

Humanetics Innovative Solutions, Inc.

Q3S Child Dummy
(Advanced Side Impact 3 year old child)
020-0100



Parts Catalog





For information on Humanetics products, please visit our web site at www.humaneticsatd.com
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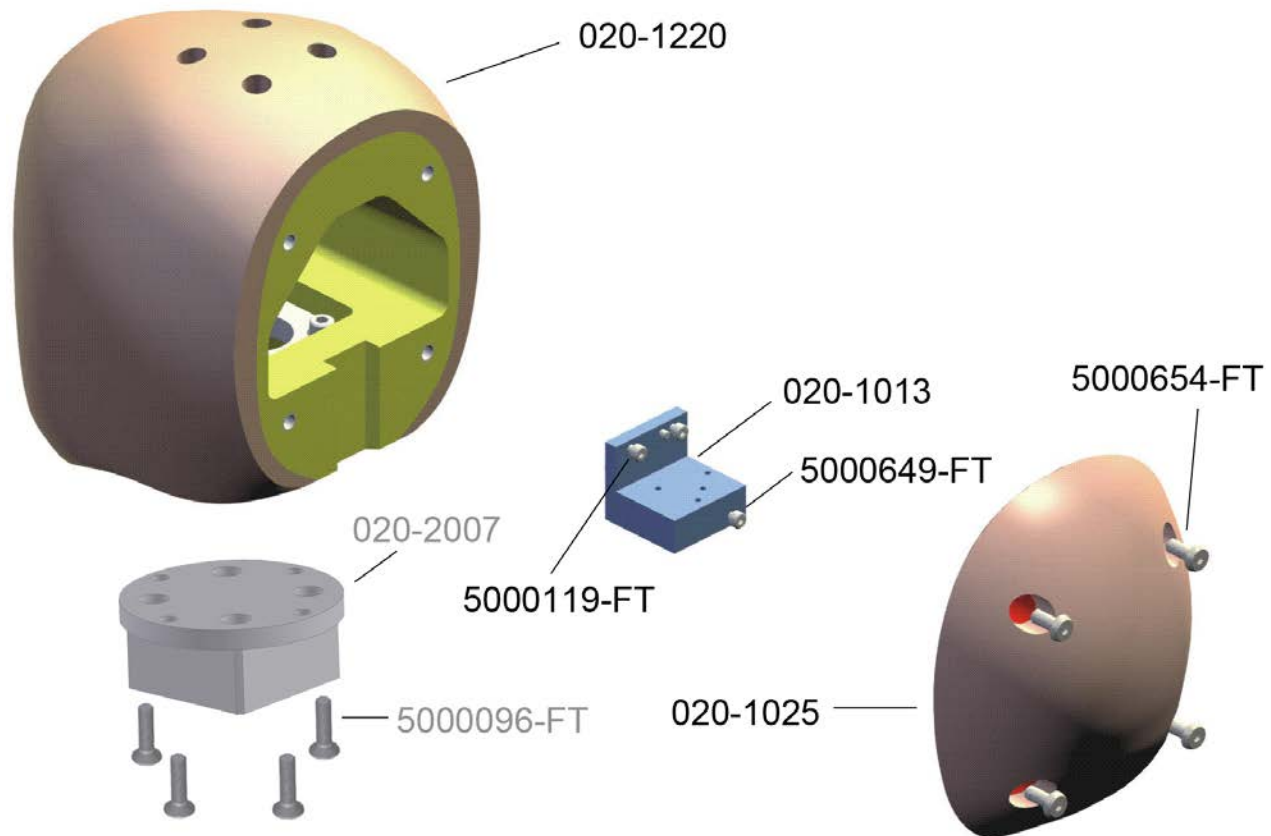
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Background

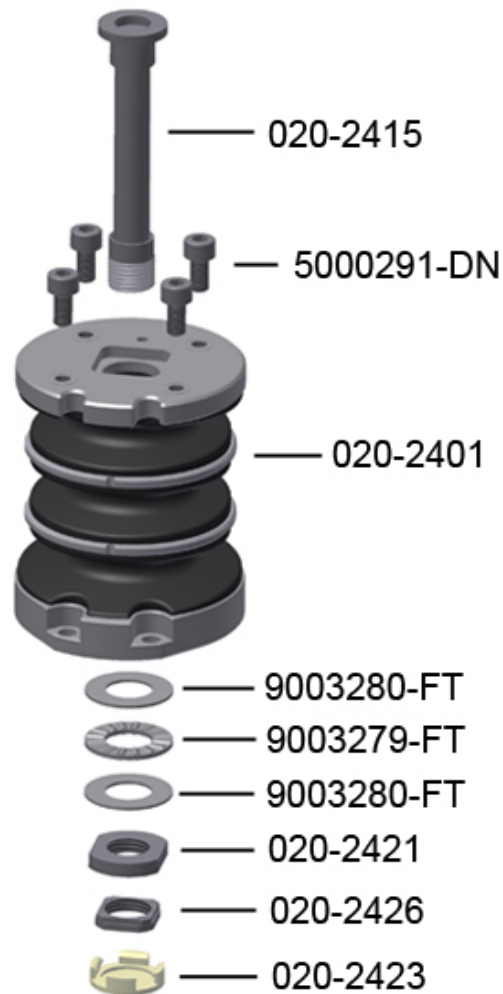
In 1993 the international Child Dummy Working Group started with the development of a new series of child dummies as a successor to the P-series. This new series was called the Q-series. This development resulted in a Q3 dummy in 1998 and in 2006 the first Q3s was launched.

On November 21, 2013, the National Highway Traffic Safety Administration (NHTSA) issued a Notice of Proposed Rulemaking (NPRM) for the Q3s Child Side Impact crash test dummy. The new rule proposes to amend CFR Part 572 and add subpart W to reference specifications and qualifications for an anthropomorphic test device (ATD) representing a 3-year-old child for the evaluation of side impact performance in Child Restraint Systems.

Head Assembly

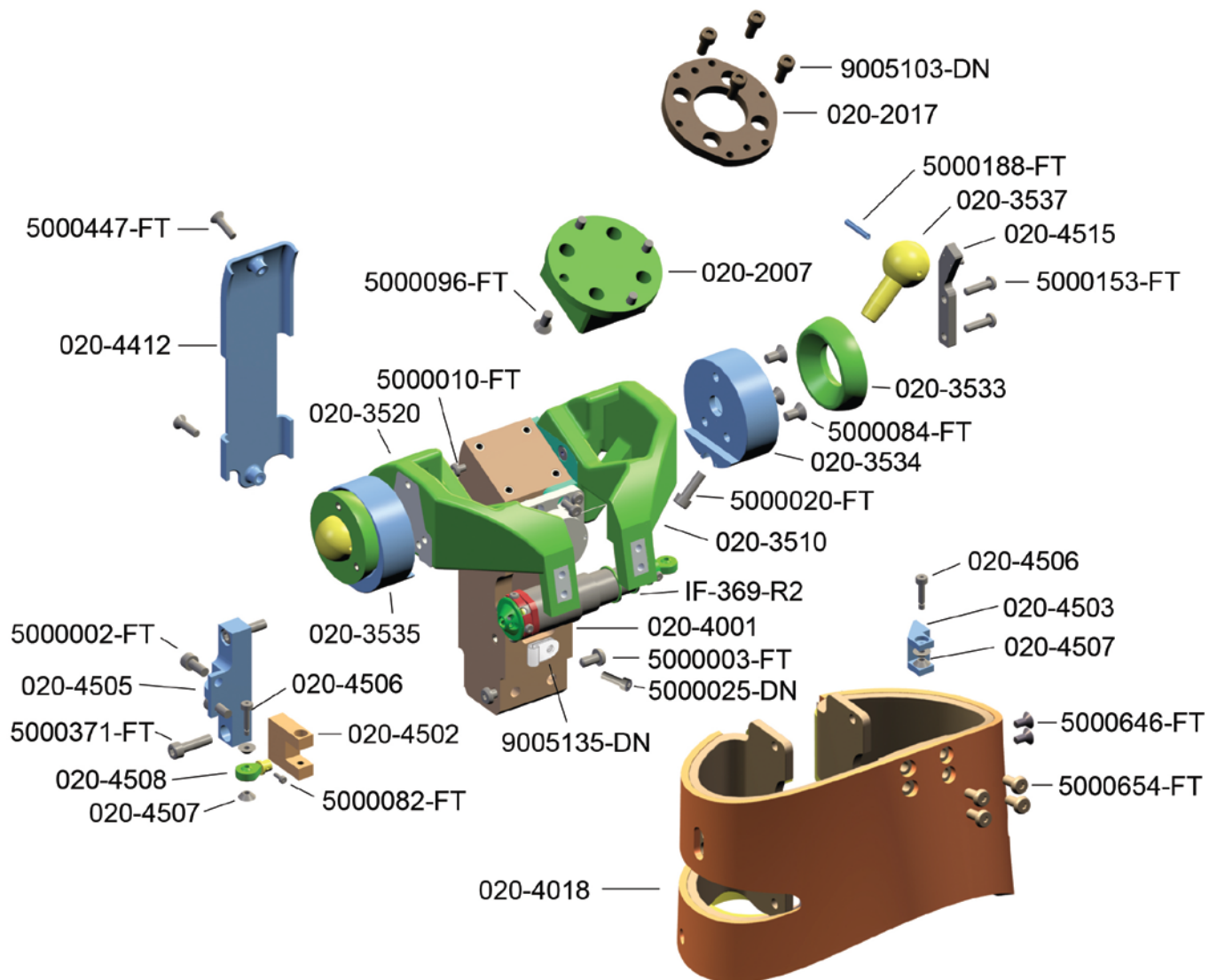


Part Number	Description	Qty. Req'd Per Dummy
020-1200	HEAD ASSY T/C, Q3S	1
020-1220	SKULL ASSY, FRONT, TEST/CERT, Q3S	1
020-1025	REAR SKULL CAP ASSY Q3	1
020-1013A	BRACKET ASSEMBLY, ACCEL Q3 HEAD	1
020-1013	BRACKET ASSY, HEAD ACCEL MOUNT	1
5000649-FT	SCREW SHCS M3 X 0.5 X 40	1
5000119-FT	SCREW SHCS M3 X 0.5 X 10	2
5000654-FT	SCREW BHCS M5 X 0.8 X 12	4
(020-2007)	LC STRUCTURAL REPLACEMENT (QB.CB)	1
(5000096-FT)	SCREW FHCS M5 X 0.8 X 12	4

Neck Assembly*Updated Design 2015*

<i>Part Number</i>	<i>Description</i>	<i>Qty. Req'd Per Dummy</i>
020-2400	NECK ASSEMBLY, T/C, Q3S	1
020-2401	NECK, MOLDED Q3S	1
020-2415	TENSION CABLE ASSEMBLY	1
020-2426	CABLE LOCK NUT	1
020-2421	CABLE ADJUST NUT	1
020-2423	PROTECTIVE SNAP CAP	1
9003280-FT	WASHER .032 THK, THRUST ROLLER BEARING	2
5000291-DN	M5 X 0.8 X 10 LG. SHCS	4
9003279-FT	BEARING THRUST 15/16 OD X 1/2 ID	1
(020-2400_toolkit)	NECK WRENCHES, CAP REMOVER Q3S	1

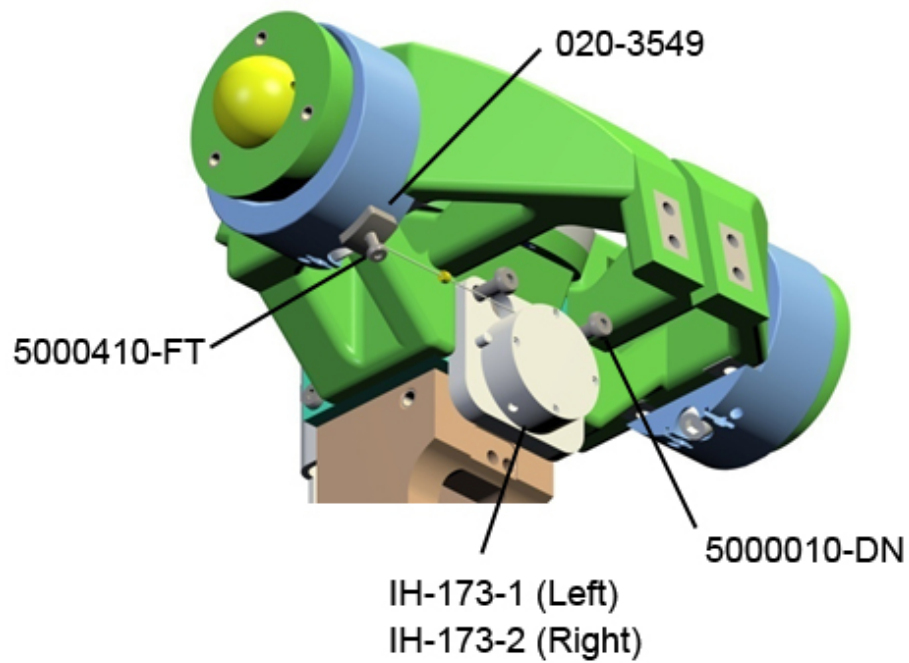
Torso Assembly



Part Number	Description	Qty. Req'd Per Dummy
020-4500	TORSO ASSY, SIDE IMPACT, T/C, Q3S	1
020-4001	SPINE, THORACIC (QB.EA)	1
020-2007	LC STRUCTURAL REPLACEMENT (QB.CB)	1
020-2017	NECK TORSO INTERFACE PLATE, Q3S	1
5000002-FT	SCREW SHCS M5 X 0.8 X 12	6
020-4018	RIB CAGE ASSY, T/C Q3S	1
5000003-FT	SCREW BHCS M5 X 0.8 X 10	4
5000096-FT	SCREW FHCS M5 X 0.8 X 12	8
020-4505	BRACKET 1, IRTRACC	1
5000371-FT	SCREW SHCS M5 X 0.8 X 20	2
020-4502	BRACKET 2, IRTRACC	1

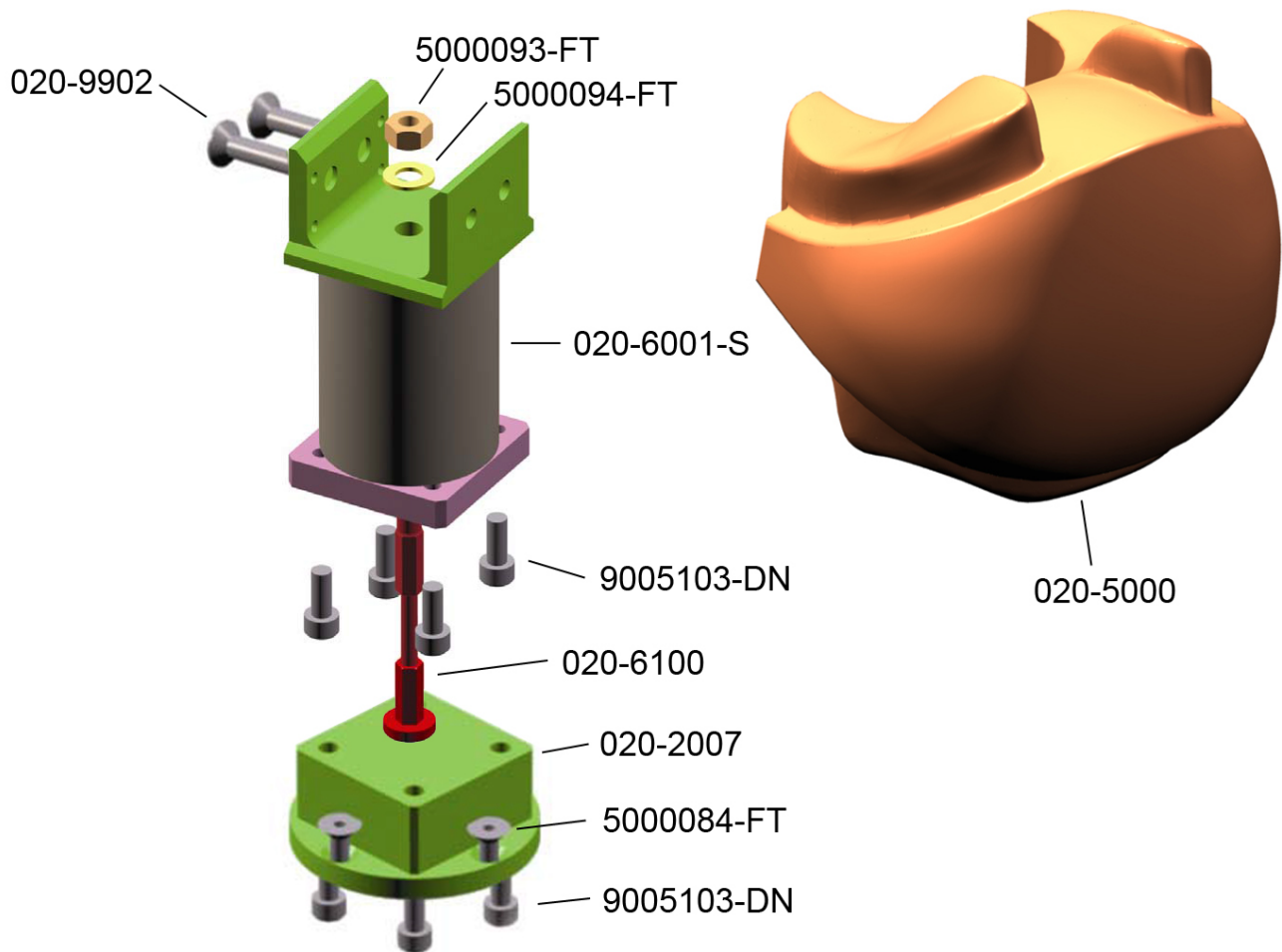
020-4507	CONE SPACER	4
020-4508	ROD END MOUNT, BASE END	1
020-4506	SCREW, SHOULDER, MODIFIED	2
5000082-FT	SCREW SHCS M2 X 0.4 X 6	1
020-3539	BRACKET, STRING POT, SHOULDER	1
5000010-FT	SCREW BHCS M4 X 0.7 X 10 18-8 SS	8
5000410-FT	SCREW BHCS M3 X 0.5 X 8	1
IF-369-R2	IRTRACC DISPLACEMENT SENSOR WSID5TH/QS	1
020-3510	SHOULDER ASSEMBLY, MOLDED, LEFT	1
020-3520	SHOULDER ASSEMBLY, MOLDED RIGHT	1
5000010-FT	SCREW BHCS M4 X 0.7 X 10 18-8 SS	6
020-4515	ACCEL ADAPTOR ASSEMBLY	1
5000153-FT	SCREW BHCS M4 X 0.7 X 16	2
5000654-FT	SCREW BHCS M5 X 0.8 X 12	4
020-3534	Q3S SHOULDER CUP , LEFT	1
5000084-FT	SCREW FHCS M5 X 0.8 X 10	6
020-3536	SHAFT, SHOULDER	2
5000020-FT	SCREW SHCS M5 X 0.8 X 16	2
020-3537	BALL, SHOULDER	2
5000188-FT	PIN COILED M3 X 18	2
020-3533	SHOULDER BALL RETAINER RING	2
020-4412	CABLE GUIDE	1
5000447-FT	SCREW FHCS M4 X 0.7 X 16 18-8 SS	2
020-4503	BRACKET, IRTRACC	1
5000646-FT	SCREW FHCS M4 X 0.7 X 8	2
020-3535	Q3S SHOULDER CUP , RIGHT	1
9005135-DN	CLAMP, NYLON LOOP, MCMASTER #8876T11	1
5000025-FT	SCREW SHCS M4 X 0.7 X 16	1

Shoulder String Pot



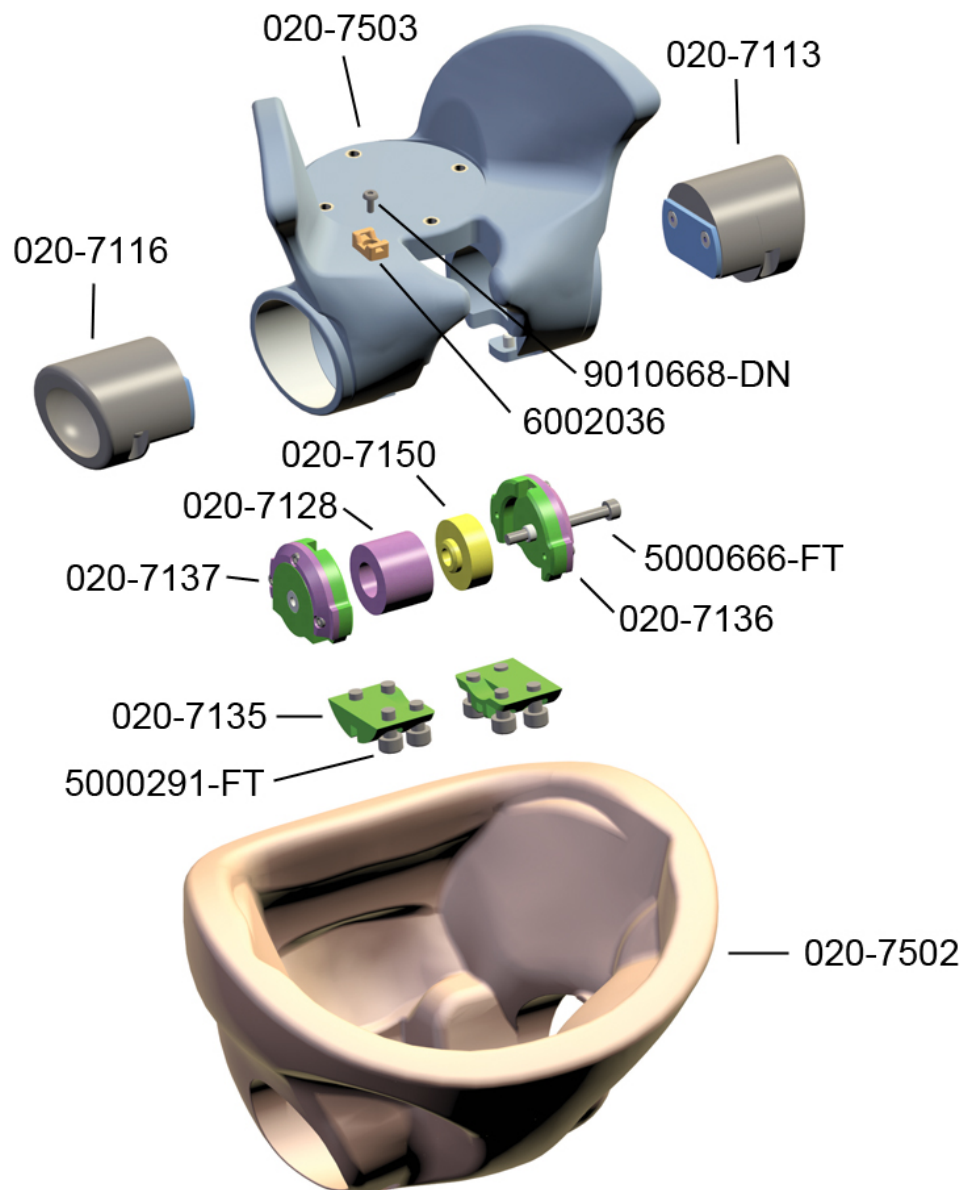
<i>Part Number</i>	<i>Description</i>	<i>Qty. Req'd Per Dummy</i>
020-4500	TORSO ASSY, SIDE IMPACT, T/C, Q3S (Con't)	1
020-3549	RETAINER, POT STRING	1
5000010-DN	9003047, SCREW, BHCS M4 X .7 X 10	2
5000410-FT	SCREW BHCS M3 X 0.5 X 8	1
IH-173-1	STRING POT ASSEMBLY, LEFT	1
IH-173-2	STRING POT ASSEMBLY. RIGHT	1

Lumbar and Abdomen



Part Number	Description	Qty. Req'd Per Dummy
020-6000-S	LUMBAR SPINE ASSEMBLY T/C, Q3S	1
020-6001-S	LUMBAR SPINE MOULDING T/C, Q3S	1
020-6100	CABLE	1
5000093-FT	NUT HEX NYLON INSERT M6 X 1 ZINC	1
5000094-FT	WASHER FLAT M6 (6.7 X 12.5 X 1) SS	1
020-9902	LUMBAR SPINE MOUNTING SCREW	2
020-2007	LC STRUCTURAL REPLACEMENT (QB.CB)	1
9005103-DN	SCREW, SHCS M5 X 12	8
5000084-FT	SCREW FHCS M5 X 0.8 X 10	4
020-5000	ABDOMEN T/C	1

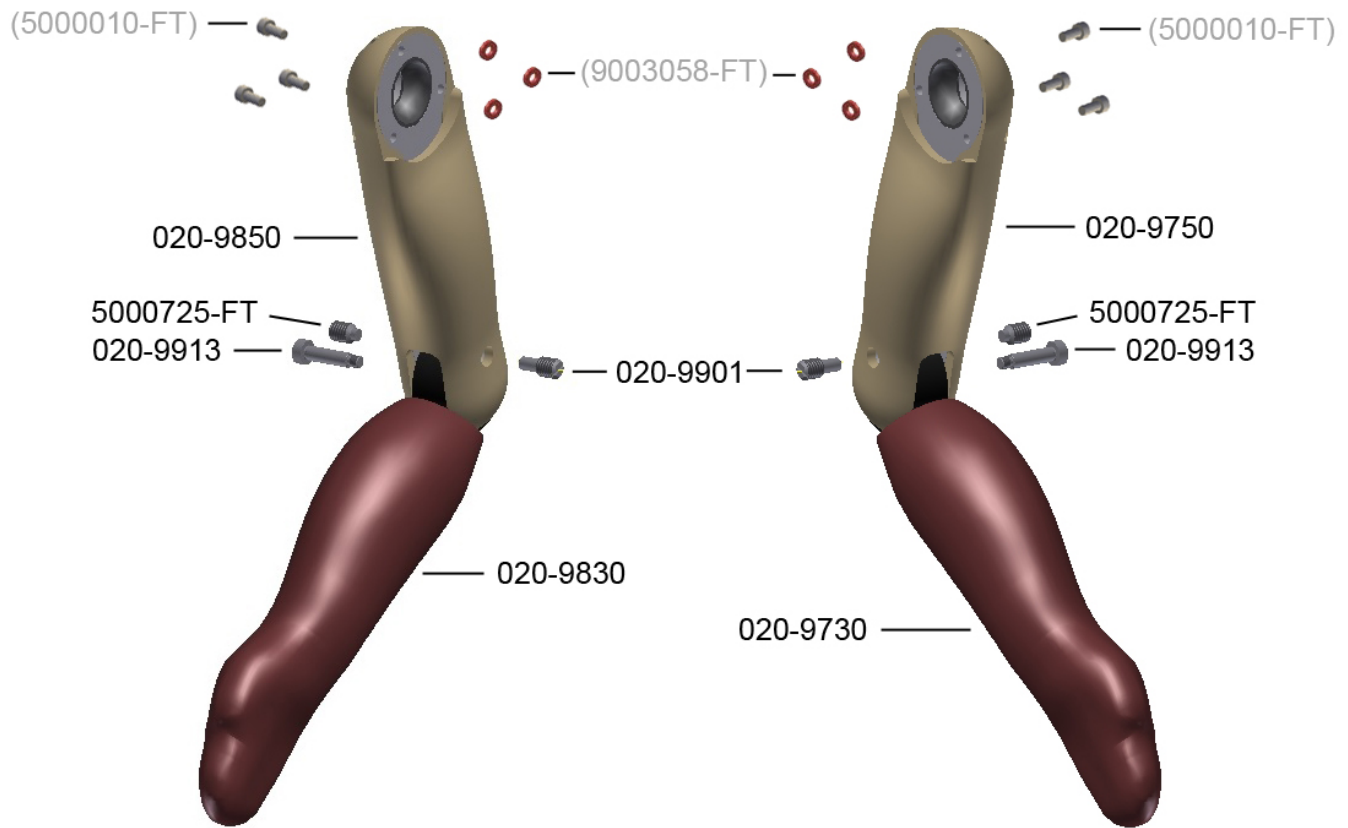
Pelvis



Part Number	Description	Qty. Req'd Per Dummy
020-4000	LOWER TORSO, Q3S	1
020-7500	PELVIS ASSY, T/C, Q3S	1
020-7503	PELVIC MACHINED, Q3S	1
020-7502	PELVIC SKIN Q3S	1
034-4110	LC ASSEMBLY, PUBIC - Q6S/Q3S	1
020-7136	HIP JOINT SLIDE ASSEMBLY	1
020-7150	LC PUBIC, STRUCTURAL REPLACEMENT	1
020-7128	PUBIC BUFFER MOLDED	1

020-7137	HIP JOINT SLIDE ASSEMBLY (SPACER SIDE)	1
5000666-FT	SCREW SHCS M4 X 0.7 X 40	1
5000666-FT	SCREW SHCS M4 X 0.7 X 40	1
020-7113	HIP JOINT ASSY, LEFT	1
020-7116	HIP JOINT ASSY, RIGHT	1
020-7135	HIPJOINT SLIDE, COVER	2
5000291-FT	SCREW SHCS M5 X 0.8 X 10	8
6002036	CABLE TIE MOUNT 4 SCREW NYLON	1
9010668-DN	SCREW, BHCS M2.5 X .045 X 6	1

Arms

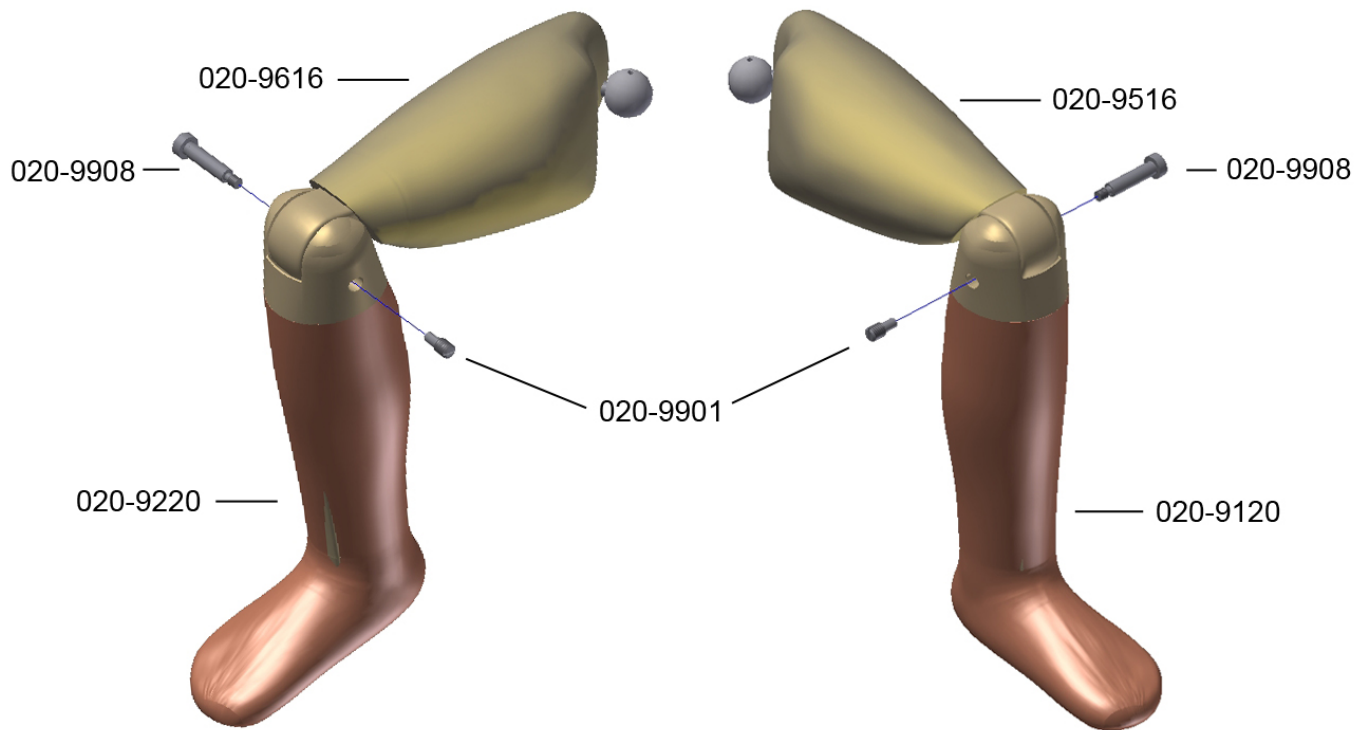


Part Number	Description	Qty. Req'd Per Dummy
020-9700	LEFT ARM ASSY, Q3S	1
020-9750	UPPER ARM MOLDED - LEFT, Q3S	1
020-9730	LOWER ARM ASSY, LEFT - Q3S	1
020-9913	SHOULDER SCREW - MODIFIED, ELBOW Q3S	1
020-9901	STOP SCREW	1
5000725-FT	SCREW SSNP M8 X 1.25 X 12 NYLON TIP	1
020-9800	RIGHT ARM ASSY, Q3S	1
020-9850	UPPER ARM MOLDED - RIGHT, Q3S	1
020-9830	LOWER ARM ASSY, RIGHT - Q3S	1
020-9913	SHOULDER SCREW - MODIFIED, ELBOW Q3S	1
020-9901	STOP SCREW	1
5000725-FT	SCREW SSNP M8 X 1.25 X 12 NYLON TIP	1

Attachment hardware to shoulder:

5000010-FT	SCREW BHCS M4 X 0.7 X 10 18-8 SS	3
9003058-FT	WASHER FLAT #8 RUBBER (.15 IDX.31 X.062)	3

Legs



Part Number	Description	Qty. Req'd Per Dummy
020-9500	LEFT LEG ASSY, Q3S	1
020-9516	UPPER LEG MOLDED, LEFT	1
020-9120	LOWER LEFT LEG ASSY, Q3S	1
020-9901	STOP SCREW	1
020-9908	SHOULDER BOLT MODIFIED	1
020-9600	RIGHT LEG ASSY, Q3S	1
020-9616	UPPER LEG MOLDED, RIGHT	1
020-9220	LOWER RIGHT LEG ASSY, Q3S	1
020-9901	STOP SCREW	1
020-9908	SHOULDER BOLT MODIFIED	1

Accelerometer Mounts

Mount Kits

Accelerometer Type	Complete Dummy	Components		
		Head	Thorax	Pelvis
Endevco 7264-2000 7264C-2000	1032448	1032470	1032471	1032471
7264A 7264B EGAS-FS-50	1032449	1032469	1032472	1032472
7264 7264C ASM-200BA 126M/CM (qty 3) & DTS ARS Sensor Series in the head	1032506	1032489	1032471	1032471
7264A 7264B EGAS-FS-50 (qty 3) & DTS ARS Sensor Series (qty 3) in the head	1032538	1032488	1032472	1032472
7264 7264C ATA ARS-06S (qty 3) in head	1032541	1032490	1032471	1032471
7264 7264C (qty 3) & DTS ARS Sensor Series in the head and chest	1032522	1032519	1032520	1032521

Uni-Axial (Mount Reference)

Accelerometer Type	Location			
	Head Mount (only Uni-Axial Accels) (020-1013)	Head Mount for ATA Sensors (020-1014)	Thorax	Pelvis
ENTRAN EGAS-FS-50	I.AD	I.AD	I.AO	I.AD
KYOWA ASM-200BA	020- 1017	020-1017	I.AN	I.AM
ENDEVCO 7264-2000, 7264C-2000	020-1017	020-1017	I.AN	I.AM
ENDEVCO 7264A-2000, 7264B-2000	I.AD	I.AD	I.AO	I.AD
MSC 126M/CM	020- 1018	020-1018	I.AN	I.AM

Tri-Axial and Uni-Axial (Mount Reference)

Accelerometer Type	Location			
	Head Mount (only uni- Axial Accels)	Head Mount for ATA Sensors	Thorax	Pelvis
ENDEVCO 7267A-1500 Triaxial & 7264A Uni-axial		Not available	Use Endevco Mount base	Use Endevco Mount base
ENDEVCO 7267A-1500 Triaxial & 7264C-2000 Uni-axial		Not available	Use Endevco Mount base	Use Endevco Mount base

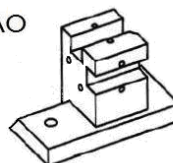
I.AD



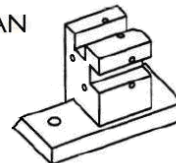
I.AM



I.AO



I.AN



Tilt Sensor Mounts

Tilt Sensor Type	Mount Kit	Location		
		Head	Chest Mount	Pelvis
IES1402	1032549	Not available	020-4517	Not available
IES1402 with ARS	1034528	Not available	020-4516	Not available

Clothes / Misc.

Part Number	Description	Qty. Req'd Per Dummy
020-8001	SUIT Q3S	1
020-9900	USER MANUAL Q3S	1
020-2400_toolkit	NECK WRENCHES, CAP REMOVER Q3S	1