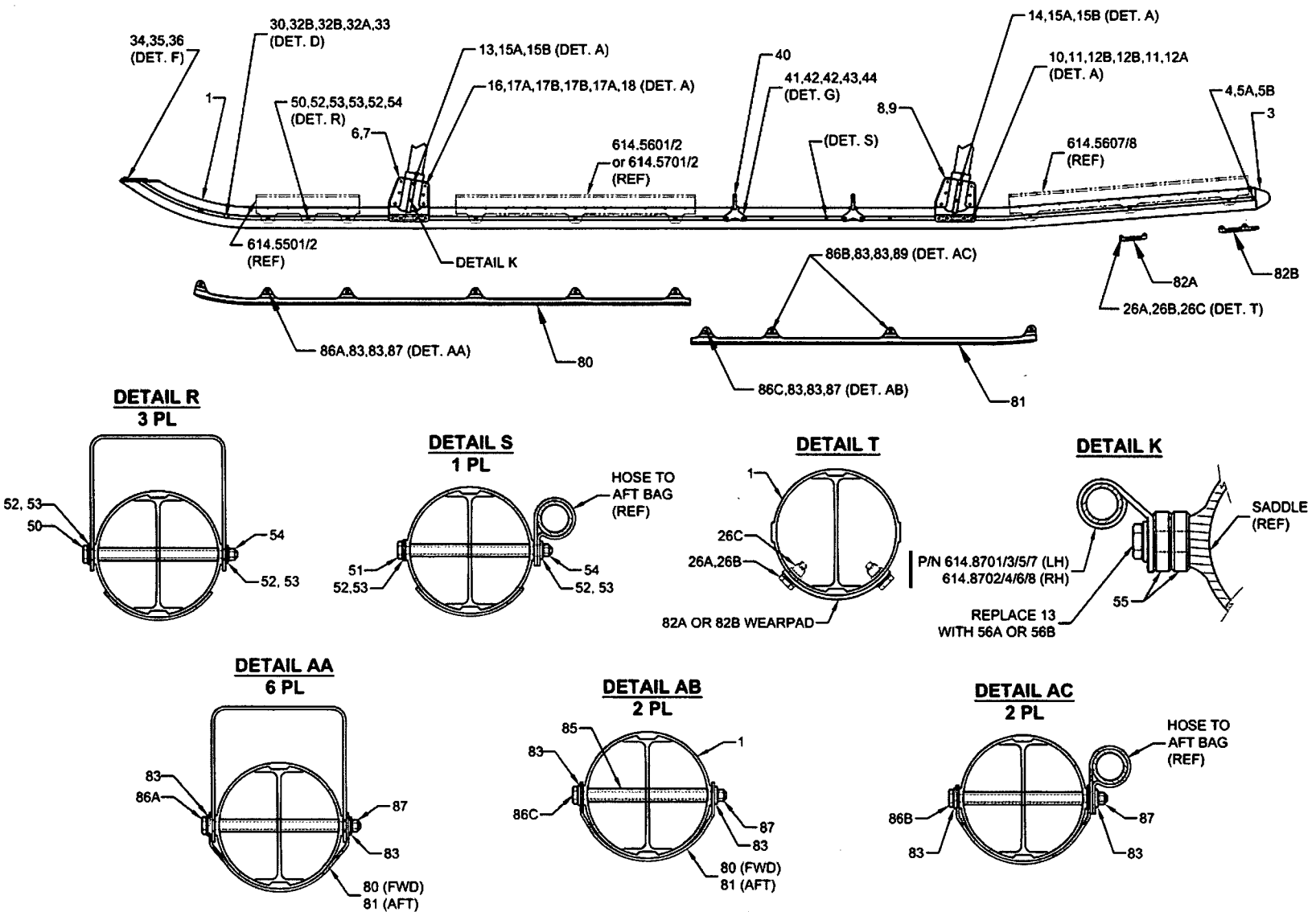


FIGURE 32-7: D206-642-515/-516 SKIDTUBE INSTALLATION
(206 L/L-1/L-3/L-4/407 FLOAT SKIDTUBES (TRI-BAG FLOATS))

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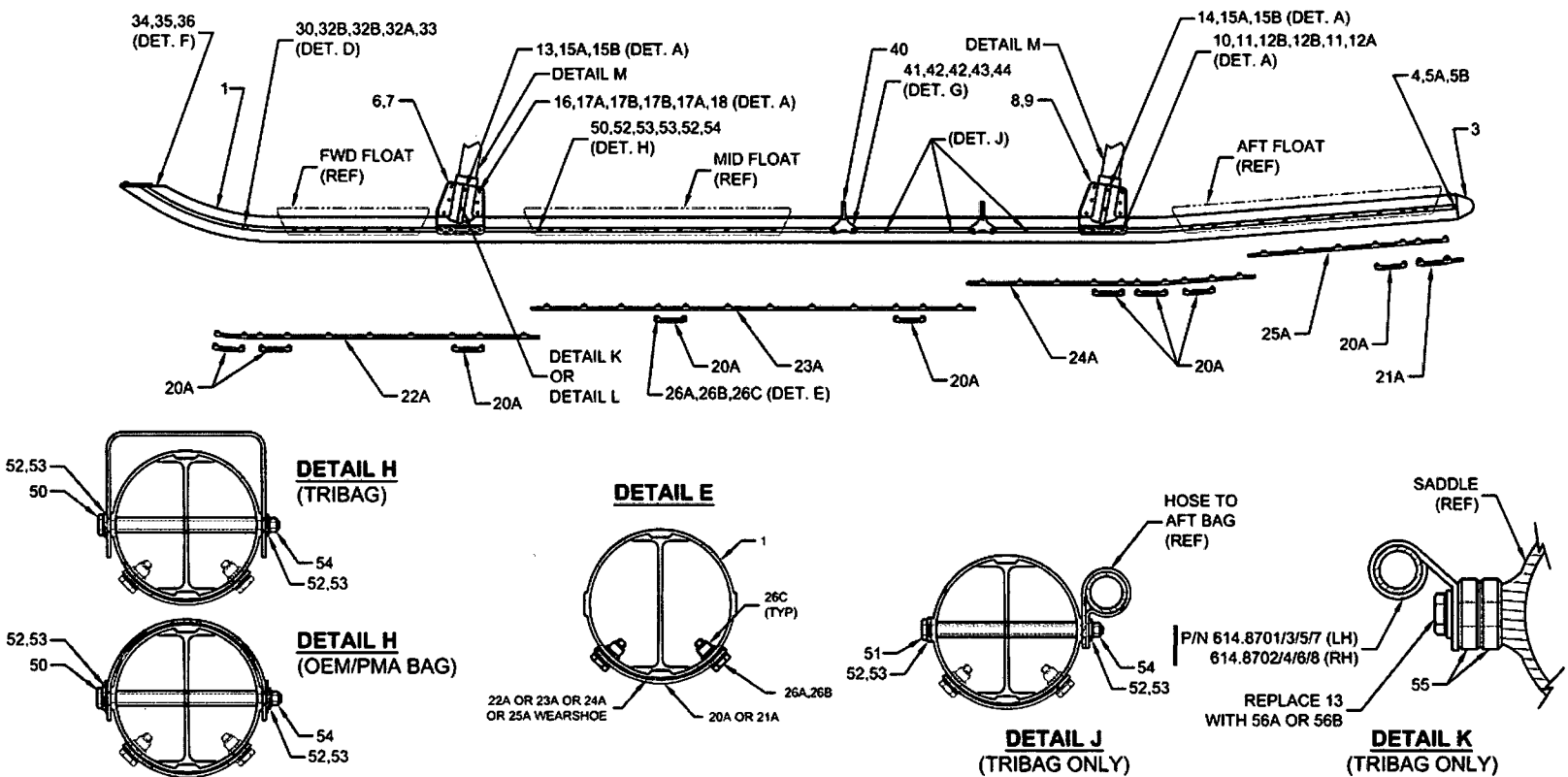


FIGURE 32-8: D206-642-513/-514 SKIDTUBE INSTALLATION
(206 L/L-1/L-3/L-4/407 FLOAT SKIDTUBES (OEM/PMA or TRI-BAG FLOATS))

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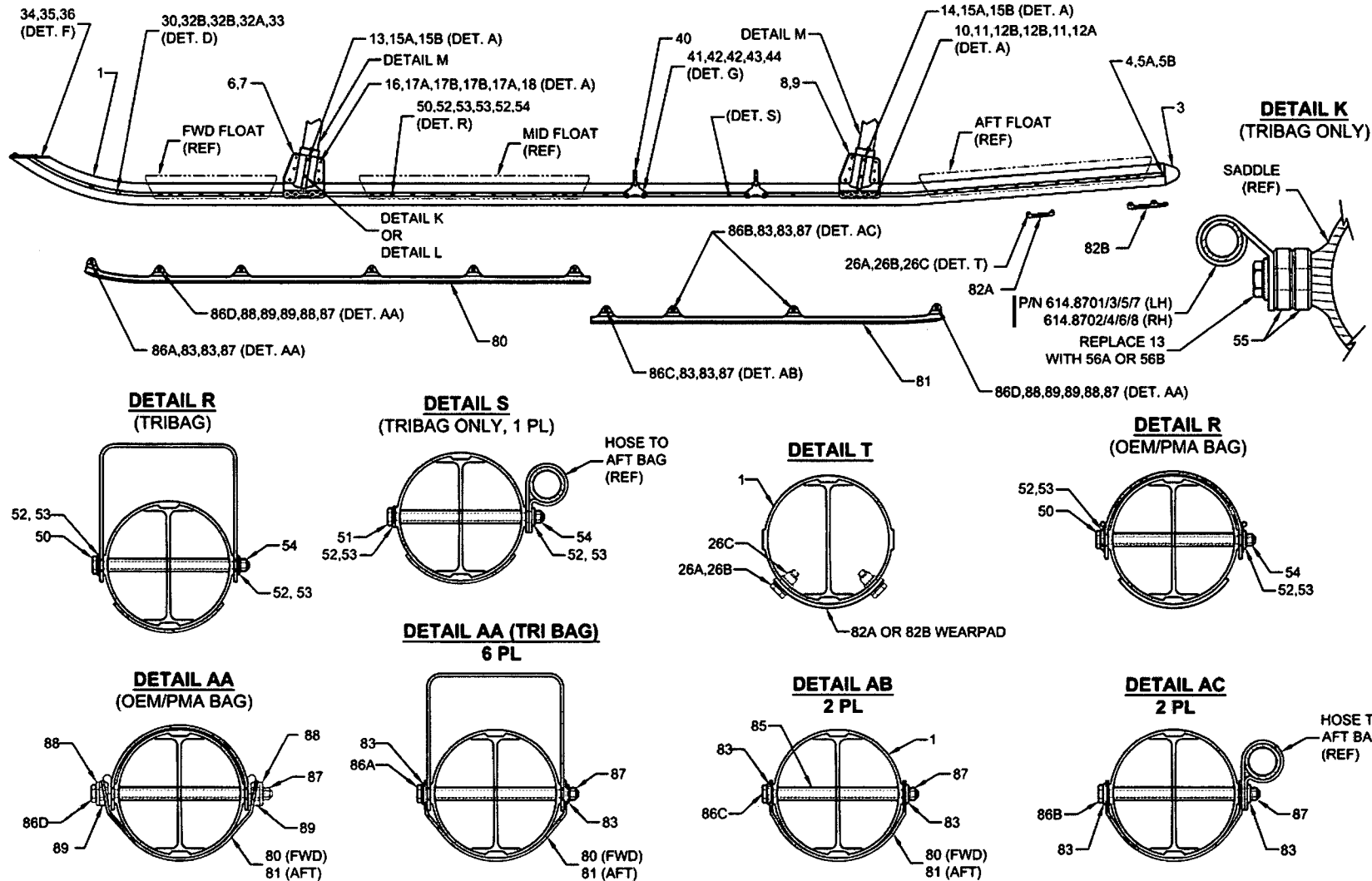


FIGURE 32-9: D206-642-517/-518 SKIDTUBE INSTALLATION
(206 L/L-1/L-3/L-4/407 FLOAT SKIDTUBES (OEM/PMA or TRI-BAG FLOATS))

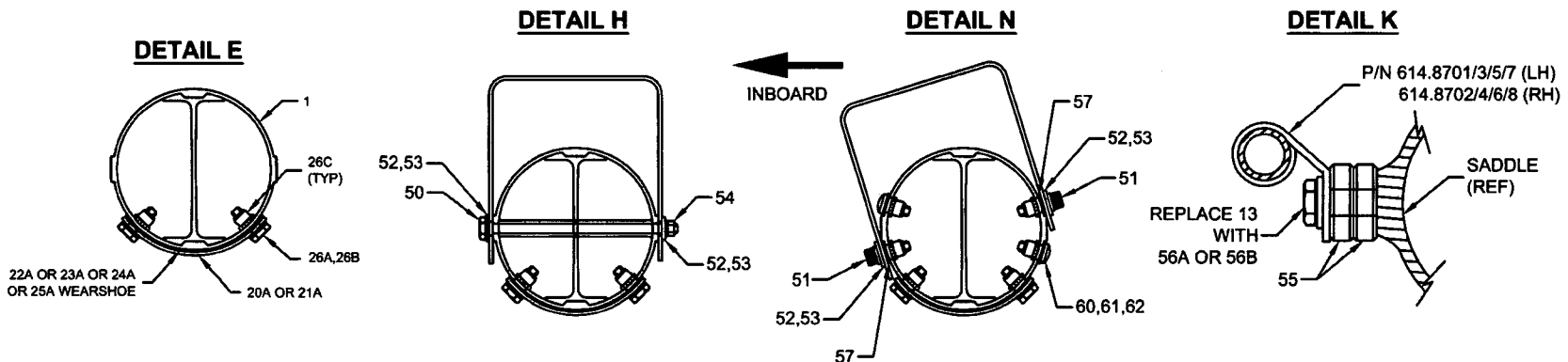
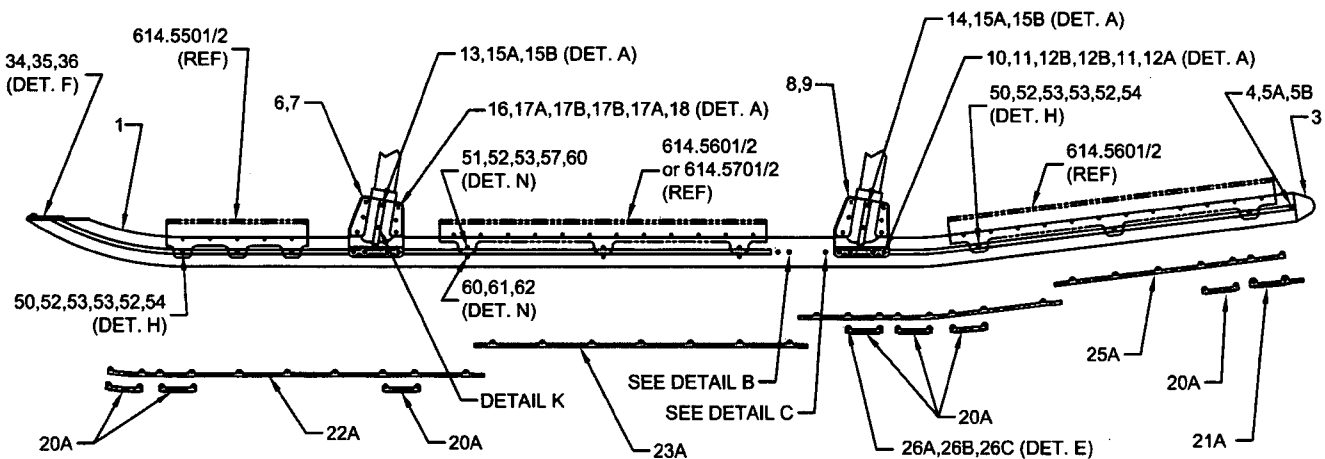


FIGURE 32-10: (D206-642-611/-612/-613/-614) SKIDTUBE INSTALLATION
(206 A/B FLOAT SKIDTUBES (TRI-BAG FLOATS))

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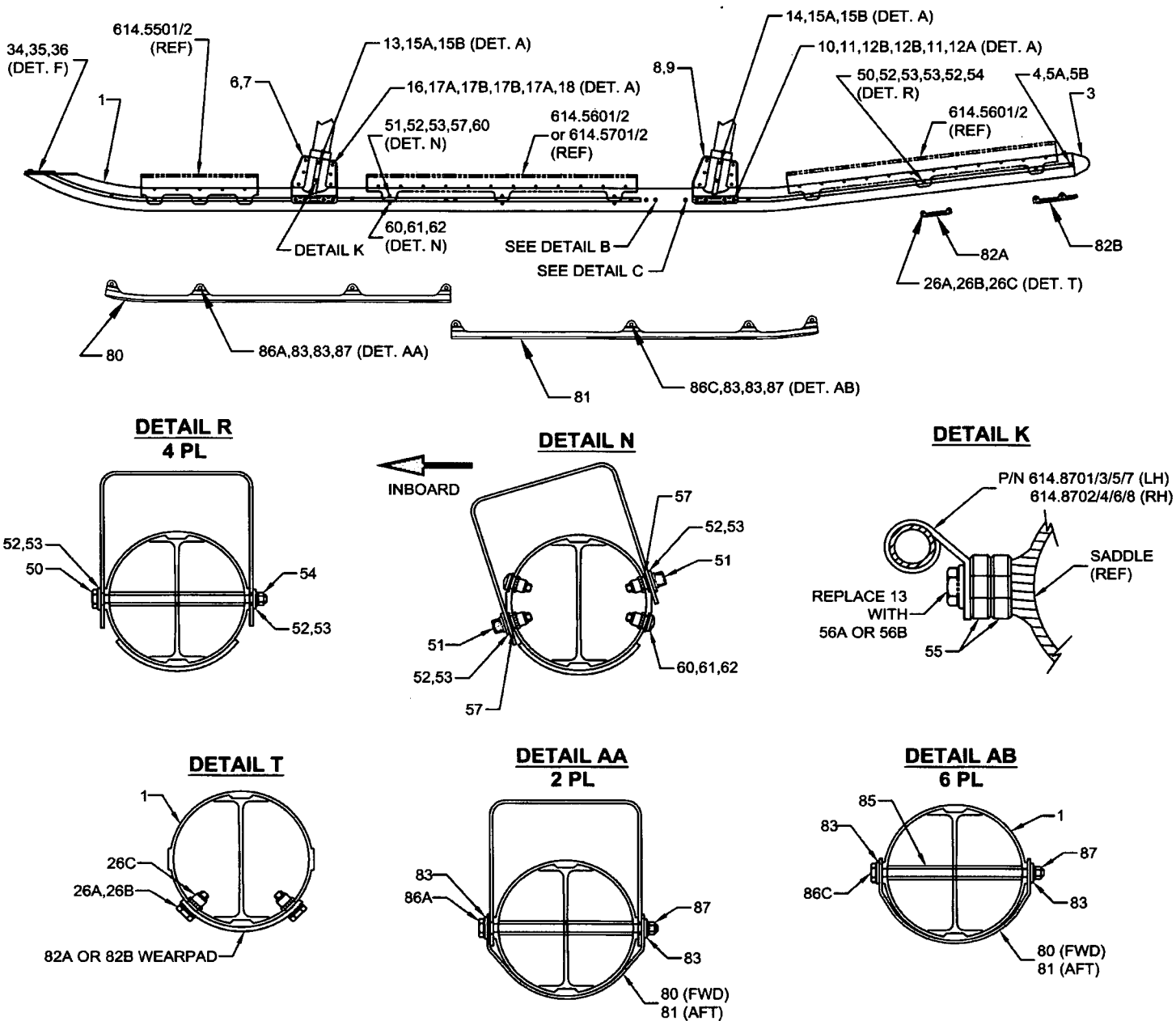
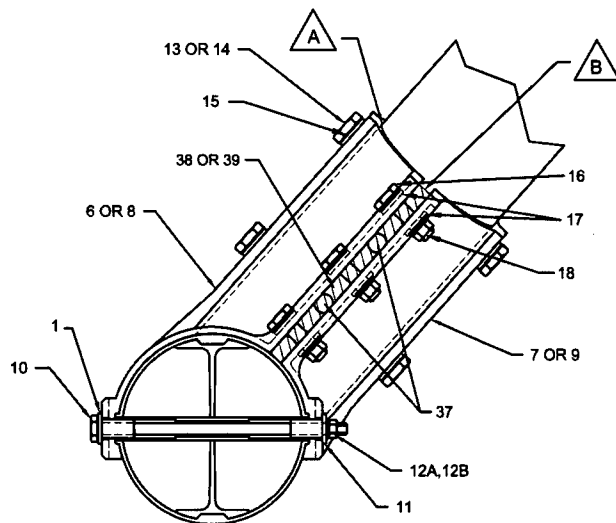
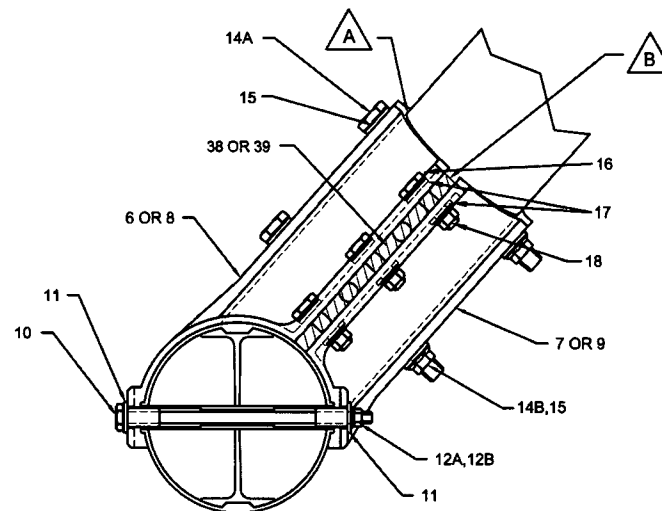


FIGURE 32-11: (D206-642-611/-612/-613/-614) SKIDTUBE INSTALLATION
(206 A/B FLOAT SKIDTUBES (TRI-BAG FLOATS))

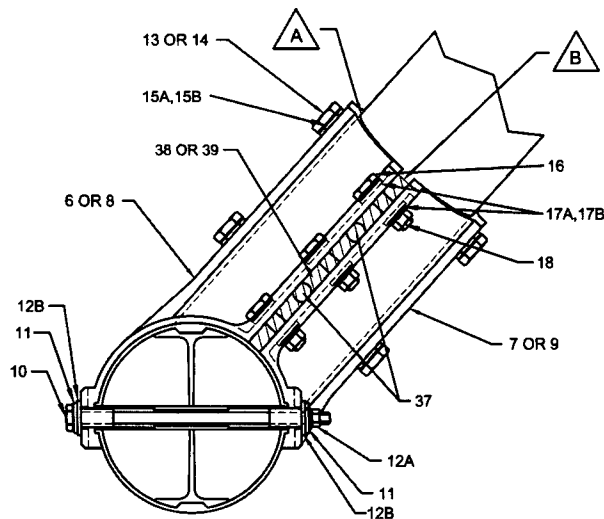
DETAIL A
ALL MODELS EXCEPT 206 A/B THRU BOLT, NON-FLOAT



DETAIL A
206 A/B HIGH GEAR THRU BOLT ONLY, NON-FLOAT



DETAIL A
ALL MODELS WITH FLOAT SKIDTUBES
EXCEPT 206 A/B THRU BOLT



DETAIL A
206 A/B HIGH GEAR FLOAT SKIDTUBES WITH THRU BOLT
AND FLOAT SKIDTUBES WITH DART CROSSTUBES

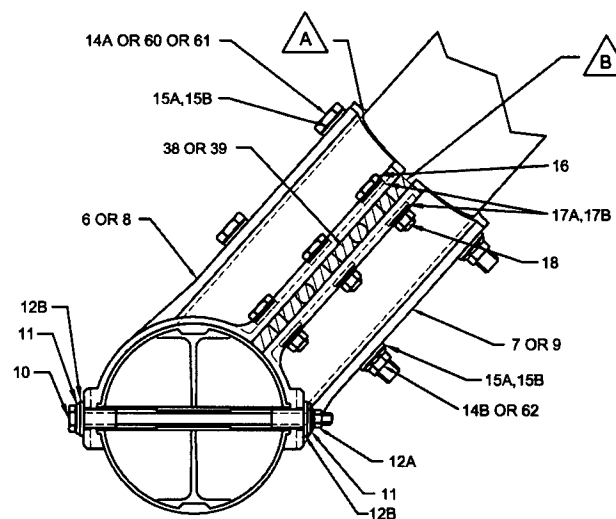
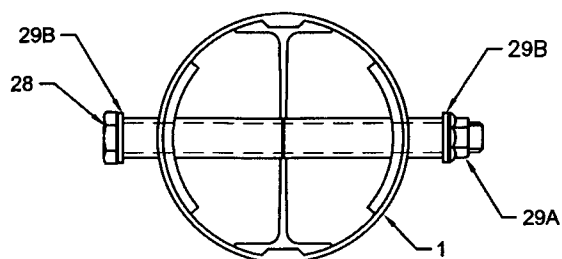
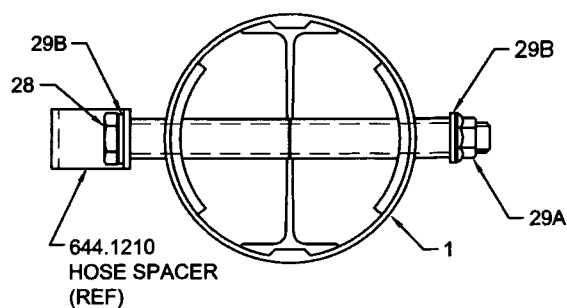


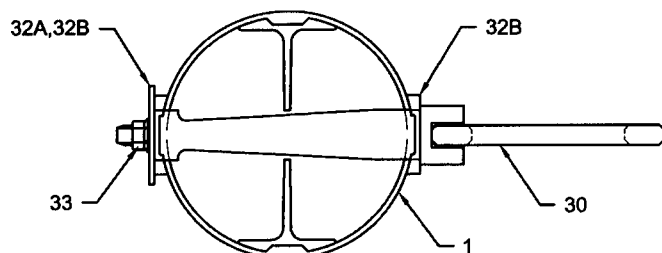
FIGURE 32-12: D206-642 SKIDTUBE DETAILS



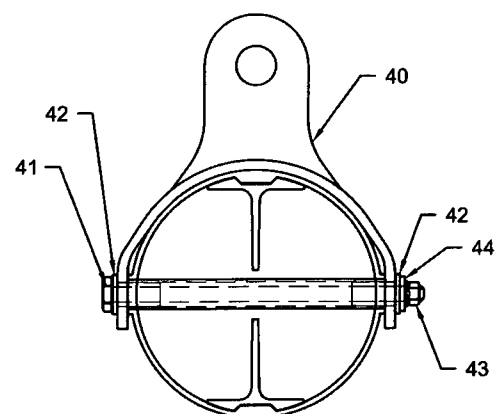
DETAIL B
206B ONLY



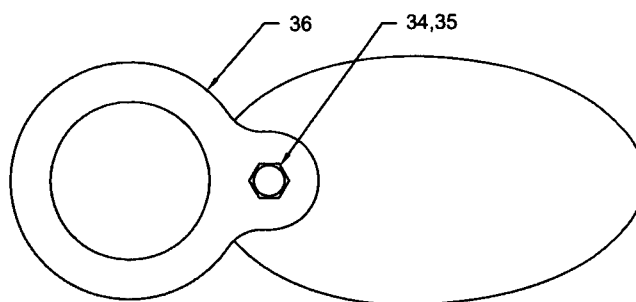
DETAIL C
206B WITH APICAL TRIBAG FLOATS ONLY



DETAIL D
206L/L-1/L-3/L-4/407 ONLY



DETAIL G
206L/L-1/L-3/L-4/407 ONLY

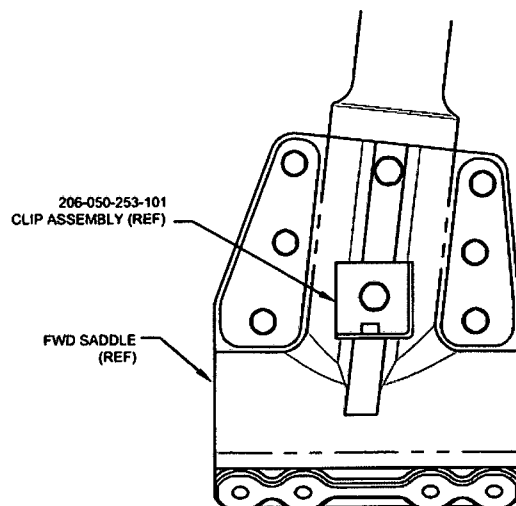


DETAIL F
ALL MODELS

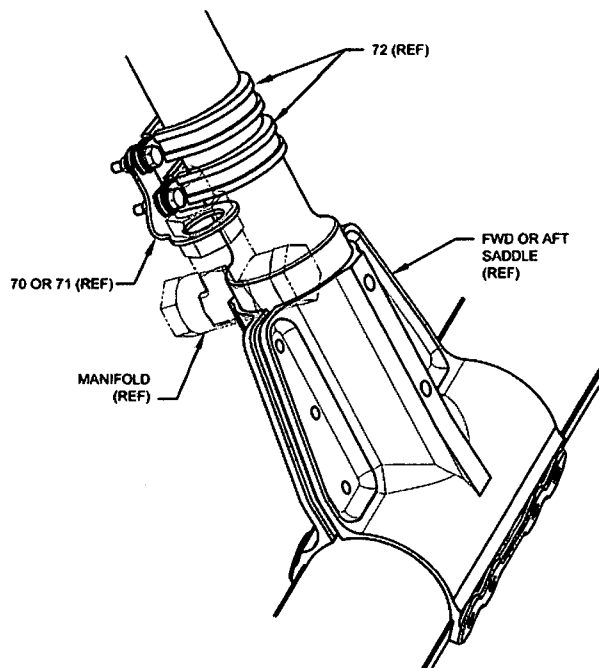
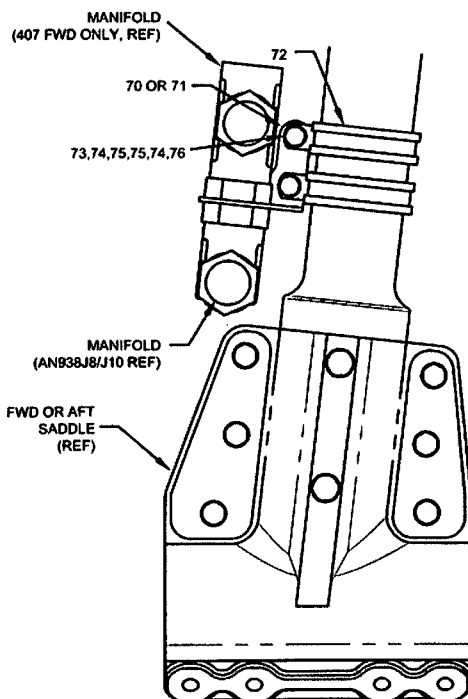
FIGURE 32-13: D206-642 SKIDTUBE DETAILS

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32-00-00



DETAIL L
206L OEM/PMA FLOATS ONLY



DETAIL M
206L/407 OEM/PMA FLOATS ONLY

FIGURE 32-14: D206-642-513/-514 SKIDTUBE DETAILS

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32.10 WEIGHT AND BALANCE**32.10.1 D206-642-111/-112/-113/-114/-211/-212/-213/-214/-215/-216/-217/-218/-311/-312/-313/-314/-411/-412/-413/-414 Skidtubes and Saddles**

The following weight and balance information is for D206-642-111/-112/-113/-114/-211/-212/-213/-214/-215/-216/-217/-218/-311/-312/-313/-314/-411/-412/-413/-414 skidtube and saddle installations only. The weight and balance of the skidtube and saddle installations that are being removed from the aircraft are the responsibility of the installer.

- Note:** 1) Ground handling kits are optional installations for flight.
 2) Weights for (*) items should be subtracted if they are removed/not installed.
 3) Either the regular or training wearplate must be installed.

32.10.1.1 206 A/B Low Gear Skidtubes

Installation	Weight	LONGITUDINAL		LATERAL	
		Arm	Moment	Arm	Moment
D206-642-111 206A/B LOW, LH	18.0 lb 8.2 kg	96.3 in 2.44 m	1733 in lb 20.0 m kg	-36.8 in -0.93 m	-662 in lb -7.6 m kg
D206-642-112 206A/B LOW, RH	18.0 lb 8.2 kg	96.3 in 2.44 m	1733 in lb 20.0 m kg	36.8 in 0.93 m	662 in lb 7.6 m kg
D206-642-113 206A/B LOW, LH	21.6 lb 9.8 kg	96.3 in 2.44 m	2080 in lb 23.9 m kg	-36.8 in -0.93 m	-795 in lb -9.1 m kg
D206-642-114 206A/B LOW, RH	21.6 lb 9.8 kg	96.3 in 2.44 m	2080 in lb 23.9 m kg	36.8 in 0.93 m	795 in lb 9.1 m kg
*D206-642-147/-157 WEARSHOE KIT	4.9 lb 2.2 kg	96.3 in 2.44 m	472 in lb 5.4 m kg	+/- 36.8 in +/- 0.93 m	+/- 180 in lb +/- 2.0 m kg
*D206-642-149 RUN-ON WEARPLATE KIT	8.5 lb 3.9 kg	96.3 in 2.44 m	819 in lb 9.5 m kg	+/- 36.8 in +/- 0.93 m	+/- 313 in lb +/- 3.6 m kg

32.10.1.2 206 A/B High Gear Skidtubes

Installation	Weight	LONGITUDINAL		LATERAL	
		Arm	Moment	Arm	Moment
D206-642-211 206A/B HIGH, LH	19.3 lb 8.8 kg	93.8 in 2.38 m	1810 in lb 20.9 m kg	-37.3 in -0.95 m	-720 in lb -8.4 m kg
D206-642-212 206A/B HIGH, RH	19.3 lb 8.8 kg	93.8 in 2.38 m	1810 in lb 20.9 m kg	37.3 in 0.95 m	720 in lb 8.4 m kg
D206-642-213 206A/B HIGH, LH, THRU	19.3 lb 8.8 kg	93.8 in 2.38 m	1810 in lb 20.9 m kg	-37.3 in -0.95 m	-720 in lb -8.4 m kg
D206-642-214 206A/B HIGH, RH, THRU	19.3 lb 8.8 kg	93.8 in 2.38 m	1810 in lb 20.9 m kg	37.3 in 0.95 m	720 in lb 8.4 m kg
D206-642-215 206A/B HIGH, LH	23.3 lb 10.6 kg	96.3 in 2.44 m	2244 in lb 25.9 m kg	-37.3 in -0.95 m	-869 in lb -10.1 m kg
D206-642-216 206A/B HIGH, RH	23.3 lb 10.6 kg	96.3 in 2.44 m	2244 in lb 25.9 m kg	37.3 in 0.95 m	869 in lb 10.1 m kg
D206-642-217 206A/B HIGH, LH	23.3 lb 10.6 kg	96.3 in 2.44 m	2244 in lb 25.9 m kg	-37.3 in -0.95 m	-869 in lb -10.1 m kg
D206-642-218 206A/B HIGH, RH	23.3 lb 10.6 kg	96.3 in 2.44 m	2244 in lb 25.9 m kg	37.3 in 0.95 m	869 in lb 10.1 m kg
*D206-642-247/-257 WEARSHOE KIT	5.1 lb 2.3 kg	93.8 in 2.38 m	478 in lb 5.5 m kg	+/- 37.3 in +/- 0.95 m	+/- 190 in lb +/- 2.2 m kg
*D206-642-249 RUN-ON WEARPLATE KIT	9.1 lb 4.1 kg	96.3 in 2.44 m	876 in lb 10.0 m kg	+/- 37.3 in +/- 0.95 m	+/- 339 in lb +/- 3.9 m kg

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32.10.1.3 206 L/L1/L3/L4 Low Gear Skid tubes

Installation	Weight	LONGITUDINAL		LATERAL	
		Arm	Moment	Arm	Moment
D206-642-311	27.2 lb	109.3 in	2973 in lb	-41.0 in	-1115 in lb
206L/L1/L3/L4 LOW, LH	12.3 kg	2.78 m	34.2 m kg	-1.04 m	-12.8 m kg
D206-642-312	27.2 lb	109.3 in	2973 in lb	41.0 in	1115 in lb
206L/L1/L3/L4 LOW, RH	12.3 kg	2.78 m	34.2 m kg	1.04 m	12.8 m kg
D206-642-313	30.6 lb	110.6 in	3384 in lb	-41.0 in	-1255 in lb
206L/L1/L3/L4 LOW, LH	13.9 kg	2.81 m	39.1 m kg	-1.04 m	-14.5 m kg
D206-642-314	30.6 lb	110.6 in	3484 in lb	41.0 in	1255 in lb
206L/L1/L3/L4 LOW, RH	13.9 kg	2.81 m	39.1 m kg	1.04 m	14.5 m kg
*D206-642-347/-357	6.2 lb	109.3 in	678 in lb	+/- 41.0 in	+/- 254 in lb
WEARSHOE KIT	2.8 kg	2.78 m	7.8 m kg	+/- 1.04 m	+/- 2.9 m kg
*D206-642-349	9.5 lb	110.6 in	1051 in lb	+/- 41.0 in	+/- 390 in lb
RUN-ON WEARPLATE KIT	4.3 kg	2.81 m	12.1 m kg	+/- 1.04 m	+/- 4.5 m kg
*D206-648-013	1.3 lb	127.0 in	165 in lb	+/- 41.0 in	+/- 53 in lb
GROUND HANDLING KIT	0.6 kg	3.23 m	1.9 m kg	+/- 1.04 m	+/- 0.6 m kg

32.10.1.4 206 L/L1/L3/L4 High Gear Skid tubes

Installation	Weight	LONGITUDINAL		LATERAL	
		Arm	Moment	Arm	Moment
D206-642-311	27.2 lb	108.3 in	2946 in lb	-43.0 in	-1170 in lb
206L/L1/L3/L4 HIGH, LH	12.3 kg	2.75 m	33.8 m kg	-1.09 m	-13.4 m kg
D206-642-312	27.2 lb	108.3 in	2946 in lb	43.0 in	1170 in lb
206L/L1/L3/L4 HIGH, RH	12.3 kg	2.75 m	33.8 m kg	1.09 m	13.4 m kg
D206-642-313	30.6 lb	109.5 in	3351 in lb	-43.0 in	-1316 in lb
206L/L1/L3/L4 LOW, LH	13.9 kg	2.79 m	38.8 m kg	-1.09 m	-15.2 m kg
D206-642-314	30.6 lb	109.5 in	3351 in lb	43.0 in	1316 in lb
206L/L1/L3/L4 LOW, RH	13.9 kg	2.79 m	38.8 m kg	1.09 m	15.2 m kg
*D206-642-347/-357	6.2 lb	108.3 in	671 in lb	+/- 43.0 in	+/- 267 in lb
WEARSHOE KIT	2.8 kg	2.75 m	7.7 m kg	+/- 1.09 m	+/- 3.1 m kg
*D206-642-349	9.5 lb	109.5 in	1040 in lb	+/- 43.0 in	+/- 409 in lb
RUN-ON WEARPLATE KIT	4.3 kg	2.79 m	12.0 m kg	+/- 1.09 m	+/- 4.7 m kg
D206-642-411	30.4 lb	103.2 in	3137 in lb	-43.0 in	-1307 in lb
206L/L1/L3/L4 HIGH, LH	13.8 kg	2.62 m	36.2 m kg	-1.09 m	-15.0 m kg
D206-642-412	30.4 lb	103.2 in	3137 in lb	43.0 in	1307 in lb
206L/L1/L3/L4 HIGH, RH	13.8 kg	2.62 m	36.2 m kg	1.09 m	15.0 m kg
D206-642-413	35.0 lb	104.3 in	3651 in lb	-43.0 in	-1505 in lb
206L/L1/L3/L4 HIGH, LH	15.9 kg	2.64 m	42.0 m kg	-1.09 m	-17.3 m kg
D206-642-414	35.0 lb	104.3 in	3651 in lb	43.0 in	1505 in lb
206L/L1/L3/L4 HIGH, RH	15.9 kg	2.64 m	42.0 m kg	1.09 m	17.3 m kg
*D206-642-447/-457	6.7 lb	103.2 in	691 in lb	+/- 43.0 in	+/- 288 in lb
WEARSHOE KIT	3.0 kg	2.62 m	7.9 m kg	+/- 1.09 m	+/- 3.3 m kg
*D206-642-449	11.3 lb	104.3 in	1179 in lb	+/- 43.0 in	+/- 486 in lb
RUN-ON WEARPLATE KIT	5.1 kg	2.64 m	13.5 m kg	+/- 1.09 m	+/- 5.6 m kg
*D206-648-013	1.3 lb	126.8 in	165 in lb	+/- 43.0 in	+/- 56 in lb
GROUND HANDLING KIT	0.6 kg	3.22 m	1.9 m kg	+/- 1.09 m	+/- 0.7 m kg

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32.10.1.5 407 Low Gear Skidtubes

Installation	Weight	LONGITUDINAL		LATERAL	
		Arm	Moment	Arm	Moment
D206-642-311	27.2 lb	109.3 in	2973 in lb	-45.0 in	-1224 in lb
407 LOW, LH	12.3 kg	2.78 m	34.2 m kg	-1.14 m	-14.0 m kg
D206-642-312	27.2 lb	109.3 in	2973 in lb	45.0 in	1224 in lb
407 LOW, RH	12.3 kg	2.78 m	34.2 m kg	1.14 m	14.0 m kg
D206-642-313	30.6 lb	110.6 in	3484 in lb	-45.0 in	-1377 in lb
206L/L1/L3/L4 LOW, LH	13.9 kg	2.81 m	39.6 m kg	-1.14 m	-15.8 m kg
D206-642-314	30.6 lb	110.6 in	3484 in lb	45.0 in	1377 in lb
206L/L1/L3/L4 LOW, RH	13.9 kg	2.81 m	39.6 m kg	1.14 m	15.8 m kg
*D206-642-347/-357	6.2 lb	109.3 in	678 in lb	+/- 45.0 in	+/- 279 in lb
WEARSHOE KIT	2.8 kg	2.78 m	7.8 m kg	+/- 1.14 m	+/- 3.2 m kg
*D206-642-349	9.5 lb	110.6 in	1051 in lb	+/- 45.0 in	+/- 428 in lb
RUN-ON WEARPLATE KIT	4.3 kg	2.81 m	12.1 m kg	+/- 1.14 m	+/- 4.9 m kg
*D206-648-013	1.3 lb	127.0 in	165 in lb	+/- 45.0 in	+/- 59 in lb
GROUND HANDLING KIT	0.6 kg	3.23 m	1.9 m kg	+/- 1.14 m	+/- 0.7 m kg

32.10.1.6 407 High Gear Skidtubes

Installation	Weight	LONGITUDINAL		LATERAL	
		Arm	Moment	Arm	Moment
D206-642-311	27.2 lb	108.3 in	2946 in lb	-47.0 in	-1278 in lb
407 HIGH, LH	12.3 kg	2.75 m	33.8 m kg	-1.19 m	-14.6 m kg
D206-642-312	27.2 lb	108.3 in	2946 in lb	47.0 in	1278 in lb
407 HIGH, RH	12.3 kg	2.75 m	33.8 m kg	1.19 m	14.6 m kg
D206-642-313	30.6 lb	109.5 in	3451 in lb	-47.0 in	-1438 in lb
206L/L1/L3/L4 LOW, LH	13.9 kg	2.79 m	38.8 m kg	-1.19 m	-16.5 m kg
D206-642-314	30.6 lb	109.5 in	3451 in lb	47.0 in	1438 in lb
206L/L1/L3/L4 LOW, RH	13.9 kg	2.79 m	38.8 m kg	1.19 m	16.5 m kg
*D206-642-347/-357	6.2 lb	108.3 in	671 in lb	+/- 47.0 in	+/- 291 in lb
WEARSHOE KIT	2.8 kg	2.75 m	7.8 m kg	+/- 1.19 m	+/- 3.3 m kg
*D206-642-349	9.5 lb	109.5 in	1040 in lb	+/- 47.0 in	+/- 447 in lb
RUN-ON WEARPLATE KIT	4.3 kg	2.79 m	12.0 m kg	+/- 1.19 m	+/- 5.1 m kg
*D206-648-013	1.3 lb	126.8 in	165 in lb	+/- 47.0 in	+/- 61 in lb
GROUND HANDLING KIT	0.6 kg	3.22 m	1.9 m kg	+/- 1.19 m	+/- 0.7 m kg

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32.10.2 D206-642-511/-512/-513/-514/-515/-516/-517/-518/-611/-612/-613/-614 Float Skidtubes and Saddles

The following weight and balance information is for Dart D206-642-511/-512/-513/-514/-515/-516/-517/-518/-611/-612/-613/-614 float skidtube and saddle installations only. The weight and balance of the skidtube and saddle installations that are being removed from the aircraft are the responsibility of the installer.

- Note:** 1) Ground handling kits are optional installations for flight.
 2) Weights for (*) items should be subtracted if they are removed/not installed.
 3) Either the regular or training wearplate must be installed.

32.10.2.1 206 L/L1/L3/L4 High Gear Float Skidtubes

Installation	Weight	LONGITUDINAL		LATERAL	
		Arm	Moment	Arm	Moment
D206-642-511 206L/L1/L3/L4/407 HIGH FLOAT, LH	42.0 lb 19.1 kg	103.2 in 2.62 m	4334 in lb 50.0 m kg	-43.0 in -1.09 m	-1806 in lb -20.8 m kg
D206-642-512 206L/L1/L3/L4/407 HIGH FLOAT, RH	42.0 lb 19.1 kg	103.2 in 2.62 m	4334 in lb 50.0 m kg	43.0 in 1.09 m	1806 in lb 20.8 m kg
D206-642-513 206L/L1/L3/L4/407 HIGH FLOAT, LH	42.3 lb 19.2 kg	103.2 in 2.62 m	4365 in lb 50.3 m kg	-43.0 in -1.09 m	-1819 in lb -20.9 m kg
D206-642-514 206L/L1/L3/L4/407 HIGH FLOAT, RH	42.3 lb 19.2 kg	103.2 in 2.62 m	4365 in lb 50.3 m kg	43.0 in 1.09 m	1819 in lb 20.9 m kg
D206-642-515 206L/L1/L3/L4/407 HIGH FLOAT, LH	44.8 lb 20.3 kg	104.1 in 2.64 m	4664 in lb 53.6 m kg	-43.0 in -1.09 m	-1926 in lb -22.1 m kg
D206-642-516 206L/L1/L3/L4/407 HIGH FLOAT, RH	44.8 lb 20.3 kg	104.1 in 2.64 m	4664 in lb 53.6 m kg	43.0 in 1.09 m	1926 in lb 22.1 m kg
D206-642-517 206L/L1/L3/L4/407 HIGH FLOAT, LH	45.1 lb 20.5 kg	104.1 in 2.64 m	4695 in lb 54.1 m kg	-43.0 in -1.09 m	-1939 in lb -22.3 m kg
D206-642-518 206L/L1/L3/L4/407 HIGH FLOAT, RH	45.1 lb 20.5 kg	104.1 in 2.64 m	4695 in lb 54.1 m kg	43.0 in 1.09 m	1939 in lb 22.3 m kg
*D206-642-547/-557 WEARSHOE KIT	9.0 lb 4.1 kg	103.2 in 2.62 m	929 in lb 10.7 m kg	+/- 43.0 in +/- 1.09 m	+/- 387 in lb +/- 4.5 m kg
*D206-642-549 RUN-ON WEARPLATE KIT	11.8 lb 5.4 kg	104.1 in 2.64 m	1228 in lb 14.3 m kg	+/- 43.0 in +/- 1.09 m	+/- 507 in lb +/- 5.9 m kg
*D206-648-013 GROUND HANDLING KIT	1.3 lb 0.6 kg	126.8 in 3.22 m	165 in lb 1.9 m kg	+/- 43.0 in +/- 1.09 m	+/- 56 in lb +/- 0.7 m kg

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32.10.2.2 407 High Gear Float Skidtubes

Installation	Weight	LONGITUDINAL		LATERAL	
		Arm	Moment	Arm	Moment
D206-642-511 206L/L1/L3/L4/407 HIGH FLOAT, LH	42.0 lb 19.1 kg	103.2 in 2.62 m	4334 in lb 50.0 m kg	-47.0 in -1.19 m	-1974 in lb -22.7 m kg
D206-642-512 206L/L1/L3/L4/407 HIGH FLOAT, RH	42.0 lb 19.1 kg	103.2 in 2.62 m	4334 in lb 50.0 m kg	47.0 in 1.19 m	1974 in lb 22.7 m kg
D206-642-513 206L/L1/L3/L4/407 HIGH FLOAT, LH	42.3 lb 19.2 kg	103.2 in 2.62 m	4365 in lb 50.3 m kg	-47.0 in -1.19 m	-1988 in lb -22.9 m kg
D206-642-514 206L/L1/L3/L4/407 HIGH FLOAT, RH	42.3 lb 19.2 kg	103.2 in 2.62 m	4365 in lb 50.3 m kg	47.0 in 1.19 m	1988 in lb 22.9 m kg
D206-642-515 206L/L1/L3/L4/407 HIGH FLOAT, LH	44.8 lb 20.3 kg	104.1 in 2.64 m	4664 in lb 53.6 m kg	-47.0 in -1.19 m	-2106 in lb -24.2 m kg
D206-642-516 206L/L1/L3/L4/407 HIGH FLOAT, RH	44.8 lb 20.3 kg	104.1 in 2.64 m	4664 in lb 53.6 m kg	47.0 in 1.19 m	2106 in lb 24.2 m kg
D206-642-517 206L/L1/L3/L4/407 HIGH FLOAT, LH	45.1 lb 20.5 kg	104.1 in 2.64 m	4695 in lb 54.1 m kg	-47.0 in -1.19 m	-2120 in lb -24.4 m kg
D206-642-518 206L/L1/L3/L4/407 HIGH FLOAT, RH	45.1 lb 20.5 kg	104.1 in 2.64 m	4695 in lb 54.1 m kg	47.0 in 1.19 m	2120 in lb 24.4 m kg
*D206-642-547/-557 WEARSHOE KIT	9.0 lb 4.1 kg	103.2 in 2.62 m	929 in lb 10.7 m kg	+/- 47.0 in +/- 1.19 m	+/- 423 in lb +/- 4.9 m kg
*D206-642-549 RUN-ON WEARPLATE KIT	11.8 lb 5.4 kg	104.1 in 2.64 m	1228 in lb 14.3 m kg	+/- 47.0 in +/- 1.19 m	+/- 555 in lb +/- 6.4 m kg
*D206-648-013 GROUND HANDLING KIT	1.3 lb 0.6 kg	126.8 in 3.22 m	165 in lb 1.9 m kg	+/- 47.0 in +/- 1.19 m	+/- 61 in lb +/- 0.7 m kg

32.10.2.3 206 A/B High Gear Float Skidtubes

Installation	Weight	LONGITUDINAL		LATERAL	
		Arm	Moment	Arm	Moment
D206-642-611 206A/B HIGH FLOAT, LH	25.0 lb 11.4 kg	93.8 in 2.38 m	2345 in lb 27.1 m kg	-37.3 in -0.95 m	-933 in lb -10.8 m kg
D206-642-612 206A/B HIGH FLOAT, RH	25.0 lb 11.4 kg	93.8 in 2.38 m	2345 in lb 27.1 m kg	37.3 in 0.95 m	933 in lb 10.8 m kg
D206-642-613 206A/B HIGH FLOAT, LH, THRU	25.0 lb 11.4 kg	93.8 in 2.38 m	2345 in lb 27.1 m kg	-37.3 in -0.95 m	-933 in lb -10.8 m kg
D206-642-614 206A/B HIGH FLOAT, RH, THRU	25.0 lb 11.4 kg	93.8 in 2.38 m	2345 in lb 27.1 m kg	37.3 in 0.95 m	933 in lb 10.8 m kg
*D206-642-645/-655 WEARSHOE KIT	7.5 lb 3.4 kg	93.8 in 2.38 m	704 in lb 8.1 m kg	+/- 37.3 in +/- 0.95 m	+/- 280 in lb +/- 3.2 m kg
*D206-642-649 RUN-ON WEARPLATE KIT	9.4 lb 4.3 kg	94.3 in 2.39 m	886 in lb 10.3 m kg	+/- 37.3 in +/- 0.95 m	+/- 351 in lb +/- 4.1 m kg

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32.11 206A/B Low Gear Skidtubes

ITEM	QTY -111	QTY -112	QTY -141	QTY -157	PART NUMBER	DESCRIPTION
	X				D206-642-111	SKIDTUBE INSTALLATION, LH
		X			D206-642-112	SKIDTUBE INSTALLATION, RH
	1	1	X		D206-642-141	SKIDTUBE
				X	D206-642-157	WEARSHOE KIT (REPLACES -147)
	1	1			D206-651-041	* 206 GHW ADAPTER ⁽²⁾
1			1		D2650-1	SKIDTUBE ASSEMBLY
2A			16		D2651-1	* PLUG ⁽¹⁾
2B			16		D2651-3	* O-RING ⁽¹⁾
3			1		D2646	* AFT CAP ⁽¹⁾
4			2		MS27039-1-08	* SCREW ⁽¹⁾
5			2		NAS1149D0332J	* WASHER ⁽¹⁾ (OR AN960JD10L)
6	1				D2661-1	SADDLE, FWD OUT, LH
6		1			D2661-2	SADDLE, FWD OUT, RH
7	1				D2662-1	SADDLE, FWD IN, LH
7		1			D2662-2	SADDLE, FWD IN, RH
8	1				D2661-1	SADDLE, AFT OUT, LH
8		1			D2661-2	SADDLE, AFT OUT, RH
9	1				D2662-1	SADDLE, AFT IN, LH
9		1			D2662-2	SADDLE, AFT IN, RH
10	8	8			AN3-41A	BOLT
11	16	16			D2652	BUSHING
12A	8	8			MS21042-3	NUT (OR MS21042L3)
12B	8	8			NAS1149D0363J	WASHER (OR AN960JD10)
13	4	4			AN5-7A	BOLT
14	4	4			AN5-7A	BOLT
15	8	8			NAS1149D0563J	WASHER (OR AN960JD516)
16	12	12			AN4-6A	BOLT
17	24	24			NAS1149D0463J	WASHER (OR AN960JD416)
18	12	12			MS21042-4	NUT (OR MS21042L4)
20A			4	4	D3537-1	WEARPAD (REPLACES D2648-3)
21A			1	1	D3537-3	WEARPAD (REPLACES D3429-1)
22A			1	1	D4956-11	WEARSHOE (REPLACES D3535-11 + D3536-11)
23A			1	1	D4956-21	WEARSHOE (REPLACES D3535-21 + D3536-21)
24A			1	1	D4956-31	WEARSHOE (REPLACES D3535-31 + D3536-31)
26A			42	42	MS27039C1-08	SCREW
26B			42	42	NAS1149C0332R	WASHER (OR AN960C10L)
26C			42		ALS7-1032-130	* INSERT ⁽¹⁾ (or AKS4-1032-130, ALS4-1032-130, AELS-1032-130)
28	2	2			AN6-44A	BOLT
29A	2	2			MS21042-6	NUT (OR MS21042L6)
29B	4	4			NAS1149D0663J	WASHER (OR AN960JD616)
34	1	1			AN4C5A	BOLT
35	1	1			NAS1149C0463R	WASHER (OR AN960C416)
36	1	1			D3413-1	RING (REPLACES D2655)
37	10	10			D2712	SET SCREW
38	2	2			D2884	SPACER
39	2	2			D2885	SPACER

NOTES: ⁽¹⁾ DENOTES THAT PART IS INCLUDED WITH D2650-1 ASSEMBLY ABOVE⁽²⁾ NOT INSTALLED AS PART OF SKIDTUBE. USED TO MODIFY OEM GROUND HANDLING WHEELS

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32-00-00

32.12 206A/B Low Gear Skidtubes (with Run-on Landing Wearplates)

ITEM	QTY -113	QTY -114	QTY -151	QTY -149	PART NUMBER	DESCRIPTION
	X				D206-642-113	SKIDTUBE INSTALLATION, LH
		X			D206-642-114	SKIDTUBE INSTALLATION, RH
	1	1	X		D206-642-151	SKIDTUBE
				X	D206-642-149	RUN-ON LANDING WEARPLATE KIT
	1	1			D206-651-041	* 206 GHW ADAPTER ⁽²⁾
1			1		D3804-041	SKIDTUBE ASSEMBLY
2A			6		D2651-1	* PLUG ⁽¹⁾
2B			6		D2651-3	* O-RING ⁽¹⁾
3			1		D2646	* AFT CAP ⁽¹⁾
4			2		MS27039-1-08	* SCREW ⁽¹⁾
5			2		NAS1149D0332J	* WASHER ⁽¹⁾ (OR AN960JD10L)
6	1				D2661-1	SADDLE, FWD OUT, LH
6		1			D2661-2	SADDLE, FWD OUT, RH
7	1				D2662-1	SADDLE, FWD IN, LH
7		1			D2662-2	SADDLE, FWD IN, RH
8	1				D2661-1	SADDLE, AFT OUT, LH
8		1			D2661-2	SADDLE, AFT OUT, RH
9	1				D2662-1	SADDLE, AFT IN, LH
9		1			D2662-2	SADDLE, AFT IN, RH
10	8	8			AN3-41A	BOLT
11	16	16			D2652	BUSHING
12A	8	8			MS21042-3	NUT (OR MS21042L3)
12B	8	8			NAS1149D0363J	WASHER (OR AN960JD10)
13	4	4			AN5-10A	BOLT
14	4	4			AN5-11A	BOLT
15	8	8			NAS1149D0563J	WASHER (OR AN960JD516)
16	12	12			AN4-6A	BOLT
17	24	24			NAS1149D0463J	WASHER (OR AN960JD416)
18	12	12			MS21042-4	NUT (OR MS21042L4)
20A			1	1	D3805-041	FWD WEARPLATE ASSY
22A			1	1	D3805-045	AFT WEARPLATE ASSY
26A			7	7	AN3-36A	BOLT
26B			7	7	NAS1149D0363J	WASHER (OR AN960JD10)
26C			7	7	MS21042-3	NUT (OR MS21042L3)
26D			14	14	D3873-1	BUSHING
27				2	D2649	SPACER
28	2	2			AN6-44A	BOLT
29A	2	2			MS21042-6	NUT (OR MS21042L6)
29B	4	4			NAS1149D0663J	WASHER (OR AN960JD616)
34	1	1			AN4C5A	BOLT
35	1	1			NAS1149C0463R	WASHER (OR AN960C416)
36	1	1			D3413-1	RING
37	10	10			D2712	SET SCREW
38	2	2			D2884	SPACER
39	2	2			D2885	SPACER

NOTES: ⁽¹⁾ DENOTES THAT PART IS INCLUDED WITH D3804-041 ASSEMBLY ABOVE⁽²⁾ NOT INSTALLED AS PART OF SKIDTUBE. USED TO MODIFY OEM GROUND HANDLING WHEELS

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32-00-00

32.13 206A/B High Gear Skidtubes

ITEM	QTY -211	QTY -212	QTY -213	QTY -214	QTY -241	QTY -257	PART NUMBER	DESCRIPTION
	X						D206-642-211	SKIDTUBE INSTALLATION, LH
		X					D206-642-212	SKIDTUBE INSTALLATION, RH
			X				D206-642-213	SKIDTUBE INSTALLATION, LH, THRU BOLT
				X			D206-642-214	SKIDTUBE INSTALLATION, RH, THRU BOLT
	1	1	1	1	X		D206-642-241	SKIDTUBE
						X	D206-642-257	WEARSHOE KIT (REPLACES -247)
	1	1	1	1			D206-651-041	* 206 GHW ADAPTER ⁽³⁾
1					1		D2650-3	SKIDTUBE ASSEMBLY
2A					18		D2651-1	* PLUG ⁽¹⁾
2B					18		D2651-3	* O-RING ⁽¹⁾
3					1		D2646	* AFT CAP ⁽¹⁾
4					2		MS27039-1-08	* SCREW ⁽¹⁾
5					2		NAS1149D0332J	* WASHER ⁽¹⁾ (OR AN960JD10L)
6	1		1				D2665-1	SADDLE, FWD OUT, LH
6		1		1			D2665-2	SADDLE, FWD OUT, RH
7	1		1				D2666-1	SADDLE, FWD IN, LH
7		1		1			D2666-2	SADDLE, FWD IN, RH
8	1						D2665-1	SADDLE, AFT OUT, LH
8		1					D2665-2	SADDLE, AFT OUT, RH
8			1				D2667-1	SADDLE, AFT OUT, LH
8				1			D2667-2	SADDLE, AFT OUT RH
9	1						D2666-1	SADDLE, AFT IN, LH
9		1					D2666-2	SADDLE, AFT IN, RH
9			1				D2668-1	SADDLE, AFT IN, LH
9				1			D2668-2	SADDLE, AFT IN, RH
10	8	8	8	8			AN3-41A	BOLT
11	16	16	16	16			D2652	BUSHING
12A	8	8	8	8			MS21042-3	NUT (OR MS21042L3)
12B	8	8	8	8			NAS1149D0363J	WASHER (OR AN960JD10)
13	4	4	4	4			AN5-7A	BOLT
14	4	4	4	4			AN5-11A	BOLT
14A			2	2			AN5-32A	* BOLT ⁽²⁾
14B			2	2			MS21042-5	* NUT (OR MS21042L5) ⁽²⁾
15	8	8	8	8			NAS1149D0563J	WASHER (OR AN960JD516)
16	12	12	12	12			AN4-6A	BOLT
17	24	24	24	24			NAS1149D0463J	WASHER (OR AN960JD416)
18	12	12	12	12			MS21042-4	NUT (OR MS21042L4)
20A					4	4	D3537-1	WEARPAD (REPLACES D2648-3)
21A					1	1	D3537-3	WEARPAD (REPLACES D3429-1)
22A					1	1	D4956-13	WEARSHOE (REPLACES D3535-13 + D3536-13)
23A					1	1	D4956-21	WEARSHOE (REPLACES D3535-21 + D3536-21)
24A					1	1	D4956-33	WEARSHOE (REPLACES D3535-33 + D3536-33)
26A					44	44	MS27039C1-08	SCREW
26B					44	44	NAS1149C0332R	WASHER (OR AN960C10L)
26C					44		ALS7-1032-130	* INSERT ⁽¹⁾ (or AKS4-1032-130, ALS4-1032-130, AELS-1032-130)
28	2	2	2	2			AN6-44A	BOLT
29A	2	2	2	2			MS21042-6	NUT (OR MS21042L6)
29B	4	4	4	4			NAS1149D0663J	WASHER (OR AN960JD616)
34	1	1	1	1			AN4C5A	BOLT
35	1	1	1	1			NAS1149C0463R	WASHER (OR AN960C416)
36	1	1	1	1			D3413-1	RING (REPLACES D2655)
37	10	10	5	5			D2712	SET SCREW
38	2	2	2	2			D2884	SADDLE SPACER
39	2	2	2	2			D2885	SADDLE SPACER

NOTES: ⁽¹⁾ DENOTES THAT PART IS INCLUDED WITH D2650-3 ASSEMBLY ABOVE⁽²⁾ MAY BE REQUIRED ON -213/-214 INSTALLATIONS⁽³⁾ NOT INSTALLED AS PART OF SKIDTUBE. USED TO MODIFY OEM GROUND HANDLING WHEELS

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32-00-00

32.14 206A/B High Gear Skid tubes (with Run-on Landing Wearplates)

ITEM	QTY -215	QTY -216	QTY -217	QTY -218	QTY -251	QTY -249	PART NUMBER	DESCRIPTION
	X						D206-642-215	SKIDTUBE INSTALLATION, LH
		X					D206-642-216	SKIDTUBE INSTALLATION, RH
			X				D206-642-217	SKIDTUBE INSTALLATION, THRU BOLT, LH
				X			D206-642-218	SKIDTUBE INSTALLATION, THRU BOLT, RH
1	1	1	1	1	X		D206-642-251	SKIDTUBE
						X	D206-642-249	RUN-ON WEARPLATE KIT
1	1	1	1	1			D206-651-041	* 206 GHW ADAPTER (3)
1					1		D3804-043	SKIDTUBE ASSEMBLY
2A					8		D2651-1	* PLUG (1)
2B					8		D2651-3	* O-RING (1)
3					1		D2646	* AFT CAP (1)
4					2		MS27039-1-08	* SCREW (1)
5					2		NAS1149D0332J	* WASHER (1) (OR AN960JD10L)
6	1		1				D2665-1	SADDLE, FWD OUT, LH
6		1		1			D2665-2	SADDLE, FWD OUT, RH
7	1		1				D2666-1	SADDLE, FWD IN, LH
7		1		1			D2666-2	SADDLE, FWD IN, RH
8	1						D2665-1	SADDLE, AFT OUT, LH
8		1					D2665-2	SADDLE, AFT OUT, RH
8			1				D2667-1	SADDLE, AFT OUT, LH
8				1			D2667-2	SADDLE, AFT OUT RH
9	1						D2666-1	SADDLE, AFT IN, LH
9		1					D2666-2	SADDLE, AFT IN, RH
9			1				D2668-1	SADDLE, AFT IN, LH
9				1			D2668-2	SADDLE, AFT IN, RH
10	8	8	8	8			AN3-41A	BOLT
11	16	16	16	16			D2652	BUSHING
12A	8	8	8	8			MS21042-3	NUT (OR MS21042L3)
12B	8	8	8	8			NAS1149D0363J	WASHER (OR AN960JD10)
13	4	4	4	4			AN5-7A	BOLT
14	4	4	4	4			AN5-11A	BOLT
14A			2	2			AN5-32A	* BOLT (2)
14B			2	2			MS21042-5	* NUT (OR MS21042L5) (2)
15	8	8	8	8			NAS1149D0563J	WASHER (OR AN960JD516)
16	12	12	12	12			AN4-6A	BOLT
17	24	24	24	24			NAS1149D0463J	WASHER (OR AN960JD416)
18	12	12	12	12			MS21042-4	NUT (OR MS21042L4)
20A					1	1	D3805-043	FWD WEARPLATE ASSY
22A					1	1	D3805-047	AFT WEARPLATE ASSY
26A					7	7	AN3-36A	BOLT
26B					7	7	NAS1149C0332R	WASHER (OR AN960C10L)
26C					7	7	MS21042-3	NUT (OR MS21042L3)
26D					14	14	D3873-1	BUSHING
27						2	D2649	SPACER
28	2	2	2	2			AN6-44A	BOLT
29A	2	2	2	2			MS21042-6	NUT (OR MS21042L6)
29B	4	4	4	4			NAS1149D0663J	WASHER (OR AN960JD616)
34	1	1	1	1			AN4C5A	BOLT
35	1	1	1	1			NAS1149C0463R	WASHER (OR AN960C416)
36	1	1	1	1			D3413-1	RING
37	10	10	5	5			D2712	SET SCREW
38	2	2	2	2			D2884	SADDLE SPACER
39	2	2	2	2			D2885	SADDLE SPACER

NOTES: (1) DENOTES THAT PART IS INCLUDED WITH D3804-043 ASSEMBLY ABOVE

(2) NOT INSTALLED AS PART OF SKIDTUBE. USED TO MODIFY OEM GROUND HANDLING WHEELS

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32-00-00

32.15 206 L/L-1/L-3/L-4/407 Low & High Gear Skidtubes

ITEM	QTY -311	QTY -312	QTY -313	QTY -314	QTY -341	QTY -357	QTY -349	QTY -351	QTY -013	PART NUMBER	DESCRIPTION
	X									D206-642-311	SKIDTUBE INSTALLATION, LH
		X								D206-642-312	SKIDTUBE INSTALLATION, RH
			X							D206-642-313	SKIDTUBE INSTALLATION, LH
				X						D206-642-314	SKIDTUBE INSTALLATION, RH
	1	1			X					D206-642-341	SKIDTUBE
						X				D206-642-357	WEARSHOE KIT (REPLACES -347)
							X			D206-642-349	RUN-ON LANDING WEARPLATE KIT
			1	1				X		D206-642-351	SKIDTUBE
	1	1	1	1					X	D206-648-013	GROUND HANDLING KIT
1					1					D2650-5	SKIDTUBE ASSEMBLY
1								1		D4361-041	SKIDTUBE ASSEMBLY
2A					14			4		D2651-1	* PLUG ⁽¹⁾
2B					14			4		D2651-3	* O-RING ⁽¹⁾
3					1			1		D2646	* AFT CAP ⁽¹⁾
4					2			2		MS27039-1-08	* SCREW ⁽¹⁾
5					2			2		NAS1149D0332J	* WASHER ⁽¹⁾ (OR AN960JD10L)
6	1		1							D2932-1	SADDLE, FWD OUT, LH
6		1		1						D2932-2	SADDLE, FWD OUT, RH
7	1		1							D2933-1	SADDLE, FWD IN, LH
7		1		1						D2933-2	SADDLE, FWD IN, RH
8	1		1							D2938-1	SADDLE, AFT OUT, LH
8		1		1						D2938-2	SADDLE, AFT OUT, RH
9	1		1							D2939-1	SADDLE, AFT IN, LH
9		1		1						D2939-2	SADDLE, AFT IN, RH
10	8	8	8	8						AN3-41A	BOLT
11	16	16	16	16						D2652	BUSHING
12A	8	8	8	8						MS21042-3	NUT (OR MS21042L3)
12B	8	8	8	8						NAS1149D0363J	WASHER (OR AN960JD10)
13	4	4	4	4						AN5-10A (OR AN5-11A)	* BOLT ⁽²⁾
14	4	4	4	4						AN5-11A (OR AN5-12A)	* BOLT ⁽²⁾
15	8	8	8	8						NAS1149D0563J	WASHER (OR AN960JD516)
16	12	12	12	12						AN4-6A	BOLT
17	24	24	24	24						NAS1149D0463J	WASHER (OR AN960JD416)
18	12	12	12	12						MS21042-4	NUT (OR MS21042L4)
20A					6	6				D3537-1	WEARPAD (REPLACES D2648-3)
21A					1	1				D3537-3	WEARPAD (REPLACES D3429-1)
22A					1	1				D4956-11	WEARSHOE (REPLACES D3535-11 + D3536-11)
23A					1	1				D4956-23	WEARSHOE (REPLACES D3535-23 + D3536-23)
24A					1	1				D4956-35	WEARSHOE (REPLACES D3535-35 + D3536-35)
26A					54	54				MS27039C1-08	SCREW
26B					54	54				NAS1149C0332R	WASHER (OR AN960C10L)
26C					54					ALS7-1032-130	*INSERT ⁽¹⁾ (or AKS4-1032-130, ALS4-1032-130, AELS-1032-130)
30	1	1	1	1						D3407-043	TOW RING ASSEMBLY (REPLACES D2968-043)
32A	1	1	1	1						D3456-1	WASHER
32B	2	2	2	2						D3457-1	WASHER
33	1	1	1	1						MS21043-4	NUT
34	1	1	1	1						AN4C5A	BOLT
35	1	1	1	1						NAS1149C0463R	WASHER (OR AN960C416)
36	1	1	1	1						D3413-1	RING (REPLACES D2655)
37	10	10	10	10						D2712	SET SCREW
38	2	2	2	2						D2934	SADDLE SPACER
39	2	2	2	2						D2935	SADDLE SPACER
40									2	D3414-041	GHW LUG (REPLACES D2659)
41									4	AN3C37A	BOLT
42									8	D2652	BUSHING
43									4	MS21043-3	NUT
44									4	NAS1149C0363R	WASHER (OR AN960C10)

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ITEM	QTY -311	QTY -312	QTY -313	QTY -314	QTY -341	QTY -357	QTY -349	QTY -351	QTY -013	PART NUMBER	DESCRIPTION
50							1	1		D4364-041	FWD WEARPLATE ASSY
51							1	1		D4364-043	AFT WEARPLATE ASSY
52							18	18		D3873-1	BUSHING
53							4			D2649	SPACER
54A							9	9		AN3-36A	BOLT
54B							9	9		NAS1149C0332R	WASHER (OR AN960C10L)
54C							9	9		MS21042-3	NUT

NOTES: ⁽¹⁾ DENOTES THAT PART IS INCLUDED WITH D2650-5 OR D4361-041 ASSEMBLY ABOVE

⁽²⁾ CHOICE OF BOLT WILL DEPEND ON CROSSTUBE (SEE INSTALLATION PROCEDURE)

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32-00-00

32.16 206L/L-1/L-3/L-4 High Gear Skidtubes

ITEM	QTY -411	QTY -412	QTY -413	QTY -414	QTY -441	QTY -457	QTY -449	QTY -451	QTY -013	PART NUMBER	DESCRIPTION
	X									D206-642-411	SKIDTUBE INSTALLATION, LH
		X								D206-642-412	SKIDTUBE INSTALLATION, RH
			X							D206-642-413	SKIDTUBE INSTALLATION, LH
				X						D206-642-414	SKIDTUBE INSTALLATION, RH
1	1	1			X					D206-642-441	SKIDTUBE
						X				D206-642-457	WEARSHOE KIT (REPLACES -447)
							X			D206-642-449	RUN-ON LANDING WEARPLATE KIT
			1	1				X		D206-642-451	SKIDTUBE
1	1	1	1	1					X	D206-648-013	GROUND HANDLING KIT
1					1					D2650-7	SKIDTUBE ASSEMBLY
1								1		D4361-043	SKIDTUBE ASSEMBLY
2A					22			10		D2651-1	* PLUG ⁽¹⁾
2B					22			10		D2651-3	* O-RING ⁽¹⁾
3					1			1		D2646	* AFT CAP ⁽¹⁾
4					2			2		MS27039-1-08	* SCREW ⁽¹⁾
5					2			2		NAS1149D0332J	* WASHER ⁽¹⁾ (OR AN960JD10L)
6	1		1							D2932-1	SADDLE, FWD OUT, LH
6		1		1						D2932-2	SADDLE, FWD OUT, RH
7	1		1							D2933-1	SADDLE, FWD IN, LH
7		1		1						D2933-2	SADDLE, FWD IN, RH
8	1		1							D2938-1	SADDLE, AFT OUT, LH
8		1		1						D2938-2	SADDLE, AFT OUT, RH
9	1		1							D2939-1	SADDLE, AFT IN, LH
9		1		1						D2939-2	SADDLE, AFT IN, RH
10	8	8	8	8						AN3-41A	BOLT
11	16	16	16	16						D2652	BUSHING
12A	8	8	8	8						MS21042-3	NUT (OR MS21042L3)
12B	8	8	8	8						NAS1149D0363J	WASHER (OR AN960JD10)
13	4	4	4	4						AN5-11A (OR AN5-12A)	* BOLT ⁽²⁾
14	4	4	4	4						AN5-11A (OR AN5-13A)	* BOLT ⁽²⁾
15	8	8	8	8						NAS1149D0563J	WASHER (OR AN960JD516)
16	12	12	12	12						AN4-6A	BOLT
17	24	24	24	24						NAS1149D0463J	WASHER (OR AN960JD416)
18	12	12	12	12						MS21042-4	NUT (OR MS21042L4)
20A					6	6				D3537-1	WEARPAD (REPLACES D2648-3)
21A					1	1				D3537-3	WEARPAD (REPLACES D3429-1)
22A					1	1				D4956-15	WEARSHOE (REPLACES D3535-15 + D3536-15)
23A					1	1				D4956-23	WEARSHOE (REPLACES D3535-23 + D3536-23)
24A					1	1				D4956-37	WEARSHOE (REPLACES D3535-37 + D3536-37)
26A					60	60				MS27039C1-08	SCREW
26B					60	60				NAS1149D0332J	WASHER (OR AN960JD10L)
26C					60					ALS7-1032-130	* INSERT ⁽¹⁾ (or AKS4-1032-130, ALS4-1032-130, AELS-1032-130)
30	1	1	1	1						D3407-043	TOW RING ASSEMBLY (REPLACES D2968-043)
32A	1	1	1	1						D3456-1	WASHER
32B	2	2	2	2						D3457-1	WASHER
33	1	1	1	1						MS21043-4	NUT
34	1	1	1	1						AN4C5A	BOLT
35	1	1	1	1						NAS1149C0463R	WASHER (OR AN960C416)
36	1	1	1	1						D3413-1	RING (REPLACES D2655)
37	10	10	10	10						D2712	SET SCREW
38	2	2	2	2						D2934	SADDLE SPACER
39	2	2	2	2						D2935	SADDLE SPACER
40								2		D3414-041	LUG ASSEMBLY (REPLACES D2659)
41								4		AN3C37A	BOLT
42								8		D2652	BUSHING
43								4		MS21043-3	NUT
44								4		NAS1149C0363R	WASHER (OR AN960C10)

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ITEM	QTY -411	QTY -412	QTY -413	QTY -414	QTY -441	QTY -457	QTY -449	QTY -451	QTY -013	PART NUMBER	DESCRIPTION
50							1	1		D4366-041	FWD WEARPLATE ASSY
51							1	1		D4366-043	AFT WEARPLATE ASSY
52							18	18		D3873-1	BUSHING
53							3			D2649	SPACER
54A							10	10		AN3-36A	BOLT
54B							10	10		NAS1149C0332R	WASHER (OR AN960C10L)
54C							10	10		MS21042-3	NUT

NOTES: (1) DENOTES THAT PART IS INCLUDED WITH D2650-7 ASSEMBLY ABOVE
 (2) CHOICE OF BOLT WILL DEPEND ON CROSSTUBE (SEE INSTALLATION PROCEDURE)

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32-00-00

32.17 206L/L-1/L-3/L-4/407 High Gear Float Skidtubes (Tri-Bag Compatible)

ITEM	QTY -511	QTY -512	QTY -515	QTY -516	QTY -541	QTY -557	QTY -549	QTY -551	QTY -013	PART NUMBER	DESCRIPTION
	X									D206-642-511	SKIDTUBE INSTALLATION, LH
		X								D206-642-512	SKIDTUBE INSTALLATION, RH
			X							D206-642-515	SKIDTUBE INSTALLATION, LH
				X						D206-642-516	SKIDTUBE INSTALLATION, RH
	1	1			X					D206-642-541	SKIDTUBE
						X				D206-642-557	WEARSHOE KIT (REPLACES -547 KIT)
							X			D206-642-549	RUN-ON LANDING WEARPLATE KIT
			1	1				X		D206-642-551	SKIDTUBE
	1	1	1	1					X	D206-648-013	GROUND HANDLING KIT
1					1					D3274-041	SKIDTUBE ASSEMBLY
1								1		D4362-041	SKIDTUBE ASSEMBLY
3					1			1		D2646	* AFT CAP ⁽¹⁾
4					2			2		AN3C4A	* BOLT ⁽¹⁾
5A					2			2		NAS1149C0332R	* WASHER ⁽¹⁾ (OR AN960C10L)
5B					2			2		D3672-1	* WASHER (REPLACES NAS1515H3L) ⁽¹⁾
6	1		1							D2932-1	SADDLE, FWD OUT, LH
6		1		1						D2932-2	SADDLE, FWD OUT, RH
7	1		1							D2933-1	SADDLE, FWD IN, LH
7		1		1						D2933-2	SADDLE, FWD IN, RH
8	1		1							D2938-1	SADDLE, AFT OUT, LH
8		1		1						D2938-2	SADDLE, AFT OUT, RH
9	1		1							D2939-1	SADDLE, AFT IN, LH
9		1		1						D2939-2	SADDLE, AFT IN, RH
10	8	8	8	8						AN3C41A	BOLT
11	16	16	16	16						D2652	BUSHING
12A	8	8	8	8						MS21043-3	NUT
12B	16	16	16	16						D3672-7	WASHER (REPLACES NAS1515H5)
13	4	4	4	4						AN5C11A (or AN5C12A)	* BOLT ⁽²⁾
14	4	4	4	4						AN5C11A (or AN5C13A)	* BOLT ⁽²⁾
15A	8	8	8	8						NAS1149C0532R	WASHER (OR AN960C516L)
15B	8	8	8	8						D3672-7	WASHER (REPLACES NAS1515H5L)
16	12	12	12	12						AN4C6A	BOLT
17A	24	24	24	24						D3672-3	WASHER (REPLACES NAS1515H4L)
17B	24	24	24	24						NAS1149C0432R	WASHER (OR AN960C416L)
18	12	12	12	12						MS21043-4	NUT
20A					9	9				D3537-1	* WEARPAD ⁽¹⁾ (REPLACES D2648-3)
21A					1	1				D3537-3	* WEARPAD ⁽¹⁾ (REPLACES D3429-1)
22A					1	1				D4956-15	* WEARSHOE ⁽¹⁾ (REPLACES D3535-15 + D3536-15)
23A					1	1				D4956-23	* WEARSHOE ⁽¹⁾ (REPLACES D3535-23 + D3536-23)
24A					1	1				D4956-39	* WEARSHOE ⁽¹⁾ (REPLACES D3535-39 + D3536-39)
25A					1	1				D4956-35	* WEARSHOE ⁽¹⁾ (REPLACES D3535-35 + D3536-35)
26A			8	8	78	78	8			AN3C4A	* BOLT ⁽¹⁾
26B			8	8	78	78	8			NAS1149C0332R	* WASHER ⁽¹⁾ (OR AN960C10L)
26C			8	8	78		8			ALS7-1032-130	* INSERT ⁽¹⁾ (or AKS4-1032-130, ALS4-1032-130, AELS-1032-130)
30	1	1	1	1						D3407-043	TOW RING
32A	1	1	1	1						D3456-1	WASHER
32B	2	2	2	2						D3457-1	WASHER
33	1	1	1	1						MS21043-4	NUT
34			1	1	1					AN4C5A	BOLT
35			1	1	1					NAS1149C0463R	WASHER (OR AN960C416)
36			1	1	1					D3413-1	RING
37	10	10	10	10						D2712	SET SCREW
38	2	2	2	2						D2934	SADDLE SPACER
39	2	2	2	2						D2935	SADDLE SPACER

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ITEM	QTY -511	QTY -512	QTY -515	QTY -516	QTY -541	QTY -557	QTY -549	QTY -551	QTY -013	PART NUMBER	DESCRIPTION
40									2	D3414-041	LUG ASSEMBLY (GHW)
41									4	AN3C37A	BOLT
42									8	D2652	BUSHING
43									4	MS21043-3	NUT
44									4	NAS1149C0363R	WASHER (OR AN960C10)
50	9	9	3	3						AN3C36A	BOLT
51	3	3	3	3						AN3C35A	BOLT
52	24	24	12	12						NAS1149C0332R	WASHER (OR AN960C10L)
53	24	24	12	12						D3672-1	WASHER (REPLACES NAS1515H3L)
54	12	12	6	6						MS21043-3	NUT
55	2	2	2	2						D3396-3	SPACER
56A	1	1	1	1						AN5C35A	BOLT
56B	1	1	1	1						AN5C15A	BOLT
60	2	2	2	2						AN5C32A	BOLT
61	2	2	2	2						AN5C34A	BOLT
62	4	4	4	4						MS21043-5	NUT
80							1	1		D4368-041	FWD WEARPLATE ASSY
81							1	1		D4368-043	AFT WEARPLATE ASSY
82A							1	1		D4383-1	WEARPAD
82B							1	1		D4383-3	WEARPAD
83							20	20		D3873-3	BUSHING
84								24		D3411-3	WASHER
85							2			D3275-1	SPACER
86A							6	6		AN3C40A	BOLT
86B							2	2		AN3C37A	BOLT
86C							2	2		AN3C36A	BOLT
87							10	10		MS21043-3	NUT

NOTES: (1) DENOTES THAT PART IS INCLUDED WITH D3274-041 OR D4362-041 ASSEMBLY ABOVE

(2) CHOICE OF BOLT WILL DEPEND ON CROSSTUBE (SEE INSTALLATION PROCEDURE)

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32-00-00

32.18 206L/L-1/L-3/L-4/407 High Gear Float Skidtubes (OEM/PMA Bag Compatible)

Item	Qty -513	Qty -514	Qty -517	Qty -518	Qty -545	Qty -557	Qty -549	Qty -555	Qty -013	Part Number	Description
	X									D206-642-513	SKIDTUBE INSTALLATION, LH
		X								D206-642-514	SKIDTUBE INSTALLATION, RH
			X							D206-642-517	SKIDTUBE INSTALLATION, LH
				X						D206-642-518	SKIDTUBE INSTALLATION, RH
1	1	1			X					D206-642-545	SKIDTUBE
						X				D206-642-557	WEARSHOE KIT (REPLACES -543 KIT)
							X			D206-642-549	RUN-ON LANDING WEARPLATE KIT
			1	1				X		D206-642-555	SKIDTUBE
1	1	1	1	1					X	D206-648-013	GROUND HANDLING KIT
1					1					D3274-043	SKIDTUBE ASSEMBLY
1								1		D4362-043	SKIDTUBE ASSEMBLY
3					1			1		D2646	* AFT CAP ⁽¹⁾
4					2			2		AN3C4A	* BOLT ⁽¹⁾
5A					2			2		NAS1149C0332R	* WASHER ⁽¹⁾ (OR AN960C10L)
5B					2			2		D3672-1	* WASHER (REPLACES NAS1515H3L) ⁽¹⁾
6	1		1							D2932-1	SADDLE, FWD OUT, LH
6		1		1						D2932-2	SADDLE, FWD OUT, RH
7	1		1							D2933-1	SADDLE, FWD IN, LH
7		1		1						D2933-2	SADDLE, FWD IN, RH
8	1		1							D2938-1	SADDLE, AFT OUT, LH
8		1		1						D2938-2	SADDLE, AFT OUT, RH
9	1		1							D2939-1	SADDLE, AFT IN, LH
9		1		1						D2939-2	SADDLE, AFT IN, RH
10	8	8	8	8						AN3C41A	BOLT
11	16	16	16	16						D2652	BUSHING
12A	8	8	8	8						MS21043-3	NUT
12B	16	16	16	16						D3672-7	WASHER (REPLACES NAS1515H5)
13	4	4	4	4						AN5C11A (or AN5C12A)	* BOLT ⁽²⁾
14	4	4	4	4						AN5C11A (or AN5C12A)	* BOLT ⁽²⁾
15A	8	8	8	8						NAS1149C0532R	WASHER (OR AN960C516L)
15B	8	8	8	8						D3672-7	WASHER (REPLACES NAS1515H5L)
16	12	12	12	12						AN4C6A	BOLT
17A	24	24	24	24						D3672-3	WASHER (REPLACES NAS1515H4L)
17B	24	24	24	24						NAS1149C0432R	WASHER (OR AN960C416L)
18	12	12	12	12						MS21043-4	NUT
20A					9	9				D3537-1	* WEARPAD ⁽¹⁾ (REPLACES D2648-3)
21A					1	1				D3537-3	* WEARPAD ⁽¹⁾ (REPLACES D3429-1)
22A					1	1				D4956-15	* WEARSHOE ⁽¹⁾ (REPLACES D3535-15 + D3536-15)
23A					1	1				D4956-23	* WEARSHOE ⁽¹⁾ (REPLACES D3535-23 + D3536-23)
24A					1	1				D4956-39	* WEARSHOE ⁽¹⁾ (REPLACES D3535-39 + D3536-39)
25A					1	1				D4956-35	* WEARSHOE ⁽¹⁾ (REPLACES D3535-35 + D3536-35)
26A			8	8	78	78	8			AN3C4A	* BOLT ⁽¹⁾
26B			8	8	78	78	8			NAS1149C0332R	* WASHER ⁽¹⁾ (OR AN960C10L)
26C			8	8	78		8			ALS7-1032-130	* INSERT ⁽¹⁾ (or AKS4-1032-130, ALS4-1032-130, AELS-1032-130)
30	1	1	1	1						D3407-043	TOW RING
32A	1	1	1	1						D3456-1	WASHER
32B	2	2	2	2						D3457-1	WASHER
33	1	1	1	1						MS21043-4	NUT
34			1	1	1					AN4C5A	BOLT
35			1	1	1					NAS1149C0463R	WASHER (OR AN960C416)
36			1	1	1					D3413-1	RING
37	10	10	10	10						D2712	SET SCREW
38	2	2	2	2						D2934	SADDLE SPACER
39	2	2	2	2						D2935	SADDLE SPACER

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Item	Qty -513	Qty -514	Qty -517	Qty -518	Qty -545	Qty -557	Qty -549	Qty -555	Qty -013	Part Number	Description
40									2	D3414-041	LUG ASSEMBLY (GHW)
41									4	AN3C37A	BOLT
42									8	D2652	BUSHING
43									4	MS21043-3	NUT
44									4	NAS1149C0363R	WASHER (OR AN960C10)
50	34	34	28	28						AN3C37A	BOLT (FOR INSTALLATION OF OEM FLOATS)
50	9	9	3	3						AN3C36A	BOLT (FOR INSTALLATION OF TRIBAG FLOATS)
51	3	3	3	3						AN3C35A	BOLT
52	68	68	56	56						NAS1149C0332R	WASHER (OR AN960C10L)
53	68	68	56	56						D3672-1	WASHER (REPLACES NAS1515H3L)
54	34	34	28	28						MS21043-3	NUT
55	2	2	2	2						D3396-3	SPACER
56A	1	1	1	1						AN5C35A	BOLT
56B	1	1	1	1						AN5C15A	BOLT
60	2	2	2	2						AN5C32A	BOLT
61	2	2	2	2						AN5C34A	BOLT
62	4	4	4	4						MS21043-5	NUT
70	2	2	2	2						D3452-1	BRACKET
71	1	1	1	1						D3452-3	BRACKET
72	4	4	4	4						MS21919WDG-28	CLAMP
73	4	4	4	4						AN3C7A	BOLT
74	4	4	4	4						NAS1149C0332R	WASHER (OR AN960C10L)
75	4	4	4	4						D3672-1	WASHER (REPLACES NAS1515H3L)
76	4	4	4	4						MS21043-3	NUT
80								1	1	D4368-041	FWD WEARPLATE ASSY
81								1	1	D4368-043	AFT WEARPLATE ASSY
82A								1	1	D4383-1	WEARPAD
82B								1	1	D4383-3	WEARPAD
83								20	20	D3873-3	BUSHING
84									24	D3411-3	WASHER
85								2		D3275-1	SPACER
86A								6	6	AN3C40A	BOLT
86B								2	2	AN3C37A	BOLT
86C								2	2	AN3C36A	BOLT
86D			6	6						AN3C46A	BOLT
87								10	10	MS21043-3	NUT
88			12	12						D3873-5	BUSHING
89			12	12						D3873-7	SPACER

NOTES: (1) DENOTES THAT PART IS INCLUDED WITH D3274-043 or D4362-043 ASSEMBLY ABOVE

(2) CHOICE OF BOLT WILL DEPEND ON CROSSTUBE (SEE INSTALLATION PROCEDURE)

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32-00-00

32.19 206A/B High Gear Float Skidtubes (Tri-Bag Compatible)

ITEM	QTY -611	QTY -612	QTY -613	QTY -614	QTY -641	QTY -655	QTY -649	PART NUMBER	DESCRIPTION
	X							D206-642-611	SKIDTUBE INSTALLATION, LH
		X						D206-642-612	SKIDTUBE INSTALLATION, RH
			X					D206-642-613	SKIDTUBE INSTALLATION, LH, THRU BOLT
				X				D206-642-614	SKIDTUBE INSTALLATION, RH, THRU BOLT
	1	1	1	1	X			D206-642-641	SKIDTUBE
						X		D206-642-655	WEARSHOE KIT (REPLACES -645 KIT)
							X	D206-642-649	RUN-ON LANDING WEARPLATE KIT
	1	1	1	1				D206-651-041	* 206 GHW ADAPTER ⁽³⁾
1					1			D3288-041	SKIDTUBE ASSEMBLY
3					1			D2646	* AFT CAP ⁽¹⁾
4					2			AN3C4A	* BOLT ⁽¹⁾
5A					2			NAS1149C0332R	* WASHER ⁽¹⁾ (OR AN960C10L)
5B					2			D3672-1	* WASHER (REPLACES NAS1515H3L) ⁽¹⁾
6	1		1					D2665-1	SADDLE, FWD OUT, LH
6		1		1				D2665-2	SADDLE, FWD OUT, RH
7	1		1					D2666-1	SADDLE, FWD IN, LH
7		1		1				D2666-2	SADDLE, FWD IN, RH
8	1							D2665-1	SADDLE, AFT OUT, LH
8		1						D2665-2	SADDLE, AFT OUT, RH
8			1					D2667-1	SADDLE, AFT OUT, LH
8				1				D2667-2	SADDLE, AFT OUT RH
9	1							D2666-1	SADDLE, AFT IN, LH
9		1						D2666-2	SADDLE, AFT IN, RH
9			1					D2668-1	SADDLE, AFT IN, LH
9				1				D2668-2	SADDLE, AFT IN, RH
10	8	8	8	8				AN3C41A	BOLT
11	16	16	16	16				D2652	BUSHING
12A	8	8	8	8				MS21043-3	NUT
12B	16	16	16	16				D3672-7	WASHER (REPLACES NAS1515H5)
13	4	4	4	4				AN5C7A	BOLT
14	4	4	4	4				AN5C11A	BOLT
14A	4	4	4	4				AN5C32A	* BOLT ⁽²⁾
14B	4	4	4	4				MS21043-5	* NUT ⁽²⁾
15A	8	8	8	8				NAS1149C0532R	WASHER (OR AN960C516L)
15B	8	8	8	8				D3672-7	WASHER (REPLACES NAS1515H5L)
16	12	12	12	12				AN4C6A	BOLT
17A	24	24	24	24				NAS1149C0432R	WASHER (OR AN960C416L)
17B	24	24	24	24				D3672-3	WASHER (REPLACES NAS1515H4L)
18	12	12	12	12				MS21043-4	NUT
20A					7	7		D3537-1	* WEARPAD ⁽¹⁾ (REPLACES D2648-3)
21A					1	1		D3537-3	* WEARPAD ⁽¹⁾ (REPLACES D3429-1)
22A					1	1		D4956-15	* WEARSHOE ⁽¹⁾ (REPLACES D3535-15 + D3536-15)
23A					1	1		D4956-21	* WEARSHOE ⁽¹⁾ (REPLACES D3535-21 + D3536-21)
24A					1	1		D4956-41	* WEARSHOE ⁽¹⁾ (REPLACES D3535-41 + D3536-41)
25A					1	1		D4956-35	* WEARSHOE ⁽¹⁾ (REPLACES D3535-35 + D3536-35)
26A					64	64	8	AN3C4A	* BOLT ⁽¹⁾
26B					64	64	8	NAS1149C0332R	* WASHER ⁽¹⁾ (OR AN960C10L)
26C					64		8	ALS7-1032-130	* INSERT ⁽¹⁾ (or AKS4-1032-130, ALS4-1032-130, AELS-1032-130)
28	2	2	2	2				AN6C44A	BOLT
29A	2	2	2	2				MS21043-6	NUT
29B	4	4	4	4				NAS1149C0663R	WASHER (OR AN960C616)
34					1			AN4C5A	BOLT
35					1			NAS1149C0463R	WASHER (OR AN960C416)
36					1			D3413-1	RING
37	10	10	5	5				D2712	SET SCREW
38	2	2	2	2				D2884	SADDLE SPACER
39	2	2	2	2				D2885	SADDLE SPACER

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ITEM	QTY -611	QTY -612	QTY -613	QTY -614	QTY -641	QTY -655	QTY -649	PART NUMBER	DESCRIPTION
50	6	6	6	6				AN3C36A	BOLT
51	6	6	6	6				MS21250-03004	HIGH STRENGTH STEEL BOLT
52	18	18	18	18				NAS1149C0332R	WASHER (OR AN960C10L)
53	18	18	18	18				D3672-1	WASHER (REPLACES NAS1515H3L)
54	9	9	9	9				MS21043-3	NUT
55	2	2	2	2				D3396-3	SPACER
56A	1	1	1	1				AN5C35A	BOLT
56B	1	1	1	1				AN5C13A	BOLT
57	6	6	6	6				NAS1149D0363J	WASHER (OR AN960JD10)
60	12	12	12	12				D3683-1	* INSERT ⁽¹⁾
61	12	12	12	12				NAS1149C0332R	* WASHER ⁽¹⁾ (OR AN960C10L)
62	12	12	12	12				MS27039C1-05	* SCREW ⁽¹⁾ (or AN3C3A BOLT)
80							1	D4370-041	FWD WEARPLATE ASSY
81							1	D4370-043	AFT WEARPLATE ASSY
82A							1	D4383-1	WEARPAD
82B							1	D4383-3	WEARPAD
83							16	D3873-3	BUSHING
85							6	D3275-1	SPACER
86A							2	AN3-37A	BOLT
86C							6	AN3-36A	BOLT
87							8	MS21043-3	NUT

NOTES: ⁽¹⁾ DENOTES THAT PART IS INCLUDED WITH D3288-041 ASSEMBLY ABOVE

⁽²⁾ MAY BE REQUIRED ON -613/-614 INSTALLATIONS OR DART CROSSTUBES

⁽³⁾ NOT INSTALLED AS PART OF SKIDTUBE. USED TO MODIFY OEM GROUND HANDLING WHEELS

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