

THOR-50M Advance Frontal Crash Test Dummy  
(THOR-50M)

PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy	
<b>Cover Page</b>	<b>THOR-50M Advanced Frontal Crash Test Dummy - Cover Page</b>	-	1	-	-	
<b>472-0000</b>	<b>Mechanical Assembly, THOR-M</b>	<b>H</b>	<b>6</b>	<b>1</b>	<b>1</b>	
	<b>Grounding Strap Locations</b>					Sht. 1 of 6
	<b>Sensor/Load Cell Locations</b>					Sht. 2 of 6
	<b>External Dimensions</b>					Sht. 3 of 6
	<b>Parts Grouping for Weight &amp; C.G.</b>					Sht. 4 of 6
	<b>Complex/Irregular Shaped Parts</b>					Sht. 5 of 6
472-2115	Neck C.G. and Part Grouping		1	1	1	
472-3015	Thorax C.G. and Parts Grouping		1	1	1	
472-4715	Lower Abdomen C.G. and Parts Grouping		1	1	1	
472-6515	Lower Arm C.G. and Parts Grouping		1	1	1	
472-5115-1	Upper Leg, Left - C.G. and Parts Grouping		1	1	1	
472-5115-2	Upper Leg, Right C.G. and Parts Grouping		1	1	1	
472-7015-1	Lower Leg, Left - C.G. and Parts Grouping		1	1	1	
472-7015-2	Lower Leg, Right - C.G. and Parts Grouping		1	1	1	
472-7815-1	Molded Shoe, Left - C.G. and Parts Grouping		1	1	1	
472-7815-2	Molded Shoe, Right - C.G. and Parts Grouping		1	1	1	
<b>472-1000</b>	<b>Head Assembly, THOR-50M</b>	<b>F</b>	<b>1</b>	<b>1</b>	<b>1</b>	
472-1100	Skull Assembly	F	1	1	1	
472-1111	Head, Machined	D	1	1	1	
5000724	Keensert, Mini M4-0.7 x 5.25 Lg.	-	-	6	13	
5001108	Keensert, Lightweight M6-1 x 10 Lg.	-	-	4	16	
5000592	Pin, Dowel M3 x 16 Lg.	-	-	2	2	
5000333	Helicoil, M3-0.5 x 6 Lg.	-	-	2	4	
472-1410	Face Plate	D	1	1	1	
5000284	Pin, Dowel M3 x 10 Lg.	-	-	2	10	
472-1417	Face Load Cell, Mock	C	1	5	5	
5001107	Mini Keensert, M3x0.5 x 4.25 Lg.	-	-	2	12	
472-1412-2	Right Eye Load Cell Plate	B	1	4	4	
472-1412-1	Left Eye Load Cell Plate	B	1	1	1	
472-1414-2	Right Cheek Load Cell Plate	B	1	1	1	
472-1414-1	Left Cheek Load Cell Plate	B	1	1	1	
472-1416	Chin Load Cell Plate	B	1	1	1	
472-1411	Chin Guard	C	1	1	1	
5001114	Insert, M4-.7 x 4.7 (Thermoset)	-	-	1	1	
472-1101	Biaxial Accelerometer Assembly, Head	C	1	1	1	
472-1119	Top Bi-axial Accel Mount, Head	B	1	1	1	
* 5001107	Mini Keensert, M3x0.5 x 4.25 Lg.	-	-	4	*	
5000183	Pin, Dowel M6 x 12 mm	-	-	2	6	
472-1115	Head C.G. Part Group for Ballast Weight Design	B	1	1	1	
472-1120	Head Ballast	A	1	1	1	
472-1116	Plug, Head	A	1	1	1	
5000115	Screw, FHCS M20x2.5 x 40	-	-	1	1	
5000025	Screw, FHCS M4X0.7 x 16 Lg.	-	-	10	10	
5000116	Screw, FHCS M3x0.5 x 8	-	-	40	42	
5001117	Screw, FHCS M4x0.7 x 22 Lg.	-	-	2	2	
5001103	Screw, SHCS M3x0.5 x 12 Lg.	-	-	4	16	
472-1401	Confor Foam, Face	B	1	1	1	
472-1200	Accelerometer Mounting Plate Assembly, Head	E	1	1	1	
472-1210	Accelerometer Mounting Plate, Head	A	1	1	1	
5000385	Pin, Dowel M3 x 6 Lg.	-	-	1	4	
* 5001108	Keensert, Lightweight M6-1 x 10 Lg.	-	-	4	*	
472-1212	7 Accelerometer Array Fixture	A	1	1	1	
* 5001108	Keensert, Lightweight M6x1 x 10 Lg.	-	-	4	*	
9000826	Screw, FHCS M6-1 x 16 Lg.	-	-	4	8	

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5000068	Screw, SHCS M1.4x0.3 x 3 Lg.	-	-	6	20
6000000	Screw, Cheese Head M1.4x0.3 x 8	-	-	6	6
472-1110	Head Cap	A	1	1	1
5000081	Screw, SHCS M6x1 x 16 Lg.	-	-	4	32
5001116	Screw, Phillips Nylon M3x0.5 x 6	-	-	2	2
472-1320	Skin Assembly	C	1	1	1
472-1321	Head Skin, Molded	D	1	1	1
472-1324	Head/Neck Skin Zipper	A	1	1	1
472-1310	Cap Skin	B	1	1	1
<b>472-2000</b>	<b>Mechanical Assembly, Neck</b>	<b>E</b>	<b>1</b>	<b>1</b>	<b>1</b>
472-2100	Cable Assembly, Neck	C	1	1	1
472-2110	Assembly, Neck	D	1	1	1
472-2120	Molded Assembly, Neck	A	1	1	1
472-2121	Neck Base	C	1	1	1
5001108	Keensert, Lightweight M6x1 x 10 Lg.	-	-	4	*
472-2122	Neck Plate 1	C	1	1	1
472-2123	Neck Plate 2	C	1	1	1
472-2124	Neck Plate 3	C	1	2	2
472-2125	Top Plate, Neck	C	1	1	1
472-2101	Front Stop, Neck	B	1	1	1
472-2104	Top Plate Cable Guide, Neck	A	1	1	1
* 5000385	Pin, Dowel M3 x 6 Lg.	-	-	2	*
5000680	Pin, Dowel M4 x 6	-	-	1	4
472-2105	Neck Cable Guide	A	1	8	8
472-2106	Cable Guide, Neck	A	1	1	1
472-2102	Center Cable Fixture, Neck	A	1	1	1
472-2103	Cable Cover, Neck	A	1	1	1
472-2140	Center Cable Assembly, Neck	C	1	1	1
472-2130	Rear Cable Assembly, Neck	D	1	1	1
472-2150	Front Cable Assembly, Neck	F	1	1	1
5000469	Screw, FHCS M2x0.4 x 6 Lg.	-	-	2	6
472-2500	Upper Neck Stop Assembly	A	1	1	1
472-2510	Neck Stop 2	A	1	1	1
472-2511	Neck Soft Stop 2	A	1	1	1
472-2520	Lower Neck Stop Assembly	A	1	1	1
472-2512	Neck Stop 1	A	1	1	1
472-2513	Neck Soft Stop 1	A	1	1	1
5001109	Screw, HHCS M5x.8 x 12	-	-	2	2
472-2018	Neck Neoprene Spacer	A	1	1	1
5001113	Washer, Fender M6 SS	-	-	1	1
5000503	Nut, Hex Lock M6x1 SS	-	-	1	1
472-2108	Center Cable Lower Bushing 2, Neck		1	1	1
472-2015	Cable Seat Cover, Neck	A	1	2	2
472-2300	Neck Pulley Bracket Assembly	A	1	1	1
472-2310	Rear Pulley Bracket, Neck	C	1	1	1
472-2311	Rear Cable Pulley Shaft, Neck	A	1	1	2
9002597	Bearing, Needle Roller (3/16 Bore)	-	-	2	4
472-2312	Neck Rear Cable Pulley	A	1	1	2
9002595	Washer, Teflon .187 x .50 x .4 Thk.	-	-	4	8
5000391	Pin, Dowel M3 x 18 Lg. SS	-	-	2	2
5001095	Washer, Flat M3 Plain Zinc	-	-	2	4
5001106	Nut, Hex Lock M3-0.3 SS	-	-	2	4
472-2016	Occipital Condyle Screw	A	1	1	1
472-2200	Mounting Platform Assembly, Neck	C	1	1	1
472-2210	Head/Neck Mounting Platform	C	1	1	1

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472-2202	Occipital Condyle Bushing	A	1	2	2
5000724	Keensert, Mini M4x0.7 x 5.25 Lg.	-	-	6	*
5001107	Keensert, Mini M3x0.5 x 4.25	-	-	4	4
472-2230	OC Stop Assembly	B	1	1	1
472-2231	Flexion-Extension Stop Plate, Neck	B	1	1	1
472-2232	Neck Front OC Stop	A	1	1	1
472-2233	Neck Rear OC Stop	A	1	1	1
472-2400	Head/Neck Pulley Bracket Assembly	A	1	1	1
472-2410	Head/Neck Pulley Bracket, Neck	B	1	1	1
* 9002597	Bearing, Needle Roller (3/16 Bore)	-	-	2	*
* 472-2311	Rear Cable Pulley Shaft, Neck	A	1	1	*
* 472-2312	Neck Rear Cable Pulley	A	1	1	*
* 9002595	Washer, Teflon .187 x .50 x .4 Thk.	-	-	4	*
* 5001106	Nut, Hex Lock M3x0.3 SS	-	-	2	*
* 5001095	Washer, Flat M3 Plain Zinc	-	-	2	*
472-2201	Neck Spring Load Cell Structural Replacement	A	1	2	2
472-2203	Neck Front/Rear Spring Tube	A	1	2	2
472-2220	Front Spring Assembly	D	1	1	1
5000517	Spring, 16 x 8 I.D. x 76	-	-	1	1
472-2221	Neck Spring Bushing	B	1	2	4
472-2222	Neck Front Spring Damping Tube	B	1	1	1
472-2240	Rear Spring Assembly	D	1	1	1
5000516	Spring, 16 x 8 I.D. x 89	-	-	1	1
* 472-2221	Neck Spring Bushing	B	1	2	*
472-2241	Neck Rear Spring Damping Tube	C	1	1	1
472-2204	Front Cable Bushing, Neck	A	1	1	1
9001459	Screw, FHCS M4-0.7 x 10 Lg.	-	-	6	6
SA572-S112	.850" Skull Spring Load Cell (Optional)	A	1	2	2
472-2011	Occipital Condyle Pin, Neck	C	1	1	1
472-2012	Neck Pulley Plate	A	1	1	1
472-2021	Rotary Potentiometer Washer, Neck	A	1	1	1
472-2020	Rotary Potentiometer Clamp, Neck	A	1	2	2
472-2014	Rotary Potentiometer Cover, Neck	B	1	1	1
472-2019	Occipital Condyle Cam, Neck	C	1	1	1
* 5000724	Keensert, Mini M4-0.7 x 5.25 Lg.	-	-	1	*
472-2013	Rotary Potentiometer Housing, Neck	A	1	1	1
5001111	Helicoil, M2x0.4 x 3 Lg.	-	-	4	4
5000333	Helicoil, M3x0.5 x 6 Lg.	-	-	2	*
472-2700	Upper Neck Load Cell Structural Replacement	B	1	1	1
472-2600	Lower Neck Load Cell Structural Replacement	C	1	1	1
472-2610	Top, Lower Neck Load Cell Structural Replacement	C	1	1	1
472-2612	Bottom Plate, Lower Neck Load Cell Structural replacement	B	1	1	1
5000108	Screw, FHCS M6x1 x 18 Lg.	-	-	4	4
5000934	Pin, Dowel M3 x 12 Lg.	-	-	1	1
* 5000469	Screw, FHCS M2x0.4 x 6 Lg.	-	-	4	*
5001110	Washer, Hi-Collar Lock, M6 SS	-	-	8	8
* 5000604	Screw, SHCS M6x1 x 14	-	-	8	*
5000380V	Nut, Hex Jam M5	-	-	4	4
5000007	Screw, BHCS M4x0.7 x 20 Lg.	-	-	2	2
5000674	Screw, BHCS M3x0.5 x 5 Lg.	-	-	2	2
* 5000076	Screw, SHCS M4x0.7 x 6	-	-	1	*
5000082	Screw, SHCS M2x0.4 x 6 Lg.	-	-	4	4
5000410	Screw, BHCS M3x0.5 x 8 Lg.	-	-	3	3
5000749	Screw BHCS M3x0.5 x 30 Lg. SS	-	-	2	2
5001112	Screw, SSCNP M3x0.5 x 3 Lg.	-	-	1	1

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PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
472-2002	Lower Neck Load Cell Bumper	C	1	1	1
472-2001	Lower Neck Load Cell Bumper Cover	A	1	1	1
* 5000654	Screw, BHCS M5x0.8 x 12 Lg.	-	-	2	*
<b>472-3000</b>	<b>Thorax Mechanical Assembly</b>	<b>F</b>	<b>1</b>	<b>1</b>	<b>1</b>
472-3600	Spine Mechanical Assembly	F	1	1	1
472-3630	Neck Pitch Change Mechanism Assembly	D	1	1	1
472-3632	Neck Pitch Change Mechanism, Star Pattern 1	C	1	1	1
472-3631	Neck Pitch Change Mechanism, Star Pattern 2	C	1	1	1
472-3633	Neck Pitch Change Mechanism Base Plate	B	1	1	1
472-3634	Neck Pitch Change Mechanism Bolt	B	1	4	4
5000020	Screw, SHCS M5x0.8 x 16	-	-	1	4
472-3636	Neck Pitch Change Mechanism Top Plate	E	1	1	1
5000445	Dowel Pin, Pull Out M6 x 20	-	-	4	4
5001132	Screw, SHCS M10-1.5 x 55 Lg.	-	-	1	1
472-3620	Upper Thorax Spinebox Weldment	E	1	1	1
472-3623	Upper Thorax Spine Back Plate	D	1	1	1
472-3621	Upper Thorax Spine Side Plate, Right	F	1	1	1
472-3622	Upper Thorax Spine Side Plate, Left	G	1	1	1
472-3624	Upper Thorax Spine Front Plate	B	1	1	1
5000384	Pin, Dowel M3 x 8 Lg.	-	-	8	16
5000869	Pin, Dowel M2.5 x 8 Lg.	-	-	4	14
5000167	Pin, Dowel M1.5 x 6 mm	-	-	2	4
5000281	Screw, SHCS M6x1 x 12 Lg.	-	-	8	12
5000204	Screw, FHCS M6x1 x 10 Lg.	-	-	4	4
472-3670	Lumbar Spine Pitch Change Assembly	B	1	1	1
472-3690	Lumbar Spine Pitch Change Lower Half Assembly	A	1	1	1
472-3691	Lumbar Spine Pitch Change Bottom Plate	B	1	1	1
472-3692	Lumbar Spine Pitch Change Star Wheel, Right Side	A	1	1	1
5001091	Screw, FHCS M8-1.25 x 16 Lg.	-	-	3	6
472-3680	Lumbar Spine Pitch Change Upper Half Assembly	A	1	1	1
472-3682	Lumbar Spine Pitch Change Star Wheel, Left Side	A	1	1	1
472-3681	Lumbar Spine Pitch Change Top Plate	A	1	1	1
* 5001091	Screw, FHCS M8x1.25 x 16 Lg.	-	-	3	*
5000442	Screw, SHCS M2x1.75 x 60 Lg.	-	-	1	1
472-3713	Lumbar Spine Pitch Change Indicator	B	1	1	1
5000203	Screw, FHCS M3x0.5 x 10 Lg.	-	-	2	5
472-3720	Thoracic Spine Load Cell Structural Replacement	B	1	1	1
5000868	Screw, FHCS M8x1.25 x 20 Lg.	-	-	16	16
5001092V	Screw, FHCS M8x1.25 x 14	-	-	2	2
5000117	Screw, FHCS M8x1.25 x 25 Lg.	-	-	2	4
472-3650	Lower Thoracic Spine Assembly	C	1	1	1
472-3660	Lower Thoracic Spine Welded Assembly	D	1	1	1
472-3664	Rib Mounting Plate, Lower Thoracic Spine	D	1	1	1
472-3661	Top Plate, Lower Thoracic Spine	B	1	1	1
472-3663	Lower Thoracic Spine Bottom Plate	B	1	1	1
472-3662	Central Plate, Lower Thoracic Spine	C	1	1	1
5000284	Pin, Dowel M3 x 10 Lg.	-	-	6	*
* 5000869	Pin, Dowel M2.5 x 8 Lg.	-	-	2	*
472-3660M	Optional Lower Thoracic Spine Machining		1	1	1
5000001	Screw, SHCS M6x1 x 20 Lg.	-	-	4	8
472-3760	Pelvis/Lumbar Mounting Block Assembly	E	1	1	1
5001218	Pin, Dowel M6 x 20 mm	-	-	2	23
472-3746	Lumbar Spine Flex Joint Assembly	B	1	1	1
472-3740	Lumbar Spine Flex Joint Molded Assembly	B	1	1	1
472-3742	Lumbar Spine Flex Joint Bottom Plate	E	1	1	1

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472-3741	Lumbar Spine Flex Joint Top Plate	E	1	1	1
472-3745	Lumbar Spine Flex Joint Cable Assembly	A	1	2	2
472-3744	Lumbar Spine Flex Joint Cable	A	1	1	2
472-3743	Threaded Ball End	A	1	1	5
9003938	1/2 SAE Flat Washer Type-B Zinc	-	-	2	4
472-3747	M12 x 1.75 Locknut, Modified	A	1	4	6
5000462	Lock Nut, Hex M12x1.75, Zinc	-	-	1	4
472-3647	M12 Vinyl Nut Cover	C	1	2	6
472-3646	Upper Thoracic Spine Flex Joint Assembly	B	1	1	1
472-3640	Upper Thoracic Spine Flex Joint Molded Assembly	B	1	1	1
472-3641	Upper Thoracic Spine Flex Joint Top Plate	D	1	1	1
472-3642	Upper Thoracic Spine Flex Joint Bottom Plate	D	1	1	1
9003938	1/2 SAE Flat Washer Type-B Zinc	-	-	2	*
* 472-3747	M12 x 1.75 Locknut, Modified	A	1	2	*
* 472-3647	M12 Vinyl Nut Cover	C	1	2	*
472-3645	Upper Thoracic Spine Flex Joint Cable Assembly	A	1	2	2
472-3644	Upper Thoracic Spine Flex Joint Cable	A	1	1	2
* 472-3743	Threaded Ball End	A	1	1	*
472-3783	Tilt Sensor Mount, T6		1	1	1
472-3781	Tilt Sensor Mount, T12		1	1	1
5000252	Screw, SHCS M3-0.5 x 14 LG.	-	-	1	1
5000985	M2x0.4 X 16 LG. SHCS	-	-	4	4
472-3787	Tilt Sensor Mount Assembly, Pelvis		1	1	1
472-3782	Tilt Sensor Mount, Pelvis		1	1	1
* 5000384	Pin, Dowel M3 x 8 Lg.	-	-	2	*
5001090	Screw, FHCS M8-1.25 x 12 Lg.	-	-	2	10
472-3733	Thoracic Spine Load Cell Flex Joint Adaptor Plate Ass'y.	B	1	1	1
472-3731	Thoracic Spine Load Cell Flex Joint Adaptor Plate	E	1	1	1
5000384	Pin, Dowel M3 x 8 Lg.	-	-	2	*
5000869	Pin, Dowel M2.5 x 8 Lg.	-	-	4	*
5000151	Screw, SHCS M4x07 x 10 Lg.	-	-	2	7
5000024	Screw, SHCS M4x0.7 x 8	-	-	2	2
5000215	Screw, SHCS M2x0.4 x 10 Lg.	-	-	8	20
SA572-S44	Tilt Sensor, Dual Axis	B	1	4	*
472-4203	Tri-Pack Accel Ass'y.	B	1	2	2
SA572-S80M	S4 Triaxial Accelerometer Mounting Block - Metric	B	1	1	2
SA572-S4	Uniaxial Piezoresistive Accelerometer	G	1	3	15
472-3857	T1 Accel. Mount Assembly	A	1	1	1
472-3858	T1 Accel Mount	B	1	1	1
* SA572-S4	Uniaxial Piezoresistive Accelerometer	G	1	3	*
5000568	Screw, SHCS M3x0.5 X 12	-	-	2	2
* SA572-S127	Thoracic Spine Load Cell (Optional)	A	1	1	1
472-3310	Thorax Elliptical Rib #1 - Assembly	A	1	1	1
472-3311	Thorax Elliptical Rib #1 - Steel	C	1	1	1
472-3312	Thorax Elliptical Rib #1 - Damping Material	A	1	1	1
472-3320	Thorax Elliptical Rib #2 - Assembly	A	1	1	1
472-3321	Thorax Elliptical Rib #2 - Steel	C	1	1	1
472-3322	Thorax Elliptical Rib #2 - Damping Material	A	1	1	1
472-3330	Thorax Elliptical Rib #3 - Assembly	A	1	1	1
472-3331	Thorax Elliptical Rib #3 - Steel	D	1	1	1
472-3332	Thorax Elliptical Rib #3 - Damping Material	B	1	1	1
472-3340	Thorax Elliptical Rib #4 - Assembly	A	1	1	1
472-3341	Thorax Elliptical Rib #4 - Steel	C	1	1	1
472-3342	Thorax Elliptical Rib #4 - Damping Material	B	1	1	1
472-3350	Thorax Elliptical Rib #5 - Assembly	A	1	1	1

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472-3351	Thorax Elliptical Rib #5 - Steel	D	1	1	1
472-3352	Thorax Elliptical Rib #5 - Damping Material	B	1	1	1
472-3360	Thorax Elliptical Rib #6 - Assembly	A	1	1	1
472-3361	Thorax Elliptical Rib #6 - Steel	D	1	1	1
472-3362	Thorax Elliptical Rib #6 - Damping Material	B	1	1	1
472-3370	Thorax Elliptical Rib #7 - Assembly	A	1	1	1
472-3371	Thorax Elliptical Rib #7 - Steel	D	1	1	1
472-3372	Thorax Elliptical Rib #7 - Damping Material	B	1	1	1
472-3510	Thorax Elliptical Rib Stiffener #1	B	1	1	1
472-3511	Thorax Elliptical Rib Stiffener #2	B	1	1	1
472-3512	Thorax Elliptical Rib Stiffener #3	B	1	1	1
472-3513	Thorax Elliptical Rib Stiffener #4	B	1	1	1
472-3514	Thorax Elliptical Rib Stiffener #5	B	1	1	1
472-3515	Thorax Elliptical Rib Stiffener #6	B	1	1	1
472-3516	Thorax Elliptical Rib Stiffener #7	B	1	1	1
472-3800	Shoulder Assembly	B	1	1	1
472-3810	Left Shoulder Assembly	A	1	1	1
472-3811	Left Shoulder Pivot Assembly	B	1	1	1
472-3812-1	Spring Housing Cover, LH	B	1	1	1
472-3813-1	Shoulder Support Assembly, LH	C	1	1	1
472-3814-1	Shoulder Support, LH	B	1	1	1
472-3815-1	Shoulder Support Pivot, LH	B	1	1	1
472-3816	Forward ROM Buffer	A	1	1	2
472-3817-1	Buffer, Lower Left	B	1	1	1
6001168V	Flange Bearing, 14 OD x 20 FL x 10 ID x 12 Lg.	-	-	1	2
472-3818	Washer, Link, 18 x 8 x 1.5	A	1	1	4
5001170V	Spring Disc Washer, 20 x 8.2 x 1.0	-	-	1	4
472-3819	Rear ROM Buffer	A	1	1	3
472-3820	Buffer, Vertical	A	1	1	3
5000116	Screw, FHCS M3-0.5 x 8	-	-	1	22
6001169V	Bearing, Iglidur 14 x 10 x 10 Lg.	-	-	1	2
472-3821	Link Washer, 23 x 14.2 x 1.5	A	1	1	3
5001164V	Locknut, M8-1.25, SNEP #ESN H100	-	-	1	5
472-3822	Spring Housing Bushing, Upper	A	1	1	2
472-3823	Spring Housing Bushing, Lower	A	1	1	4
* 5001170V	Spring Disc Washer, 20 x 8.2 x 1.0	-	-	1	*
472-3824	Spring Shaft	B	1	1	2
5000140	Pin, Roll M3 x 24	-	-	1	2
472-3825	Spring Housing Washer, Lower	A	1	1	2
472-3826	Washer	A	1	1	2
472-3827	Spring	A	1	1	2
472-3828-1	Rib Guide Lower, LH	A	1	1	1
5000699	Screw, FHCS M4x0.7 x 8 Philips	-	-	4	8
5000292V	Screw, SSFP M4 x 12	-	-	2	4
* 5001164V	Locknut, M8-1.25, SNEP #ESN H100	-	-	1	*
5000504V	Nylock, M8-1.25	-	-	1	2
472-3829-1	Arm Link, LH	B	1	1	1
* 472-3818	Washer, Link, 18 x 8 x 1.5	A	1	1	*
5000467	Screw, FHCS M5-0.8 x 16	-	-	2	4
472-3830-1	Scapula, LH	B	1	1	1
* 5001164V	Locknut, M8-1.25, SNEP #ESN H100	-	-	1	*
472-3831	Arm Clevis Assembly	B	1	1	3
472-3832	Arm Clevis	C	1	1	2
5000680	Pin, Dowel M4 x 6	-	-	3	4
5000524	Pin, Dowel M4 x 8	-	-	2	2

1. \* Indicates part appears previously  
2. No drawings for hardware

THOR-50M Advance Frontal Crash Test Dummy  
(THOR-50M)

PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
472-3833	Nut, Upper Arm Pivot	A	1	1	2
472-3834	Washer, Upper Arm	A	1	1	2
472-3835	Bushing, Upper Arm	A	1	1	2
472-3836	Bushing, Arm Pivot	A	1	1	2
472-3837	Washer, Arm Clevis	A	1	1	2
5000763V	Disc Spring Washer, 20 x 10.0 x 1.1	-	-	1	1
5000764V	Disc Spring Washer, 25 x 12.2 x 1.25	-	-	1	1
472-3838	Tabbed Washer	B	1	1	2
9010638	Locknut, Nylon M12-1.75	-	-	1	1
5001172V	Screw, SHSS M10 x 20 mm Lg.	-	-	1	1
472-3840	Right Shoulder Assembly	A	1	1	1
572-3841	Right Shoulder Pivot Assembly	C	1	1	1
472-3812-2	Spring Housing Cover, RH	B	1	1	1
472-3813-2	Shoulder Support Assembly, RH	C	1	1	1
472-3814-2	Shoulder Support, RH	B	1	1	1
472-3815-2	Shoulder Support Pivot, RH	B	1	1	1
* 472-3816	Forward ROM Buffer	A	1	1	*
472-3817-2	Buffer, Lower Right	A	1	1	1
* 6001168V	Flange Bearing, 14 OD x 20 FL x 10 ID x 12 Lg.	-	-	1	*
* 472-3818	Washer, Link, 18 x 8 x 1.5	A	1	1	*
* 5001170V	Spring Disc Washer, 20 x 8.2 x 1.0	-	-	1	*
* 472-3819	Rear ROM Buffer	A	1	1	*
* 472-3820	Buffer, Vertical	A	1	1	*
* 5000116	Screw, FHCS M3-0.5 x 8	-	-	1	*
* 6001169V	Bearing, Iglidur 14 x 10 x 10 Lg.	-	-	1	*
* 472-3821	Link Washer, 23 x 14.2 x 1.5	A	1	1	*
* 5001164V	Locknut, M8-1.25, SNEP #ESN H100	-	-	1	*
* 472-3822	Spring Housing Bushing, Upper	A	1	1	*
* 472-3823	Spring Housing Bushing, Lower	A	1	2	*
* 5001170V	Spring Disc Washer, 20 x 8.2 x 1.0	-	-	1	*
* 472-3824	Spring Shaft	B	1	1	*
* 5000140	Pin, Roll M3 x 24	-	-	1	*
* 472-3825	Spring Housing Washer, Lower	A	1	1	*
* 472-3826	Washer	A	1	1	*
* 472-3827	Spring	A	1	1	*
472-3828-2	Rib Guide Lower, RH	A	1	1	1
* 5000699	Screw, FHCS M4-0.7 x 8 Philips	-	-	4	*
* 5000292V	Screw, SSFP M4 x 12	-	-	2	*
* 5001164V	Locknut, M8x1.25, SNEP #ESN H100	-	-	1	*
* 5000504V	Nylock, M8x1.25	-	-	1	*
472-3829-2	Arm Link, RH	B	1	1	1
472-3830-2	Scapula, RH	B	1	1	1
* 5001164V	Locknut, M8-1.25, SNEP #ESN H100	-	-	1	*
* 5000467	Screw, FHCS M5-0.8 x 16	-	-	2	*
* 472-3818	Washer, Link, 18 x 8 x 1.5	A	1	1	*
* 472-3831	Arm Clevis Assembly	B	1	1	*
472-3850	Left Clavicle Assembly	C	1	1	1
472-3851	Clavicle	B	1	1	2
472-3852	Rod End Housing, Outboard	B	1	1	4
5000196	Pin, Roll M3 x 14	-	-	4	8
5000946	Metric Spherical Bearing	-	-	2	4
472-3853	Clavicle Cover Plate	A	1	1	2
5000377	Screw, FHCS M3 x 12	-	-	1	3
472-3854	Rod End Housing, Inboard	A	1	1	4
472-3855	Linkage Base, Inboard	A	1	1	4

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PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
472-3856	Rod End Bearing Spacer, Inboard	A	1	1	4
472-3899	Linkage Pin, Inboard Clavicle	A	1	1	4
5001174V	8mm Retaining Ring	-	-	2	4
472-3860	Right Clavicle Assembly	C	1	1	1
* 472-3851	Clavicle	B	1	1	*
* 472-3852	Rod End Housing, Outboard	B	1	1	*
* 5000196	Pin, Roll M3 x 14	-	-	4	*
* 5000946	Metric Spherical Bearing	-	-	2	*
* 472-3853	Clavicle Cover Plate	A	1	1	*
* 5000377	Screw, FHCS M3 x 12	-	-	1	*
* 472-3854	Rod End Housing, Inboard	A	1	1	*
* 472-3855	Linkage Base, Inboard	A	1	1	*
* 472-3899	Linkage Pin, Inboard Clavicle	A	1	1	*
* 5001174V	8mm Retaining Ring	-	-	2	*
* 472-3856	Rod End Bearing Spacer, Inboard	A	1	1	*
472-3870	Sternum Bracket	B	1	1	1
472-3880	Rod End Spacer Ass'y.	B	1	2	2
472-3890	Shoulder Cover Bushing	A	1	2	2
472-3891	Modified M8 Bolt	A	1	2	2
472-3895-1	Shoulder Cover, Left	A	1	1	1
472-3895-2	Shoulder Cover, Right	A	1	1	1
472-3898	Rubber Spacer Washer	B	1	2	2
* 5001090	Screw, FHCS M8x1.25 x 12 Lg.	-	-	8	*
5000454	Screw, BHCS M8x1.25 x 10 Lg.	-	-	14	14
472-3400	Thorax Bib Assembly	E	1	1	1
472-3410	Mid-Sternum Bonding Assembly	B	1	1	1
472-3413	Mid-Sternum Plate	A	1	1	1
472-3414	Mass Damping Foam #1, Mid Sternum	A	1	1	1
472-3411	Mid-Sternum Mass	A	1	1	1
472-3412	Mass Damping Foam #2, Mid Sternum	A	1	1	1
472-3415	Mid-Sternum Rubber Pad	C	1	1	1
472-3411-A	Mid-Sternum Mass #2		1	1	1
472-3431	Sternum Mass Strap	A	1	1	1
472-3420	Thorax Outer Bib	C	1	1	1
472-3421	Bib Insert - Thin, Small	A	1	6	6
472-3422	Bib Insert - Thick, Small	A	1	10	10
472-3423	Bib Insert - Thin, Large	A	1	2	2
472-3424	Bib Insert - Thick, Large	B	1	2	2
5000003	Screw, BHCS M5x0.8 x 10 Lg.	-	-	4	4
* 5000068	Screw, SHCS M1.4x0.3 x 3 Lg.	-	-	2	*
5001126	Washer, M5 x 15 x 1.2 S.S.	-	-	4	18
9002655	Wire Clamp, Nylon 1/8 Dia.	-	-	1	2
5000103	Screw, BHCS M4x0.7 X 8	-	-	1	5
472-3115	Bracket, Lift Strap		1	1	1
472-3517	Dummy Lifting Strap	C	1	1	1
8003027	Climbing Sling 11mm Wide X 250mm (10") Lg. 22kN	-	-	1	1
5000571	Screw, BHCS M5x0.8 x 22 Lg.	-	-	2	2
5000654	Screw, BHCS M5x0.8 x 12 Lg.	-	-	2	4
5000210	Screw, BHCS M5X0.8 x 20 Lg.	-	-	6	6
472-3520	IRTRACC Connection Bolt, Lower Thorax	C	1	2	2
9003723	1/4 Coated Cable Clamp	-	-	2	2
5000214	Screw, BHCS M5x0.8 x 6 Lg.	-	-	2	2
472-4600	Upper Abdomen Assembly	D	1	1	1
472-4610	Spinal Mount Bracket Assembly	A	1	1	1
472-4612	Thoracic Instr. Bracket Base Plate	A	1	1	1

1. \* Indicates part appears previously  
2. No drawings for hardware



THOR-50M Advance Frontal Crash Test Dummy  
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PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
472-4611	Thoracic Instr. Bracket, Upper Abdomen	A	1	1	1
472-4613	Upper Abdomen Spinal Mount Bracket	A	1	1	1
5000139	Screw, FHCS M6x1 x 12 Lg.	-	-	4	4
5000265	Screw, FHCS M6x1 x 30 Lg.	-	-	2	2
472-4620	Upper Abdomen Intern. Mount Plate Front	B	1	1	1
472-4621	Internal Foam Rear Layer	B	1	1	1
472-4622	Internal Foam Middle Layer	C	1	1	1
472-4623	Internal Foam Front Layer	C	1	1	1
472-4624	Accelerometer Mount, Upper Abdomen	B	1	1	1
5001107	Mini Keensert, M3x0.5 x 4.25 Lg.	-	-	2	10
472-4625	Load Distribution Plate	A	1	1	1
472-4626	Accelerometer Mount Plate	A	1	1	1
472-4627	Grommet Assembly, Upper Abdomen Bag	B	1	1	1
472-4650	Bag-Sewing Assembly, Upper Abdomen	B	1	1	1
472-4651	Front Velcro Patch	A	1	1	1
472-4652	Top/Side Rear Fabric Pattern	A	1	1	1
472-4653	Bottom Fabric Pattern	A	1	1	1
472-4654	Front Stiffener Cloth	A	1	1	1
472-4655	Front Overlay Fabric Pattern	A	1	1	1
472-4656	Zipper, Upper Abdomen	A	1	1	1
6002911	Grommet, .250" I.D. x .545" O.D.	-	-	4	4
6002912	Grommet, .375" I.D. x .815" O.D.	-	-	2	2
* 5000377	Screw, FHCS M3x0.5 x 12	-	-	2	*
5000375	Screw, SHCS M1.4x0.3 x 4 Lg.	-	-	2	2
5000085	Screw, SHCS M6x1 x 8 Lg.	-	-	6	6
* 5000117	Screw, FHCS M8x1.25 x 25 Lg.	-	-	2	*
472-3550	IRTRACC Assembly, Upper Left	F	1	1	1
472-3551	Upper IRTRACC Base	D	1	1	2
SA572-S114	Rotary Potentiometer	A	1	2	11
9002201	Flange Bearing (1/4" O.D. x 1/8" I.D.)	-	-	2	8
5000378	M3 Flat Washer Large OD SS	-	-	2	8
472-3552	IRTRACC Arm Mounting Bracket, Right	D	1	1	2
472-3553	Adaptor, Servo/IRTRACC	C	1	1	6
472-3554	Clamp, IRTRACC	D	1	2	8
5000578	Screw, SSCP M2.5x0.45 x 3 Lg.	-	-	2	8
SA572-S117	IRTRACC Chest	C	1	1	4
472-8110	Universal Joint Assembly		1	1	4
472-8213	Ball Joint Bushing		1	1	4
472-8214	Universal Joint, Modified	A	1	1	4
9002659V	Ø1/2" U-Joint	-	-	1	4
5000456	Screw, SHCS M2.5x0.45 x 10 Lg.	-	-	1	4
5000083	Screw, SHCS M2x0.4 x 8 Lg.	-	-	8	32
5001216	M2 Split Lock Washer SS	-	-	8	32
472-3560	IRTRACC Assembly, Upper Right	F	1	1	1
* 472-3551	Upper IRTRACC Base	D	1	1	*
* SA572-S114	Rotary Potentiometer	A	1	2	*
* 9002201	Flange Bearing (1/4" O.D. x 1/8" I.D.)	-	-	2	*
* 5000378	M3 Flat Washer Large OD SS	-	-	2	*
472-3562	IRTRACC Arm Mounting Bracket, Left	E	1	1	2
* 472-3553	Adaptor, Servo/IRTRACC	C	1	1	*
* 5000578	Screw, SSCP M2.5x0.45 x 3 Lg.	-	-	2	*
* SA572-S117	IRTRACC Chest	C	1	1	*
* 472-8110	Universal Joint Assembly		1	1	*
* 472-8213	Ball Joint Bushing		1	1	*
* 472-8214	Universal Joint, Modified		1	1	*

1. \* Indicates part appears previously  
2. No drawings for hardware

THOR-50M Advance Frontal Crash Test Dummy  
(THOR-50M)

PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
* 9002659V	Ø1/2" U-Joint	-	-	1	*
* 5000456	Screw, SHCS M2.5x0.4 x 10 Lg.	-	-	1	*
* 472-3554	Clamp, IRTRACC	D	1	2	*
* 5000083	Screw, SHCS M2x0.4 x 8 Lg.	-	-	8	*
* 5001216	M2 Split Lock Washer SS	-	-	8	*
472-3570	IRTRACC Assembly, Lower Right	F	1	1	1
472-3571	Upper IRTRACC Base	E	1	1	2
* SA572-S114	Rotary Potentiometer	A	1	2	*
* 9002201	Flange Bearing (1/4" O.D. x 1/8" I.D.)	-	-	2	*
* 5000378	M3 Flat Washer Large OD SS	-	-	2	*
* 472-3552	IRTRACC Arm Mounting Bracket, Right	D	1	1	*
* 472-3553	Adaptor, Servo/IRTRACC	C	1	1	*
* 472-3554	Clamp, IRTRACC	D	1	2	*
* 5000578	Screw, SSCP M2.5x0.45 x 3 Lg.	-	-	2	*
* SA572-S117	IRTRACC Chest	C	1	1	*
* 472-8110	Universal Joint Assembly		1	1	*
* 472-8213	Ball Joint Bushing		1	1	*
* 472-8214	Universal Joint, Modified		1	1	*
* 9002659V	Ø1/2" U-Joint	-	-	1	*
* 5000456	Screw, SHCS M2.5x0.4 x 10 Lg.	-	-	1	*
* 5000083	Screw, SHCS M2x0.4 x 8 Lg.	-	-	8	*
* 5001216	M2 Split Lock Washer SS	-	-	8	*
472-3580	IRTRACC Assembly, Lower Left	F	1	1	1
* 472-3571	Upper IRTRACC Base	E	1	1	*
* SA572-S114	Rotary Potentiometer	A	1	2	*
* 9002201	Flange Bearing (1/4" O.D. x 1/8" I.D.)	-	-	2	*
* 5000378	M3 Flat Washer Large OD SS	-	-	2	*
* 472-3562	IRTRACC Arm Mounting Bracket, Left	E	1	1	*
* 472-3553	Adaptor, Servo/IRTRACC	C	1	1	*
* 472-3554	Clamp, IRTRACC	D	1	2	*
* 5000578	Screw, SSCP M2.5x0.45 x 3 Lg.	-	-	2	*
* SA572-S117	IRTRACC Chest, THOR-M	C	1	1	*
* 472-8110	Universal Joint Assembly		1	1	*
* 472-8213	Ball Joint Bushing		1	1	*
* 472-8214	Universal Joint, Modified		1	1	*
* 9002659V	Ø1/2" U-Joint	-	-	1	*
* 5000456	Screw, SHCS M2.5-0.4 x 10 Lg.	-	-	1	*
* 5000083	Screw, SHCS M2-0.4 x 8 Lg.	-	-	8	*
* 5001216	M2 Split Lock Washer SS	-	-	8	*
472-4700	Lower Abdomen Mechanical Ass'y.	H	1	1	1
472-4710	Internal Mounting Weld Assembly	A	1	1	1
472-4711	Internal Plate	A	1	1	1
472-4712	Threaded Plug	A	1	4	4
472-4713	Flared Overload Cone	A	1	2	2
472-4720-1	Attach Bracket Weld Ass'y., Left	C	1	1	1
472-4721	DGSP Mount	D	1	1	2
472-4722	Side Bracket Rear Flange	A	1	1	2
472-4723-1	Side Bracket Plate, Left	A	1	1	1
472-4724-1	Side Attach Bracket Front Left Plate	A	1	1	1
* 5000869	Pin, Dowel M2.5 x 8 LG.	-	-	2	*
472-4720-2	Attach Bracket Weld Ass'y., Right	C	1	1	1
* 472-4721	DGSP Mount	D	1	1	*
* 472-4722	Side Bracket Rear Flange	A	1	1	*
472-4723-2	Side Bracket Plate, Right	A	1	1	1
472-4724-2	Side Attach Bracket Front Right Plate	A	1	1	1

1. \* Indicates part appears previously  
2. No drawings for hardware

THOR-50M Advance Frontal Crash Test Dummy  
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PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
* 5000869	Pin, Dowel M2.5 x 8 LG.	-	-	2	*
472-4730-1	3D ITRACC Ass'y., Left, Thor-50M Abdomen - Metric	B	1	1	1
SA572-S121	120mm ITRACC Assembly - Metric	A	1	1	4
472-4751	Universal Joint Assembly	E	3	1	2
6004070	UJ500 U-Joint Kit 1/2 OD	-	-	1	2
472-4740-1	Pivot Assembly, Left	B	1	1	1
472-4741	Block Mounting	D	1	1	4
472-4742	Cover	D	1	1	4
472-4743	Block Pivot	B	1	1	4
472-4744	Shaft Horizontal	B	1	1	4
472-4745	Shaft Vertical	A	1	1	4
472-4746	Clamp Pot	A	1	4	16
5000949	Flange Bearing 6 x 8 x 4 Lg.	-	-	5	10
5001079	Screw, SHCS M2x0.4 x 5 Lg.	-	-	8	16
5000514	Pin, Dowel M1.5 x 12 Lg. SS	-	-	1	*
5001043	Screw, SSCP M2.5x0.45 x 4 Lg. SS	-	-	1	2
5001136	Screw, SHCS M2x0.4 x 3 Lg.	-	-	2	4
5000641	Screw, SHCS M2.5x0.45 X 5	-	-	4	8
472-4730-2	3D ITRACC Ass'y., Right, Thor-50M Abdomen - Metric	B	1	1	1
* SA572-S121	120mm ITRACC Assembly - Metric	A	1	1	*
* 472-4751	Universal Joint Assembly	E	3	1	*
* 6004070	UJ500 U-Joint Kit 1/2" OD	-	-	1	*
472-4740-2	Pivot Assembly, Right	B	1	1	1
* 472-4741	Block Mounting	D	1	1	*
* 472-4742	Cover	D	1	1	*
* 472-4743	Block Pivot	B	1	1	*
* 472-4744	Shaft Horizontal	B	1	1	*
* 472-4745	Shaft Vertical	A	1	1	*
* 472-4746	Clamp Pot	A	1	4	*
* 5000949	Flange Bearing 6 x 8 x 4 Lg.	-	-	5	*
* 5001079	Screw, SHCS M2x0.4 x 5 Lg.	-	-	8	*
* 5000514	Pin, Dowel M1.5 x 12 Lg. SS	-	-	1	*
* 5001043	Screw, SSCP M2.5x0.45 x 4 Lg. SS	-	-	1	*
* 5001136	Screw, SHCS M2x0.4 x 3 Lg.	-	-	2	*
* 5000641	Screw, SHCS M2.5x0.45 x 5	-	-	4	*
472-4760	Potentiometer Cover	B	1	1	2
5001103	Screw, SHCS M3x0.5 x 12 Lg.	-	-	12	16
5000312	Screw, SHCS M3x0.5 x 20 Lg.	-	-	6	6
* 5000001	Screw, SHCS M6x1 x 20 Lg.	-	-	4	*
6004191	3/16 Cable Clamp	-	-	2	2
5000388	Screw, SHCS M3x0.5 x 8 Lg.	-	-	2	22
472-4761	Rear Attachment Plate	D	1	1	1
472-4762	Lower Abdomen Distribution Plate	D	1	2	2
472-4764	Lower Abdomen Front Foam Layer	B	1	1	1
472-4765	Lower Abdomen Rear Foam Layer	B	1	1	1
472-4763	Lower Abdomen Top/Side/Rear Pattern	B	1	1	1
472-4763-1	Lower Abdomen Sewing Assembly	C	1	1	1
472-4763-2	Lower Abdomen Bottom Bag Pattern	C	1	1	1
472-4763-3	Lower Abdomen Top Pocket Pattern	C	1	1	1
472-4763-4	Lower Abdomen Front Pattern	D	1	1	1
472-4763-5	Lower Abdomen Zipper	B	1	1	1
472-4763-6	Lower Abdomen Stiffener Cloth	C	1	1	1
472-4763-7	Lower Abdomen Outside Velcro Patch	C	1	1	1
472-4763-8	Upper and Lower Abdomen Velcro Cover	A	1	1	1
* 5000081	Screw, SHCS M6x1 x 16 Lg.	-	-	4	*

1. \* Indicates part appears previously  
2. No drawings for hardware

THOR-50M Advance Frontal Crash Test Dummy  
(THOR-50M)

PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
5000989	Screw, SHCS M4x0.7 x 8 Lg.	-	-	4	5
5001127	Screw, FHCS M10x1.5 x 25 Lg.	-	-	2	2
5000513	Clip Nut, M5 (Monadnock #130300-M5-1)	-	-	10	10
* 5001126	Washer, M5 x 15 x 1.2 S.S.	-	-	12	*
472-3518	IRTRACC Connecting Bolt, Upper Thorax	C	1	1	2
* 5000151	Screw, SHCS M4x07 x 10 Lg.	-	-	4	*
<b>472-4000</b>	<b>Pelvis Assembly</b>	<b>G</b>	<b>1</b>	<b>1</b>	<b>1</b>
472-4211	Pelvis Base Module	C	2	1	1
472-4340-1	Pelvis Left D-Pt.	A	1	1	1
472-4340-2	Pelvis Right D-Pt.	A	1	1	1
472-4350	Pelvis Coccyx	B	1	1	1
* 5001218	Pin, Dowel M6 x 20 mm	-	-	1	*
472-4370	Machined Front Pelvic Casting	A	1	1	1
5000084	Screw, FHCS M5x0.8 x 10 Lg.	-	-	2	3
472-4380-2	Iliac Wing, Right	E	1	1	1
472-4381	Pelvis H-Pt. - Tool Bearing	C	1	1	2
472-4382-2	Iliac Wing, Right	E	1	1	1
5000086	Helicoil, M5x0.8 x 7.5	-	-	2	4
5000088	Helicoil, M6x1 x 9mm	-	-	2	4
5000183	Pin, Dowel M3 x 12 mm	-	-	1	6
* 5000433	Pin, Dowel M6 x 12 mm	-	-	3	*
472-4380-1	Left Iliac Assembly	E	1	1	1
472-4382-1	Iliac Wing, Left	F	1	1	1
* 5000086	Helicoil, M5x0.8 x 7.5	-	-	2	*
* 5000088	Helicoil, M6x1 x 9mm	-	-	2	*
* 472-4381	Pelvis H-Pt. - Tool Bearing	C	1	1	*
* 5000433	Pin, Dowel M6 x 12 mm	-	-	3	*
* 5000183	Pin, Dowel M3 x 12 mm	-	-	1	*
472-4372	Iliac Cable Cover, Pelvis	A	1	8	8
5000723	Screw, FHCS M2.5x0.45 x 5 Lg.	-	-	16	28
5000572	Screw, FHCS M6x1 x 22 Lg.	-	-	10	10
472-4375	S.R. Thor A.S.I.S.	A	1	2	2
472-4376	S.R. Thor A.S.I.S. - Back	A	1	1	2
472-4377	S.R. Thor A.S.I.S. - Front	A	1	1	2
5000416	Screw, BHCS M5 x 0.8 x 16 Lg.	-	-	2	4
5000166	Pin, Roll M3 x 12 Lg.	-	-	2	4
5000020	Screw, SHCS M5 x 0.8 x 16 Lg.	-	-	2	4
472-4800-1	Left Femur Ball Joint Ass'y.	B	1	1	1
472-4830	Femur Retaining Ring	A	1	1	2
472-4819	Hip Shaft	A	1	1	2
472-4820	Femur Ball	B	1	1	2
472-4812-1	Trochanter, left	A	1	1	1
472-4814-1	Hip Cylinder, Left	B	1	1	1
472-4815-1	Hip Arm, Left	B	1	1	1
5001119	Roll Pin, M6 x 35mm	-	-	2	4
5001118	Roll Pin, M6 x 40mm	-	-	1	2
* 5000081	Screw, SHCS M6x1 x 16 Lg.	-	-	8	*
5000298	Screw, SHSS M16 x 40 Lg.	-	-	1	2
472-4800-2	Right Femur Ball Joint Ass'y.	B	1	1	1
* 472-4820	Femur Ball	B	1	1	*
* 472-4830	Femur Retaining Ring	A	1	1	*
472-4815-2	Hip Arm, Right	B	1	1	1
* 472-4819	Hip Shaft	A	1	1	*
472-4812-2	Trochanter, Right	A	1	1	1
472-4814-2	Hip Cylinder, Right	B	1	1	1

1. \* Indicates part appears previously  
2. No drawings for hardware

THOR-50M Advance Frontal Crash Test Dummy  
(THOR-50M)

PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
* 5001118	Roll Pin, M6 x 40mm	-	-	1	*
* 5001119	Roll Pin, M6 x 35mm	-	-	2	*
* 5000081	Screw, SHCS M6x1 x 16 Lg.	-	-	8	*
* 5000298	Screw, SHSS M16 x 40 Lg.	-	-	1	*
472-4361	Pelvis Tri-Pack Mounting Brkt.	A	1	1	1
5000451	Helicoil, M2.5x0.45 x 2.5 mm	-	-	2	2
* 5000385	Pin, Dowel M3 x 6 Lg.	-	-	1	*
472-4371	Pelvis Accelerometer Cover	A	1	1	1
* 5000203	Screw, FHCS M3x0.5 x 10 Lg.	-	-	3	*
472-4100	Pelvis Flesh, Molded	B	1	1	1
472-4330	Front Pelvic Plate	B	1	1	1
5000351	Helicoil, M5x0.8 x 5	-	-	2	2
472-4204	Pelvis Top Plate	A	1	1	1
472-4205	Pelvis, Rear Plate	A	1	1	1
472-4310	Friction Adjustment Set Screw Assembly	A	1	2	2
472-4311	Friction Adjustment Nylon Tip	A	1	1	2
472-4312	Friction Adjustment Set Crew	A	1	1	2
5000508	Screw SSCP M20x2.5 x 20	-	-	1	2
472-4321-1	Pelvis Socket Adaptor (Left)	D	1	1	1
5000430	Helicoil, M20-2.5 x 20 mm	-	-	1	2
5000422	Helicoil, M6-1 x 12 mm	-	-	3	14
* 5000433	Pin, Dowel M6 x 12 Lg.	-	-	3	*
* 5000183	Pin, Dowel M6 x 12 mm	-	-	1	*
472-4323	Acetabular Load Cell Structural Replacement	D	1	2	2
472-4325-1	Pelvis Load Cell Mtg. Plate Left	C	1	1	1
472-4321-2	Pelvis Socket Adaptor (Right)	D	1	1	1
* 5000430	Helicoil, M20x2.5 x 20 mm	-	-	1	*
* 5000422	Helicoil, M6x1 x 12 mm	-	-	3	*
* 5000433	Pin, Dowel M6 x 12 mm	-	-	3	*
* 5000183	Pin, Dowel M3 x 12 mm	-	-	1	*
472-4325-2	Pelvis Load Cell Mtg. Plate (Right)	B	1	1	1
* 5000384	Pin, Dowel M3 x 8 mm	-	-	1	*
5000135	Screw, FHCS M6x1 x 25 Lg.	-	-	8	12
5001089	Screw, FHCS M6x1 x 20 Lg.	-	-	12	18
* 5000281	Screw, SHCS M6x1 x 12 Lg.	-	-	4	*
5000090	Screw, FHCS M6x1 x 16 Lg.	-	-	4	8
5000119	Screw, SHCS M3x0.5 x 10 Lg.	-	-	4	4
5000023	Screw, FHCS M4x0.7 x 10 Lg.	-	-	9	13
5000462	Lock Nut, Hex M12x1.75, Zinc	-	-	2	*
5000267	Washer, Flat M12, Plain Zinc	-	-	2	2
5000604	Screw, SHCS M6x1 x 14 Lg.	-	-	6	6
* 5000646	Screw, FHCS M4x0.7 x 8 Lg.	-	-	9	*
* SA572-S119	A.S.I.S. LOAD CELL (OPTIONAL)	C	1	1	1
* SA572-S129	ACETABULAR LOAD CELL ASS'Y., RIGHT	A	1	1	1
* SA572-S128	ACETABULAR LOAD CELL ASS'Y., LEFT	A	1	1	1
* 9002655	WIRE CLAMP, NYLON 1/8 DIA.	-	-	1	*
5001111V	WASHER, SPRING LOCK M3	-	-	1	1
9009248V	NUT, HEX M3X0.5	-	-	1	1
5001316	SCREW, SHCS M6 x 22 LOW PROFILE	-	-	2	2
* 472-4203	TRI-PACK ACCEL. ASS'Y.	B	1	1	*
* SA572-S80M	S4 Triaxial Accelerometer Mounting Block - Metric	B	1	1	*
* 5000068	Screw, SHCS M1.4x0.3 x 3 Lg.	-	-	6	*
* SA572-S4	Uniaxial Piezoresistive Accelerometer	G	1	1	*
* 5000985	Screw, SHCS M2x0.4 x 16 LG.	-	-	2	*
5000285	Screw, FHCS M6x1 x 18 Lg.	-	-	4	4

1. \* Indicates part appears previously  
2. No drawings for hardware

THOR-50M Advance Frontal Crash Test Dummy  
(THOR-50M)

PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
<b>472-5100-1</b>	<b>Left Upper Leg Ass'y.</b>	<b>C</b>	<b>1</b>	<b>1</b>	<b>1</b>
W50-51060	Universal Leg L.C. Structural Replacement	D	1	1	2
472-5206	Compression Element-Upper Leg	A	1	1	2
472-5203	End Cap - Femur	A	1	1	2
W50-61042	Modified BHSS M6 Thread	C	1	8	20
472-5200	Femur Bushing Ass'y.	A	1	1	2
472-5201	Femur Cup Ass'y.	A	1	1	2
5000422	Helicoil, M6x1 x 12 mm	-	-	4	8
472-5202	Femur Bushing	A	1	1	2
472-5300	Knee Cap Ass'y., Left	C	1	1	1
472-5303	Washer, Slider Knee	B	1	1	2
472-5304	Washer, Compression	B	1	1	2
472-5302	Bolt, Shoulder	A	1	1	2
5000588	Screw, SHSS M10 x 12	-	-	1	2
472-5306	Assembly, Pot String Holder (Left)	A	1	1	1
472-5737-1	Holder, Pot String (Left)	A	1	1	1
472-5735	Bumper, Extension Stop	A	1	1	2
472-5736	Bumper, Return Stop	A	1	1	2
472-5305	Plate, Mount	B	1	1	1
9004003	Screw, FHCS #2-56 x 1/8" Phillips Head	-	-	2	4
472-5301	Knee Flesh Insert - Molded	A	1	1	2
472-5310	Ass'y., Inboard/Outboard Slider	C	1	1	2
472-5740	Ball Slider Ball Stop	A	1	1	2
472-5320	Inboard Slider, Molded	A	1	1	2
472-5321	Race, Outer	B	1	1	2
472-5322	Race, Inner	B	1	1	2
472-5330	Outboard Slider, Molded	A	1	1	2
472-5331	Race, Outer	E	1	1	2
472-5332	Outboard Slider, Inner Race	C	1	1	2
472-5738	Stop, Ball	A	1	2	4
472-5733	Bronze Separator	A	1	4	8
5000023	Screw, FHCS M4 x 10mm	-	-	2	4
5000723	Screw, FHCS M2.5 x 5mm	-	-	4	*
9002186	Ball 4.76mm DIA.	-	-	20	40
472-5358	Knee Slider Stop Ass'y.	A	1	1	2
472-5356	Stop - Slider	A	1	1	2
472-5357	Bumper - Slider	A	1	1	2
9010681	Screw, BHCS M2.5 x 6mm	-	-	8	16
5001075	Screw, BHCS M4x0.7 x 6	-	-	2	4
472-5763	Pin, Knee Stop	B	1	1	2
472-5350	Knee Cap Ass'y.	B	1	1	2
472-5351	Knee Cap	E	1	1	2
472-5762	Threaded Insert, Modified	A	1	2	4
5000585	Keensert, Lightweight M8x1.25 x 12	-	-	1	2
5000182	Pin, Roll M4 x 10mm	-	-	1	2
5000723	Screw, FHCS M2.5x0.45 x 5	-	-	2	*
472-5410	Femur Ball Attachment Plate Ass'y.	A	1	1	2
472-5411	Femur Ball Joint Attachment Plate	B	1	1	2
5000433	Pin, Dowel M6 x 12mm	-	-	2	4
472-5420	Femur Plunger Ass'y.	B	1	1	2
472-5421	End Stop	A	1	2	4
472-5422	Plunger - Femur	C	1	1	2
472-5503-1	Thigh Flesh - Left	B	1	1	1
472-5504	Thigh Flesh Zipper Assembly		1	1	2
472-5504 ZIPPER	#5 YKK Zipper	-	-	1	2

1. \* Indicates part appears previously  
2. No drawings for hardware

THOR-50M Advance Frontal Crash Test Dummy  
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PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
472-5504 VINYL	Reinforced Vinyl Strip	-	-	2	4
472-5502	Knee Flesh Left/Right	B	1	1	2
5000438	Screw, BHCS M6x1 x 20mm	-	-	4	8
472-5353	Knee Cover	C	1	2	4
5000037	Screw, SHCS M8x1.25 x 25 Lg.	-	-	1	2
9005217	Screw, SHCS M6x1 x 18	-	-	4	8
SA572-S120	Femur Load Cell (Optional)	A	1	1	2
<b>472-5100-2</b>	<b>Right Upper Leg Ass'y.</b>	<b>C</b>	<b>1</b>	<b>1</b>	<b>1</b>
* W50-51060	Universal Leg L.C. Structural Replacement	D	1	1	*
* 472-5206	Compression Element-Upper Leg	A	1	1	*
* 472-5203	End Cap - Femur	A	1	1	*
* W50-61042	Modified BHSS M6 Thread	C	1	8	*
* 472-5200	Femur Bushing Ass'y.	A	1	1	*
* 472-5201	Femur Cup Ass'y.	A	1	1	*
* 5000422	Helicoil, M6x1 x 12 mm	-	-	4	*
* 472-5202	Femur Bushing	A	1	1	*
472-5700	Knee Cap Ass'y., Right	C	1	1	1
* 472-5301	Knee Flesh Insert - Molded	A	1	1	*
* 472-5302	Bolt, Shoulder	A	1	1	*
* 472-5303	Washer, Slider Knee	B	1	1	*
* 472-5304	Washer, Compression	B	1	1	*
472-5308	Plate, Mount	B	1	1	1
472-5307	Assembly, Pot String Holder (Right)	A	1	1	1
472-5737-2	Holder, Pot String (Right)	A	1	1	1
* 472-5735	Bumper, Extension Stop	A	1	1	*
* 472-5736	Bumper, Return Stop	A	1	1	*
* 9004003	Screw, FHCS #2-56 x 1/8" Phillips Head	-	-	2	*
* 472-5310	Ass'y., Inboard/Outboard Slider	C	1	1	*
* 472-5740	Ball Slider Ball Stop	A	1	1	*
* 472-5320	Inboard Slider, Molded	A	1	1	*
* 472-5321	Race, Outer	B	1	1	*
* 472-5322	Race, Inner	B	1	1	*
* 472-5330	Outboard Slider, Molded	A	1	1	*
* 472-5331	Race, Outer	E	1	1	*
* 472-5332	Outboard Slider, Inner Race	C	1	1	*
* 472-5738	Stop, Ball	A	1	1	*
* 472-5733	Bronze Separator	A	1	4	*
* 5000023	Screw, FHCS M4x0.7 x 10 Lg.	-	-	2	*
* 5000723	Screw, FHCS M2.5x0.45 x 5 Lg.	-	-	4	*
* 9002186	Ball 4.76mm Dia.	-	-	20	*
* 472-5358	Knee Slider Stop Ass'y.	A	1	1	*
* 472-5356	Stop - Slider	A	1	1	*
* 472-5357	Bumper - Slider	A	1	1	*
* 9010681	Screw, BHCS M2.5x0.45 x 6	-	-	8	*
* 5001075	Screw, BHCS M4x0.7 x 6	-	-	2	*
* 472-5763	Pin, Knee Stop	B	1	1	*
* 472-5350	Knee Cap Ass'y.	B	1	1	*
* 472-5351	Knee Cap	E	1	1	*
* 472-5762	Threaded Insert, Modified	A	1	2	*
* 5000182	Pin, Roll M4 x 10mm	-	-	1	*
* 5000723	Screw, FHCS M2.5x0.45 x 5 Lg.	-	-	2	*
* 472-5410	Femur Ball Attachment Plate Ass'y.	A	1	1	*
* 472-5411	Femur Ball Joint Attachment Plate	B	1	1	*
* 5000433	Pin, Dowel M6 x 12 Lg.	-	-	2	*
* 472-5420	Femur Plunger Ass'y.	B	1	1	*

1. \* Indicates part appears previously  
2. No drawings for hardware

THOR-50M Advance Frontal Crash Test Dummy  
(THOR-50M)

PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
* 472-5421	End Stop	A	1	2	*
* 472-5422	Plunger - Femur	C	1	1	*
472-5503-2	Thigh Skin - Right	B	1	1	1
* 472-5504	Thigh Flesh Zipper Assembly		1	1	*
* 472-5504 ZIPPER	#5 YKK Zipper	-	-	1	*
* 472-5504 VINYL	Reinforced Vinyl Strip	-	-	2	*
* 472-5502	Knee Flesh Left/Right	B	1	1	*
* 5000438	Screw, BHCS M86x1 x 20mm	-	-	4	*
* 5000037	Screw, SHCS M8x1.25 x 25 Lg.	-	-	1	*
* 472-5353	Knee Cover	C	1	2	*
* 9005217	Screw, SHCS M6x1 x 18	-	-	4	*
<b>472-6000-1</b>	<b>Left Arm Assembly</b>	<b>C</b>	<b>1</b>	<b>1</b>	<b>1</b>
472-6200	Upper Humerus Assembly	B	1	1	2
472-6210	Upper Humerus Weldment	A	1	1	2
472-6211	Upper Arm Tube	A	1	1	2
472-6212	Upper Arm Mount	A	1	1	2
W50-61041	Structural Replacement Leg Load Cell		1	1	2
472-6220	Lower Load Cell Interface	A	1	1	2
472-6230	Arm End Plate	A	1	1	2
5000103	Screw, BHCS M4x0.7 x 8	-	-	2	18
472-6240	Upper Arm, Lower Section	A	1	1	2
5001170V	Spring Disc Washer, 12.5 x 6.2 x .5	-	-	1	1
472-6250	Screw, SHCS, M6 (Modified)	A	1	1	1
5000016V	Screw, SHCS M6x1 x 45 mm	-	-	1	1
5000356	Screw, BHCS M6x1 x 12	-	-	8	8
472-6260	Arm Flesh Spacer	A	1	1	2
* 5000084	Screw, FHCS M5x0.8 x 10 Lg.	-	-	1	*
472-6270	Upper Arm Flesh	A	1	1	2
472-6600	Washer, Upper Arm & Elbow Pivot	A	1	1	2
472-6590	Bushing, Elbow Pivot	A	1	1	2
472-6950	Washer - Shoulder Joint Spring	A	1	1	2
472-6610	Nut-Elbow Pivot	A	1	1	2
472-6520	Lower Arm Molded	A	1	1	2
472-6530	Structural Ass'y. Lower Arm - Upper Part	A	1	1	2
472-6540	Elbow Yoke	A	1	1	2
472-6550	Tube - Lower Arm	A	1	1	2
472-6560	Clamp - Wrist Rotation	A	1	1	2
* 5000433	Pin, Dowel M6 x 12 Lg.	-	-	3	*
5000280	Pin, Dowel M5 x 10 Lg.	-	-	2	2
472-6570	Stop Asm. - Lower Arm	A	1	1	2
472-6580	Stop, Backing, Lower Arm	B	1	1	2
472-6700	Lower Wrist Rotation Ass'y.	A	1	1	2
472-6730	Shaft - Wrist Rotation	A	1	1	2
472-6710	Lug - Wrist, Upper	A	1	1	2
472-6720	Lug - Wrist. Lower	A	1	1	2
472-6900-1	Hand Asm. Molded, Left	B	1	1	1
472-6910	Structural Ass'y. - Hand	A	1	1	2
472-6940	Hand Plate - Outer	A	1	1	2
472-6930	Plate - Hand, Inner	A	1	1	2
472-6920	Hub, Hand	B	1	1	2
9001260	Washer, 1.06 OD x .53 ID x .06 Thk.	-	-	1	2
5000506	Screw, SHSS M12 x 30 Lg.	-	-	1	2
5000492	Screw, SHSS M10 x 25 Lg.	-	-	1	2
5000441	Screw, SHCS M12x1.75 x 30 Lg.	-	-	1	2



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PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
<b>472-6000-2</b>	<b>Right Arm Assembly</b>	<b>C</b>	<b>1</b>	<b>1</b>	<b>1</b>
* 472-6200	Upper Humerus Assembly	B	1	1	*
* 472-6210	Upper Humerus Weldment	A	1	1	*
* 472-6211	Upper Arm Tube	A	1	1	*
* 472-6212	Upper Arm Mount	A	1	1	*
* W50-61041	Structural Replacement Leg Load Cell		1	1	*
* 472-6220	Lower Load cell Interface	A	1	1	*
* 472-6230	Arm End Plate	A	1	1	*
* 5000103	Screw, BHCS M4x0.7 x 8	-	-	2	*
* 472-6240	Upper Arm, Lower Section	A	1	1	*
* 5001176V	Spring Disc Washer, 12.5 x 6.2 x .5	-	-	1	*
* 472-6250	Screw, SHCS, M6 (Modified)	A	1	1	*
* 5000016V	Screw, SHCS M6x1 x 45 mm	-	-	1	*
* 5000356	Screw, BHCS M6x1 x 12	-	-	8	*
* 472-6260	Arm Flesh Spacer	A	1	1	*
* 5000084	Screw, FHCS M5x0.8 x 10 Lg.	-	-	1	*
* 472-6270	Upper Arm Flesh	A	1	1	*
* 472-6600	Washer, Elbow Pivot	A	1	1	*
* 472-6590	Bushing, Elbow Pivot	A	1	1	*
* 472-6950	Washer - Shoulder Joint Spring	A	1	1	*
* 472-6610	Nut-Elbow Pivot	A	1	1	*
* 472-6520	Lower Arm Molded	A	1	1	*
* 472-6530	Structural Ass'y. Lower Arm - Upper Part	A	1	1	*
* 472-6540	Elbow Yoke	A	1	1	*
* 472-6550	Tube - Lower Arm	A	1	1	*
* 472-6560	Clamp - Wrist Rotation	A	1	1	*
* 5000433	Pin, Dowel M6 x 12 Lg.	-	-	3	*
* 5000280	Pin, Dowel M5 x 10 Lg.	-	-	2	*
* 472-6570	Stop Asm. - Lower Arm THOR-M	A	1	1	*
* 472-6580	Stop, Backing, Lower Arm	B	1	1	*
* 472-6700	Lower Wrist Rotation Ass'y.	A	1	1	*
* 472-6730	Shaft - Wrist Rotation	A	1	1	*
* 472-6710	Lug - Wrist, Upper	A	1	1	*
* 472-6720	Lug - Wrist, Lower	A	1	1	*
* 9001260	Washer, 1.06 OD x .53 ID x .06 Thk.	-	-	1	*
472-6900-2	Hand Asm. Molded, Right	B	1	1	1
* 472-6910	Structural Ass'y. - Hand	A	1	1	*
* 472-6940	Hand Plate - Outer	A	1	1	*
* 472-6930	Plate - Hand, Inner	A	1	1	*
* 472-6920	Hub, Hand	B	1	1	*
* 5000506	Screw, SHSS M12 x 30 Lg.	-	-	1	*
* 5000492	Screw, SHSS M10 x 25 Lg.	-	-	1	*
* 5000441	Screw, SHCS M12x1.75 x 30 Lg.	-	-	1	*
<b>472-7000-1</b>	<b>Lower Leg Assembly, Complete - Left</b>	<b>E</b>	<b>1</b>	<b>1</b>	<b>1</b>
472-7300	Lower Leg Mechanical Assembly	C	1	1	2
472-7310	Lower Tibia Tube Ass'y.	D	1	1	2
472-7311	Lower Tibia Tube	E	1	1	2
9010423	Igus Iglide J Bearing, 1" OD x 3/4" ID x 1" LG, (Part #JSI-1216-16)	-	-	2	4
9010437	Helicoil,, M6 x 1 x 6	-	-	10	44
472-7320	Upper Tibia Load Cell Blank	B	1	1	2
472-7315	Tibia Compliant Bushing Ass'y.	A	1	1	2
472-7316	Plunger, Compliant Bushing	C	1	1	2
472-7318	Bushing, Compliant	E	1	1	2
472-7317	Flange, Lower	C	1	1	2
472-7325	Lower Tibia Load Cell Blank	D	1	1	2

1. \* Indicates part appears previously  
2. No drawings for hardware

THOR-50M Advance Frontal Crash Test Dummy  
(THOR-50M)

PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
* W50-61042	Modified BHSS M6 Thread	C	1	9	*
472-7350	Achilles Spring Tube Mechanical Ass'y.	B	1	1	2
472-7351	Tube Base, Achilles Spring	B	1	1	2
9009073	Helicoil, M4 x 0.7 x 6mm	-	-	4	8
472-7359	Achilles Load Cell Blank	G	1	1	2
472-7356	Spring Base Cap, Achilles	D	1	1	2
9000540	Compression Spring		1	1	2
472-7357	Elastomeric Spring Element	C	1	1	2
472-7360	Tube, Achilles Spring	J	1	1	2
472-7358	Foam Compression Element	E	1	1	2
472-7354	Washer, Achilles Primary	B	1	1	2
472-7355	Spring Cap, Achilles	B	1	1	2
472-7352	Achilles Cable Assembly	B	1	1	2
5000380V	Nut, Hex Jam M5	-	-	2	4
472-7335	Plunger Retaining Bolt	E	1	2	4
9005101	Screw, SHCS M6x1.0 x 20mm	-	-	1	4
9001445	Screw, FHCS M6x1 x 12mm Long	-	-	5	10
472-7330	Z Rotation Wedge Ass'y.	B	1	1	2
472-7331	Z Rotation Wedge	A	1	1	2
9010459	Dowel Pin 4mm x 18mm	-	-	2	4
9000058	Screw, SHSS M3x0.5 x 12	-	-	1	4
* 9010447	Screw, SSFP M3 x 0.5 x 3	-	-	1	*
472-7500-1	Ankle Assembly, Left	G	1	1	1
472-7510	Ankle Center Block Ass'y.	F	1	1	2
472-7511	Center Block - Ankle	F	1	1	2
472-7512	Torque Shaft, Upper	F	1	1	2
472-7513	Torque Shaft, Lower	F	1	1	2
9010444	Pin, Spring 6mm x 22mm	-	-	2	4
472-7515	Washer, Retaining	D	4	4	8
472-7522	Cap, Base-Torque	E	1	4	8
5000356	Screw, BHCS M6 x 1.0 x 12	-	-	8	16
472-7523	Base, Torque-Bottom	G	1	1	2
* 9010437	Helicoil,, M6 x 1 x 6	-	-	8	*
9010508	Helicoil, M3 x 0.5 x 4.5 Lg. SST	-	-	4	8
472-7524	Torque Cylinder	E	1	18	36
472-7530	Stop Assembly - Dorsi	B	1	1	2
472-7531	Bracket, Front Stop - Dorsi/Plantar	B	1	1	2
472-7532	Soft - Dorsi/Plantar	C	1	1	2
472-7540	Ankle Bushing Plate Ass'y. - Free End	C	1	2	4
472-7543	Bushing Plate, Free End	E	1	1	2
472-7542	Bushing, Ankle	E	1	1	8
9010446	Screw, FHCS M3x0.5 x 16	-	-	4	12
* 9010447	Screw, SHSS M3x0.5 x 3	-	-	2	*
9000873	Screw, FHCS M4 x 0.7 x 12	-	-	4	4
9010448	Screw, FHCS M4 x 0.7 x 20	-	-	4	8
472-7560	Bracket, Achilles Pulley	B	1	1	2
* 9010449	Screw, FHCS M3 x 0.5 x 12	-	-	2	*
472-7561	Shaft, Achilles Cable Pulley	B	1	1	2
9000509	Needle Roller Bearing		1	2	4
9000508	Achilles Washer	A	1	2	4
9000510	Flat Washer #4 Type B Narrow	-	-	2	4
472-7562	Pulley, Achilles Cable	D	1	1	2
9010450	Nut, Nylock M3 x 0.5	-	-	2	4
472-7533	Stop Assembly - Eversion	B	1	1	2
472-7535	Bracket, Soft Stop - Lower	B	1	1	4

1. \* Indicates part appears previously  
2. No drawings for hardware

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PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
472-7536	Stop, Eversion	D	1	1	2
472-7534	Stop Assembly - Inversion	B	1	1	2
* 472-7535	Bracket, Soft Stop - Lower	B	1	1	*
472-7537	Stop, Inversion	D	1	1	2
5000103	Screw, BHCS M4 x 0.7 x 8	-	-	7	14
472-7563	Bolt & Sleeve Ass'y., Ankle	E	1	1	2
9010164	Screw, SHCS M8x1.25 x 35	-	-	1	2
472-7564	Sleeve, Bolt - Ankle	D	1	1	2
9005135	Clamp, Nylon Loop	A	1	3	6
472-7527	Stop Assembly, Plantar	A	1	1	1
472-7528	Stop Bracket, Rear Dorsi/Plantar		1	1	1
472-7529	Dorsi/Plantar Soft Stop		1	1	2
472-7580	Base, Torque-Ankle Top		2	1	2
472-7521	Bushing, Thrust	D	1	1	2
* 9010437	Helicoil, M6 x 1 x 6	-	-	4	*
472-7582	Ankle Bushing Plate Assembly - Pot End		1	2	4
472-7583	Plate, Ankle Bushing	A	1	1	4
* 472-7542	Bushing, Ankle	D	1	1	*
472-7585	Retainer, Potentiometer	A	1	2	4
* SA572-S114	Rotary Potentiometer	A	1	3	*
472-7581	Potentiometer Clamp		1	3	6
9010559	Screw, SHCS M2x0.2 x 4	-	-	6	12
9010560	Screw, SHCS M2x0.4 x 6	-	-	12	24
472-7200	Knee Clevis Weldment	B	1	1	2
472-7214	Bottom Plate, Knee Clevis	C	1	1	2
472-7210	Clevis, Knee - Right	F	1	1	2
472-7212	Clevis, Knee - Left	G	1	1	2
472-7216	Stiffener, Knee Bumper	A	1	1	2
9010040	Helicoil M5 x 0.8 x 5 Lg.	-	-	2	4
9010688	Pin, Dowel M3 x 8	-	-	1	2
9000852	Screw, FHCS M6x1.0 x 16	-	-	4	8
472-7800-1	Molded Shoe Ass'y. - Left		1	1	1
472-7802-1	Shoe Upper - Left		1	1	1
472-7750	Foot Bone Assembly		1	1	2
472-7743	Mounting Brkt. Heel/Achilles		1	1	2
472-7742	Foot Bone		1	1	2
9010451	Insert, M3 Knurled Treaded Press	-	1	5	10
9005126	Screw, FHCS M3x0.5 x 6	-	-	3	6
472-7752	Insert - Achilles Tension		1	1	2
9010679	Screw, FHCS M2.5 x 8	-	-	2	4
472-7804-1	Heel Pad Molded - Left		1	1	1
472-7803-1	Ball of Foot Pad Molded - Left		1	1	1
472-7801-1	Shoe Sole - Left		1	1	1
472-7744	Mounting Post, Lower Achilles		1	1	2
472-7710	Plate Mounting, Tri Pack Accel.	B	1	1	2
* SA572-S80M	S4 Triaxial Accelerometer Mounting Block, Metric	B	1	1	*
* 9010446	Screw, FHCS M3x0.5 x 16	-	-	2	*
9000863	Screw, FHCS M2.5x0.45 x 16	-	-	2	4
9010407	Screw, SHCS M1.4x0.3 x 3	-	-	6	12
* SA572-S4	Uniaxial Piezoresistive Accelerometer	G	1	3	*
9000058	Screw, SHCS M3 x 12	-	-	1	*
* 9000826	Screw, FHCS M6-1.0 x 16	-	-	4	*
472-7110	Knee Bumper, Molded	B	1	1	2
472-7111	Back Plate, Molded Bumper	A	1	1	2
472-7115	Shin Guard	A	1	1	2

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PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
9003042	Screw, BHCS M5 x 10	-	-	2	4
9010453	Screw, BHCS M6 x 1.0 x 16	-	-	2	4
472-7370-1	Lower Leg Flesh Ass'y., Left	A	1	1	1
472-5580-1	Lower Leg Flesh, Left		1	1	1
<b>472-7000-2</b>	<b>Lower Leg Assembly, Complete - Right</b>	<b>E</b>	<b>1</b>	<b>1</b>	<b>1</b>
* 472-7300	Lower Leg Ass'y	B	1	1	*
* 472-7310	Lower Tibia Tube Ass'y.	D	1	1	*
* 472-7311	Lower Tibia Tube	E	1	1	*
* 9010423	Igus Iglide J Bearing, 1" OD x 3/4" ID x 1" LG, (Part #JSI-1216-16)	-	-	2	*
* 9010437	Helicoil,, M6 x 1 x 6	-	-	10	*
* 472-7320	Upper Tibia Load Cell Blank	B	1	1	*
* 472-7315	Tibia Compliant Bushing Ass'y.	A	1	1	*
* 472-7316	Plunger, Compliant Bushing	C	1	1	*
* 472-7318	Bushing, Compliant	E	1	1	*
* 472-7317	Flange, Lower	C	1	1	*
* 472-7325	Lower Tibia Load Cell Blank	D	1	1	*
* W50-61042	Modified BHCS M6 Thread	C	1	9	*
* 472-7350	Achilles Spring Tube Mechanical Ass'y.	B	1	1	*
* 472-7351	Tube Base, Achilles Spring	B	1	1	*
* 9009073	Helicoil, M4 x 0.7 x 6mm	-	-	4	*
* 472-7359	Achilles Load Cell Blank	G	1	1	*
* 472-7356	Spring Base Cap, Achilles	D	1	1	*
* 9000540	Compression Spring		1	1	*
* 472-7357	Elastomeric Spring Element	C	1	1	*
* 472-7360	Tube, Achilles Spring	J	1	1	*
* 472-7358	Foam Compression Element	E	1	1	*
* 472-7354	Washer, Achilles Primary	B	1	1	*
* 472-7355	Spring Cap, Achilles	B	1	1	*
* 9010447	Screw, Set M3 x 0.5 x 3	-	-	1	*
* 472-7352	Achilles Cable Assembly	B	1	1	*
* 5000380V	Nut, Hex Jam M5	-	-	2	*
* 472-7335	Plunger Retaining Bolt	D	1	2	*
* 9005101	Screw, SHCS M6x1 x 1.0 x 20mm	-	-	1	*
* 9001445	Screw, FHCS M6x1 x 12mm Long	-	-	5	*
* 472-7330	Z Rotation Wedge Ass'y.	B	1	1	*
* 472-7331	Z Rotation Wedge	A	1	1	*
* 9010459	Dowel Pin 4mm x 18mm	-	-	2	*
* 9000058	Screw, SHCS M3x0.5 x 12	-	-	1	*
* 9010447	Screw, Set M3 x 0.5 x 3	-	-	1	*
472-7500-2	Ankle Assembly, Right	G	1	1	1
* 472-7510	Ankle Center Block Ass'y.	E	1	1	*
* 472-7511	Center Block, Ankle	E	1	1	*
* 472-7512	Shaft, Torque-Upper Ankle	E	1	1	*
* 472-7513	Shaft, Torque-Lower Ankle	E	1	1	*
* 9010444	Pin, Spring 6mm x 22mm	-	-	2	*
* 472-7515	Washer, Retaining	C	4	4	*
* 472-7522	Cap, Base-Torque	D	1	4	*
* 5000356	Screw, BHCS M6 x 1.0 x 12	-	-	8	*
* 472-7523	Base, Torque-Bottom	F	1	1	*
* 9010437	Helicoil,, M6 x 1 x 6	-	-	8	*
* 9010508	Helicoil, M3 x 0.5 x 4.5 Lg. SST	-	-	4	*
* 472-7524	Torque Cylinder	D	1	18	*
* 472-7530	Stop Assembly - Dorsi	A	1	1	*
* 472-7531	Bracket, Front Stop - Dorsi/Plantar	B	1	1	*
* 472-7532	Soft, Dorsi/Plantar	B	1	1	*

1. \* Indicates part appears previously  
2. No drawings for hardware

THOR-50M Advance Frontal Crash Test Dummy  
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PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
* 472-7540	Ankle Bushing Plate Ass'y.	B	1	2	*
* 472-7543	Bushing Plate, Free End	D	1	1	*
* 472-7542	Bushing, Ankle	D	1	1	*
* 9010446	Screw, FHCS M3x0.5 x 16	-	-	4	*
* 9010447	Screw, SHSS M3x0.5 x 3	-	-	2	*
* 9000873	Screw, FHCS M4-0.7 x 12	-	-	4	*
* 9010448	Screw, FHCS M4x0.7 x 20	-	-	4	*
* 472-7560	Bracket, Achilles Pulley	A	1	1	*
* 9010449	Screw, FHCS M3 x 0.5 x 12	-	-	2	*
* 472-7561	Shaft, Achilles Cable Pulley	B	1	1	*
* 9000509	Needle Roller Bearing		1	2	*
* 9000508	Achilles Washer		1	2	*
* 9000510	Flat Washer #4 Type B Narrow	-	-	2	*
* 472-7562	Pulley, Achilles Cable	C	1	1	*
* 9010450	Nut, Nylock M3 x 0.5	-	-	2	*
* 472-7533	Stop Assembly - Eversion	A	1	1	*
* 472-7535	Bracket, Soft Stop - Lower	B	1	1	*
* 472-7536	Stop, Eversion	C	1	1	*
* 472-7534	Stop Assembly - Inversion	A	1	1	*
* 472-7535	Bracket, Soft Stop - Lower	B	1	1	*
* 472-7537	Stop, Inversion	C	1	1	*
* 5000103	Screw, BHCS M4x0.7 x 8	-	-	7	*
* 472-7563	Bolt & Sleeve Ass'y., Ankle	D	1	1	*
* 9010164	Screw, SNCS M8 x 35	-	-	1	*
* 472-7564	Sleeve, Bolt - Ankle	D	1	1	*
* 9005135	Clamp, Nylon Loop	A	1	3	*
* 472-7527	Soft Stop Ass'y., Rear	A	1	1	*
* 472-7528	Stop Bracket, Rear Dorsi/Plantar		1	1	*
* 472-7529	Dorsi/Plantar Soft Stop		1	1	*
* 472-7580	Base, Torque-Ankle Top		2	1	*
* 472-7521	Bushing, Thrust	D	1	1	*
* 9010437	Helicoil, M6 x 1 x 6	-	-	4	*
* 472-7582	Ankle Bushing Plate Assembly - Pot End		1	2	*
* 472-7583	Plate, Ankle Bushing	A	1	1	*
* 472-7542	Bushing, Ankle	D	1	1	*
* 472-7585	Retainer, Potentiometer	A	1	2	*
* SA572-S114	Rotary Potentiometer	A	1	3	*
* 472-7581	Potentiometer Clamp		1	3	*
* 9010559	Screw, SHCS M2x0.2 x 4	-	-	6	*
* 9010560	Screw, SHCS M2x0.4 x 6	-	-	12	*
* 5000410	Screw, BHCS M3x0.5 x 8	-	-	4	*
* 472-7200	Knee Clevis Weldment	B	1	1	*
* 472-7214	Bottom Plate, Knee Clevis	C	1	1	*
* 472-7210	Clevis, Knee - Right	F	1	1	*
* 472-7212	Clevis, Knee - Left	G	1	1	*
* 472-7216	Stiffener, Knee Bumper	A	1	1	*
* 9010040	Helicoil M5 x 0.8 x 5 Lg.	-	-	2	*
* 9010688	Pin, Dowel M3 x 8	-	-	1	*
* 9000852	Screw, FHCS M6x1.0 x 16	-	-	4	*
472-7800-2	Molded Shoe Ass'y. - Right		1	1	1
472-7802-2	Shoe Upper - Right		1	1	1
* 472-7750	Foot Bone Assembly		1	1	*
* 472-7743	Mounting Brkt. Heel/Achilles		1	1	*
* 472-7742	Foot Bone		1	1	*
* 9010451	Insert, M3 Knurled Treaded Press	-	-	5	*

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PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
* 9005126	Screw, FHCS M3x0.5 x 6	-	-	3	*
* 472-7752	Insert - Achilles Tension		1	1	*
* 9010679	Screw, FHCS M2.5 x 8	-	-	2	*
472-7803-2	Ball of Foot Pad Molded - Right		1	1	1
472-7804-2	Heel Pad Molded - Right		1	1	1
472-7801-2	Shoe Sole - Right		1	1	1
472-7744	Mounting Post, Lower Achilles		1	1	*
* 5001089	Screw, FHCS M6-1 x 20 Lg.	-	-	3	*
* 472-7710	Plate Mounting, Tri Pack Accel.	B	1	1	*
* 9010446	Screw, FHCS M3x0.5 x 16	-	-	2	*
* SA572-S80M	S4 Triaxial Accelerometer Mounting Block, Metric	B	1	1	*
* 9000863	Screw, FHCS M2.5x0.45 x 16	-	-	2	*
* 9010407	Screw, SHCS M1.4x0.3 x 3	-	-	6	*
* SA572-S4	Uniaxial Piezoresistive Accelerometer	G	1	3	*
* 9000058	Screw, SHCS M3 x 12	-	-	1	*
* 472-7110	Knee Bumper, Molded	B	1	1	*
* 472-7111	Back Plate, Molded Bumper	A	1	1	*
* 472-7115	Shin Guard	A	1	1	*
* 9003042	Screw, BHCS M5 x 10	-	-	2	*
* 9010453	Screw, BHCS M6 x 1.0 x 16	-	-	2	*
* 9000852	Screw, FHCS M6x1.0 x 16	-	-	4	*
472-7370-2	Lower Leg Flesh Ass'y., Right	A	1	1	1
472-5580-2	Lower Leg Flesh, Right		1	1	1
<b>472-3900</b>	<b>Front/Rear Panel Assembly, Jacket</b>	<b>C</b>	<b>1</b>	<b>1</b>	<b>1</b>
472-3910	Front Panel Assembly, Jacket	F	1	1	1
472-3911	Front Inside Panel Pattern (Neoprene)	D	1	1	1
472-3927	Front Interior Shoulder Patch	C	1	1	1
472-3921	Front Interior Abdomen Patch, Jacket	A	1	1	1
472-3922	Crotch Strap Assembly, Jacket	B	1	1	1
472-3923	Inner Crotch Strap Pattern, Jacket	C	1	1	1
472-3924	Outer Crotch Strap Pattern, Jacket	B	1	1	1
472-3925	Rear Crotch Strap Hook Velcro	A	1	1	1
472-3914	Chest Foam Pocket	A	1	1	1
472-3915-1	Upper Left Foam Pocket	B	1	1	1
472-3915-2	Upper Right Foam Pocket	B	1	1	1
472-3913	Stiffener Pocket, Jacket	B	1	1	1
472-3926	Steel Stiffener, Jacket	A	1	4	4
472-3920	Weighted Bib, Jacket	A	1	1	1
472-3912	Front Outside Panel Pattern (Cordura)	B	1	1	1
472-3918	Front Panel Zipper, Jacket	A	1	2	2
472-3917	Front Panel Shoulder Zipper, Jacket	A	1	2	2
472-3919	Upper Side Foam	A	1	2	2
472-3951	Rear Panel Assembly, Jacket	A	1	1	1
472-3952	Inside Rear Panel Pattern	C	1	1	1
472-3953	Outside Rear Panel Pattern	A	1	1	1
472-3954	Upper Back Foam Pocket	A	1	1	1
472-3955	Mid Back Foam Pocket	A	1	1	1
472-3957	Mid Back Foam	B	1	1	1
472-3956	Upper Back Foam	A	1	1	1
472-3958	Rear Panel Loop Velcro	A	1	1	1
472-3959	Rear Panel Shoulder Hook Velcro	A	1	1	1
6004278	Pants, Thermal, Large	-	-	1	1
<b>472-2900</b>	<b>Neck Foam Assembly</b>	<b>C</b>	<b>1</b>	<b>1</b>	<b>1</b>
472-2910	Neck Foam	C	1	1	1
472-2912	Foam Reinforcement Mesh	B	1	1	1

1. \* Indicates part appears previously  
2. No drawings for hardware

THOR-50M Advance Frontal Crash Test Dummy  
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PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
472-2913	Velcro Hook, Neck Skin	A	1	1	1
472-2914	Velcro Loop, Neck Skin	A	1	1	1
<b>472-2901</b>	<b>Neck Skin Assembly</b>	<b>A</b>	<b>1</b>	<b>1</b>	<b>1</b>
472-2923	Neck Skin Neoprene Pattern	A	1	1	1
472-2921	Neck Skin Rear Zipper	A	1	1	1
472-2922	Neck Skin Cordura Pattern (Outer/Inner)	A	1	1	1
472-2920	Neck/Head Skin Zipper	B	1	1	1
5000206V	Screw, FHCS M6x1 x 8	-	-	8	8
* 5000135	Screw, FHCS M6x1 x 25	-	-	4	*
<b>&lt;&lt;&lt; Grounding Straps &gt;&gt;&gt;</b>					
472-8700	Instrument Ground Strap, Head/Neck	B	1	1	1
6002979	Metric Ring Terminal M5 Non-Insulated	-	-	1	3
6002978	Metric Ring Terminal M4 Non-Insulated	-	-	1	4
6002273	Braid, Tinned Copper Tubular 1/8"	-	-	1	6
472-8701	Instrument Ground Strap, Mid Sternum - Mid Sternum	B	1	1	1
* 6002979	Metric Ring Terminal M5 Non-Insulated	-	-	2	*
* 6002273	Braid, Tinned Copper Tubular 1/8"	-	-	1	*
472-8702	Instrument Ground Strap, Thoracic Spine - Thoracic Spine	B	1	1	1
6002981	Metric Ring Terminal M8 Non-Insulated	-	-	2	2
* 6002273	Braid, Tinned Copper Tubular 1/8"	-	-	1	*
472-8703	Instrument Ground Strap, Lumbar Spine - Lumbar Spine	B	1	1	1
6002980	Metric Ring Terminal M6 Non-Insulated	-	-	1	3
* 6002273	Braid, Tinned Copper Tubular 1/8"	-	-	1	*
* 6002978	Metric Ring Terminal M4 Non-Insulated	-	-	1	*
472-8704	Instrument Ground Strap, Femur - Femur	C	1	2	2
* 6002980	Metric Ring Terminal M6 Non-Insulated	-	-	2	*
* 6002273	Braid, Tinned Copper Tubular 1/8"	-	-	1	*
472-8705	Instrument Ground Strap, Femur, Tibia	B	1	2	2
* 6002980	Metric Ring Terminal M6 Non-Insulated	-	-	2	*
* 6002273	Braid, Tinned Copper Tubular 1/8"	-	-	1	*
472-8706	Instrument Ground Strap, Main Ground		1	1	1
6002272V	High-Flex Grounding Wire, Insulated, #10 AWG	-	-	1	1
* 6002980	Metric Ring Terminal M6 Non Insulated	-	-	1	*
6002990V	Standard Ring Terminal 3/8" Non Insulated	-	-	1	1
<b>&lt;&lt;&lt; Instrumentation &gt;&gt;&gt;</b>					
* 472-1101	Biaxial Accelerometer Assembly, Head	C	1	1	*
* 472-1200	Accelerometer Mounting Plate Assembly, Head	C	1	1	*
SA572-S112	Ø.0850 Skull Spring Load Cell Thor-50M	A	1	2	2
SA572-S110	Upper Neck Load Cell Thor-50M	A	1	1	1
SA572-S111	Lower Neck Load Cell Thor-50M	A	1	1	1
SA572-S127	Thoracic Spine Load Cell Thor (Metric)	A	1	1	1
SA572-S128	Acetabulum Load Cell Ass'y. Left	A	1	1	1
SA572-S119	A.S.I.S. Load Cell	C	1	1	1
SA572-S120	Thor Femur Load Cell	A	1	2	2
* 472-3550	IRTRACC Assembly, Upper Left	F	1	1	*
* 472-3551	Upper IRTRACC Base	D	1	1	*
* SA572-S114	Rotary Potentiometer	A	1	2	*
* 9002201	Flange Bearing (1/4" O.D. x 1/8" I.D.)	-	-	2	*
* 5000378	M3 Flat Washer Large OD SS	-	-	2	*
* 472-3552	IRTRACC Arm Mounting Bracket, Right	D	1	1	*
* 472-3553	Adaptor, Servo/IRTRACC	C	1	1	*
* 472-3554	Clamp, IRTRACC	D	1	1	*
* 5000578	Screw, SSCP M2.5x0.45 x 3 Lg.	-	-	2	*
* SA572-S117	IRTRACC Chest	C	1	1	*
* 472-8110	Universal Joint Assembly		1	1	*

1. \* Indicates part appears previously  
2. No drawings for hardware

THOR-50M Advance Frontal Crash Test Dummy  
(THOR-50M)

PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
* 472-8213	Ball Joint Bushing		1	1	*
* 472-8214	Universal Joint, Modified		1	1	*
* 5000456	Screw, SHCS M2.5x0.4 x 10 Lg.	-	-	1	*
* 5000083	Screw, SHCS M2x0.4 x 8 Lg.	-	-	8	*
* 5001216	M2 Split Lock Washer SS	-	-	8	*
* 472-3560	IRTRACC Assembly, Upper Right	F	1	1	*
* 472-3551	Upper IRTRACC Base	D	1	1	*
* SA572-S114	Rotary Potentiometer	A	1	2	*
* 9002201	Flange Bearing (1/4" O.D. x 1/8" I.D.)	-	-	2	*
* 5000378	M3 Flat Washer Large OD SS	-	-	2	*
* 472-3562	IRTRACC Arm Mounting Bracket, Left	E	1	1	*
* 472-3553	Adaptor, Servo/IRTRACC	C	1	1	*
* 5000578	Screw, SSCP M2.5x0.45 x 3 Lg.	-	-	2	*
* SA572-S117	IRTRACC Chest, THOR-50M	C	1	1	*
* 472-8110	Universal Joint Assembly		1	1	*
* 472-8213	Ball Joint Bushing		1	1	*
* 472-8214	Universal Joint, Modified		1	1	*
* 5000456	Screw, SHCS M2.5x0.4 x 10 Lg.	-	-	1	*
* 472-3554	Clamp, IRTRACC	D	1	1	*
* 5000083	Screw, SHCS M2x0.4 x 8 Lg.	-	-	8	*
* 5001216	M2 Split Lock Washer SS	-	-	8	*
* 472-3570	IRTRACC Assembly, Lower Right	F	1	1	*
* 472-3571	Upper IRTRACC Base	E	1	1	*
* SA572-S114	Rotary Potentiometer	A	1	2	*
* 9002201	Flange Bearing (1/4" O.D. x 1/8" I.D.)	-	-	2	*
* 5000378	M3 Flat Washer Large OD SS	-	-	2	*
* 472-3562	IRTRACC Arm Mounting Bracket, Left	E	1	1	*
* 472-3553	Adaptor, Servo/IRTRACC	C	1	1	*
* 472-3554	Clamp, IRTRACC	D	1	1	*
* 5000578	Screw, SSCP M2.5x0.45 x 3 Lg.	-	-	2	*
* SA572-S117	IRTRACC Chest	B	1	1	*
* 472-8110	Universal Joint Assembly		1	1	*
* 472-8213	Ball Joint Bushing		1	1	*
* 472-8214	Universal Joint, Modified		1	1	*
* 5000456	Screw, SHCS M2.5x0.4 x 10 Lg.	-	-	1	*
* 5000083	Screw, SHCS M2x0.4 x 8 Lg.	-	-	8	*
* 5001216	M2 Split Lock Washer SS	-	-	8	*
* 472-3580	IRTRACC Assembly, Lower Left	F	1	1	*
* 472-3571	Upper IRTRACC Base	E	1	1	*
* SA572-S114	Rotary Potentiometer	A	1	2	*
* 9002201	Flange Bearing (1/4" O.D. x 1/8" I.D.)	-	-	2	*
* 5000378	M3 Flat Washer Large OD SS	-	-	2	*
* 472-3562	IRTRACC Arm Mounting Bracket, Left	E	1	1	*
* 472-3553	Adaptor, Servo/IRTRACC	C	1	1	*
* 472-3554	Clamp, IRTRACC	D	1	1	*
* 5000578	Screw, SSCP M2.5x0.45 x 3 Lg.	-	-	2	*
* SA572-S117	IRTRACC Chest	C	C	1	*
* 472-8110	Universal Joint Assembly		1	1	*
* 472-8213	Ball Joint Bushing		1	1	*
* 472-8214	Universal Joint, Modified		1	1	*
* 5000456	Screw, SHCS M2.5x0.4 x 10 Lg.	-	-	1	*
* 5000083	Screw, SHCS M2x0.4 x 8 Lg.	-	-	8	*
* 5001216	M2 Split Lock Washer SS	-	-	8	*
* 472-4203	Tri-Pack Accel. Ass'y.	B	1	1	*
* SA572-S80M	S4 Triaxial Accelerometer Mounting Block, Metric	B	1	1	*



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PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
* 5000068	Screw, SHCS M1.4x0.3 x 3 Lg.	-	-	6	*
* SA572-S4	Uniaxial Piezoresistive Accelerometer	G	1	3	*
* SA572-S44	Tilt Sensor, Dual Axis	B	1	5	*
SA572-S129	Acetabulum Load Cell Ass'y., Right	A	1	1	1
SA572-S90-L	String Pot, Mini (Left)		1	1	1
SA572-S90-R	String Pot, Mini (Right )		1	1	1
SA572-S32	Five Channel Upper Tibia Load Cell		1	1	2
SA572-S33	Five Channel Lower Tibia Load Cell		1	1	2
SA572-S126	ø1.0 Achilles Load Cell		1	1	2
SA572-S56	Angular Rate Sensor-8K	C	1	1	7
SA572-S57	Angular Rate Sensor-12K	C	1	1	7
SA572-S58	Angular Rate Sensor-18K	C	1	1	7
472-9520	Arrangement of Nine Accel. Array Head		1	NA	NA
472-9500	Upper Neck Assembly - Setup Dimensions	D	1	NA	NA
472-9510	Thorax Mechanical Assembly IRTRACC Offset	A	1	NA	NA
<b>&lt;&lt;&lt; Erect/Neutral Posture Foams &gt;&gt;&gt;</b>					
472-0011	Lower Abdomen Erect Posture Foam	A	1	1	1
472-0012	Lower Abdomen Neutral Posture Foam	A	1	1	1
<b>&lt;&lt;&lt;&lt; Tools &gt;&gt;&gt;&gt;</b>					
472-8100	Storage Bracket Assembly	C	1	1	1
472-8101	Storage Bracket Weldment	B	1	1	1
472-8102	Main Bar	A	1	1	1
472-8103	Lower Bar	A	1	1	1
472-8104	Support Bar	A	1	1	1
472-8105	Lower Rod	A	1	2	2
472-8106	Upper Rod	A	1	1	1
W50-84104	Handle, Threaded Hole	B	1	1	1
W50-84106	Handle, Threaded Rod	B	1	1	1
5001121	Screw, SHCS M8x1.25 x 200 Lg.	-	-	1	1
5001120	Screw, SHCS M8x1.25 x 160 Lg.	-	-	2	2
9002905	Shackle, w/Screw Pin 3/8"	-	-	2	2
472-8510-A	H-Point Tool, Assembly		1	1	1
472-8511-A	H-Point Tool, Expander	A	1	1	1
472-8512-A	H-Point Tool, Plate	A	1	1	1
472-8515-A	H-Point Tool, Pin Assembly		1	1	1
472-8513-A	H-Point Tool, Pin		1	1	1
472-8514-A	H-Point Tool, Endcap		1	1	1
472-8516-A	H-Point Pin		1	1	1
5001472	Screw, SSNP M4x0.7 x 6 LG. SS	-	-	1	1
472-8320	Lower Abdomen Bag Inspection Mandrel Ass'y.	A	1	1	1
472-8321	Lower Abdomen Bag Inspection Mandrel	A	1	1	1
5000448V	Pin, Dowel M8 x 24	-	-	4	4
472-8300	Optional - Lower Abdomen Bag Mandrel and Punch - Ass'y.		1	1	1
472-8309	Optional - Lower Abdomen Foam Mandrel Ass'y.		1	1	1
472-8310	Optional - Lower Abdomen Foam, Mandrel		1	1	1
472-8354	Optional - Abdomen Large Hole Cutting Guide		1	2	2
472-8356	Optional - Large Hole Cut Fixture Assembly		1	1	1
472-8357	Optional - Large Hole Cut Fixture Block Ass'y.		1	1	1
5001114	Insert, M4 x .7 x 4.7 (Thermoset)	-	-	1	1
3000500V	Precision Razor Knife	-	-	1	1
5000406	Screw, SSCP M4 x 5	-	-	1	1
472-8350	Optional - Lower Abdomen Bag Punch - Ass'y.		1	1	1
472-8351	Optional - Lower Abdomen Bag Punch - Base Plate		1	1	1
472-8352	Optional - lower Abdomen Bag Punch - Rod		1	2	2
5000227V	Screw, SSFP M5 x 6	-	-	2	2

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PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
472-8355	Optional - Front Hole Pilot Knife		1	1	1
472-8353	Optional - Lower Abdomen Bag Punch - Punch		1	2	2
DL472-9009	Pelvis Standoff Block Ass'y.		1	1	1
DL472-9010	Pelvis Standoff Block		1	1	1
5000437	Screw, SHCS M3x0.5 x 16	-	-	2	2
<<<< Test Fixtures >>>>					
<b>NECK TWIST FIXTURE</b>					
DL472-1000	Neck Twist Fixture	C	1	1	1
DL472-1110	Neck Twist Fixture Top Plate	A	1	1	1
DL472-1130	Neck Twist Fixture End Plate Ass'y., Lateral Impact	A	1	1	1
DL472-1131	Neck Twist Fixture End Plate, Lateral Impact	A	1	1	1
5000332V	Pin, Dowel M5 x 20	-	-	2	*
DL472-1140	Neck Twist Fixture Middle Support Plate	A	1	2	2
DL472-1120	Neck Twist Fixture End Plate Assembly	B	1	1	1
DL472-1121	Neck Twist Fixture End Plate, Right	B	1	1	1
5000002	Pin, Dowel M5 x 12	-	-	2	*
5000224	Pin, Dowel M1.5 x 5	-	-	1	1
SA572-S51	Chest Rotary Potentiometer	B	1	1	1
3000150V	Ball Bearing, 5/8" [15.9] Bore, 1 3/8" [35.0] O.D., 11/32" [8.7] Thk., S.S.	-	-	2	2
3000300V	Shaft Coupling, Flexible Bellows For 1/4" [6.4 mm] Shaft, 1.09" [27.7 mm] Lg., 1/2" [12.7 mm] O.D.	-	-	1	1
DL472-1160	Neck Twist Fixture Pendulum Rod Ass'y.	C	1	1	1
DL472-1161	Neck Twist Fixture Pendulum Collar	A	1	1	1
DL472-1162	Neck Twist Fixture Pendulum Rod	A	1	1	1
DL472-1163	Neck Twist Fixture Pendulum Weight	B	1	1	1
5000473V	Screw, SHCS M5x0.8 x 40	-	-	1	1
DL472-1150	Neck Twist Fixture Shaft Assembly	A	1	1	1
DL472-1151	Neck Twist Fixture Neck Attachment Plate	A	1	1	1
DL472-1152	Neck Twist Fixture Rotation Shaft	A	1	1	1
5000198V	Pin, Roll M5 x 35	-	-	1	1
5000200V	Pin, Roll M5 x 40	-	-	1	1
5000373V	Screw, SHCS M5x0.8 x 25	-	-	6	6
5000452V	Screw, FHCS M4x0.7 x 25	-	-	6	6
5000604	Screw, SHCS M6x1 x 16	-	-	4	4
5000135	Screw, FHCS M6x1 x 25	-	-	4	4
SA572-S56	Angular Rate Sensor - 8K	C	1	1	1
DL472-1180	Neck Twist Fixture Pendulum Spacer	A	1	2	2
5000376V	Screw, SHCS M1.4x0.3 x 10	-	-	2	2
DL472-109	Neck Twist Fixture Mounting Plate	A	1	1	1
DL472-1170	Neck Twist Fixture Neck Mounting Adaptor	A	1	1	1
DL472-1171	Neck Twist Fixture Neck Adaptor Plate	A	1	1	1
<b>LOWER ABDOMEN PROBE FACE</b>					
DL472-3000	Lower Abdomen Probe Face Assembly	B	1	1	1
DL472-3030	Lower Abdomen Probe Face Mounting Plate	A	1	1	1
DL472-3020	Lower Abdomen Probe Face Connector Plate	A	1	1	1
DL472-3010	Lower Abdomen Probe Face Front Plate	B	1	1	1
9000079	Screw, SHCS 3/8-16 x 1"	-	-	1	1
5000117	Screw, FHCS M8x1.25 x 5	-	-	4	4
<b>DYNAMIC IMPACTOR</b>					
TLX-9000-013	Dynamic Impactor	A	1	1	1
TLX-9000-007	Test Fixture - Pendulum Arm	D	1	1	1
TLX-9000-006	Test Fixture - Impactor Face	C	1	1	1
TLX-9000-001	Test Fixture - Impactor Ballast	A	1	1	1
5000016V	Screw, SHCS M6-1 x 45	-	-	2	2
5000022V	Screw, SHCS M6-1 x 90	-	-	2	2

1. \* Indicates part appears previously  
2. No drawings for hardware

THOR-50M Advance Frontal Crash Test Dummy  
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PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
<b>ACHILLES FIXTURE</b>					
DL472-4000	Achilles Fixture - Complete	B	1	1	1
DL472-4100	Lower Leg Mounting Bracket Ass'y.		1	1	1
DL472-4101	Lower Leg Mounting Bracket		1	1	1
DL472-4102	Leg Mounting Bar	A	1	1	1
DL472-4103	Gusset		1	2	2
DL472-4200	Load Cell Mounting Assembly	A	1	1	1
DL472-4210	Mounting Bracket Assembly	A	1	1	1
DL472-4211	Load Arm Weldment		1	1	1
DL472-4212	Load Cell Bracket	A	1	1	1
DL472-4213	Gusset		1	2	2
DL472-4214	Pulley Support Angle		1	1	1
DL472-4215	Pulley Bracket		1	1	1
DL472-4216	Load Cell Support		1	1	1
	Teflon Pad, 0.8 [0.03] x 25.4 [1.00] x 76.2 [3.00]	-	-	1	1
5000567V	Screw, Hex HD. Cap M6x1 x 20	-	-	1	1
9009091	Nut, Hex M6-1	-	-	1	1
5000284	Pin, Dowel M3 x 10	-	-	2	*
	Pulley, For 3/16"Ø Wire Rope, .125"Ø Bore x .375"Ø Groove x .1875"Ø Hub Width	-	-	1	1
9002947V	Screw, SHSS 1/8 x 3/8	-	-	1	1
DL472-4202	Draw Screw		1	1	1
9000110	Hex Nut 1/4-28	-	-	1	1
9000101V	Hex Nut, Flanged, 1/4-28	-	-	1	1
DL472-4203	Pull Wire Assembly	A	1	1	1
	Wire Rope, 7 x 7, Ø0.047"	-	-	1	1
	Wire Rope Oval Compression Sleeve for 3/64"Ø Wire Rope	-	-	2	2
5000685V	Thrust Bearing, 1/4" ID	-	-	1	1
5001500V	Load Cell, 25# Cap, LCR-25	-	-	1	1
DL472-4204	Eye Bolt - Modified		1	1	1
<b>LOWER LEG ZERO BRACKET</b>					
DL472-3500	Lower Leg Zero Bracket	A	1	1	1
<b>DYNAMIC INVERSION/EVERSION BRACKET</b>					
TLX-9000-015	Test Fixture - Dynamic Inversion/Eversion Bracket	C	1	1	1
TLX-9000-025	Inversion/Eversion Bracket, Attachment Bar	A	1	1	1
TLX-9000-026	Inversion/Eversion Bracket, Impact Tube		1	1	1
TLX-9000-027	Inversion/Eversion Bracket, Foam Impact Pad		1	2	2
<b>EXTERNAL POSITIONING BRACKET</b>					
TLX-9000-016M	External Positioning Bracket		1	1	1
<b>KNEE SLIDER TEST DISTRIBUTION BRACKET</b>					
DL472-5000	Knee Slider Test Distribution Bracket - Ass'y.		1	1	1
DL472-5010	Knee Slider Test Distribution Bracket -Weldment		1	1	1
DL472-5011	Knee Slider Test Distribution Bracket -Impact Plate		1	1	1
DL472-5012	Knee Slider Test Distribution Bracket, Side Plate - Right		1	1	1
DL472-5013	Knee Slider Test Distribution Bracket, Side Plate - Left		1	1	1
DL472-5014	Knee Slider Test Distribution Bracket - Tie Bar		1	1	1
DL472-5015	Knee Slider Test Distribution Bracket - Back Plate		1	1	1
DL472-5020	Knee Slider Test Distribution Bracket - Ballast Weight		1	1	1
5000001	Screw, SHCS M6x1.0 x 20mm	-	-	2	2
<b>DIGITAL SLIDE CALIBRATION FIXTURE</b>					
DL472-6000	Digital Slide Calibration Fixture		1	1	1
DL472-6010	DSCF - Front IRTRACC Mount Block Ass'y.		1	1	1
DL472-6011	DSCF - Front IRTRACC Mount Block		1	1	1
DL472-6012	DSCF - Front IRTRACC Mount Block Ass'y. - Screw Retainer		1	1	1
5000291	Screw, SHCS M5x0.8 x 10	-	-	1	1

1. \* Indicates part appears previously  
2. No drawings for hardware

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PART NUMBER	DESCRIPTION	REV.	No. SHTS.	QTY. Per Ass'y.	QTY. Per Dummy
9000378V	Screw, SHCS #4-40 x 3/8"	-	-	2	2
DL472-6050	DSCF - Rear IRTRACC Mount Block Ass'y.		1	1	1
DL472-6051	DSCF - Rear IRTRACC Mount Block		1	1	1
5000445	Pin, Dowel M6 x 20mm	-	-	1	1
9000042V	Pin, Dowel 3/16" x 3/4"	-	-	1	1
9000012V	Pin, Dowel 1/8" x 3/4"	-	-	2	2
DL472-6100	Potentiometer Calibration Fixture Ass'y.		1	1	1
DL472-6121	Potentiometer Hold Down Block		1	1	1
DL472-6122	Potentiometer Clamp Block		1	1	1
9001016V	Screw, SSCP 1/4-20 x 3/8", Nylon Tip	-	-	1	1
9000154	Screw, SSCP #4-40 x 1/8"	-	-	1	1
9000378V	Screw, SHCS #4-40 x 3/8"	-	-	2	2
<b>THOR 3D IRTRACC FIXTURE</b>					
TF-472-6000	Thor 3D IRTRACC Set Up Fixture	A	1	1	1
DL472-4300	Tibia Adaptor		1	1	1