Page #	DWG/PART#	REV.	Description	Revision	Comments
2	472-0000 Sht. 1 of 3	G	Mechanical Assembly, Thor-50M	REVISED PARTS 472-7000-1 & 472-7000-1 - REMOVED MOLDED FOOT  AND ADDED MOLDED SHOE; SHEET 3 OF 3 - BALLOON #6 WAS #7; QTY.  OF ITEM 14 - SA572-S129 AND ITEM 15 - SA572-S113 WAS 1; ADDED  PART #SA572-S126 - Ø1.0 ACHILLES LOAD CELL AND PART #SA572-S114 - ROTARY POTENTIOMETER	Added Molded Shoe; ACHILLES LOAD CELL, SA572-S126 and ROTARY POTENTIOMETER, SA572-S114, where missing from drawing
3	472-0000 Sht. 2 of 3	G	Ground Strap Locations		
4	472-0000 Sht. 3 of 3	G	Sensor/Load Cell Locations		(Sheet 3 of 3)
22	472-1200	D	Accelerometer Mounting Plate Assembly, Head	REMOVED ANGULAR RATE SENSOR SA572-S55 FROM ARS LIST	ARS (800 K) not used
30	472-2000	D	Mechanical Assembly, Neck	Removed Note 2; Revised Part #472-2200 - MOUNTING PLATFORM ASSEMBLY, NECK	Note 2 states, "FOUR M6 X 1 X 16 SCHS WITH NYLON PELLET ARE USED TO FASTEN THE LOWER NECK LOAD CELL TO THE UPPER THORACIC SPINE NECK PITCH CHANGE MECHANISM", these screws are called out on drawing 472-000 Sht. 1 of 3; On 472-2231 - FLEXION-EXTENSION STOP PLATE, NECK, subassembly of 472-2200, moved the "F" and "R" stamps to the top of the plate so they will be visible when installed
31	472-2100	В	Cable Assembly, Neck	ITEM #1 PART #472-2110 DESCRIPTION WAS FRONT STOP ASSEMBLY, NECK; ITEM #13 PART #472-2107 DESCRIPTION WAS CENTER CABLE WASHER, NECK; ADDED ITEM #17 AND NOTE #2	Change center cable washer to Flanged Bushing to help alleviate cable noise
32	472-2110	D	Assembly, Neck	TITLE WAS FRONT STOP ASSEMBLY, NECK	Title change to better suit part
45	472-2140	С	Center Cable Assembly, Neck	DIMENSION (13) WAS 13; REMOVED 10 DIMENSION; ADDED 316 STAINLESS TO MATERIAL; IN NOTE 1 3400 N WAS 1000 LBS.	Ball Swage dimensions where made Reference so the industry standard tolerance could apply; Added 316 Stainless Steel to material because there was no material called out; Changed Tensile load from 1000 LBS. to 2000 N note #1 because 1000 LBS is the threaded swage failure load and 2000 N covers the working load seen in testing.
46	472-2130	D	Rear Cable Assembly, Neck	DIMENSION (13) WAS 13; IN NOTE 1 3400 N WAS 1700 LBS.; ADDED 316 STAINLEASS STEEL TO MATERIAL	Ball Swage dimensions where made Reference so the industry standard tolerance could apply; Added 316 Stainless Steel to material because there was no material called out; Changed Tensile load from 1700 LBS. to 3400 N note #1 because 1700 LBS is beyond the threaded swage failure load and 1700 N covers the working load seen in testing.
47	472-2150	D	Front Cable Assembly, Neck	DIMENSION 344.3 WAS 331.3, (13) WAS 13; REMOVED 10 DIMENSION IN DETAIL Y; ADDED THREAD NOTE IN DETAIL Z; ADDED 316 STAINLESS TO MATERIAL; IN NOTE1 3400 N WAS 1700LBS.	Lengthened cable for better fit in the neck, the shorter cable caused the slight compression of the front neck spring when installed; Ball Swage dimensions where made Reference so the industry standard tolerance could apply; Added 316 Stainless Steel to material because there was no material called out; Changed Tensile load from 1700 LBS. to 3400 N note #1 because 1700 LBS is beyond the threaded swage failure load and 1700 N covers the working load seen in testing.
54	472-2107		Center Cable Lower Bushing 1, Neck	N/A	NEW DRAWING

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56	472-2108		Center Cable Lower Bushing 2, Neck	N/A	NEW DRAWING
63	472-2200	С	Mounting Platform Assembly, Neck	REVISED PART #472-2230 - OC STOP ASSEMBLY	On 472-2231 - FLEXION-EXTENSION STOP PLATE, NECK, subassembly of 472-2230, moved the "F" and "R" stamps to the top of the plate so they will be visible when installed
66	472-2230	В	OC Stop Assembly	REVISED PART #472-2231	On 472-2231 - FLEXION-EXTENSION STOP PLATE, NECK moved the "F" and "R" stamps to the top of the plate so they will be visible when installed
67	472-2231	В	Flexion-Extension Stop Plate, Neck	MOVED "F" AND "R" STAMPS TO THE TOP OF THE PLATE	Moved stamps so they would be visible when installed
94	472-3600	E	Spine Mechanical Assembly	REMOVED PART #50011090 - SCREW, FHCS M8-1.25 x 12; PART #5001092V - SCREW, FHCS M8-1.25 x 14 WAS #5001091 - SCREW, FHCS M8-1.25 x 16, RENUMBERED PARTS LIST	Used the same length screw, 14mm LG., to attach the LOWER THORACIC SPINE ASSEMBLY (472-3650) to the LUMBAR SPINE PITCH CHANGER ASSEMBLY (472-3670). Previously use two different screw lengths, 12mm LG. & 16mm LG.
103	472-3621	Е	Upper Thoracic Spine Side Plate, Right	ADDED HOLE NOTE 2X M4x0.7 6H THRU	Holes where not labeled
104	472-3622	Е	Upper Thoracic Spine Side Plate, Left	ADDED HOLE NOTE 2X M4x0.7 6H THRU	Holes where not labeled
147	SA572-S44	В	Tilt Sensor, Dual Axis	ADDED NONLINEARITY TO TILT SENSOR SPECIFICATIONS AND REFERANCE PLANE TO FRONT VIEW	Added more specifications to better control tilt sensor
237	472-3400	D	Thorax Bib Assembly	ITEM 7 - 5000103 - SCREW, BHCS M4-0.7 X 8 WAS 5001163 - M4 X 0.7 x 5 LG. BHCS	
312	472-4761	В	Rear Attachment Plate	DIMENSION 31.8 WAS 31.75	To match hole pattern in PELVIS/LUMBAR MOUNTING BLOCK ASSEMBLY (472-3760), so telebanking would not cause interference
317	472-4763-1	В	Lower Abdomen Top/Side/Rear Pattern	COMPLETE REDESIGN	
318	472-4763-2	В	Lower Abdomen Bag Top Pocket Pattern	COMPLETE REDESIGN	
319	472-4763-3	В	Lower Abdomen Bag Top Pocket Pattern	DIEMENSION (367) WAS (362), 234 WAS 235, 7 WAS 13 TYP. FOR ALL TABS, 50 WAS 53, 57 WAS 51, 33 WAS 25, 28 WAS 24, 41 WAS 39, 4 WAS 6, 25 WAS 27, 111 WAS105, 132 WAS 130, & 144 WAS 143; ADDED DIMENSIONS 240 AND 58	Bag redesigned to better fit abdomen foams
320	472-4763-4	С	Lower Abdomen Front Pattern	COMPLETE REDESIGN; DIMENSION 248 WAS 254, 57 WAS 61, 7 WAS 13 TYP. FOR ALL TABS, 79 WAS 84, 157 WAS 161, (19) WAS (14), 71 WAS 66, 51 WAS 44, 27 WAS 25, 112° WAS 26°, & 105° WAS 93°; ADDED DIMENSIONS 271, 100, 70, 7, 52, & 10	and make the manufacturing more repeatable
322	472-4763-6	В	Lower Abdomen Stiffening Cloth	DIMENSION 237 WAS 251, 52 WAS 59, (39) WAS (28), (35°) WAS (36°), 127 WAS 125, 55 WAS 63, 3 WAS 2, 39 WAS 28, & 102 WAS 100	
323	472-4763-7	В	Lower Abdomen Outside Velcro Patch	DIMENSION 237 WAS 251, 52 WAS 59,(39) WAS (28), (81) WAS (94), 127 WAS 125, 55 WAS 63, 3 WAS 2, 39 WAS 28, & 102 WAS 100	
326	472-4000	E	Pelvis Assembly	ADDED ITEMS, 41 - 9002655 - WIRE CLAMP, NYLON 1/8 DIA, 42 - 5001111V - WASHER, SPRING LOCK M3, 43 - 9009248V - NUT, HEX M3-0.5	Added for strain relief of pelvis accelerometer cables
333	472-4380-2	D	Right Iliac Assembly	REVISED ITEM #1 PART #472-4381 AND ADDED DETAIL A	New H-PT. TOOL BEAR to accommodate the new H-Point Tool design
334	472-4381	В	Pelvis H-Pt. Tool Bearing	COMPLETE REDESIGN, CHANGED FROM RECTANGULAR THRU HOLE TO TAPERED THRU HOLE	Revised thru hole to accommodate new H- Point Tool design

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336	472-4380-1	D	Left Iliac Assembly	REVISED ITEM #2 PART #472-4381 AND ADDED DETAIL A	New H-PT. TOOL BEAR to accommodate the new H-Point Tool design
375	472-5300	С	Knee Cap Assy., Left	CORRECTED SIDE VIEWS	Corrected orientation of lower side views to match upper isometric views
412	472-5700	С	Knee Cap Assy., Right	CORRECTED SIDE VIEWS	Corrected orientation of lower side views to match upper isometric views
451	472-7000-1	С	Lower Leg Assembly Complete - Left	472-7800-1 MOLDED SHOE ASS'Y LEFT WAS 472-7700-1 FOOT ASS'Y LEFT	
475	472-7500-1	F	Ankle Assembly, Left	DESCRIPTION OF ITEM 27 WAS STOP ASSEMBLY, REAR DORSI	Changed description to follow standard Naming convention
503	472-7527	А	Stop Assembly, Plantar	DRAWING TITLE WAS STOP ASSEMBLY, REAR DORSI	Changed description to follow standard Naming convention
-	472-7700-1	В	Foot Ass'y., Left	N/A	DRAWING REMOVED, Not Used In Molded Shoe Design
-	472-7712	В	Mounting Post, Achilles	N/A	DRAWING REMOVED, Not Used In Molded Shoe Design
-	472-7714	В	Bracket, Mounting-Heel/Achilles	N/A	DRAWING REMOVED, Not Used In Molded Shoe Design
-	472-7716	Α	Sole Plate Ass'y., Left	N/A	DRAWING REMOVED, New Design Used for Molded Shoe
-	472-7717	E	Padding, Heel	N/A	DRAWING REMOVED, Not Used In Molded Shoe Design
-	472-7725-1	E	Foot Flesh, Left	N/A	DRAWING REMOVED, Not Used In Molded Shoe Design
518	472-7800-1		Molded Shoe Ass'y Left	N/A	NEW DRAWING
519	472-7802-1		Shoe Upper - Left	N/A	NEW DRAWING
520	472-7750		Foot Bone Assembly	N/A	NEW DRAWING
521	472-7743		Mounting Brkt. Heel/Achilles	N/A	NEW DRAWING
522	472-7742		Foot Bone	N/A	NEW DRAWING
523	472-7752		Insert - Achilles Tension	N/A	NEW DRAWING
524	472-7804-1		Heel Pad Molded - Left	N/A	NEW DRAWING
525	472-7803-1		Ball of Foot Pad Molded - Left	N/A	NEW DRAWING
526	472-7801-1		Shoe Sole - Left	N/A	NEW DRAWING
527	472-7744		Mounting Post, Lower Achilles	N/A	NEW DRAWING
528	472-7710	В	Plate Mounting, Tri Pack Accel.	2X Ø3.70 +0.13 -0.03 THRU M2.5x0.45 TAP $\sqrt{8}$ MIN. WAS (2X) M2.5x0.45 $\sqrt{8}$ THRU, & 3.9 WAS 4.4; 2X Ø3.70 $\sqrt{8}$ THRU Ø7.0 0.2X 90° WAS (2X) Ø3.5 THRU $\sqrt{8}$ Ø6.4 X 90.0°; REMOVED 9.5, 4.2, 10.54, 21.2, & 14.9; ADDED (17.5) TYP., 45°, 9, 7.54, & 15.1; CLEAR ANODIZED WAS BLUE ANODIZED	New Design for Molded Shoe
529	472-7110	В	Knee Bumper, Molded	ADDED PARTS LIST	
533	472-7000-2	С	Lower Leg Assembly Complete - Right	472-7800-2 MOLDED SHOE ASS'Y RIGHT WAS 472-7700-2 FOOT ASS'Y RIGHT	Molded Foot Replaced with Molded Shoe
534	472-7500-2	F	Ankle Assembly, Right	DESCRIPTION OF ITEM 27 WAS STOP ASSEMBLY, REAR DORSI	Changed description to follow standard naming convention
-	472-7700-2	В	Foot Assembly, Right	N/A	DRAWING REMOVED, Not Used In Molded Shoe Design
-	472-7718	Α	Sole Plate Ass'y., Right	N/A	DRAWING REMOVED, New Design Used for Molded Shoe

Page #	DWG/PART#	REV.	Description	Revision	Comments
_	472-7725	Ì	Foot Flesh, Right	N/A	DRAWING REMOVED, Not Used In Molded
			, ,		Shoe Design
535	472-7800-2		Molded Shoe Ass'y Right	N/A	NEW DRAWING
536	472-7802-2		Shoe Upper - Right	N/A	NEW DRAWING
537	472-7803-2		Ball of Foot Pad Molded - Right	N/A	NEW DRAWING
538	472-7804-2		Heel Pad Molded - Right	N/A	NEW DRAWING
539	472-7801-2		Shoe Sole - Right	N/A	NEW DRAWING
542	472-3910	D	Front Panel Assembly, Jacket	REVISED 472-3911, 472-393922, & 472-3912;	Revised to match existing Jackets and to
				DIMENSION 295 WAS 305	lengthen Crotch Strap for better fit
543	472-3911	С	Front Inside Panel Pattern (Neoprene)	REVISED SIDE SLOTS	Enlarged side slots to allow for more shoulder
					movement
544	472-3927	В	Front Interior Shoulder Patch	DIMENSION 137 WAS 153, 110 WAS 126, 11° WAS 10°, AND 101 WAS 0°	Revised to match existing Jackets
546	472-3922	В	Crotch Strap Assembly, Jacket	MOVED VELCRO TO OPPOSITE END AND LENGTHED STRAP; BLACK BIAS	Revised to match existing Jackets and to
				TAPE WAS RED BIAS TAPE IN NOTE 3; REMOVED	lengthen Crotch Strap for better fit
				<sup>®</sup> NEOPRENE IS TO BE STRETCHED TO 711mm DURING SEWING <sup>®</sup> FROM	
				NOTE 3; (CORDURA) WAS (NEOPRENE) IN NOTE 1;	
				INSIDE CORDURA WAS NEOPRENE IN NOTE 2; DIM. 864mm WAS 711mm;	
				QTY. OF ITEM 2 PART #472-3924 WAS 1.	
547	472-3923	С	Inner Crotch Strap Pattern, Jacket	DIMENSION 864 WAS 762 AND 210 WAS 108; REMOVED "WITH 2 SIDES	Revised to match existing Jackets and to
				OF NYLON (N-2-S) COLORS BLACK AND RED" FROM NOTE 1	lengthen Crotch Strap for better fit
548	472-3924	В	Outer Crotch Strap Pattern, Jacket	DIMENSION 864 WAS 762 AND 210 WAS 108	Revised to match existing Jackets and to
		1			lengthen Crotch Strap for better fit
551	472-3915-1	В	Upper Left Foam Pocket	DIMENSION 48° WAS 46°	Revised to match existing Jackets
552	472-3915-2	В	Upper Right Foam Pocket	DIMENSION 48° WAS 46°	Revised to match existing Jackets
553	472-3913	В	Stiffener Pocket, Jacket	NOTE: SEW 76mm x 16mm x BLACK HOOK VELCRO WAS SEW 76mm x 16mm BLACK LOOP VELCRO, DIM. 134 WAS 133	Revised to match existing Jackets
556	472-3912	В	Front Outside Panel Pattern (Cordura)	REVISED SIDE SLOTS	Enlarged side slots to allow for more shoulder movement
561	472-3952	С	Inside Rear Panel Pattern	REMOVED @WITH 2 SIDES OF NYLON (N-2-S). COLORS BLACK AND RED®	Revised to match existing Jackets
301	472-3332		mside iteal rattern	FROM MATERIAL NOTE; REMOVED NOTE 4 AND RENUMBERED.	nevised to match existing Jackets
600	SA572-S126	_	Ø1.0 Achilles Load Cell	N/A	NEW DRAWING
-	SA572-S55	В	Angular Rate Sensor - 1500	N/A	DRAWING REMOVED FROM PACKAGE
601	SA572-S56	С	Angular Rate Sensor - 8K	MASS WAS 3g; BANDWITH WAS 0-300 Hz OR 0-600 Hz (DC RESPONSE);	Update SPECIFICATIONS and added
				CURRENT WAS 6mA NOMIN/AL; NOISE WAS 0.15% (RMS FULL SCALE)	PERFOMANCE specs.
				ADDED PERFORMANCE SPECIFICATIONS	
602	SA572-S57	С	Angular Rate Sensor - 12K		Update SPECIFICATIONS and added
			_	MASS WAS 3g; BANDWITH WAS 0-16500 Hz (DC RESPONSE); CURRENT WAS	PERFOMANCE specs.
				6Ma NOMIN/AL; ADDED PERFORMANCE SPECIFICATIONS	·
603	SA572-S58	С	Angular Rate Sensor - 18K	MASS WAS 3g; BANDWITH WAS 0-300 Hz OR 0-2000 Hz (DC RESPONSE);	Update SPECIFICATIONS and added
				NOISE WAS <1.5% DEG/SEC vHz; CURRENT WAS 6mA NOMIN/AL; ADDED	PERFOMANCE specs.
				PERFORMANCE SPECIFICATONS	
611	472-8100	С	Storage Bracket Assembly	TITLE WAS LIFTING BRACKET ASSEMBLY; ITEM 1 DESCRIPTION WAS	Description change
				LIFTING BRACKET WELDMENT	
612	472-8101	В	Storage Bracket Weldment	TITLE WAS LIFTING BRACKET WELDMENT	Description change
629	DL472-1000	В	Neck Twist Fixture	REVISED ITEM 8 - DL472-1160 – NECK TWIST FIXTURE PENDULUM ROD	Increased pendulum weight
				ASS'Y.; ITEM 11 DESCRIPTION WAS SCREW, SHCS M5-08 x 25; ITEM 15	
				PART # SA572-S56 WAS SA572-S55	
634	DL472-1120	В	Neck Twist Fixture End Plate Assembly	REVISED ITEM #1 - DL472-1121 - NECK TWIST FIXTURE END PLATE, RIGHT	Increased hole size for better fit of
					Potentiometer

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635	DL472-1121	В	Neck Twist Fixture End Plate Right	DIM. Ø11.5 THRU WAS Ø9.5 THRU	Increased hole size for better fit of
					Potentiometer
637	DL472-1160	В	Neck Twist Fixture Pendulum Rod Ass'y.	REVISED ITEM 3 - DL472-1163 – NECK TWIST FIXTURE PENDULUM	Increased pendulum weight
				WEIGHT	
640	DL472-1163	В	Neck Twist Fixture Pendulum Weight	Ø69.9 WAS Ø50.8	Increased pendulum weight
648	DL472-3000	В	Lower Abdomen Probe Face Assembly	REVISED ITEM 3 - 472-3010 - LOWER ABDOMEN PROBE FACE FRONT	Rounded corners of face plate
				PLATE	
651	DL472-3010	В	Lower Abdomen Probe Face Front Plate	ADDED DIMENSION 4X R6	Rounded corners
653	TLX-9000-007	С	Test Fixture - Pendulum Arm	ADDED MATERIAL	
656	DL472-4000	В	Achilles Fixture - Complete	REVISED DL472-4200 LOAD CELL MOUNTING ASSEMBLY	Shortened Pull Cable
661	DL472-4200	Α	Load Cell Mounting Assembly	Revised Part # DL472-4203 PULL WIRE ASSEMBLY	Shortened Pull Cable
670	DL472-4203	Α	Pull Wire Assembly	DIMENSION 108.0 [4.25] WAS 139.7 [5.50]	
	TLX-9000-016		External Positioning Bracket	N/A	DRAWING REMOVED FROM PACKAGE
677	TLX-9000-016M		External Positioning Bracket	N/A	NEW DRAWING
686	DL472-6000		Digital Slide Calibration Fixture	N/A	NEW DRAWING
687	DL472-6010		DSCF - Front IRTACC Mount Block Ass'y.	N/A	NEW DRAWING
688	DL472-6011		DSCF - Front IRTRACC Mount Block	N/A	NEW DRAWING
689	DL472-6012		DSCF - Front IRTRACC Mount Block Ass'y Screw Retainer	N/A	NEW DRAWING
690	DL475-6050		DSCF - Rear IRTRACC Mount Block Ass'y.	N/A	NEW DRAWING
691	DL472-6051		DSCF - Rear IRTRACC Mount Block	N/A	NEW DRAWING
692	DL472-6100		Potentiometer Calibration Fixture Ass'y.	N/A	NEW DRAWING
693	DL472-6121		Potentiometer Hold Down Block	N/A	NEW DRAWING
694	DL472-6122		Potentiometer Clamp Block	N/A	NEW DRAWING
695	TF-472-6000		Thor 3D IRTRACC Set Up Fixture	N/A	NEW DRAWING
696	DL472-4300		Tibia Adaptor	N/A	NEW DRAWING