

Q10 Euro NCAP 2020 Child Dummy

(Advanced 10.5 year old child)

Spare Parts Catalog – 012-0000





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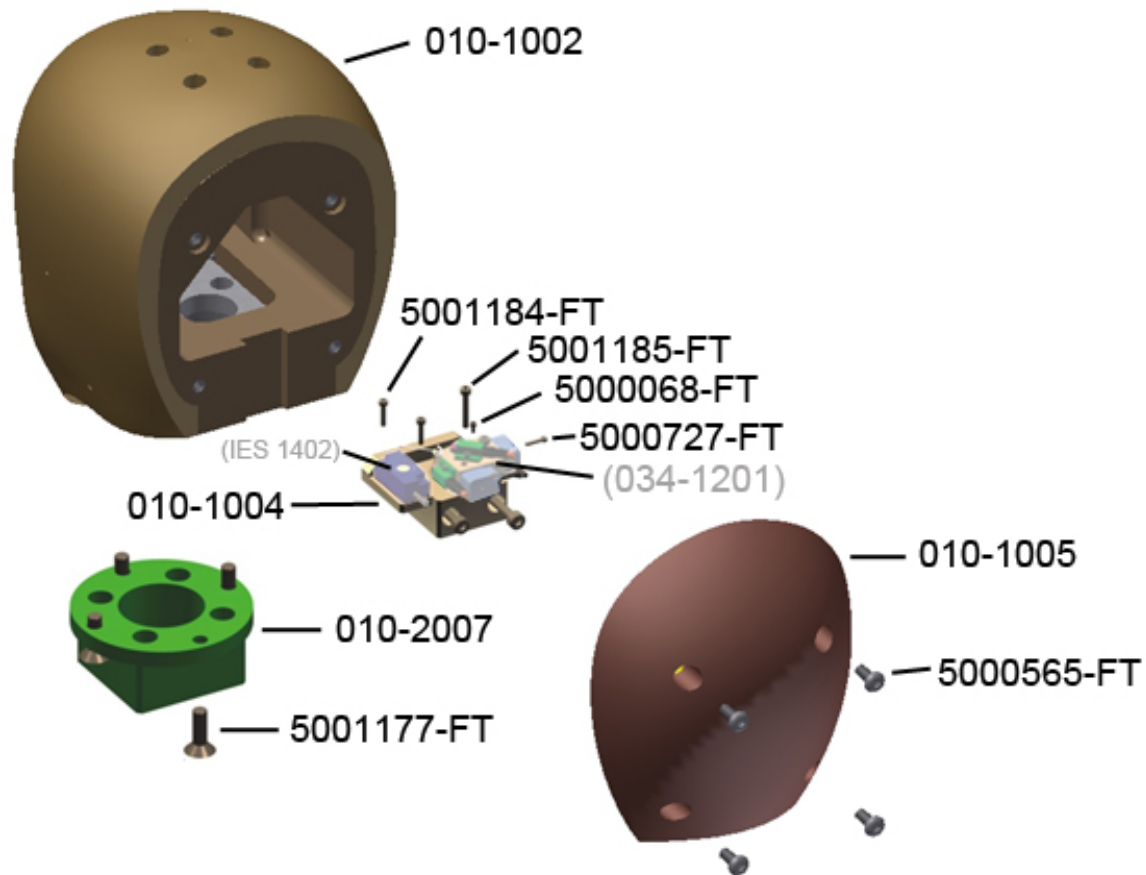
*Red part numbers denote Euro NCAP 2020 unique components

Background

After Euro NCAP began using the Q10 in their protocol in January 2016, they soon identified a need to improve the shoulder belt stability. This led Humanetics to continue the refinement of the Q10 which led to an upgraded design in 2017. By the end of 2017, one fully instrumented Q10 dummy with two prototype upgrade kits were delivered and tested by various industry partners.

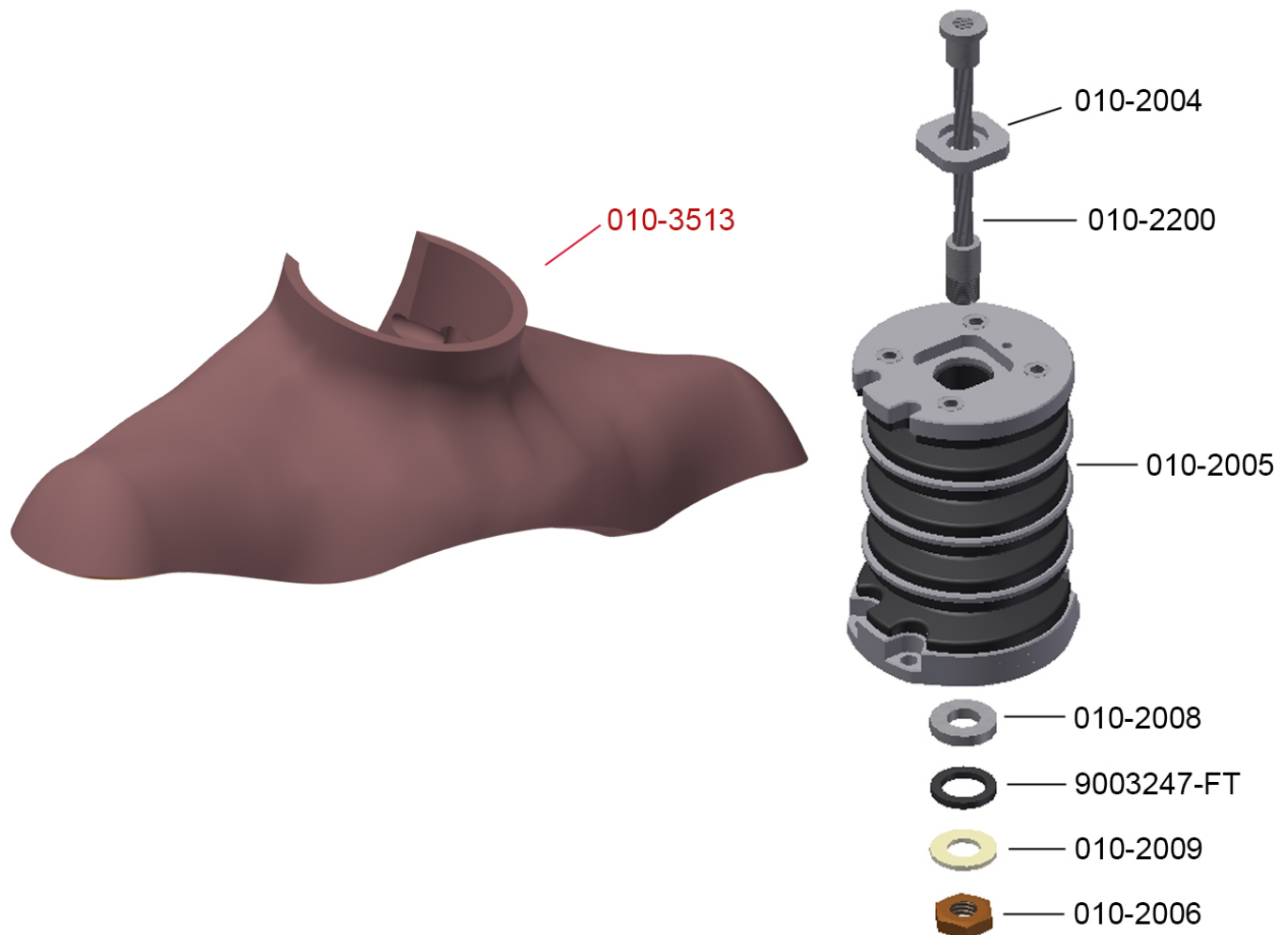
The feedback of these tests on the 2017 upgrades indicated that the new shoulder design, although effective, made it difficult to identify potential poor belt geometry. As a result, the Euro NCAP Child WG issued a set of new Q10 design requirements, and announced on September 20th, 2018 that these final updates will be applied in the Euro NCAP 2020 test protocols.

Head Assembly



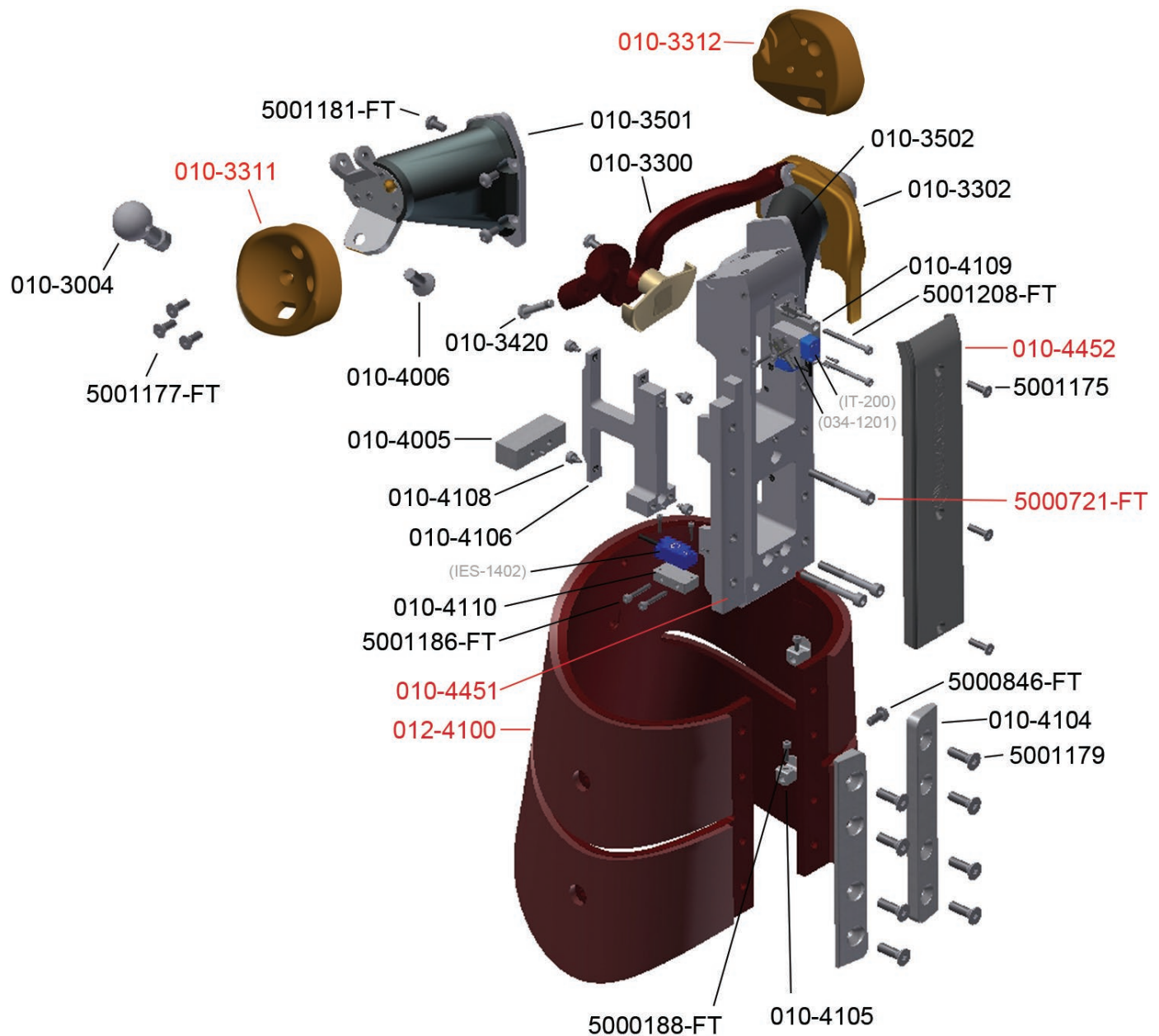
Part Number	Description	Qty. Req'd Per Dummy
010-1000	HEAD ASSEMBLY, Q10	1
010-1002	SKULL ASSEMBLY, Q10	1
010-1005	SKULL CAP ASSEMBLY, Q10	1
010-1004	ACCELEROMETER MOUNTING BRACKET, Q10	1
010-2007	LOAD CELL STRUCTURAL REPLACEMENT, Q10	1
5001189-FT	SCREW SHCS M4 X 0.7 X 20 ZINC	2
5001185-FT	SCREW SHCS M2.5 X 0.45 X 16 ZINC	2
5000068-FT	SCREW SHCS M1.4 X 0.3 X 3	6
5000727-FT	SCREW SHCS M1.4 X 0.3 X 8	6
5001177-FT	SCREW FHCS M5 X 0.8 X 14 ZINC	4
5001184-FT	SCREW SHCS M2 X 0.4 X 10 ZINC	2
5000565-FT	SCREW BHCS M5 X 0.8 X 12 18-8 SS	4

Neck Assembly



Part Number	Description	Qty. Req'd Per Dummy
010-2000	NECK ASSEMBLY, T/C Q10	1
010-2005	MOLDED NECK, Q10	1
010-2008	SPACER, CABLE, Q10	1
010-2009	NYLON WASHER, Q10	1
9003247-FT	WASHER WAVE SPRNG (.53 X .376 X .09)	1
010-2004	NECK CABLE BUSHING, Q10	1
010-2200	NECK CABLE ASSEMBLY, Q10	1
010-2006	RETAINING NUT, Q10	1
010-2010	NECK INTERFACE ASSEMBLY, Q10	1
010-3513	SHOULDER LINER 2020	1

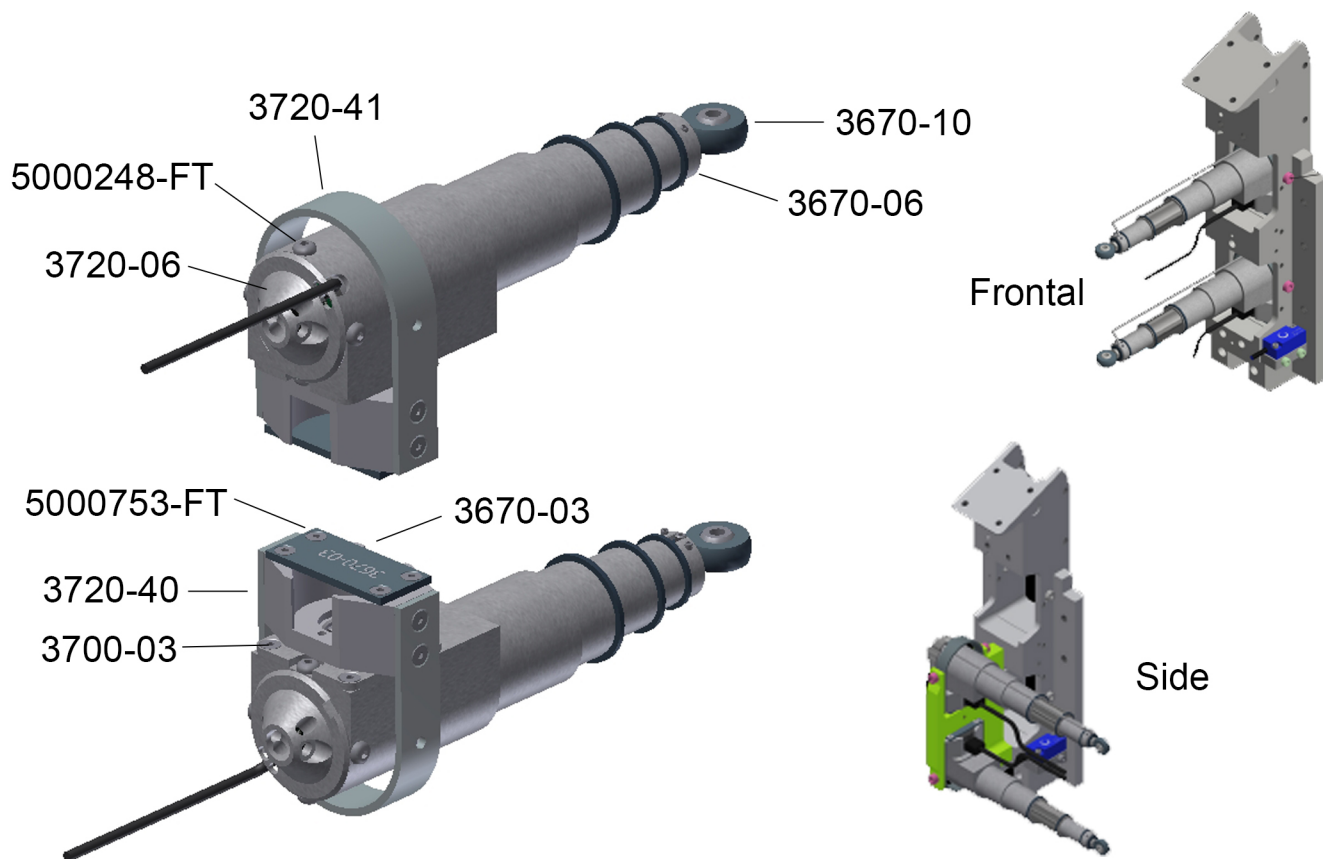
Torso Assembly



Part Number	Description	Qty. Req'd Per Dummy
010-4000	THORAX ASSEMBLY, Q10	1
012-4100	RIB CAGE ASSEMBLY, Q10 2020	1
010-4451	SPINEBOX, Q10	1
010-4104	SPINE RAIL, Q10	2
5001179-FT	SCREW FHCS M6 X 1.0 X 20 ZINC	8
010-4106	SIDE IMPACT, IRTACC MOUNT, Q10	1
010-4108	PIVOT SCREW, Q10	4
5000721-FT	M5 X 0.8 X 25 LG. SHCS	3

010-4105	IRTRACC ADAPTER	2
5000846-FT	SCREW BHCS M5 X 0.8 X 12, ZINC PLATED	3
5001175-FT	SCREW FHCS M4 X 0.7 X 16 ZINC	3
010-3501	MOLDED SPINE INTERFACE ASSEMBLY LEFT,Q10	1
010-3502	MOLDED SPINE INTERFACE ASS'Y, RIGHT, Q10	1
010-3311	SHOULDER JOINT HOUSING 2020, LEFT	1
010-3312	SHOULDER JOINT HOUSING 2020, RIGHT	1
5001181-FT	SCREW BHCS M5 X 0.8 X 10 ZINC	8
5001177-FT	SCREW FHCS M5 X 0.8 X 14 ZINC	6
010-3004	SHOULDER BALL ASSEMBLY, Q10	2
010-3003	SHOULDER SHAFT, Q10	2
010-3300	CLAVICAL, Q10	1
010-3420	CLAVICLE PIN, Q10	2
010-4200	CLAVICLE RETAINER, Q10	1
5001208-FT	SCREW SHCS M3 X 0.5 X 35 ZINC	2
5001186-FT	SCREW SHCS M3 X 0.5 X 20 ZINC	2
5000188-FT	PIN COILED M3 X 18	2
010-4005	BALLAST, Q10	1
010-4109	MOUNT, UPPER THORAX, Q10	1
010-4110	BRACKET, THORAX TILT SENSOR, Q10	1
5001184-FT	SCREW SHCS M2 X 0.4 X 10 ZINC	2
5000719-FT	PIN ROLL M5 X 24	2
034-1201	MOUNT-HEAD/PELVIS,ARS/7264-2000	1
5001176-FT	SCREW FHCS M5 X 0.8 X 12 ZINC	4
5001173-FT	SCREW SHCS M5 X 0.8 X 10 ZINC	16
5001185-FT	SCREW SHCS M2.5 X 0.45 X 16 ZINC	2
5000727-FT	SCREW SHCS M1.4 X 0.3 X 8	6
5001188-FT	SCREW SHCS M4 X 0.7 X 16 ZINC	2
010-4006	SCREW, FHCS M8X1.25X20 BZP 10.9 THD. LOC	2
5001207-FT	SCREW SHCS M6 X 1.0 X 55 PART THD ZINC	2
010-4452	BACK PLATE 2020	1

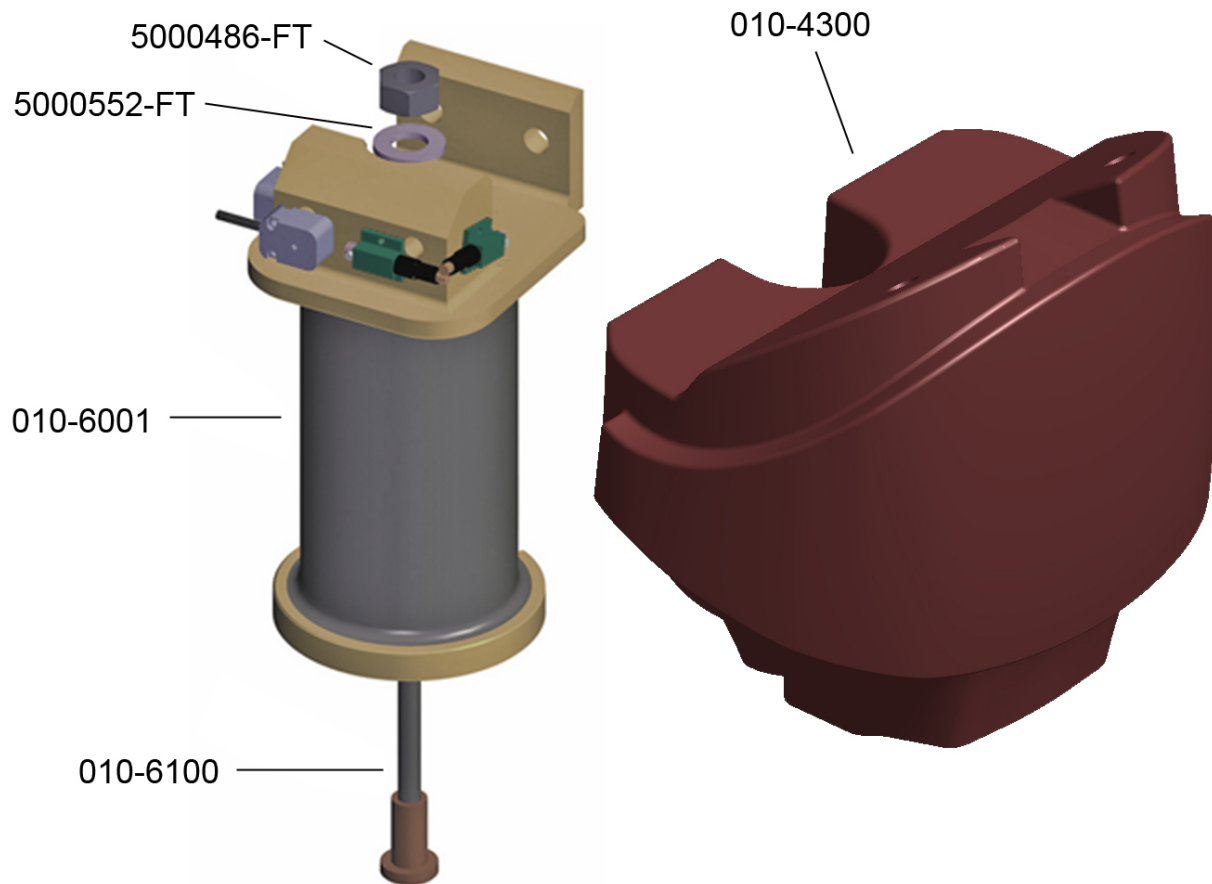
IR-TRACC Mounting



Part Number	Description	Qty. Req'd Per Dummy
010-4000	THORAX ASSEMBLY, Q10 (Con't)	1
(3720-00)*	IRTRACC ASSEMBLY, Q10	1
3720-41	GIMBAL RING	1
3720-40	POTENTIOMETER MOUNT	1
3670-03	COVER, POTENTIOMETER	1
3720-06	END CAP	1
3700-03	POTENTIOMETER BASE	1
3670-10	BALL JOINT	1
3670-06	BALL JOINT ADAPTOR	1
5000753-FT	SCREW FHCS M2 X 0.4 X 5	15
5000248-FT	SCREW BHCS M2.5 X 0.45 X 3	4
3700-11	POTENTIOMETER CABLE ASSY (NOT SHOWN)	1

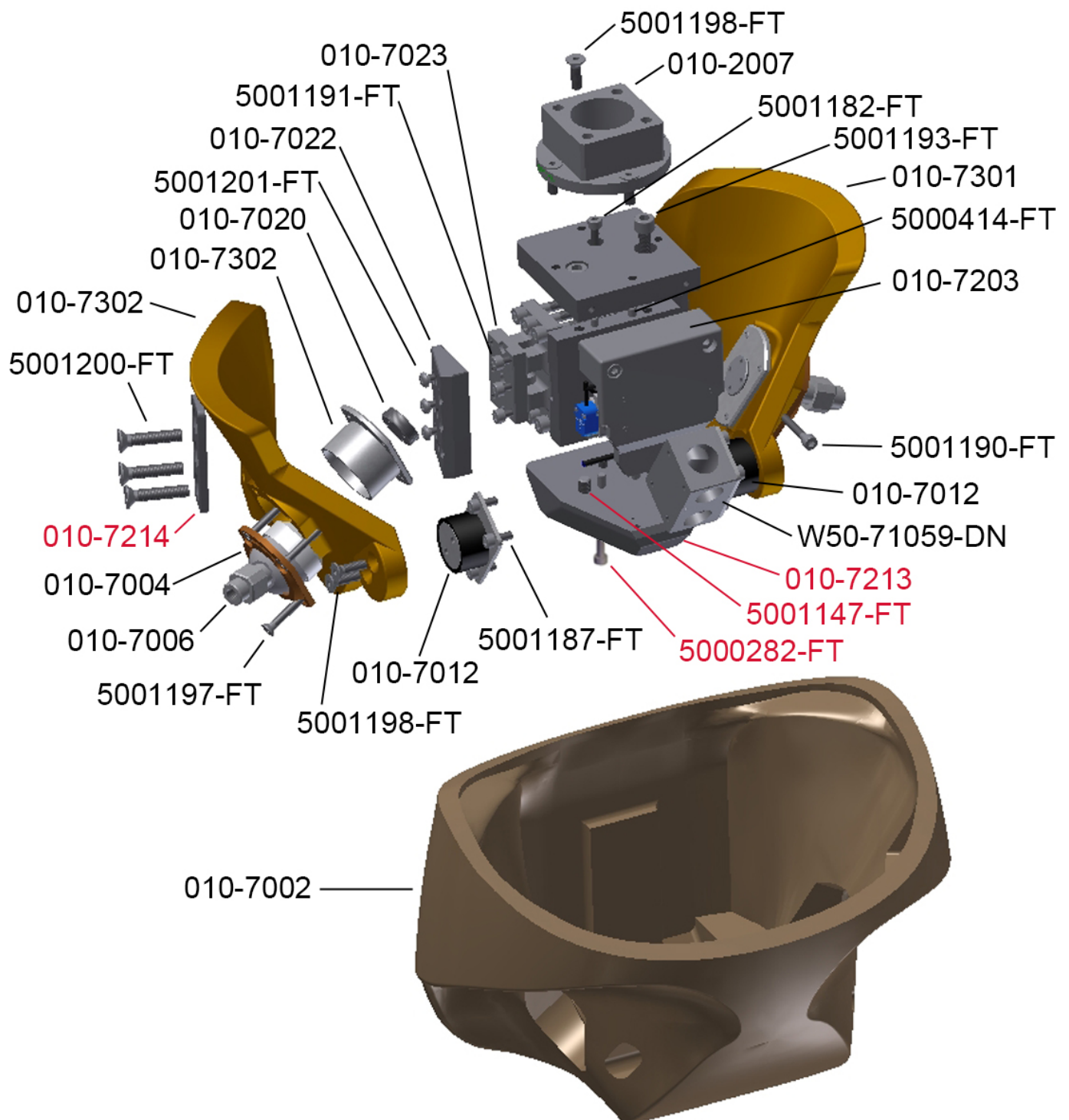
*Reference only - IR-TRACC not included in standard dummy build.

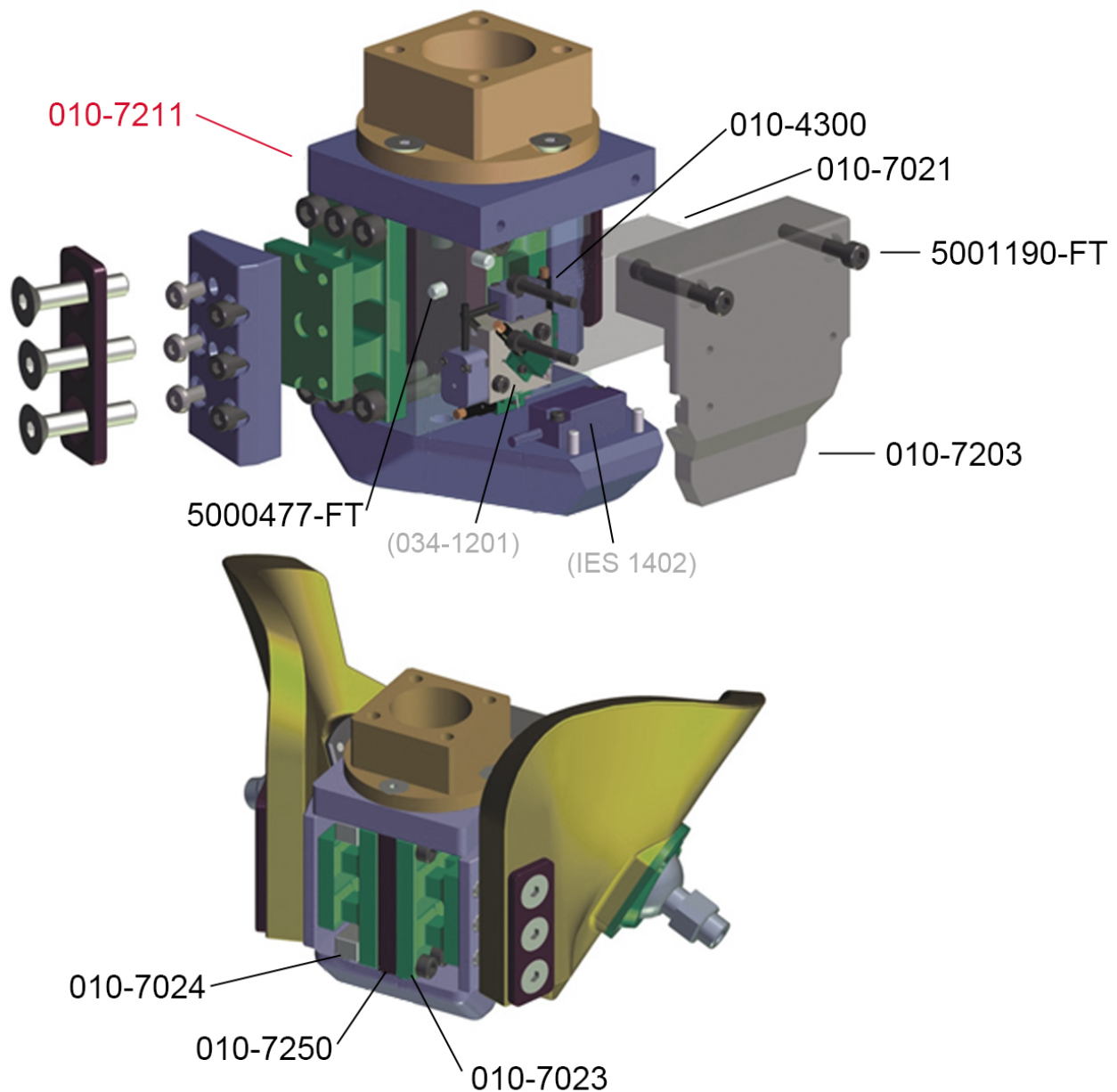
Lumbar and Abdomen



<i>Part Number</i>	<i>Description</i>	<i>Qty. Req'd Per Dummy</i>
010-6000	LUMBAR SPINE ASSEMBLY, T/C Q10	1
010-6001	LUMBAR SPINE, MOLDED Q10 TESTED	1
010-6100	LUMBAR SPINE CABLE ASSEMBLY, Q10	1
5000552-FT	WASHER FLAT M8 (8.4 X 16 X 1.6) ZINC	1
5000486-FT	NUT HEX NYLON INSERT M8 X 1.25 ZINC	1
010-4300	ABDOMEN, Q10	1

Pelvis Assembly

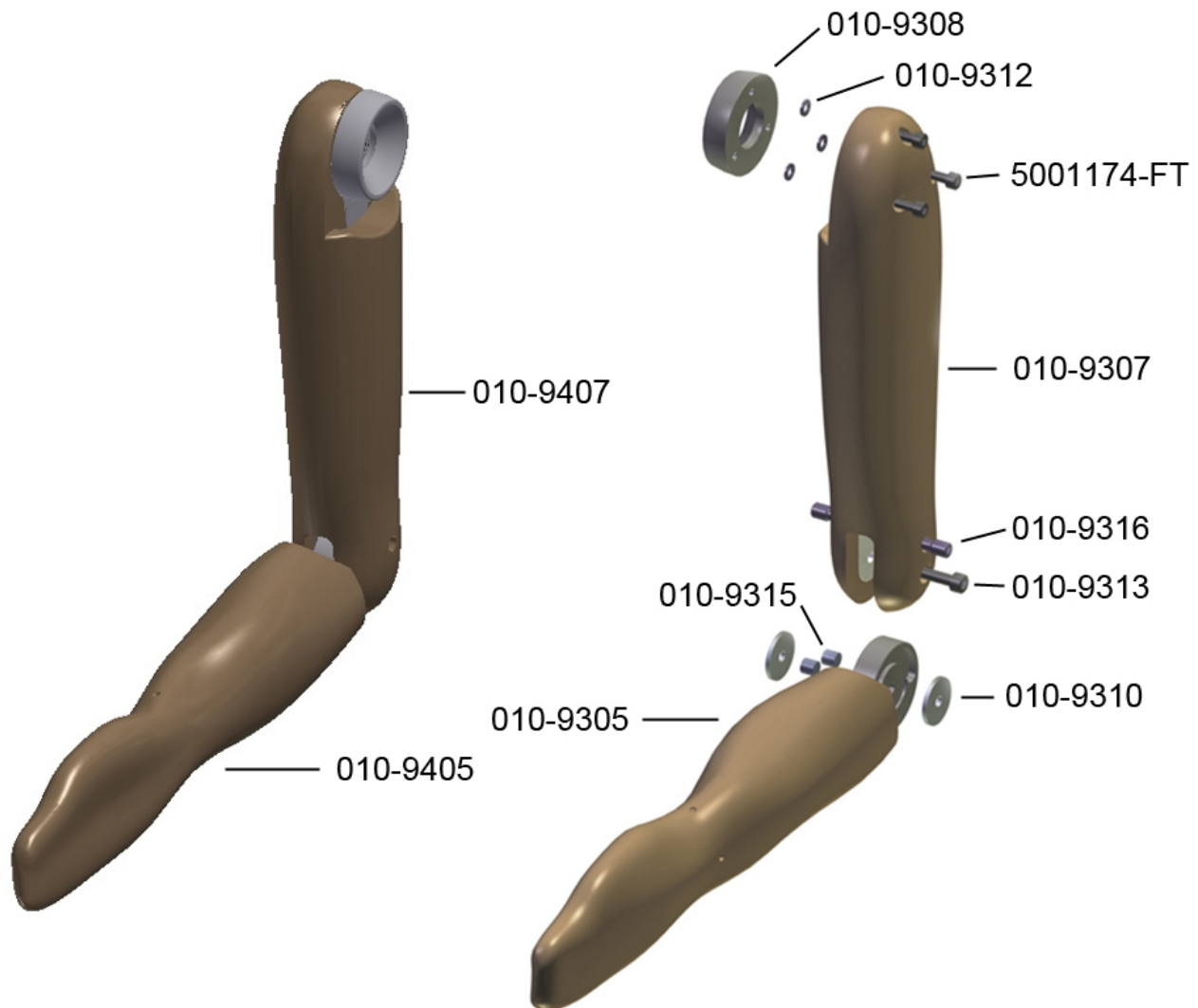




Part Number	Description	Qty. Req'd Per Dummy
010-7000	PELVIS ASSEMBLY, Q10	1
010-7302	ILIAC WING, RIGHT, Q10	1
010-7301	ILIAC WING, LEFT, Q10	1
010-7002	PELVIS FLESH, Q10	1
010-7003	HIP CUP, Q10	2
010-7005	HIP BEARING, Q10	2
010-7004	HIP BALL RETAINING PLATE, Q10	2
010-7006	FEMUR BALL ASSEMBLY, Q10	2
010-7214	RETAINING PLATE 2020, PELVIS BONE	2

010-7211	SACRUM TOP PLATE 2020	1
010-7213	SACRUM BOTTOM PLATE 2020	1
010-7203	SACRUM, FRONT PLATE, Q10	1
010-7251	SACRUM CENTRAL SUPPORT, FRONT, Q10	1
010-7252	SACRUM CENTRAL SUPPORT, REAR, Q10	1
5001197-FT	SCREW FHCS M4 X 0.7 X 25 ZINC	8
010-7012	PUBIC BUFFER MOLDED, Q10	2
W50-71059-DN	STRUCT. REPL. PUBIC LOAD C.	1
5001198-FT	SCREW FHCS M5 X 0.8 X 16 ZINC	8
5001187-FT	SCREW SHCS M4 X 0.7 X 10 ZINC	8
5001191-FT	SCREW SHCS M4 X 0.7 X 8 ZINC	6
5001201-FT	SCREW BHCS M4 X 0.7 X 8 ZINC	6
010-2007	LOAD CELL STRUCTURAL REPLACEMENT, Q10	1
5001200-FT	SCREW FHCS M6 X 1.0 X 30 ZINC	6
5000414-FT	PIN DOWEL M4 X 10	4
5001190-FT	SCREW SHCS M4 X 0.7 X 25 ZINC	2
5001193-FT	SCREW SHCS M6 X 1.0 X 16 ZINC	2
5001192-FT	SCREW SHCS M5 X 0.8 X 35 ZINC	6
5001186-FT	SCREW SHCS M3 X 0.5 X 20 ZINC	3
5000477-FT	PIN DOWEL M4 X 16	1
5001182-FT	SCREW SHCS M4 X 0.7 X 12 ZINC	1
5001147-FT	M4 X 0.7 X 18 LG. SHCS	1
5000282-FT	M6 X 1 X 22 LG. SHCS	2
010-7022	LC, INTERFACE SACRO ILIAC Q10	2
010-7023	LC, S. R. INTERFACE SACRO ILIAC Q10	2
010-7250	SACRUM CENTRAL SUPPORT ASSEMBLY, Q10	1
010-7024	PLATE, NUT, Q10	2
010-7021	BALLAST, PELVIS, DAS, Q10	2
010-7020	HIP ADJUSTER	2

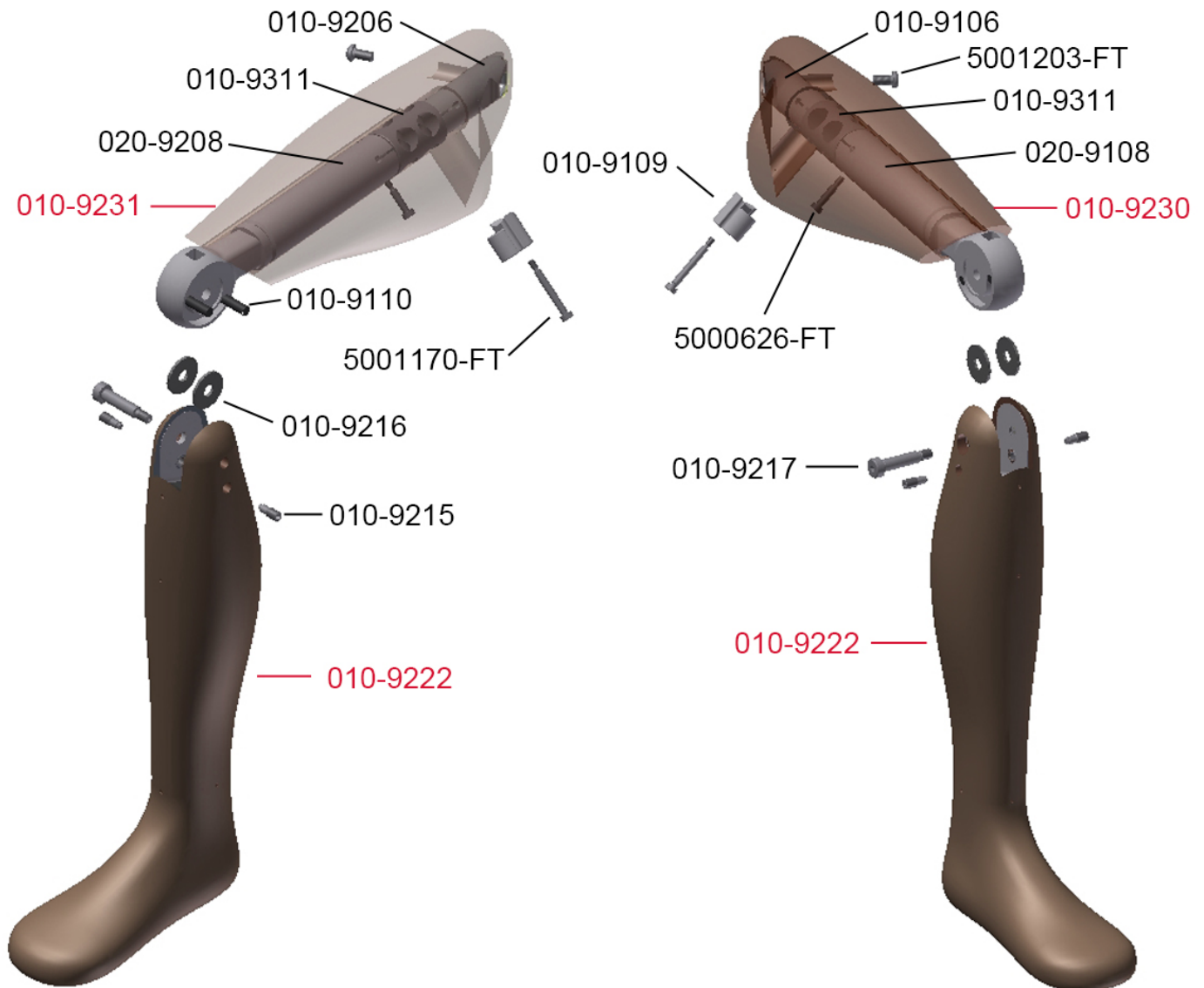
Arms



Part Number	Description	Qty. Req'd Per Dummy
010-9300	ARM ASSEMBLY, LEFT, Q10	1
010-9301	UPPER ARM ASSEMBLY, LEFT, Q10	1
010-9307	UPPER ARM, MOLDED, LEFT, Q10	1
010-9313	SCREW,SHCS MODIFIED M6 X 26, Q10	2
5001174-FT	SCREW SHCS M5 X 0.8 X 12 ZINC	6
010-9316	SCREW,SSNT M8X16 MODIFIED	4
010-9312	UPPER ARM WASHER, Q10	6
010-9308	SHOULDER BALL RETAINER RING, Q10	2
010-9302	LOWER ARM ASSEMBLY, LEFT, Q10	1
010-9305	LOWER ARM, MOLDED, LEFT, Q10	1
010-9315	END STOP, ELBOW, Q10	4
010-9310	WASHER, LOWER ARM, Q10	4

010-9400	ARM ASSEMBLY, RIGHT, Q10	1
010-9401	UPPER ARM ASSEMBLY, RIGHT, Q10	1
010-9407	UPPER ARM, MOLDED, RIGHT, Q10	1
010-9313	SCREW,SHCS MODIFIED M6 X 26, Q10	2
5001174-FT	SCREW SHCS M5 X 0.8 X 12 ZINC	6
010-9316	SCREW,SSNT M8X16 MODIFIED	4
010-9312	UPPER ARM WASHER, Q10	6
010-9308	SHOULDER BALL RETAINER RING, Q10	2
010-9402	LOWER ARM ASSEMBLY, RIGHT, Q10	1
010-9405	LOWER ARM, MOLDED, RIGHT, Q10	1
010-9315	END STOP, ELBOW, Q10	4
010-9310	WASHER, LOWER ARM, Q10	4

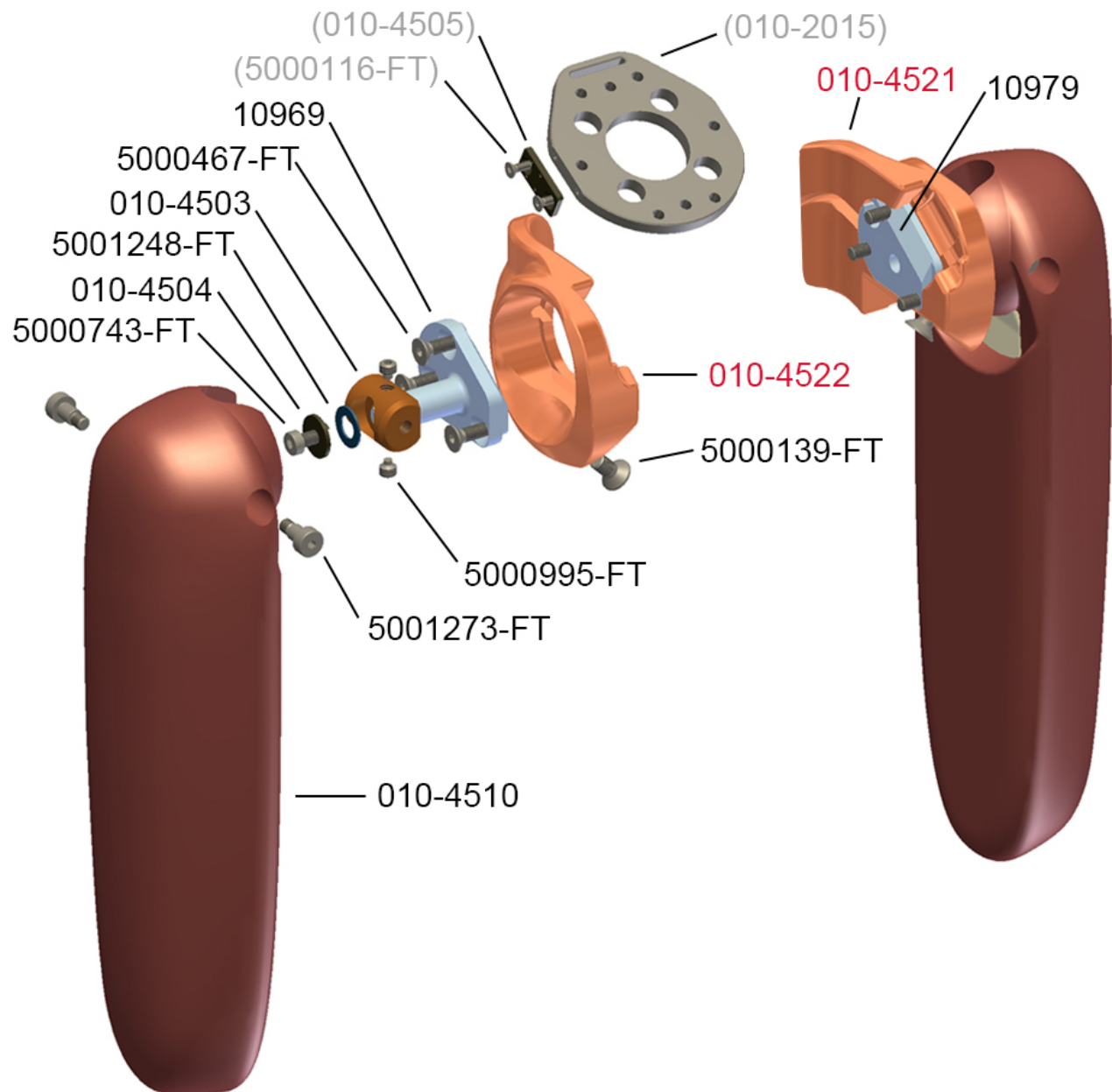
Legs



Part Number	Description	Qty. Req'd Per Dummy
010-9100	LEG ASSEMBLY, LEFT, Q10	1
010-9101	UPPER LEG ASSEMBLY, LEFT, Q10	1
010-9230	UPPER LEG FLESH 2020, LEFT	1
010-9106	FEMUR BONE, LEFT, Q10	1
010-9311	FEMUR LOAD CELL STRUCT. REPLACEMENT, Q10	1
010-9108	UPPER LEG WELDMENT, LEFT	1
010-9109	INSERT, FLESH RESTRAINT, Q10	1
5000626-FT	SCREW SHSS M6 X 20 (M5 X 0.8 THREAD)	1
5001203-FT	SCREW BHCS M8 X 1.25 X 16 ZINC	1
010-9110	KNEE BUFFER, Q10	1

5001170-FT	SCREW SHSS M6 X 40 (M5 X 0.8 THREAD) SS	1
010-9202	LOWER LEG ASSEMBLY, Q10	1
010-9217	SCREW, SHSS M10X35 MODIFIED	1
010-9215	SCREW, SSNT MODIFIED M8 X20, Q10	2
010-9216	WASHER, KNEE, SPACER Q10	2
010-9200	LEG ASSEMBLY, RIGHT, Q10	1
010-9201	UPPER LEG ASSEMBLY, RIGHT, Q10	1
010-9231	UPPER LEG FLESH 2020, RIGHT	1
010-9206	FEMUR BONE, RIGHT, Q10	1
010-9311	FEMUR LOAD CELL STRUCT. REPLACEMENT, Q10	1
010-9208	UPPER LEG WELDMENT, RIGHT	1
010-9109	INSERT, FLESH RESTRAINT, Q10	1
5000626-FT	SCREW SHSS M6 X 20 (M5 X 0.8 THREAD)	1
5001203-FT	SCREW BHCS M8 X 1.25 X 16 ZINC	1
010-9110	KNEE BUFFER, Q10	1
5001170-FT	SCREW SHSS M6 X 40 (M5 X 0.8 THREAD) SS	1
010-9222	LOWER LEG FLESH 2020	2
010-9217	SCREW, SHSS M10X35 MODIFIED	1
010-9215	SCREW, SSNT MODIFIED M8 X20, Q10	2
010-9216	WASHER, KNEE, SPACER Q10	2

Side Impact Shoulder Kit



Part Number	Description	Qty. Req'd Per Dummy
010-4500	Q10 SIDE IMPACT KIT ASSEMBLY	1
5001273-FT	SCREW SHSS M6 X 7 (M5 X 0.8 THREAD) SS	4
10969	STRUCTURAL REPLACE Q10 RH SHOULDER	1
10979	STRUCTURAL REPLACE, Q10 LH SHOULDER	1
010-4510	ARM ASSY MOLDING - SIDE IMPACT	2
5000467-FT	SCREW FHCS M5 X 0.8 X 16	6
5000995-FT	SCREW SSNT M6 X 6 NYLON TIP	4

5000139-FT	SCREW FHCS M6 X 1 X 12	2
5000743-FT	SCREW LHCS M5 X 0.8 X 8	2
010-4504	SHOULDER WASHER - SIDE IMPACT	2
010-4503	SHOULDER PIVOT - SIDE IMPACT	2
010-4521	SHOULDER JOINT HOUSING 2020 LEFT, SIDE IMPACT	1
010-4522	SHOULDER JOINT HOUSING 2020 RIGHT, SIDE IMPACT	1
(010-2015)	NECK TO TORSO INTERFACE PLATE, Q10	1
(010-4505)	T1 ACCEL MOUNT	1
(5000116-FT)	SCREW FHCS M3 X 0.5 X 8	2

Accelerometer Mounts

Mount Kits

Accelerometer Type	Complete Dummy	Components		
		Head	Thorax	Pelvis
Endevco				
7264 7264C ASM-200BA 126M/CM (qty 3) & DTS ARS Sensor Series (qty 3)	1032533	1032489	1032489	1032489
7264A/B EGAS-FS-50	1032543	1032500	1032500	1032500
7264A 7264B EGAS-FS-50 with DTS ARS Sensor Series (qty 3)	1032544	1032539	1032539	1032539
7264C, EGAS-FS-50 without DTS ARS	1032545	1032540	1032540	1032540

Clothes / Misc.

Part Number	Description	Qty. Req'd
010-8000	SUIT, Q10	1
010-8010	HIP SHIELD SET W/VELCRO Q10	1
012-9900	USER MANUAL Q10 2020	1
6004300	SPA-2 RED PIN SPANNER	1
010-4450	Q10 2020 UPDATE KIT	1



Q10 2020 UPDATE KIT COMPONENTS		
QTY	Part Number	Description
1	010-3513	SHOULDER LINER 2020
1	010-3311	SHOULDER JOINT HOUSING 2020, LEFT
1	010-3312	SHOULDER JOINT HOUSING 2020, RIGHT
1	010-4521	SHOULDER JOINT HOUSING 2020, LEFT
1	010-4522	SHOULDER JOINT HOUSING 2020, RIGHT
1	010-4451	SPINEBOX, Q10
1	010-4452	BACK PLATE 2020, Q10 UPDATE LIGHT
1	010-7211	SACRUM TOP PLATE, 2020
1	010-7213	SACRUM BOTTOM PLATE 2020
2	010-7214	RETAINING PLATE 2020 PELVIS BONE
1	5001147-FT	SCREW SHCS M4 X 0.7 X 18
3	5000721-FT	SCREW SHCS M5 X 0.8 X 25
2	010-9222	LOWER LEG ASSY, SHORT FOOT Q10
1	010-9230	UPPER LEG FLESH 2020, LEFT
1	010-9231	UPPER LEG FLESH 2020, RIGHT
2	5000282-FT	SCREW SHCS M6 X 1 X 22
1	012-4100	RIB CAGE ASSEMBLY, Q10 2020