

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
FULL DUMMY					
T1FDM000	10	THOR DUMMY MECHANICAL ASSEMBLY		A	
T1FDM001	7	THOR DUMMY MECHANICAL ASSEMBLY PARTS LIST		A	
T1LXM000	8	THOR-LX MECHANICAL ASSEMBLY		A	2
T1FMM000	3	FEMUR MECHANICAL ASSEMBLY		A	2
T1JKF000	B1	TESTING JACKET FRONT / REAR PANEL ASSEMBLY		A	
T1PLM000	10	PELVIS ASSEMBLY		A	
T1SPM000	6	SPINE MECHANICAL ASSEMBLY		A	
T1LAM000	6	LOWER ABDOMEN MECHANICAL ASSEMBLY		A	
T1UAM000	4	UPPER ABDOMEN MECHANICAL ASSEMBLY		A	
T1CXM000	8	CRUX MECHANICAL ASSEMBLY TO THOR		A	
T1TXM000	7	THORAX ASSEMBLY		A	
T1SHM000	7	SHOULDER MECHANICAL ASSEMBLY		A	
T1NKM000	10	NECK MECHANICAL ASSEMBLY		A	
T1HDM000	10	HEAD MECHANICAL ASSEMBLY		A	
T1FCM000	1	FACE MECHANICAL ASSEMBLY		A	
T1AMP000	2	ARM ASSEMBLY PURCHASED PARTS		A	
T1FDM010	3	THOR SERIAL NUMBER LOCATION			1
T1FDM011	0	LOWER ABDOMEN ERECT POSTURE FOAM		M	1
T1FDM012	0	LOWER ABDOMEN NEUTRAL POSTURE FOAM		M	1
T1FDS000	7	THOR DUMMY SKIN ASSEMBLY		A	
T1FMS000	B0	FEMUR SKIN MOUNTING ASSEMBLY (RIGHT AND LEFT)		A	2
T1PLS000	2	PELVIS SKIN ASSEMBLY		A	1
T1NKS000	3	NECK SKIN ASSEMBLY		A	1
T1LLS000	3	TIBIA FLESH - MECHANICAL ASSEMBLY		A	2
T1FTS000	3	FOOT SKIN - MECHANICAL ASSEMBLY		A	2
T1HDS000	0	HEAD SKIN ASSEMBLY		A	1
T1FDE000	6	THOR ELECTRICAL ASSEMBLY		A	
T1INM010	1	STRAIN RELIEF MOUNTING PLATE		M	1
T1INF000	3	NYLON WIRE COVER		F	1
9604K22		BRASS WASHER GROMMET HOLE SIZE DIAMETER 1/4"	McMASTER-CARR	P	4
		8 FOOT ZIPPER AND CHAIN		F	1
W9350		BLACK CORDURA NYLON	PG	F	1
7515K45		STRAIN RELIEF MESH GRIP (1.25-1.50")	McMASTER-CARR	P	1
91253A583		5/16-18 x 1" F.H.S.C.S. (ALLOY)	McMASTER-CARR	P	1
T1FDT110	4	THOR H-POINT TOOL- MECHANICAL ASSEMBLY		A	1
T1FDT111	B1	H-POINT TOOL SHAFT		M	1
T1FDT112	C0	H-POINT TOOL INTERFACE DISK		M	1
T1FDT113	B1	H-POINT TOOL BEARING		M	1
59575K31		SHAFT DIA = 0.25"; FLANGED BEARING	McMASTER-CARR	P	1
T1FDT114	C0	H-POINT TOOL PLATE		M	1
95630A238		#8 TEFLON WASHSER	McMASTER-CARR	P	1
91255A189		#8-32 X 3/16" BHCS (ALLOY STEEL)	McMASTER-CARR	P	1
98380A508		3/16 X 3/4L DOWEL PIN	McMASTER-CARR	P	1
90145A553		1/4 X 3.0L DOWEL PIN	McMASTER-CARR	P	1
93740A215		1/8 X .75L SPRING PIN (420 SS)	McMASTER-CARR	P	1
T1FDT200	3	ABDOMEN FIXTURE MECHANICAL ASSEMBLY		A	
T1FDT211	B0	ABDOMEN FIXTURE BOLT		M	2
98847A029		THREADED ROD 1/4 - 20	McMASTER-CARR	P	2
T1FDT201	0	ABDOMEN FIXTURE PLATE BONDED ASSEMBLY		A	1
T1FDT212	3	ABDOMEN FIXTURE PLATE		M	1
T1FDT213	2	ABDOMEN FIXTURE FOAM BLOCK		M	1
66215A521		DEVCON 5 MINUTE EPOXY	McMASTER-CARR	P	1
6047K31		ALUMINUM FOUR-ARM CLAMPING KNOB	McMASTER-CARR	P	3
93995A370		1/4-20 ROUND THUMB NUT	McMASTER-CARR	P	3
91090A107		1/4" WASHER: ID=17/64, OD=7/8, THICK=3/64	McMASTER-CARR	P	1
6044K67		1/4-20 PULL KNOB	McMASTER-CARR	P	1
92949A535		1/4-20 X 3/8" B.H.S.C.S.	McMASTER-CARR	P	1

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PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
ARMS					
T1AMP000	2	ARM ASSEMBLY PURCHASED PARTS		A	
123-6000-1		ADVANCED DUMMY ARM ASSEMBLY, LEFT	DENTON ATD	P	1
123-6000-2		ADVANCED DUMMY ARM ASSEMBLY, RIGHT	DENTON ATD	P	1
CRUX					
T1CXM000	8	CRUX MECHANICAL ASSEMBLY TO THOR		A	
T1CXM004	4	CRUX LOWER LEFT UNIT MECHANICAL ASSEMBLY		A	
T1CXM100	3	CRUX BASE ASSEMBLY		A	
T1CXM110	3	CRUX BASE		M	1
91732A364		#10-24 X 0.19 HELI-COIL INSERT	McMASTER-CARR	P	2
T1CXM111	1	CRUX POT #2 JOINT-BOTTOM HALF		M	1
T1CXM112	4	CRUX POT #1 AXLE		M	1
T1CXM113	5	CRUX POT #2 AXLE		M	1
T1CXM114	0	CRUX BASE ROTATION WASHERS		M	2
T1CXM115	0	CRUX POT #1 AXLE-SET SCREW		M	2
92311A144		#6-32 x 1/4" S.S.S.	McMASTER-CARR	P	2
98410A111		1/8" EXTERNAL C-CLIP (STEEL)	McMASTER-CARR	P	2
98370A005		FINISHED WASHER (ID 1/8, OD 1/4" THK.1/16")	McMASTER-CARR	P	2
57155K144		1/8" BORE MINIATURE BALL BEARING	McMASTER-CARR	P	2
T1CXM200	3	CRUX-ROD #1 ASSEMBLY		A	
T1CXM211	B1	CRUX ROD #1-LOWER UNITS		M	1
T1CXM212	B1	CRUX POT #3 JOINT-BOTTOM HALF		M	1
T1CXM213	5	CRUX POT #3 AXLE		M	1
T1CXM011	B1	CRUX JOINT-TOP HALF		M	1
T1CXM012	2	CRUX JOINT BUSHING		M	1
T1CXM214	2	CRUX-SET SCREW		M	2
91375A146		#6-32 x 3/8" S.S.S. (ALLOY)	McMASTER-CARR	P	2
92373A177		1/8" X 1/2" SS SPRING PIN	McMASTER-CARR	P	2
98381A414		1/16" X 3/16" DOWEL PIN (ALLOY)	McMASTER-CARR	P	2
T1CXM300	7	CRUX-ROD #2 ASSEMBLY		A	
T1CXM311	B1	CRUX ROD #2-LOWER UNITS		M	1
T1CXM320	4	CRUX U-JOINT MECHANICAL ASSEMBLY		A	
UJ-HD375 KIT		SOLID, UNASSEMBLED 3/8" U-JOINT	BELDEN	P	1
T1CXM322	3	CRUX U-JOINT HALF - ROTATION END		M	1
T1CXM324	3	CRUX U-JOINT HALF - RIB CONNECTION (LOWER UNIT)		M	1
T1CXM011	B1	CRUX JOINT-TOP HALF		M	1
T1CXM012	2	CRUX JOINT BUSHING		M	2
98381A216		1/8" X 5/16" DOWEL PIN (ALLOY STEEL)	McMASTER-CARR	P	1
92373A177		1/8" X 1/2" SS SPRING PIN	McMASTER-CARR	P	1
98381A414		1/16" X 3/16" DOWEL PIN (ALLOY)	McMASTER-CARR	P	3
98410A134		HEAVY DUTY E-CLIP FOR 3/8" SHAFT	McMASTER-CARR	P	1
T1CXM013	2	CRUX-JOINT WASHER		M	2
T1CXM014	1	CRUX ROTARY POTENTIOMETER (MODIFIED)		M	3
T1INM210		ROTARY POTENTIOMETER (0.4 % LINEARITY)	CONTELEC	I	3
T1CXM015	1	CRUX POTENTIOMETER RETAINING BRACKET		M	3
98410A113		1/4" EXTERNAL C-CLIP	McMASTER-CARR	P	2
92210A077		#2-56 X 1/4" F.H.S.C.S. (S.S.)	McMASTER-CARR	P	6
T1CXM001	4	CRUX UPPER RIGHT UNIT MECHANICAL ASSEMBLY		A	
T1CXM100	3	CRUX BASE ASSEMBLY		A	
T1CXM110	3	CRUX BASE		M	1
91732A364		#10-24 X 0.19 HELI-COIL INSERT	McMASTER-CARR	P	2
T1CXM111	1	CRUX POT #2 JOINT-BOTTOM HALF		M	1
T1CXM112	4	CRUX POT #1 AXLE		M	1
T1CXM113	5	CRUX POT #2 AXLE		M	1

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PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
T1CXM114	0	CRUX BASE ROTATION WASHERS		M	2
T1CXM115	0	CRUX POT #1 AXLE-SET SCREW		M	2
92311A144		#6-32 x 1/4" S.S.S.	McMASTER-CARR	P	2
98410A111		1/8" EXTERNAL C-CLIP (STEEL)	McMASTER-CARR	P	2
98370A005		FINISHED WASHER (ID 1/8, OD 1/4" THK.1/16")	McMASTER-CARR	P	2
57155K144		1/8" BORE MINIATURE BALL BEARING	McMASTER-CARR	P	2
T1CXM200	3	CRUX-ROD #1 ASSEMBLY		A	
T1CXM210	B1	CRUX ROD #1-UPPER UNITS		M	1
T1CXM212	B1	CRUX POT #3 JOINT-BOTTOM HALF		M	1
T1CXM213	5	CRUX POT #3 AXLE		M	1
T1CXM011	B1	CRUX JOINT-TOP HALF		M	1
T1CXM012	2	CRUX JOINT BUSHING		M	1
T1CXM214	2	CRUX-SET SCREW		M	2
91375A146		#6-32 x 3/8" S.S.S. (ALLOY)	McMASTER-CARR	P	2
92373A177		1/8" X 1/2" SS SPRING PIN	McMASTER-CARR	P	2
98381A414		1/16" X 3/16" DOWEL PIN (ALLOY)	McMASTER-CARR	P	2
T1CXM300	7	CRUX-ROD #2 ASSEMBLY		A	
T1CXM310	B1	CRUX ROD #2-UPPER UNITS		M	1
T1CXM320	4	CRUX U-JOINT MECHANICAL ASSEMBLY		A	
UJ-HD375 KIT		SOLID, UNASSEMBLED 3/8" U-JOINT	BELDEN	P	1
T1CXM322	3	CRUX U-JOINT HALF - ROTATION END		M	1
T1CXM323	5	CRUX U-JOINT HALF - RIB CONNECTION END (UPPER UNIT)		M	1
T1CXM011	B1	CRUX JOINT-TOP HALF		M	1
T1CXM012	2	CRUX JOINT BUSHING		M	1
98381A216		1/8" X 5/16" DOWEL PIN (ALLOY STEEL)	McMASTER-CARR	P	1
92373A177		1/8" X 1/2" SS SPRING PIN	McMASTER-CARR	P	1
98381A414		1/16" X 3/16" DOWEL PIN (ALLOY)	McMASTER-CARR	P	3
98410A134		HEAVY DUTY E-CLIP FOR 3/8" SHAFT	McMASTER-CARR	P	1
T1CXM013	2	CRUX-JOINT WASHER		M	2
T1CXM014	1	CRUX ROTARY POTENTIOMETER (MODIFIED)		M	3
T11NM210		ROTARY POTENTIOMETER (0.4 % LINEARITY)	CONTELEC	I	3
T1CXM015	1	CRUX POTENTIOMETER RETAINING BRACKET		M	3
98410A113		1/4" EXTERNAL C-CLIP	McMASTER-CARR	P	2
92210A077		#2-56 X 1/4" F.H.S.C.S. (S.S.)	McMASTER-CARR	P	6
T1CXM003	4	CRUX LOWER RIGHT UNIT MECHANICAL ASSEMBLY		A	
T1CXM100	3	CRUX BASE ASSEMBLY		A	
T1CXM110	3	CRUX BASE		M	1
91732A364		#10-24 X 0.19 HELI-COIL INSERT	McMASTER-CARR	P	2
T1CXM111	1	CRUX POT #2 JOINT-BOTTOM HALF		M	1
T1CXM112	4	CRUX POT #1 AXLE		M	1
T1CXM113	5	CRUX POT #2 AXLE		M	1
T1CXM114	0	CRUX BASE ROTATION WASHERS		M	2
T1CXM115	0	CRUX POT #1 AXLE-SET SCREW		M	2
92311A144		#6-32 x 1/4" S.S.S.	McMASTER-CARR	P	2
98410A111		1/8" EXTERNAL C-CLIP (STEEL)	McMASTER-CARR	P	2
98370A005		FINISHED WASHER (ID 1/8, OD 1/4" THK.1/16")	McMASTER-CARR	P	2
57155K144		1/8" BORE MINIATURE BALL BEARING	McMASTER-CARR	P	2
T1CXM200	3	CRUX-ROD #1 ASSEMBLY		A	
T1CXM211	B1	CRUX ROD #1-LOWER UNITS		M	1
T1CXM212	B1	CRUX POT #3 JOINT-BOTTOM HALF		M	1
T1CXM213	5	CRUX POT #3 AXLE		M	1
T1CXM011	B1	CRUX JOINT-TOP HALF		M	1
T1CXM012	2	CRUX JOINT BUSHING		M	2
T1CXM214	2	CRUX-SET SCREW		M	2
91375A146		#6-32 x 3/8" S.S.S. (ALLOY)	McMASTER-CARR	P	2
92373A177		1/8" X 1/2" SS SPRING PIN	McMASTER-CARR	P	2
98381A414		1/16" X 3/16" DOWEL PIN (ALLOY)	McMASTER-CARR	P	2
T1CXM300	7	CRUX-ROD #2 ASSEMBLY		A	
T1CXM311	B1	CRUX ROD #2-LOWER UNITS		M	1

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PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
T1CXM320	4	CRUX U-JOINT MECHANICAL ASSEMBLY		A	
UJ-HD375 KIT		SOLID, UNASSEMBLED 3/8" U-JOINT	BELDEN	P	1
T1CXM322	3	CRUX U-JOINT HALF - ROTATION END		M	1
T1CXM324	3	CRUX U-JOINT HALF - RIB CONNECTION (LOWER UNIT)		M	1
T1CXM011	B1	CRUX JOINT-TOP HALF		M	1
T1CXM012	2	CRUX JOINT BUSHING		M	1
98381A216		1/8" X 5/16" DOWEL PIN (ALLOY STEEL)	McMASTER-CARR	P	1
92373A177		1/8" X 1/2" SS SPRING PIN	McMASTER-CARR	P	1
98381A414		1/16" X 3/16" DOWEL PIN (ALLOY)	McMASTER-CARR	P	3
98410A134		HEAVY DUTY E-CLIP FOR 3/8" SHAFT	McMASTER-CARR	P	1
T1CXM013	2	CRUX-JOINT WASHER		M	2
T1CXM014	1	CRUX ROTARY POTENTIOMETER (MODIFIED)		M	3
T1INM210		ROTARY POTENTIOMETER (0.4 % LINEARITY)	CONTELEC	I	3
T1CXM015	1	CRUX POTENTIOMETER RETAINING BRACKET		M	3
98410A113		1/4" EXTERNAL C-CLIP	McMASTER-CARR	P	2
92210A077		#2-56 X 1/4" F.H.S.C.S. (S.S.)	McMASTER-CARR	P	6
T1CXM002	4	CRUX UPPER LEFT UNIT MECHANICAL ASSEMBLY		A	
T1CXM100	3	CRUX BASE ASSEMBLY		A	
T1CXM110	3	CRUX BASE		M	1
91732A364		#10-24 X 0.19 HELI-COIL INSERT	McMASTER-CARR	P	2
T1CXM111	1	CRUX POT #2 JOINT-BOTTOM HALF		M	1
T1CXM112	4	CRUX POT #1 AXLE		M	1
T1CXM113	5	CRUX POT #2 AXLE		M	1
T1CXM114	0	CRUX BASE ROTATION WASHERS		M	2
T1CXM115	0	CRUX POT #1 AXLE-SET SCREW		M	2
92311A144		#6-32 x 1/4" S.S.S.	McMASTER-CARR	P	2
98410A111		1/8" EXTERNAL C-CLIP (STEEL)	McMASTER-CARR	P	2
98370A005		FINISHED WASHER (ID 1/8, OD 1/4" THK.1/16")	McMASTER-CARR	P	2
57155K144		1/8" BORE MINIATURE BALL BEARING	McMASTER-CARR	P	2
T1CXM200	3	CRUX-ROD #1 ASSEMBLY		A	
T1CXM210	B1	CRUX ROD #1-UPPER UNITS		M	1
T1CXM212	B1	CRUX POT #3 JOINT-BOTTOM HALF		M	1
T1CXM213	5	CRUX POT #3 AXLE		M	1
T1CXM011	B1	CRUX JOINT-TOP HALF		M	1
T1CXM012	2	CRUX JOINT BUSHING		M	2
T1CXM214	2	CRUX-SET SCREW		M	2
91375A146		#6-32 x 3/8" S.S.S. (ALLOY)	McMASTER-CARR	P	2
92373A177		1/8" X 1/2" SS SPRING PIN	McMASTER-CARR	P	2
98381A414		1/16" X 3/16" DOWEL PIN (ALLOY)	McMASTER-CARR	P	2
T1CXM300	7	CRUX-ROD #2 ASSEMBLY		A	
T1CXM310	B1	CRUX ROD #2-UPPER UNITS		M	1
T1CXM320	4	CRUX U-JOINT MECHANICAL ASSEMBLY		A	
UJ-HD375 KIT		SOLID, UNASSEMBLED 3/8" U-JOINT	BELDEN	P	1
T1CXM322	3	CRUX U-JOINT HALF - ROTATION END		M	1
T1CXM323	5	CRUX U-JOINT HALF - RIB CONNECTION END (UPPER UNIT)		M	1
T1CXM011	B1	CRUX JOINT-TOP HALF		M	1
T1CXM012	2	CRUX JOINT BUSHING		M	2
98381A216		1/8" X 5/16" DOWEL PIN (ALLOY STEEL)	McMASTER-CARR	P	1
92373A177		1/8" X 1/2" SS SPRING PIN	McMASTER-CARR	P	1
98381A414		1/16" X 3/16" DOWEL PIN (ALLOY)	McMASTER-CARR	P	3
98410A134		HEAVY DUTY E-CLIP FOR 3/8" SHAFT	McMASTER-CARR	P	1
T1CXM013	2	CRUX-JOINT WASHER		M	2
T1CXM014	1	CRUX ROTARY POTENTIOMETER (MODIFIED)		M	3
T1INM210		ROTARY POTENTIOMETER (0.4 % LINEARITY)	CONTELEC	I	3
T1CXM015	1	CRUX POTENTIOMETER RETAINING BRACKET		M	3
98410A113		1/4" EXTERNAL C-CLIP	McMASTER-CARR	P	2
92210A077		#2-56 X 1/4" F.H.S.C.S. (S.S.)	McMASTER-CARR	P	6
T1CXM401	3	CRUX - LOWER UNIT MOUNTING PLATE (LEFT SIDE)		M	1

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PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
T1CXM400	3	CRUX - LOWER UNIT MOUNTING PLATE (RIGHT SIDE)		M	1
91253A244		#10-24 X 5/8" F.H.S.C.S. (ALLOY)	McMASTER-CARR	P	4
91255A537		1/4-20 X 1/2" B.H.S.C.S. (ALLOY)	McMASTER-CARR	P	2
91253A535		1/4-20 X 3/8" F.H.S.C.S. (ALLOY)	McMASTER-CARR	P	4
91253A240		#10-24 X 3/8" F.H.S.C.S. (ALLOY)	McMASTER-CARR	P	4
T1CXE000	4	CRUX ELECTRICAL ASSEMBLY TO THOR		A	
T1CXE001	4	CRUX UPPER RIGHT UNIT ELECTRICAL ASSEMBLY		A	
12CONWIRE		12 CONDUCTOR TENSOLITE WIRE (15 ')	DENTON	P	15'
7130K52		4" NYLON CABLE TIE (0.1" WIDE)	McMASTER-CARR	P	3
CP332R50ND		3/32" X 1/2" HEATSHRINK TUBING	DIGI-KEY	P	9
CP3321ND		3/32" X 5.25" HEATSHRINK TUBING	DIGI-KEY	P	1
CP1161ND		1/16" X 4.25" HEATSHRINK TUBING	DIGI-KEY	P	1
T1CXE002	4	CRUX UPPER LEFT UNIT ELECTRICAL ASSEMBLY		A	
12CONWIRE		12 CONDUCTOR TENSOLITE WIRE (15 ')	DENTON	P	1
7130K52		4" NYLON CABLE TIE (0.1" WIDE)	McMASTER-CARR	P	3
CP332R50ND		3/32" X 1/2" HEATSHRINK TUBING	DIGI-KEY	P	9
CP3321ND		3/32" X 5.25" HEATSHRINK TUBING	DIGI-KEY	P	1
CP1161ND		1/16" X 4.25" HEATSHRINK TUBING	DIGI-KEY	P	1
T1CXE003	4	CRUX LOWER RIGHT UNIT ELECTRICAL ASSEMBLY		A	
12CONWIRE		12 CONDUCTOR TENSOLITE WIRE (15 ')	DENTON	P	1
7130K52		4" NYLON CABLE TIE (0.1" WIDE)	McMASTER-CARR	P	3
CP332R50ND		3/32" X 1/2" HEATSHRINK TUBING	DIGI-KEY	P	9
CP3321ND		3/32" X 5.25" HEATSHRINK TUBING	DIGI-KEY	P	1
CP1161ND		1/16" X 4.25" HEATSHRINK TUBING	DIGI-KEY	P	1
T1CXE004	4	CRUX LOWER LEFT UNIT ELECTRICAL ASSEMBLY		A	
12CONWIRE		12 CONDUCTOR TENSOLITE WIRE (15 ')	DENTON	P	1
7130K52		4" NYLON CABLE TIE (0.1" WIDE)	McMASTER-CARR	P	3
CP332R50ND		3/32" X 1/2" HEATSHRINK TUBING	DIGI-KEY	P	9
CP3321ND		3/32" X 5.25" HEATSHRINK TUBING	DIGI-KEY	P	1
CP1161ND		1/16" X 4.25" HEATSHRINK TUBING	DIGI-KEY	P	1
RP325-ND		1/4" CABLE CLAMP (NYLON)	DIGI-KEY	P	1
91255A537		1/4-20 X 1/2" B.H.S.C.S (ALLOY)	McMASTER-CARR	P	2
RP327-ND		3/8" CABLE CLAMP (NYLON)	DIGI-KEY	P	1
T1CXT000	3	CRUX INSERTION TOOL MECHANICAL ASSEMBLY		A	
T1CXT010	2	INSERTION TOOL HANDLE		M	1
T1CXT011	2	INSERTION TOOL SHAFT		M	1
DGSP					
T1DPM000	3	DGSP COMPLETE MECHANICAL ASSEMBLY		A	2
T1DPM100	3	DGSP TELESCOPE ASSEMBLY		A	2
T1DPM110	0	DGSP COLUMN #1		M	2
T1DPM111	2	DGSP COLUMN #2		M	2
T1DPM112	4	DGSP COLUMN #3		M	2
T1DPM113	2	DGSP COLUMN #4		M	2
T1DPM114	1	DGSP COLUMN #5		M	2
T1DPM115	1	DGSP COLUMN #6		M	2
T1DPM116	2	DGSP U-JOINT		M	2
UJ-HD-375		BELDEN 3/8" SOLID, UNASSEMBLED UNIVERSAL JOINT	BELDEN	P	2
91375A074		#2-56 X 1/8" S.S.S.	McMASTER-CARR	P	4
98410A117		EXTERNAL RETAINING CLIP 3/8"	McMASTER-CARR	P	2
98410A122		EXTERNAL RETAINING CLIP 1/2"	McMASTER-CARR	P	2
98410A126		EXTERNAL RETAINING CLIP 5/8"	McMASTER-CARR	P	2
98420A134		3/8" HEAVY-DUTY E-STYLE RETAINING CLIP	McMASTER-CARR	P	2
T1DPM200	2	DGSP GIMBALLED YOKE ASSEMBLY		A	2
T1DPM210	4	DGSP-YOKE AXIS ROTARY POTENTIOMETER		M	2
T11NM220	1	ROTARY POTENTIOMETER #2		M	2
ECS 78RBA102 W06508		PRECISION ROTARY POTENTIOMETER	VS	I	2

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
T1DPM211	3	DGSP-ROTARY BUSHING FOR YOKE		M	2
91732A701		#4-40 X .224" HELICAL THREAD INSERT	McMASTER-CARR	P	4
T1DPM212	1	DGSP-YOKE LEFT ARM		M	2
T1DPM213	3	DGSP-YOKE RIGHT ARM		M	2
T1DPM214	2	DGSP-D-SHAFT FOR CONTELEC ROTARY POT.		M	2
8890980		0.0980 DIAMETER GAGE PIN	MSC	P	2
64-3020		3/8-32 X 0.10" UNEF NUT	RADIO SHACK	P	2
98019A199		3/8" WASHER (SS)	McMASTER-CARR	P	2
91375A106		#4-40 X 1/4 S.S.S.	McMASTER-CARR	P	8
91732A267		#4-40 X 0.168" HELICAL INSERT	McMASTER-CARR	P	4
91251A108		#4-40 X 3/8" S.H.C.S.	McMASTER-CARR	P	4
91375A074		#2-56 X 1/8" S.S.S.	McMASTER-CARR	P	8
57155K156		PRECISION BEARING - BORE = 5/16" (SS)	McMASTER-CARR	P	4
95630A219		TEFLON WASHER (OD 3/4", ID 21/64")	McMASTER-CARR	P	4
T11NM210	1	ROTARY POTENTIOMETER #1		M	2
PD210-4B		CONTELEC ROTARY POTENTIOMETER	CONTELEC	I	2
T1DPM300	2	DGSP STRING POTENTIOMETER ASSEMBLY		A	2
T11NM230	2	STRING POTENTIOMETER		M	2
300647		MODEL 160-0321 THOR UPPER ABDOMEN		I	1
300159		MODEL 160-0321 THOR LOWER ABDOMEN		I	2
T1DPM311	4	DGSP STRING POTENTIOMETER MOUNT		M	2
T1DPM312	2	DGSP PULLEY WHEEL		M	2
T1DPM313	2	DGSP PULLEY WHEEL AXLE		M	2
8900460		0.0460" DIAMETER GAGE PIN	MSC	P	2
T1DPM314	0	DGSP FLAT LOW FRICTION WASHER		M	2
91251A158		#6-32 X 1 3/4" S.H.C.S.	McMASTER-CARR	P	2
91375A077		#2-56 X 1/4" S.S.S. (ALLOY)	McMASTER-CARR	P	4
57155K138		S.S. PRECISION BEARING (ID 0.047")	McMASTER-CARR	P	4
T1DPM010	6	STRING POTENTIOMETER COVER		M	2
91732A707		#6-32 X 0.276" HELICAL INSERT	McMASTER-CARR	P	4
91253A108		#4-40 X 3/8" F.H.S.C.S.	McMASTER-CARR	P	8
91255A106		#4-40 X 1/4" B.H.S.C.S.	McMASTER-CARR	P	4
91251A113		#4-40 X 3/4" S.H.C.S.	McMASTER-CARR	P	4
T1DPE000	6	DGSP COMPLETE ELECTRICAL ASSEMBLY		A	2
12CONWIRE		12 CONDUCTOR TENSOLITE WIRE (15')	DENTON	P	2
7130K52		4" NYLON CABLE TIE (0.1" WIDE)	McMASTER-CARR	P	2
CP332R50ND		3/32" X 1/2" HEATSHRINK TUBING	DIGI-KEY	P	18
CP3321ND		3/32" X 3.5" HEATSHRINK TUBE	DIGI-KEY	P	2
CP1161ND		1/16" X 3.0" HEATSHRINK TUBE	DIGI-KEY	P	2
91255A146		#6-32 X 3/8" B.H.S.C.S. (ALLOY)	McMASTER-CARR	P	2
RP324-ND		3/16" CABLE CLAMP	DIGI-KEY	P	2
91255A105		#4-40 X 3/16" B.H.S.C.S. (ALLOY)	McMASTER-CARR	P	2
RP322-ND		1/16" CABLE CLAMP	DIGI-KEY	P	2
FACE					
T1FCM000	1	FACE MECHANICAL ASSEMBLY		A	
T1FCM060	B1	FACE FOAM ASSEMBLY		A	1
T1FCM061	B1	FACE CONFOR FOAM		M	1
CF-45125		BLUE CONFOR FOAM	E-A-R FOAM CORP	P	1
T1FCM062	B0	FACE FRONT DISTRIBUTION PAD		M	1
8657K412		24" X 24" X 1/8" LDPE	McMASTER-CARR	P	1
T1FCM063	B1	FACE REAR DISTRIBUTION PAD		M	1
8657K412		24" X 24" X 1/8" LDPE	McMASTER-CARR	P	1
T1FCM100	3	FACE PLATE ASSEMBLY		A	1
T1FCM110	B0	FACE PLATE		M	1
T1FCM111	2	FACE CHINGUARD		M	1
91732A286		#6-32 UNC HELICAL INSERT	McMASTER-CARR	P	1

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
T1FCM112	4	FACE RIGHT EYE LOAD CELL PLATE		M	1
T1FCM113	3	LEFT EYE LOAD CELL PLATE		M	1
T1FCM114	4	RIGHT CHEEK LOAD CELL PLATE		M	1
T1FCM115	3	LEFT CHEEK LOAD CELL PLATE		M	1
T1FCM116	2	CHIN LOAD CELL PLATE		M	1
T1FCM117	1	MOCK FACE LOAD CELL		M	5
T1INM430	1	FACE LOAD CELL (ACTIVE)	DENTON	I	5
91253A151		#6-32 X 3/4" F.H.S.C.S.	McMASTER-CARR	P	6
91251A146		#6-32 X 3/8" S.H.C.S.	McMASTER-CARR	P	22
91253A146		#6-32 X 3/8" F.H.S.C.S.	McMASTER-CARR	P	20
91251A152		#6-32 X 7/8" S.H.C.S	McMASTER-CARR	P	2
98381A470		.125 DIAM X .375 DOWEL PIN	McMASTER-CARR	P	2
T1FCE000	2	FACE ELECTRICAL ASSEMBLY		A	1
FEMUR					
T1FMM000	3	FEMUR MECHANICAL ASSEMBLY		A	2
T1FMM100	B1	LEFT FEMUR BALL JOINT ASSEMBLY		A	1
T1FMM112	1	TROCHANTER LEFT		M	1
T1FMM114	2	HIP CYLINDER-LEFT		M	1
T1FMM115	B1	HIP ARM- LEFT		M	1
T1FMM119	B0	HIP SHAFT		M	1
T1FMM120	2	FEMUR BALL		M	1
T1FMM130	3	FEMUR RETAINING RING		M	1
92383A474		1-1/2" X 1/4" SPRING PIN	McMASTER-CARR	P	1
92383A458		1 1/4" X 1/4" SPRING PIN	McMASTER-CARR	P	2
91251A539		1/4-20 X 5/8" S.H.C.S	McMASTER-CARR	P	8
T1FMM101	B1	RIGHT FEMUR BALL JOINT ASSEMBLY		A	1
T1FMM113	1	TROCHANTER RIGHT		M	1
T1FMM116	2	HIP CYLINDER-RIGHT		M	1
T1FMM117	B1	HIP ARM- RIGHT		M	1
T1FMM119	B0	HIP SHAFT		M	1
T1FMM120	2	FEMUR BALL		M	1
T1FMM130	3	FEMUR RETAINING RING		M	1
92383A474		1-1/2" X 1/4" SPRING PIN	McMASTER-CARR	P	1
92383A458		1 1/4" X 1/4" SPRING PIN	McMASTER-CARR	P	2
91251A539		1/4-20 X 5/8" S.H.C.S	McMASTER-CARR	P	8
T1FMM010	9	FEMUR SHAFT BEARING HOUSING		M	2
00060244		#6-32 X .207 HELICOIL INSERT	MSC	P	2
82496068		3/8-16 X .5" HEAVY DUTY INSERT	MSC	P	2
T1FMM011	2	FEMUR END CAP		M	2
T1FMM012	6	FEMUR SHAFT HUB		A	2
00060244		#6-32 X .207 HELICOIL INSERT	MSC	P	2
91732A519		5/16-18 X 5/16" HELICOIL INSERT	McMASTER-CARR	P	10
91732A541		5/8-18 X 0.625" HELICAL INSERT	McMASTER-CARR	P	2
T1FMM013	5	NON-ACTIVE FEMUR LOAD CELL		M	2
FEMUR LOAD CELL (ALTERNATE TO THE NON-ACTIVE LOAD CELL T1FMM013)					
T1INM350		INSTRUMENT FEMUR LOAD CELL		I	2
T1FMM014	2	FEMUR COMPLIANCE BUSHING		M	2
FL10JKM		LINEAR BEARING (0.625" BORE)	PACIFIC BEARINGS	P	2
T1FMM015	1	FEMUR MODIFIED LINEAR BEARING		M	2
FL10JKM		LINEAR BEARING (0.625" BORE)	PACIFIC BEARINGS	P	1
T1FMM016	4	FEMUR SHAFT		M	2
T1FMM017	2	FEMUR BOLT BUSHING		M	10
9540K11		RUBBER BOLT BUSHING	McMASTER-CARR	P	10
T1FMM018	1	FEMUR LINEAR BOLT BUSHING		M	10

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
T1FMM019	3	FEMUR LOAD CELL BOLT		M	4
3816X1875		3/8-16 X 1.875" S.H.C.S. (ALLOY)	COLD HEADERS	P	4
T1FMM021	0	FEMUR STEEL WASHER		M	10
T1FMM022	6	FEMUR BALL JOINT RETAINING BOLT		M	2
91259A800		5/8" X 1.75" SHOULDER BOLT	McMASTER-CARR	P	2
T1INM015	2	FEMUR GROUND STRAP	AMERICAN GROUNDING SYSTEMS	P	2
91251A392		5/16-24 X 2 1/4" S.H.C.S.	McMASTER-CARR	P	10
95601A320		HARD FIBER WASHER (ID:5/16", OD:7/16")	McMASTER-CARR	P	10
91253A197		#8-32 X 3/4" F.H.C.S.	McMASTER-CARR	P	10
9452K63		O-RING (1 1/2" OD, 1 1/8" ID)	McMASTER-CARR	P	2
91251A446		1/4-28 X 1 1/2" S.H.C.S. (ALLOY)	McMASTER-CARR	P	2
90073A029		1/4" LOCK WASHER	McMASTER-CARR	P	2
90073A231		3/8" LOCK WASHER	McMASTER-CARR	P	4
98380A537		1/4" DIAM. X 1/2" DOWEL PIN	McMASTER-CARR	P	4
91255A144		# 6-32 X 1/4" B.H.C.S	McMASTER-CARR	P	4
91255A555		1/4-28 X .625 UNF-2B BHSCS	McMASTER-CARR	P	6
T1FMS000	B0	FEMUR SKIN MOUNTING ASSEMBLY		A	2
T1FMS010	B0	FEMUR SKIN RIGHT LEG		S	1
BRASS-6.5		6.5" BRASS ZIPPER	LENZIP CORP.	P	1
T1FMS011	B0	FEMUR SKIN LEFT LEG		S	1
BRASS-6.5		6.5" BRASS ZIPPER	LENZIP CORP.	P	1
HEAD					
T1HDM000	10	HEAD MECHANICAL ASSEMBLY		A	
T1HDM100	15	HEAD/SKULL ASSEMBLY		A	
T1HDM110	7	HEAD CAP		M	1
ATD6273		SKULL CAP ASSEMBLY	FTSS	S	1
00060020		#2-56 X .179 HELICAL INSERT	MSC	P	2
T1HDM111	17	HEAD MACHINING		M	1
T1HDM130	1	HEAD CASTING		O	1
00060251		#6-32 x .276" HELICAL INSERT	MSC	P	6
00060590		1/4-20 x .375" HELICAL INSERT	MSC	P	4
T1HDM116	2	HEAD PLUG		M	1
T1HDM118	1	HEAD CG PART GROUP FOR BALLAST WEIGHTS DESIGN		M	1
T1HDM119	0	TOP BIAXIAL ACCELEROMETER MOUNT		M	1
T1HDM120	3	HEAD BALLAST		M	1
TIINM111	0	ENDEVCO UNIAXIAL ACCELEROMETER	ENDEVCO	P	2
92196A052		#0-80 x 1/8" S.H.S.C.S. (S.S.)	McMASTER-CARR	P	4
98370A001		18-8 SS WASHER (1/16" ID, 1/8" OD)	McMASTER-CARR	P	4
98380A471		1/8" x 1/ 2" DOWEL PIN (416 SS)	McMASTER-CARR	P	2
91251A831		#4-40 x 7/16" ALLOY S.H.C.S.	McMASTER-CARR	P	4
91251A539		1/4-20 X 5/8" S.H.C.S. (ALLOY)	McMASTER-CARR	P	4
90145A472		1/8" DIA x 5/8" LENGTH (SS)	McMASTER-CARR	P	2
91253A006		#10-32 X .625 FHSCS	McMASTER-CARR	P	2
T1HDM200	10	HEAD ACCELEROMETER MOUNT PLATE ASSEMBLY		A	
T1HDM210	8	HEAD ACCELEROMETER MOUNTING PLATE		M	1
91732A515		1/4-28 X 0.25 HELICAL INSERT	McMASTER-CARR	P	4
T1HDM212	11	7-ACCELEROMETER ARRAY FIXTURE		M	1
91253A305		#1/4-28 X 5/8" F.H.S.C.S.	McMASTER-CARR	P	4
91253A110		#4-40 X 1/ 2" F.H.S.C.S.	McMASTER-CARR	P	2
91251A052		#0-80 X 1/8" S.H.C.S. (ALLOY)	McMASTER-CARR	P	14
98370A001		18-8 SS WASHER (A/16" ID, 1/8" OD)	McMASTER-CARR	P	14
T1INM111	0	ENDEVCO UNIAXIAL ACCELEROMETER	ENDEVCO	I	7
T1INM501-1		TILT SENSOR ELECTRICAL ASSEMBLY HEAD	AOS	I	1
T1INM500	0	BI AXIAL TILT SENSOR ASSEMBLY		A	
T1INM511	4	UNIVERSAL TILT SENSOR MOUNT		M	1
SX-060-LIN		SX-060-LIN	AOS	P	2

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
91255A078		#2-56 X 5/16 B.H.S.C.S (ALLOY)	McMASTER-CARR	P	4
RP-323-ND		1/8" NYLON CABLE CLAMP	DIGI-KEY	P	1
91251A106		#4-40 X .25 S.H.C.S.	McMASTER-CARR	P	1
91241A005		#4 WASHER 1/8" X 5/16"	McMASTER-CARR	P	1
91253A309		1/4-28 X 1" F.H.S.C.S.	McMASTER-CARR	P	4
95868A106		#4-40 X 1/4" S.H.C.S.	McMASTER-CARR	P	2
T1HDS000	0	HEAD SKIN ASSEMBLY		A	
T1HDS010	B0	HEAD CAP SKIN		S	1
T1HDS020	8	HEAD SKIN SUB-ASSEMBLY		S	1
T1FCM060	B0	FACE FOAM ASSEMBLY		A	1
T1HDS021	B0	HEAD SKIN		S	1
T1HDS025	0	HEAD/NECK REINFORCEMENT MESH		S	1
T1HDS028	0	FACE REINFORCEMENT MESH		S	1
T1HDS026	0	LEFT CHEEK GUARD INSERT		F	1
T1HDS027	0	RIGHT CHEEK GUARD INSERT		F	1
T1HDE000	7	HEAD ELECTRICAL ASSEMBLY		A	
RP327-ND		DIA. 3/8" NYLON P-CLAMP	DIGI-KEY	P	1
91255A146		#6-32 X 3/8" BHSCS	McMASTER-CARR	P	1
3225T4		1/2" RUBBER CUSHIONED STEEL LOOP STRAP	McMASTER-CARR	P	1
91255A263		#10-32 X 3/8" BHSCS	McMASTER-CARR	P	1

TESTING JACKET

T1JKF000	B1	TESTING JACKET FRONT / REAR PANEL ASSEMBLY		A	1
T1JKF100	B1	TESTING JACKET FRONT PANEL ASSEMBLY		A	1
T1JKF110	B1	FRONT INSIDE PANEL PATTERN		F	1
T1JKF111	B1	FRONT OUTSIDE PANEL PATTERN		F	1
T1JKF112	B0	STIFFENER POCKETS		A	2
T1JKF113	B1	CHEST FOAM POCKET		A	1
T1JKF114	B1	UPPER RIGHT FOAM POCKET		A	1
T1JKF115	B1	UPPER LEFT FOAM POCKET		A	1
T1JKF116	B2	5" FRONT PANEL SHOULDER ZIPPER	LENZIP CORP.	P	1
T1JKF117	B2	12" LENZIP FRONT PANEL ZIPPERS	LENZIP CORP.	P	2
T1JKF118	B2	UPPER/ LEFT SIDE FOAM		F	2
T1JKF119	B2	WEIGHTED BIB		F	1
T1JKF120	B1	FRONT INTERIOR ABDOMEN PATCH		F	1
T1JKF121	B1	UPPER/ RIGHT SIDE FOAM		F	1
T1JKM010	2	STEEL STIFFENER		M	4
T1JKF134	0	SHOULDER POCKET (LEFT)		F	1
T1JKF135	0	SHOULDER POCKET (RIGHT)		F	1
9489K28		2" X 5" BLACK LOOP VELCRO	McMASTER-CARR	P	1
T1JKF130	B1	CROTCH STRAP ASSEMBLY		A	
T1JKF131	B1	INNER CROTCH STRAP PATTERN		F	1
T1JKF132	B1	OUTER CROTCH STRAP PATTERN		F	1
T1JKF133	B0	REAR CROTCH STRAP LOOP VELCRO		F	1
T1JKF200	B1	TESTING JACKET REAR PANEL ASSEMBLY (OUTSIDE VIEW)		A	
T1JKF201	B3	TESTING JACKET REAR PANEL ASSEMBLY (INSIDE VIEW)		A	
T1JKF210	B1	REAR INSIDE PANEL PATTERN		F	1
T1JKF211	B1	REAR OUTSIDE PANEL PATTERN		F	1
T1JKF212	B1	UPPER BACK FOAM POCKET		F	1
T1JKF213	B2	MID BACK FOAM POCKET		F	1
T1JKF214	B1	UPPER BACK FOAM		F	1
T1JKF215	B2	MID BACK FOAM		F	1
T1JKF216	B0	REAR PANEL HOOK VELCRO		F	1
T1JKF217	B0	REAR PANEL SHOULDER HOOK VELCRO		F	1

LOWER ABDOMEN

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PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
T1LAM000	6	LOWER ABDOMEN MECHANICAL ASSEMBLY		A	
T1LAF100	1	LOWER ABDOMEN BAG-SEWING ASSEMBLY		A	
T1LAF110	1	LOWER ABDOMEN TOP/SIDES/REAR BAG PATTERN		F	1
T1LAF111	1	LOWER ABDOMEN BOTTOM BAG PATTERN		F	1
T1LAF112	1	LOWER ABDOMEN TOP POCKET PATTERN		F	1
T1LAF113	1	LOWER ABDOMEN FRONT PATTERN		F	1
T1LAF114	2	LOWER ABDOMEN ZIPPER		F	1
9CF-DFL		YKK ZIPPER AND SLIDER	YKK	F	1
T1LAF115	1	LOWER ABDOMEN STIFFENING CLOTH		F	1
T1LAF116	2	LOWER ABDOMEN OUTSIDE VELCRO PATCH		F	1
T1LAF117	0	UPPER AND LOWER ABDOMEN VELCRO COVER		F	1
T1LAM010	1	LOWER ABDOMEN REAR ATTACHMENT PLATE		M	1
T1LAM011	4	LOWER ABDOMEN POTENTIOMETER COVER		M	2
T1LAM012	4	LOWER ABDOMEN FRONT FOAM LAYER		C	1
T1LAM013	4	LOWER ABDOMEN REAR FOAM LAYER		C	1
T1LAM014	0	LOWER ABDOMEN DISTRIBUTION PLATE		M	2
T1LAW040	7	LOWER ABDOMEN ATTACH BRACKET (LEFT) WELD ASSEMBLY		W	
T1LAM041	0	LOWER ABDOMEN SIDE BRACKET REAR FLANGE		M	1
T1LAM042	3	LOWER ABDOMEN SIDE BRACKET PLATES		M	1
T1LAM043	5	LOWER ABDOMEN SIDE ATTACH BRACKET FRONT PLATE (LEFT)		M	1
T1LAM044	1	LOWER ABDOMEN SIDE ATTACHMENT BRACKETS - DGSP MOUNT		M	1
T1LAW060	7	LOWER ABDOMEN ATTACH BRACKET (RIGHT) WELD ASSEMBLY		W	
T1LAM041	0	LOWER ABDOMEN SIDE BRACKET REAR FLANGE		M	1
T1LAM042	3	LOWER ABDOMEN SIDE BRACKET PLATES		M	1
T1LAM063	2	LOWER ABDOMEN SIDE ATTACH BRACKET FRONT PLATE (RIGHT)		M	1
T1LAM044	1	LOWER ABDOMEN SIDE ATTACHMENT BRACKETS - DGSP MOUNT		M	1
T1LAW080	2	LOWER ABDOMEN INTERNAL MOUNTING WELD ASSEMBLY		W	
T1LAM081	5	LOWER ABDOMEN INTERNAL PLATE		M	1
T1LAM082	4	LOWER ABDOMEN FLARED OVERLOAD CONES		M	2
T1LAM083	1	LOWER ABDOMEN THREADED PLUG		M	4
T1DPM000	3	DGSP COMPLETE MECHANICAL ASSEMBLY		A	2
92949A540		1/4-20 X 3/4" B.H.S.C.S.	McMASTER-CARR	P	4
91251A110		#4-40 X 3/4" S.H.C.S.	McMASTER-CARR	P	4
64-3020		3/8-32 X 0.10" UNEF NUT	RADIO SHACK	P	2
98019A399		3/8" WASHER	McMASTER-CARR	P	2
1420X625BP		1/4-20 X 5/8" B.H.S.C.S. W/ PELLET	COLD HEADERS	P	4
91253A624		3/8-16 X 1" F.H.S.C.S. (ALLOY)	McMASTER-CARR	P	2
91253A108		#4-40 X 3/8" F.H.S.C.S. (ALLOY)	McMASTER-CARR	P	8
T1INM014	1	INSTRUMENT LUMBAR SPINE GROUND STRAP	AMERICAN GROUNDING SYSTEMS	P	1

LOWER EXTREMITY

T1LXM000	8	THOR-LX MECHANICAL ASSEMBLY		A	2
KNEE					
T1KNM011	7	KNEE OUTBOARD COVER - LEFT		M	1
T1KNM012	6	KNEE INBOARD COVER - LEFT		M	1
T1KNM013	7	KNEE OUTBOARD COVER - RIGHT		M	1
T1KNM014	6	KNEE INBOARD COVER - RIGHT		M	1
91251A440		1/4-28 x 3/4" UNF-2B S.H.C.S	McMASTER-CARR	P	8
91253A301		1/4-28 x 3/8" F.H.S.C.S. (ALLOY)	McMASTER-CARR	P	8
T1KNM000	3	KNEE ASSEMBLY MECHANICAL ASSEMBLY		A	
EX-593-1		ASSEMBLY, SLIDING KNEE, LEFT	DENTON-ATD	P	1
EX-593-2		ASSEMBLY, SLIDING KNEE, RIGHT	DENTON-ATD	P	1
T1KNS010	6	MODIFIED KNEE SKIN LEFT		S	1
78051-5		KNEE FLESH LEFT	FTSS	P	1
78051-27		KNEE INSERT	FTSS	P	1
T1KNS011	2	MODIFIED KNEE SKIN RIGHT		S	1

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
78051-6		KNEE FLESH RIGHT	FTSS	P	1
78051-27		KNEE INSERT	FTSS	P	1
T1LXM001	13	THOR-LX - LOWER MECHANICAL ASSEMBLY	2		
FOOT					
T1FTM000	10	FOOT - MECHANICAL ASSEMBLY		A	2
T1FTM010	8	FOOT - COMPOSITE SOLE PLATE		M	2
93415A021		#4-40 X 0.25" EXPANSION INSERT	McMASTER-CARR	P	4
T1FTM011	4	FOOT COMPOSITE SOLE LAYUP		M	2
T1FTM210	11	HEEL / ACHILLES MOUNTING BRACKET		M	2
T1FTM214	5	HEEL PAD		M	2
T1FTM311	11	LOWER ACHILLES MOUNTING POST		M	2
91253A539		1/4-20 x 5/8" F.H.S.C.S.	McMASTER-CARR	P	8
91253A536		1/4-20 x 7/8" F.H.S.C.S.	McMASTER-CARR	P	6
91253A110		#4-40 x 1/2" F.H.S.C.S.	McMASTER-CARR	P	4
91251A110		#4-40 x 1/2" S.H.C.S.	McMASTER-CARR	P	2
T1FTM006	1	FOOT - TRI-PACK ACCELEROMETER ASSEMBLY		A	2
T1FTM012	5	FOOT 7264 TRI-PACK ACCELEROMETER MOUNTING PLATE		M	2
T1INM100	1	TRI-PACK ACCELEROMETER ASSEMBLY		A	2
T1INM130	6	TRI-PACK BLOCK		M	2
T1INM110	4	UNIAXIAL ACCELEROMETER	ENTRAN	I	6
91251A052		#0-80 X 1/8" S.H.C.S. (ALLOY)		P	12
90945A700		18-8 SS WASHER (0.063" ID, 0.099" OD, 0.014" MIN THK)		P	12
91251A102		#2-56 x 9/16" S.H.C.S. (Alloy)	McMASTER-CARR	P	4
ANKLE					
T1AKM000	12	ANKLE MECHANICAL ASSEMBLY		A	2
T1AKM001	2	CENTER BLOCK ASSEMBLY		A	2
T1AKM012	8	ANKLE CENTER BLOCK		M	2
T1AKM030	7	ANKLE TORQUE SHAFT UPPER JOINT - MECHANICAL ASSEMBLY		A	2
T1AKM031	8	TORQUE SHAFT - UPPER JOINT		M	2
8890980		0.098" Diam Gage Pin	MSC	P	2
T1AKM040	7	ANKLE TORQUE SHAFT LOWER JOINT - MECHANICAL ASSEMBLY		A	2
T1AKM041	5	TORQUE SHAFT - LOWER JOINT		M	2
8890980		0.098" Diam Gage Pin	MSC	P	2
98381A541		1/4" DIA X 7/8" DOWEL PIN	McMASTER-CARR	P	4
T1AKM002	2	DORSI - PLANTAR SOFT STOP ASSEMBLY		A	2
T1AKM024	5	DORSI - PLANTAR SOFT STOP BASE		M	2
T1AKM025	4	DORSI - PLANTAR SOFT STOP		M	2
T1AKM003	2	INVERSION/EVERSION SOFT STOP ASSEMBLY		A	4
T1AKM016	B0	INVERSION - EVERSION SOFT STOP		M	4
T1AKM019	9	SOFT STOP BRACKET		M	4
T1AKM010	13	BOTTOM TORQUE BASE		M	2
00060632		1/4-20 x 0.25" HELICOIL INSERT	MSC	P	16
00062703		#6-32 x 0.138" SCREW LOCK HELICOIL INSERT	MSC	P	8
T1AKM011	16	TOP TORQUE BASE		M	2
00060590		1/4-20 x 0.375" HELICOIL INSERT	MSC	P	8
T1AKM020	0	Z ROTATION BEARING		M	2
PS1216-8		LINEAR BEARING (.75" ID, 1.0" OD, 1.0" LENGTH)	PACIFIC BEARINGS	P	2
T1AKM013	5	POTENTIOMETER COVER		M	4
T1AKM014	6	TORQUE BASE CAP		M	8
T1AKM018	1	RUBBER TORQUE CYLINDERS		M	32
DR-S 11x50		ROSTA DR-S VIBRATION BLOCK	BEARINGS & DRIVES	P	3
T1AKM022	2	DELRIN SPACER WASHER		M	8
T1AKM026	0	DORSI - FLEXION SOFT STOP COVER		M	2
T1AKM027	0	ANKLE Z-ROTATION STOP		M	4
T1AKM050	2	ACHILLES PULLEY BRACKET ASSEMBLY		A	2
95630A238		#8 TEFLON WASHER	McMASTER-CARR	P	4
S99NH2-BN0608		STERLING INSTRUMENTS NEEDLE ROLLER BEARING	STERLING INSTRUMENTS	P	4
92141A005		#4 WASHER	McMASTER-CARR	P	4
91831A005		#4-40 NYLOCK NUT	McMASTER-CARR	P	4
T1AKM051	5	ACHILLES PULLEY BRACKET		M	2
T1AKM052	1	ACHILLES CABLE PULLEY SHAFT		M	2
T1AKM053	2	ACHILLES CABLE PULLEY		M	2

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
T1AKM100	2	BUSHING PLATE ASSEMBLY		A	8
T1AKM110	7	BUSHING PLATE - POT END		M	4
T1AKM111	3	BUSHING		M	8
T1AKM112	8	BUSHING PLATE - END COVER		M	4
T1AKM004	2	ANKLE RETAINING BOLT ASSEMBLY		A	2
T1AKM028	3	ANKLE BOLT SLEEVE		M	2
T1AKM029	1	ANKLE RETAINING BOLT		M	2
91259A624		3/8" X 1" SHOULDER BOLT	McMASTER-CARR	P	2
PD210-4B		CONTELEC ROTARY POTENTIOMETER	CONTELEC	P	6
91253A108		#4-40 x 3/8" F.H.S.C.S. (Alloy)	McMASTER-CARR	P	8
91253A153		#6-32 x 1" F.H.S.C.S. (Alloy)	McMASTER-CARR	P	8
92311A142		#6-32 x 1/8" S.S.S. (18-8 SS)	McMASTER-CARR	P	8
92311A146		#6-32 x 3/8" S.S.S. (18-8 SS)	McMASTER-CARR	P	4
91255A145		#6-32 x 5/16" B.H.S.C.S. (Alloy)	McMASTER-CARR	P	8
91253A148		#6-32 x 1/2" F.H.S.C.S. (Alloy)	McMASTER-CARR	P	8
91253A112		#4-40 x 5/8" F.H.S.C.S. (Alloy)	McMASTER-CARR	P	8
91255A539		1/4" - 20 x 5/8" B.H.S.C.S. (Alloy)	McMASTER-CARR	P	16
91253A110		#4-40 x 1/2" F.H.S.C.S. (Alloy)	McMASTER-CARR	P	4
LOWER LEG					
T1LLM000	13	LOWER LEG - MECHANICAL ASSEMBLY		A	2
T1LLM001	3	KNEE CLEVIS ASSEMBLY		A	2
T1LLM025	6	MOLDED KNEE BUMPER		M	2
T1LLM026	3	MOLDED KNEE BUMPER BACK PLATE		M	2
T1LLW020	7	KNEE CLEVIS WELDMENT		W	2
T1LLM021	8	KNEE CLEVIS - RIGHT		M	2
T1LLM022	7	KNEE CLEVIS - LEFT		M	2
T1LLM023	7	KNEE CLEVIS - BOTTOM PLATE		M	2
T1LLM024	7	KNEE BUMPER STIFFENER		M	2
91732A511		#10-32 x 0.19" HELICOIL INSERT	McMASTER-CARR	P	4
91255A263		#10-32 x 3/8" B.H.S.C.S. (Alloy)	McMASTER-CARR	P	4
T1LLM014	11	TIBIA GUARD		M	2
T1LLM002	4	LOWER TIBIA TUBE ASSEMBLY		A	2
T1LLM010	20	LOWER TIBIA TUBE		M	2
91732A515		1/4-28 x 0.25" HELICOIL INSERT	McMASTER-CARR	P	20
T1LLM414	0	MODIFIED LINEAR BEARING		M	2
PS1216-8		LINEAR BEARING 0.75" ID, 1.0" OD, 1" LENGTH	PACIFIC BEARINGS	P	2
PS1216-8		LINEAR BEARING 0.75" ID, 1.0" OD, 1.62" LENGTH	PACIFIC BEARINGS	P	2
T1LLM016	0	LOWER TIBIA TUBE PIN		M	2
98380A470		1/8" X 3/8" DOWEL PIN	McMASTER-CARR	P	2
T1LLM011	8	UPPER TIBIA TUBE		M	2
91732A515		1/4-28 x 0.25" HELICOIL INSERT	McMASTER-CARR	P	8
T1LLM012	10	UPPER TIBIA MOCK LOAD CELL		M	2
UPPER TIBIA LOAD CELL (ALTERNATE TO THE UPPER TIBIA MOCK LOAD CELL T1LLM012)					
4353 J		DENTON UPPER TIBIA LOAD CELL (4353 J)	DN	P	2
T1LLM013	14	LOWER TIBIA MOCK LOAD CELL		M	2
LOWER TIBIA LOAD CELL (ALTERNATE TO THE LOWER TIBIA MOCK LOAD CELL T1LLM013)					
4929 J		DENTON LOWER TIBIA LOAD CELL (4929 J)	DN	P	2
T1LLM015	1	TEFLON WASHER		M	2
T1LLM111	3	Z ROTATION WEDGE - #1		M	2
T1LLM112	2	Z ROTATION WEDGE - #2		M	2
T1INM110	4	THOR UNIAXIAL ACCELROMETER		P	4
T1LLM300	11	ACHILLES SPRING TUBE - MECHANICAL ASSEMBLY		A	2
T1LLM310	7	ACHILLES SPRING TUBE BASE		M	2
60269		#6-32 X 0.345 HELICOIL INSERT	MSC	P	8
T1LLM311	9	ACHILLES SPRING TUBE		M	2
T1LLM312	1	ACHILLES - PRIMARY LOAD WASHER		M	2
T1LLM313	2	ACHILLES - SPRING CAP		M	2
T1LLM314	2	ACHILLES - SPRING BASE CAP		M	2

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
T1LLM316	3	ELASTOMERIC SPRING ELEMENT		M	2
T1LLM317	2	ACHILLES - SOFT FOAM COMPRESSION ELEMENT		M	2
T1LLM318	4	ACHILLES CABLE RETAINING UNIT		M	2
93776A401		#10-32 HEX SERRATED FLANGE NUT (18-8 SS)	MSC	P	2
T1LLM319	7	ACHILLES CABLE ASSEMBLY		P	2
T1LLM320	2	MOCK ACHILLES LOAD CELL		M	2
ACHILLES LOAD CELL (ALTERNATE TO THE MOCK LOAD CELL T1LLM320)					
5145		DENTON ACHILLES LOAD CELL - 1000 LBF	DN	P	2
1S26090		COMPRESSION SPRING 3.5" - 137 lb/in.	MID-WEST EXPRESS	P	2
91375A103		#4-40 x 1/8" S.S.S. (Alloy)	McMASTER-CARR	P	2
T1LLM400	2	TIBIA COMPLIANT BUSHING ASSEMBLY		A	2
T1LLM410	7	COMPLIANT BUSHING PLUNGER		M	2
T1LLM411	9	COMPLIANT BUSHING - LOWER FLANGE		M	2
T1LLM412	6	COMPLIANT BUSHING		M	2
T1LLM413	5	PLUNGER RETAINING BOLTS		M	4
91251A440		1/4-28 x 3/4" S.H.C.S. (Alloy)	McMASTER-CARR	P	4
T1AKM021	1	TIBIA ROTARY POTENTIOMETER SHAFT		M	2
T1INM016	1	TIBIA GROUND STRAP	AMERICAN GROUNDING SYSTEMS	P	1
91255A553		1/4-28 x 1/2" B.H.S.C.S. (Alloy)	McMASTER-CARR	P	24
91253A303		1/4-28 x 1/2" F.H.S.C.S. (Alloy)	McMASTER-CARR	P	12
92695A152		#8-32 x 1/4" S.S.S (Cone Point)	McMASTER-CARR	P	2
91251A055		#0-80 x 1/4" S.H.C.S. (Alloy)	McMASTER-CARR	P	8
98381A504		3/16 x 7/16" Dowel Pin	McMASTER-CARR	P	4
98381A509		3/16 x 7/8" Dowel Pin	McMASTER-CARR	P	4
90945A700		18-8 SS WASHER (1/16" ID, 1/8" OD)	McMASTER-CARR	P	2
91255A555		1/4-28 x 5/8" B.H.S.C.S.	McMASTER-CARR	P	2
91255A559		1/4-28 x 7/8" B.H.S.C.S.	McMASTER-CARR	P	2
91251A439		1/4"-28 X 5/8" S.H.C.S.	McMASTER-CARR	P	8
T1LLS000	3	TIBIA FLESH - MECHANICAL ASSEMBLY		A	2
T1LLS010	1	LEFT TIBIA FLESH ASSEMBLY		A	1
T1LLS012	1	TIBIA FLESH LEFT		M	1
T1LLS014	1	ZIPPER		P	1
HDB9S-12"		YKK HEAVY DUTY 12" BRASS #9, SEPARATING 12"	YKK	P	1
T1LLS015	1	ZIPPER FLAPS		M	2
T1LLS011	2	RIGHT TIBIA FLESH ASSEMBLY		A	1
T1LLS013	1	TIBIA FLESH RIGHT		M	1
T1LLS014	1	ZIPPER		P	1
HDB9S-12"		YKK HEAVY DUTY 12" BRASS #9, SEPARATING 12"	YKK	P	1
T1LLS015	1	ZIPPER FLAPS		M	2
T1FTS000	3	FOOT SKIN - MECHANICAL ASSEMBLY		A	2
T1FTS010	2	FOOT FLESH - LEFT		S	1
FTM312	0	FOOT SKIN INSERT		M	1
T1FTS011	2	FOOT FLECH - RIGHT		S	1
FTM312	0	FOOT SKIN INSERT		M	1
T1AKE000	0	ANKLE ELECTRICAL ASSEMBLY		A	2
8876T11		1/8" WIRE CLAMP	McMASTER-CARR	P	8
91255A146		#6-32 X 3/8" B.H.S.C.S.	McMASTER-CARR	P	6
91255A144		#6-32 X 1/4" B.H.S.C.S.	McMASTER-CARR	P	2
T1LXC000	1	THOR-LX ANKLE ROTARY POTENTIOMETER CALIBRATION		A	
T1CEM420	0	ANKLE ROTARY POTENTIOMETER CALIBRATION FIXTURE		P	1
T1CEM421	0	CALIBRATION FIXTURE SHOULDER BOLT		M	2
91259A587	1	0.312" x 1 1/2 SHOULDER BOLT	McMASTER-CARR	P	2
T1CEM422	1	CALIBRATION FIXTURE SHOULDER BOLT # 2		M	4
93985A306		0.312" DIA X 3/4" SHOULDER BOLT (416 SS)	McMASTER-CARR	P	4
91251A440		1/4" - 28 x 3/4" S.H.C.S.	McMASTER-CARR	P	2
T1CEM410	1	ACHILLES CABLE CALIBRATION LOOP			1
3914T1		1/16" STOP SLEEVE	McMASTER-CARR	M	1

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG	QTY
				TYPE	PER DUMMY
3458T145		1x7 STRAND CORE 0.027" DIAMETER WIRE ROPE	McMASTER-CARR	P	1
MID-STERNUM					
T1MSM005	B0	MID STERNUM BONDING ASSEMBLY		A	
T1MSM010	B0	MID-STERNUM PLATE		M	1
T1MSM014	0	MID-STERNUM MASS DAMPING FOAM # 1		C	1
T1MSM011	B0	MID-STERNUM MASS		M	2
T1MSM012	B0	MID-STERNUM MASS DAMPING FOAM # 2		C	1
T1MSM015	0	MID-STERNUM RUBBER PAD		M	1
8635K161		1/32" THICK SHORE 60 A (+/-5)	McMASTER-CARR	P	1
NECK					
T1NKM000	10	NECK MECHANICAL ASSEMBLY		A	
T1NKM100	9	NECK CABLES ASSEMBLY		A	
T1NKM104	0	NECK FRONT STOP ASSEMBLY			
T1NKM105	0	NECK MOLDED ASSEMBLY			
T1NKM110	B0	NECK BASE		M	1
T1NKM112	B0	NECK PLATE 1		M	1
T1NKM114	B0	NECK PLATE 2		M	1
T1NKM115	B0	NECK PLATE 3		M	2
T1NKM116	B0	NECK TOP PLATE		M	1
T1NKM123	0	NECK FRONT STOP		M	1
98381A502		3/16" DIAM. X 5/16" DOWEL PIN	McMASTER-CARR	P	1
9838A473		1/8 X 3/4" DOWEL PIN	McMASTER-CARR	P	2
T1NKM117	9	NECK REAR CABLE ASSEMBLY		P	1
T1NKM127	0	FRONT AND REAR CABLE THREADED SWAGE		M	1
T1NKM118	3	NECK REAR CABLE GUIDE HALF		M	16
T1NKM119	2	NECK CENTER CABLE ASSEMBLY		P	1
T1NKM128	0	NECK CENTER CABLE THREADED SWAGE		M	1
T1NKM120	4	NECK CENTER CABLE FIXTURE		M	1
T1NKM122	10	NECK FRONT CABLE ASSEMBLY		P	1
T1NKM127	0	FRONT AND REAR CABLE THREADED SWAGE		M	1
T1NKM124	1	NECK CABLE COVER		M	1
T1NKM125	0	NECK TOP PLATE CABLE GUIDE		M	1
T1NKM126	0	NECK TOP PLATE CABLE GUIDE HALF		M	2
91253A077		#2-56 X 1/4" FHCS	McMASTER-CARR	P	2
T1NKM200	B1	NECK/HEAD MOUNTING PLATFORM ASSEMBLY		A	
T1NKM028	B0	NECK NON-ACTIVE SPRING LOAD CELL		M	2
T1NKM045	0	OC STOP ASSEMBLY		A	
T1NKM046	0	NECK FLEXION-EXTENSION STOP PLATE		M	1
T1NKM047	1	NECK FRONT OC STOP (CONTINUOUS)		M	1
T1NKM048	1	NECK REAR OC STOP (CONTINUOUS)		M	1
T1NKM210	B2	NECK/HEAD MOUNTING PLATFORM		M	1
00060343		#8-32 X 0.25 HELICAL INSERT	MSC	P	6
00060129		#4-40 X 0.224 HELICOIL INSERT	MSC	P	2
00060629		#6-32 X 0.345 HELICOIL INSERT	MSC	P	2
T1NKM211	5	NECK FRONT/REAR SPRING TUBE		M	2
T1NKM214	5	NECK FRONT CABLE BUSHING		M	1
T1NKM216	2	NECK OCCIPITAL CONDYLE BUSHING		M	2
T1NKM400	B1	NECK/HEAD PULLEY BRACKET ASSEMBLY		A	
T1NKM410	B1	NECK/HEAD REAR PULLEY BRACKET		M	1
T1NKM311	3	NECK REAR CABLE PULLEY SHAFT		M	1
T1NKM312	2	NECK REAR CABLE PULLEY		M	1
95630A238		TEFLON WASHER	McMASTER-CARR	P	4
92141A005		#4 FLAT WASHER	McMASTER-CARR	P	2

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
91831A005		#4-40 HEX NYLOCK NUT	McMASTER-CARR	P	2
S99NH2-BN0608		STERLING INSTRUMENTS NEEDLE ROLLER BEARING	STERLING INSTRUMENTS	P	2
T1NKM030	B1	NECK FRONT SPRING ASSEMBLY		A	
9-1012-21		3"L x .630" x .315" ID (+/- 5% RATE TOLERANCE)	DANLY	P	1
T1NKM031	B2	NECK FRONT SPRING DAMPING TUBE		M	1
5553K13		3/8"OD X 1/4"ID SHORE 65A TYGON TUBE	McMASTER-CARR	P	1
T1NKM023	4	NECK SPRING BUSHING		M	2
T1NKM050	B1	NECK REAR SPRING ASSEMBLY		A	
9-1014-26		3.5" L x .625" OD (+/- 5% RATE TOLERANCE)	DANLY	P	1
T1NKM051	B2	NECK REAR SPRING DAMPING TUBE		M	1
5119K63		3/8"OD X 1/4"ID SHORE 90A VITON TUBE	McMASTER-CARR	P	1
T1NKM023	4	NECK SPRING BUSHING		M	2
91253A192		8-32 X 3/8" F.H.S.C.S.	McMASTER-CARR	P	6
T1NKM300	3	NECK PULLEY BRACKET ASSEMBLY		A	
T1NKM310	5	NECK REAR PULLEY BRACKET		M	1
T1NKM311	3	NECK REAR CABLE PULLEY SHAFT		M	1
T1NKM312	2	NECK REAR CABLE PULLEY		M	1
95630A238		NECK TEFLON WASHER	McMASTER-CARR	P	4
S99NH2-BN0608		STERLING INSTRUMENTS NEEDLE ROLLER BEARING	STERLING INSTRUMENTS	P	2
92141A005		#4 WASHER	McMASTER-CARR	P	2
91831A005		#4-40 NYLOCK NUT	McMASTER-CARR	P	2
T1NKM500	3	NECK STOP ASSEMBLY		A	
T1NKM510	5	NECK STOP 2		M	1
T1NKM511	1	NECK SOFT STOP 2		M	1
T1NKM512	4	NECK STOP 1		M	1
T1NKM513	1	NECK SOFT STOP 1		M	1
T1NKM600	1	NECK NON-ACTIVE LOWER LOAD CELL ASSEMBLY		A	
T1NKM610	3	NECK NON-ACTIVE LOWER LOAD CELL TOP PLATE		M	1
T1NKM611	2	NECK NON-ACTIVE LOWER LOAD CELL MID BLOCK		M	1
00060582		1/4-20 X 0.25 HELICOIL	MSC	P	4
00060608		1/4-20 X 0.5 HELICOIL	MSC	P	4
T1NKM612	2	NECK NON-ACTIVE UPPER LOAD CELL BOTTOM PLATE		M	1
91253A542		1/4-20 X 1" ALLOY FHSCS	McMASTER-CARR	P	4
91253A539		1/4-20 X 5/8" FHSCS	McMASTER-CARR	P	4
LOWER NECK LOAD CELL (ALTERNATE TO THE NON-ACTIVE LOAD CELL T1NKM600)					
T11NM320	3	INSTRUMENT LOWER NECK LOAD CELL		I	1
T1NKM700	0	NECK MECHANICAL ASSEMBLY NON-ACTIVE UPPER LOAD CELL		A	
91253A536		#1/4-20 X 7/8" F.H.S.C.S.	McMASTER-CARR	P	4
91458A17		PERMANENT LOCTITE 262	McMASTER-CARR	P	1
T1NKM710	0	NECK NON-ACTIVE UPPER LOAD CELL UPPER PLATE		M	1
T1NKM711	0	NECK NON-ACTIVE UPPER LOAD CELL LOWER PLATE		M	1
UPPER NECK LOAD CELL (ALTERNATE TO THE NON-ACTIVE LOAD CELL T1NKM700)					
T11NM310	3	INSTRUMENT UPPER NECK LOAD CELL		I	1
T1NKM043	2	NECK OCCIPITAL CONDYLE CAM		M	1
T1NKM010	B2	NECK OCCIPITAL CONDYLE BOLT		M	1
T1NKM011	4	NECK KEY WASHER		M	2
T1NKM012	2	NECK FRICTION WASHER		M	1
T1NKM014	3	NECK PULLEY PLATE		M	1
T1NKM017	B0	NECK ROTARY POTENTIOMETER HOUSING		M	1
T1NKM018	B0	NECK ROTARY POTENTIOMETER HOUSING COVER		M	1
T1NKM022	4	NECK CABLE SEAT COVER		M	2
T1NKM024	2	NECK LOWER NECK LOAD CELL BUMPER COVER		M	1
T1NKM025	3	NECK LOWER NECK LOAD CELL BUMPER		M	1
T1NKM027	3	NECK OCCIPITAL CONDYLE SET SCREW		M	1

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
T1NKM029	0	NECK CENTER CABLE WASHER		M	1
UI36-0170		CURVED DISK SPRING WASHER	SPEC -BARNES	P	4
91081A027		#10 FLAT WASHER 1/4" ID, 9/16" OD, 0.046" THK	McMASTER-CARR	P	1
91831A029		1/4-20 NUT W/ NYLON INSERT	McMASTER-CARR	P	1
91255A269		#10-32 X 3/4" B.H.S.C.S. (ALLOY)	McMASTER-CARR	P	4
92314A239		#10-24 X 1/4" HEX HEAD	McMASTER-CARR	P	2
92831A411		#10-32 HEX NYLON INSERT LOCK NUT	McMASTER-CARR	P	2
91253A079		#2-56 X 3/8" F.H.S.C.S. (ALLOY)	McMASTER-CARR	P	4
91251A539		1/4-20 X 5/8" S.H.C.S. (ALLOY)	McMASTER-CARR	P	8
91831A120		1/4-28 NYLON INSERT LOCK NUT	McMASTER-CARR	P	1
90313A107		FLAT WASHER 9/32 ID X 1 OD X 3/64" THK	McMASTER-CARR	P	1
94639A144		NYLON SPACER .25 ID X .5 OD X .75"	McMASTER-CARR	P	1
98437A110		1/4" (.260 ID - .363 OD) LOCK WASHER	McMASTER-CARR	P	8
91255A117		#4-40 X 1 1/4" B.H.C.S	McMASTER-CARR	P	2
91255A105		#4-40 X 3/16" B.H.C.S	McMASTER-CARR	P	2
91251A190		#8-32 X 1/4" B.H.C.S. (ALLOY)	McMASTER-CARR	P	1
91255A145		#6-32 X 5/16" B.H.S.C.S. (ALLOY)	McMASTER-CARR	P	2
91255A146		#6-32 X 3/8" B.H.S.C.S. (ALLOY)	McMASTER-CARR	P	2
1420X050SP		1/4-20 X 5/8" S.H.C.S. - NP	COLD HEADERS	P	4
T1NKS000	3	NECK SKIN ASSEMBLY		A	
T1NKS100	B2	NECK FOAM ASSEMBLY		A	1
T1NKS110	B2	NECK FOAM		S	1
T1NKS112	B2	NECK FOAM REINFORCEMENT		F	1
9489K297		LOOP VELCRO (2" WIDE X 3.65" LONG)	McMASTER-CARR	F	1
9489K524		HOOK VELCRO (3/4" WIRE X 3.65" LONG)	McMASTER-CARR	F	1
T1NKS200	3	NECK SKIN		F	1
T1NKS210	0	NECK/HEAD SKIN ZIPPER	LENZIP CORP.	P	1
T1NKS211	0	NECK SKIN REAR ZIPPER	LENZIP CORP.	P	1
T1NKS212	0	NECK SKIN - OUTER CORDURA		F	1
W935ORD		9"X16" CORDURA FABRIC (RED)	PG	P	1
T1NKS213	0	NECK SKIN - INNER CORDURA		F	1
W935ORD		9"X16" CORDURA FABRIC (RED)	PG	P	1
T1NKS214	0	NECK SKIN - FOAM PATTERN		C	1
SCE 41		9"X16" 1/8" NEOPRENE W/NYLON COAT	GI	P	1
T1NKT010	0	NECK TOOL SPRING ADJUSTMENT SOCKET		M	1
5553A43		3/8" DEEP SOCKET	McMASTER-CARR	P	1
T1NKT011	1	NECK TOOL 3/8" RATCHET SPINNER		M	1
5522A27		3/8" RATCHET SPINNER	McMASTER-CARR	P	1
PELVIS					
T1PLM000	10	PELVIS ASSEMBLY		A	
T1PLM001	9	PELVIS MAIN SUBASSEMBLY		A	1
T1PLM200	5	PELVIC BOX ASSEMBLY		A	1
T1PLM201	2	PELVIS LEFT ACETABULAR ASSEMBLY		A	1
T1PLM211	B1	PELVIS LOAD CELL MOUNTING PLATE (LEFT)		M	1
T1PLM217	9	PELVIS SOCKET ADAPTOR (LEFT)		M	1
00061283		3/4-10 X .75 HELI-COIL INSERT	MSC	P	1
00060657		1/4-28 X .5 HELI-COIL INSERT	MSC	P	3
1420X785FP		.25-20UNC X 7/8" F.H.S.C.S (N-P)	COLD HEADERS	P	4
94945A225		.5-20UNC NYLOCK HEX JAM NUT	McMASTER-CARR	P	1
98023A033		STEEL FLAT WASHER .50 I.D, 1.06 OD	McMASTER-CARR	P	1
98381A537		.25X .50 DOWEL PIN	McMASTER-CARR	P	4
T1PLM220	2	NON-ACTIVE ACETABULAR LOAD CELL		M	1
TIPLM222	2	ACETABULAR BOTTOM PLATE		M	1
00060624		1/4-20 X .750 HELICOIL	MSC	P	4

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
T1PLM221	2	ACETABULAR TOP PLATE		M	1
91253A542		1/4-20 X 1" F.H.S.C.S	McMASTER-CARR	P	4
T1PLM202	2	PELVIS RIGHT ACETABULAR ASSEMBLY		A	1
T1PLM212	B1	PELVIS LOAD CELL MOUNTING PLATE (RIGHT)		M	1
T1PLM218	8	PELVIS SOCKET ADAPTOR (RIGHT)		M	1
00061283		3/4-10 X .75 HELI-COIL INSERT	MSC	P	1
00060657		1/4-28 X .5 HELI-COIL INSERT	MSC	P	3
1420X785FP		.25-20UNC X 7/8" F.H.S.C.S (N-P)	COLD HEADERS	P	4
94945A225		.5-20UNC NYLOCK HEX JAM NUT	McMASTER-CARR	P	1
98023A033		STEEL FLAT WASHER .50 I.D, 1.06 OD	McMASTER-CARR	P	1
98381A537		.25X .50 DOWEL PIN	McMASTER-CARR	P	4
T1PLM220	2	NON-ACTIVE ACETABULAR LOAD CELL		M	1
TIPLM222	2	ACETABULAR BOTTOM PLATE		M	1
00060624		1/4-20 X .750 HELICOIL	MSC	P	4
T1PLM221	2	ACETABULAR TOP PLATE		M	1
91253A542		1/4-20 X 1" F.H.S.C.S	McMASTER-CARR	P	4
T1PLM300	1	PELVIS FRICTION ADJUSTMENT SOCKET SET SCREW ASSEMBLY		A	1
T1PLM310	1	PELVIS FRICTION ADJUSTMENT SET SCREW		M	2
3410X075SS		3/4-10 X 3/4" S.S.S.	COLD HEADERS	P	2
T1PLM311	0	PELVIS FRICTION ADJUSTMENT NYLON TIP		M	2
T1PLM214	B1	PELVIS REAR PLATE		M	1
T1PLM213	4	PELVIS TOP PLATE		M	1
T1PLM215	1	PELVIS FRONT PLATE		M	1
91732A211		#10-32 HELI-COIL X .125"	McMASTER-CARR	P	2
91263A531		#10-24 UNC X .375 F.H.S.C.S	McMASTER-CARR	P	13
91263A551		.25-20 UNC X .375 F.H.S.C.S	McMASTER-CARR	P	4
T1PLM101	7	PELVIS TRI-PACK ACCELEROMETER - MECHANICAL ASSEMBLY		A	1
T1PLM112	6	PELVIS TRI-PACK ACCELEROMETER BRACKET		M	1
91732A203		#2-56 X 0.086 HELICAL INSERT	McMASTER-CARR	P	2
T11NM100	1	TRI-PACK ACCELEROMETER ASSEMBLY		A	1
T11NM130	6	TRI-PACK MOUNTING BLOCK		M	1
T11NM110	4	UNIAXIAL ACCELEROMETER	ENTRAN	I	3
91251A052		#0-80 X 1/8" S.H.C.S. (ALLOY)	McMASTER-CARR	P	6
90945A700		18-8 SS WASHER (0.063" ID, 0.099" OD, 0.014" MIN THK)	McMASTER-CARR	P	6
256X0625		#2-56UNC X 0.563" S.H.C.S.	COLD HEADERS	P	2
T1PLM010	B2	PELVIS BASE MODULE		M	1
000600582		1/4-20 X .25 HELICOIL	MSC	P	4
00060590		1/4-20 X .375 HELICOIL	MSC	P	4
00060608		1/4-20 X .5 HELICOIL	MSC	P	6
T1PLM013	3	PELVIS COCCYX		M	1
T1PLM014	2	PELVIS LEFT D POINT		M	1
T1PLM015	2	PELVIS RIGHT D-POINT		M	1
98381A540		.25 DIAM X .75" DOWEL PIN	McMASTER-CARR	P	1
91253A542		.25 DIAM - 20 UNC X 1" F.H.S.C.S	McMASTER-CARR	P	6
91251A146		#6 - 32 UNC X .375" S.H.C.S	McMASTER-CARR	P	4
91255A537		.25 DIAM - 20 UNC X .5" B.H.C.S	McMASTER-CARR	P	4
91253A540		.25 DIAM - 20 UNC X .75" F.H.S.C.S	McMASTER-CARR	P	8
T1PLM012	4	PELVIS WING MACHINING (RIGHT)		M	1
00060590		1/4-20 X .375 HELICOIL INSERT	MSC	P	2
T1PLM026	0	RIGHT WING CASTING		M	1
T1PLM011	4	PELVIS WING MACHINING (LEFT)		M	1
00060590		1/4-20 X .375 HELICOIL INSERT	MSC	P	2
T1PLM025	0	LEFT WING CASTING		M	1
T1PLM019	0	H-POINT TOOL BEARING		M	2
T1PLM017	0	ILLIAC LOAD CELL WASHER		M	2
T1PLM018	3	ILIAC LOAD CELL PLUNGER		M	2
T11NM410	1	UNIAXIAL COMPRESSION LOAD WASHER		I	2

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
T1PLM219	4	PELVIS MACHINED FRONT PELVIC CASTING		M	1
T1PLM111	2	PELVIS ACCELEROMETER COVER		M	1
91253A542		.25 DIAM - 20 UNC X 1" F.H.S.C.S	McMASTER-CARR	P	2
91253A536		.25 DIAM - 20 UNC X .875" F.H.S.C.S	McMASTER-CARR	P	4
91253A001		#10-32 UNF X .375 F.H.S.C.S	McMASTER-CARR	P	2
91253A539		.25 DIAM-20 UNC X .625" F.H.S.C.S	McMASTER-CARR	P	4
98381A470		.125 DIAM X .375 DOWEL PIN	McMASTER-CARR	P	2
91253A108		#4-40 X 3/8" F.H.S.C.S	McMASTER-CARR	P	2
98381A541		1/4" DIA X 7/8" DOWEL PIN	McMASTER-CARR	P	6
RP323-ND		1/8" NYLON P-CLAMP	DIGI-KEY	P	2
91255A148		#6-32 X 1/2" BHSCS (ALLOY)	McMASTER-CARR	P	2
T1PLS000	2	MOLDED PELVIS SKIN ASSEMBLY		A	
T1PLS010	B0	MOLDED PELVIS SKIN		S	1
SHOULDER					
T1SHM000	8	SHOULDER MECHANICAL ASSEMBLY		A	
T1SHM070	1	SHOULDER BLOCK ASSEMBLY (RIGHT)		A	
T1SHM079	B1	SHOULDER BLOCK BOND ASSEMBLY (RIGHT)		A	
T1SHW070	2	SHOULDER BLOCK WELD ASSEMBLY (RIGHT)		A	
T1SHM073	B1	SHOULDER BLOCK (RIGHT)		M	1
T1SHM075	B0	SHOULDER RIB SHELF (RIGHT)		M	1
T1SHM076	B0	SHOULDER RIB SHELF PAD		M	1
T1SHM077	0	SHOULDER INNER STOP ASSEMBLY		A	
T1SHM012	C0	SHOULDER INNER STOP END PLATE		M	1
T1SHM024	B0	SHOULDER INNER STOP BUMPER		M	1
92196A268		#10-32 X 7/16" SHCS	McMASTER-CARR	P	2
T1SHM071	1	SHOULDER BLOCK ASSEMBLY (LEFT)		A	
T1SHM078	B1	SHOULDER BLOCK BOND ASSEMBLY (LEFT)		A	
T1SHW071	2	SHOULDER BLOCK WELD ASSEMBLY (LEFT)		A	
T1SHM072	B1	SHOULDER BLOCK (LEFT)		M	1
T1SHM074	B0	SHOULDER RIB SHELF (LEFT)		M	1
T1SHM076	B0	SHOULDER RIB SHELF PAD		M	1
T1SHM077	0	SHOULDER INNER STOP ASSEMBLY		A	
T1SHM012	C0	SHOULDER INNER STOP END PLATE		M	1
T1SHM024	B0	SHOULDER INNER STOP BUMPER		M	1
92196A268		#10-32 X 7/16" SHCS	McMASTER-CARR	P	2
T1SHM002	3	SHOULDER CLAVICLE ASSEMBLY		A	
T1SHM019	X0	SHOULDER CLAVICLE		M	2
60745K23		BALL JOINT ROD END 5/16-24	McMASTER-CARR	P	4
90567A030		5/16-24 HEX JAM LOCKNUT	McMASTER-CARR	P	4
90692A145		3/32 X 5/8 SPRING PIN	McMASTER-CARR	P	4
T1SHM003	0	SHOULDER MOLDED RUBBER SLEEVE ASSEMBLY		A	
T1SHM031	1	SHOULDER MOLDED RUBBER SLEEVE		O	2
T1SHM032	1	SHOULDER BLOCK BUSHING		M	2
T1SHM004	1	SHOULDER PIVOT STOP ASSEMBLY		A	
T1SHM044	1	SHOULDER PIVOT STOP - RUBBER		M	2
T1SHM045	0	SHOULDER PIVOT STOP BUSHING		M	4
T1SHM005	3	SHOULDER YOKE ASSEMBLY		A	
T1SHM039	9	SHOULDER YOKE		M	2
T1SHM043	1	SHOULDER UPPER ARM SOFT STOP		M	2
98381A216		1/8" X 5/16" DOWEL PIN	McMASTER-CARR	P	6
98381A503		3/16" X 3/8" DOWEL PIN	McMASTER-CARR	P	10
T1SHM006	3	SHOULDER YOKE MOUNT ASSEMBLY- (LEFT)		A	
T1SHM020	10	SHOULDER YOKE MOUNT (LEFT)		M	1
00060350		#8-32 X 0.328 HELICAL INSERT	MSC	P	2
00060699		5/16-18 X 0.469 HELICAL INSERT	MSC	P	1
D45-625		DOWEL PIN, 5/32" DIA., 5/8" LONG	PIG	P	2

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
PSFO81204		.50ID X .75OD X .50 FLANGE BEARING	PB	P	1
PSFO81206		.50ID X .75OD X .75 FLANGE BEARING	PB	P	1
T1SHM007	3	SHOULDER YOKE MOUNT ASSEMBLY- (RIGHT)		A	
T1SHM021	10	SHOULDER YOKE MOUNT (RIGHT)		M	1
00060350		#8-32 X 0.328 HELICAL INSERT	MSC	P	2
00060699		5/16-18 X 0.469 HELICAL INSERT	MSC	P	1
D45-625		DOWEL PIN, 5/32" DIA., 5/8" LONG	PIC	P	2
PSFO81204		.50ID X .75OD X .50 FLANGE BEARING	PB	P	1
PSFO81206		.50ID X .75OD X .75 FLANGE BEARING	PB	P	1
T1SHM008	B0	SHOULDER OUTER STOP ASSEMBLY		A	
T1SHM013	B0	SHOULDER OUTSIDE STOP END PLATE		M	2
T1SHM025	B0	SHOULDER OUTER STOP BUMPER		M	2
T1SHM010	0	SHOULDER STERNUM/CLAVICLE WASHER		M	4
T1SHM011	1	SHOULDER STERNUM/CLAVICLE BOLT		M	2
51624X890BS		5/16 X .89" BUTTON HEAD SHOULDER BOLT	COLD HEADERS	P	2
T1SHM018	2	SHOULDER UPPER STERNAL PLATE		M	1
T1SHM022	7	SHOULDER SUPPORT (LEFT)		M	1
T1SHM023	7	SHOULDER SUPPORT (RIGHT)		M	1
T1SHM026	3	SHOULDER YOKE STEEL WASHER		M	2
T1SHM027	3	SHOULDER YOKE DELRIN WASHER		M	2
T1SHM028	3	SHOULDER YOKE MOUNT WASHER		M	4
T1SHM030	2	SHOULDER RUBBER WASHER I		M	4
T1SHM035	1	SHOULDER SHAFT		M	2
T1SHM037	1	SHOULDER JOINT SPRING WASHER		M	2
T1SHM038	3	SHOULDER YOKE PIVOT BUSHING		M	2
T1SHM040	5	UPPER ARM PIVOT BUSHING		M	2
T1SHM041	2	UPPER ARM PIVOT WASHER		M	2
T1SHM042	3	UPPER ARM PIVOT NUT		M	2
T1SHM046	3	SHOULDER PIVOT STOP - STEEL		M	2
T1SHM047	0	UPPER ARM JOINT SPRING WASHER		M	2
T1SHM051	2	SHOULDER NECK SHROUD SUPPORT (RIGHT)		M	1
T1SHM052	2	SHOULDER NECK SHROUD SUPPORT (LEFT)		M	1
T1SHS110	B0	MOLDED SHOULDER PAD (RIGHT)		O	1
T1SHS112	1	SHOULDER CAST PAD RIGID SUPPORT INSERT		M	1
T1SHS113	1	SHOULDER CAST PAD FLEXIBLE SUPPORT INSERT		M	1
T1SHS114	2	SHOULDER CAST PAD STAND OFF INSERT		M	3
T1SHS111	B0	MOLDED SHOULDER PAD (LEFT)		O	1
T1SHS112	1	SHOULDER CAST PAD RIGID SUPPORT INSERT		M	1
T1SHS113	1	SHOULDER CAST PAD FLEXIBLE SUPPORT INSERT		M	1
T1SHS114	2	SHOULDER CAST PAD STAND OFF INSERT		M	3
T1SHM991	0	SHOULDER CLAVICLE SPACER		M	2
T1SHM992	X1	SHOULDER CLAVICLE END COVER		M	2
91251A578		5/16-18 X 1/2" F.H.S.C.S	McMASTER-CARR	P	8
92949A542		1/4-20 X 1" B.H.S.C.S.	McMASTER-CARR	P	6
98370A021		WASHER 1" OD, 13/32" ID, 1/8" THK (S.S.)	McMASTER-CARR	P	4
91255A265		#10-32 X 1/2" B.H.S.C.S.	McMASTER-CARR	P	4
91259A718		1/2 X 1-3/4 SHOULDER SCREW	McMASTER-CARR	P	2
95615A140		3/8-16 LOCKNUT	McMASTER-CARR	P	4
91081A030		WASHER 3/8" ID, 7/8" OD, 5/64" THK	McMASTER-CARR	P	2
92383A262		SPRING PIN, 1/8 DIA. 1-1/4" LONG	McMASTER-CARR	P	2
91251A192		#8-32 x 3/8" S.H.C.S.	McMASTER-CARR	P	4
98029A031		FLAT WASHER 7/8" OD, 13/32" ID	McMASTER-CARR	P	2
91259A624		3/8 X 1" SOCKET SHOULDER SCREW	McMASTER-CARR	P	2
91251A196		#8-32 x 5/8" S.H.C.S.	McMASTER-CARR	P	4
91251A146		#6-32 x 3/8" S.H.C.S.	McMASTER-CARR	P	4
91910A520		5/16-18 X 1 1/4" S.H.C.S	McMASTER-CARR	P	2
51618X0625SP		5/16-18 X .625 BHSCS W/NYLON PELLETT	COLD HEADERS	P	2

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
SPINE					
T1SPM000	6	SPINE MECHANICAL ASSEMBLY		A	
T1SPM101	7	UPPER THORACIC SPINE MECHANICAL ASSEMBLY TRI-PACK ACCELEROMETER		A	
T1SPW120	3	UPPER THORACIC SPINE-WELDED BOX ASSEMBLY		W	
T1SPM121	5	UPPER THORACIC SPINE SIDE PLATE - RIGHT		M	1
T1SPM122	2	UPPER THORACIC SPINE SIDE PLATE - LEFT		M	1
T1SPM123	8	UPPER THORACIC SPINE BACK PLATE		M	1
T1INM100	1	TRI-PACK ACCELEROMETER ASSEMBLY			
T1INM130	6	TRI-PACK MOUNTING BLOCK			1
T1INM110	4	UNIAXIAL ACCELEROMETER	ENTRAN	I	3
91251A052		#0-80 X 1/8" S.H.C.S. (ALLOY)	McMASTER-CARR	P	6
90945A700		18-8 SS WASHER (0.063" ID, 0.099" OD, 0.014" MIN THK)	McMASTER-CARR	P	6
T1SPM114	4	SPINE T1 TRI-PACK ACCELEROMETER MOUNTING PLATE		M	1
00060012		#2-56 X 0.129" HELICAL INSERT	MSC	P	2
00060103		#4-40 x 0.112" HELICAL INSERT	MSC	P	2
91253A107		#4-40 X 5/16" F.H.S.C.S. (ALLOY)	McMASTER-CARR	P	2
2560625		#2-56 X 9/16" S.H.C.S. (ALLOY)	COLD HEADERS	P	2
RP324-ND		3/16" NYLON P-CLAMP	DIGI-KEY	P	1
91255A148		#6-32 X 1/2" BHSCS (ALLOY)	McMASTER-CARR	P	1
T1SPM310	B0	UPPER THORACIC SPINE FLEX JOINT MOLDED ASSEMBLY		O	
T1SPM311	B0	UPPER THORACIC SPINE FLEX JOINT TOP PLATE		M	1
T1SPM312	B0	UPPER THORACIC SPINE FLEX JOINT BOTTOM PLATE		M	1
T1SPM200	10	NECK PITCH CHANGE MECHANISM MECHANICAL ASSEMBLY		A	
T1INM501-2	0	TILT SENSOR ASSEMBLY - NECK		A	
T1INM500	0	BI AXIAL TILT SENSOR ASSEMBLY		A	
T1INM511	4	UNIVERSAL TILT SENSOR MOUNT		M	1
SX-060-LIN		SX-060-LIN	AOS	P	2
91255A078		#2-56 X 5/16 B.H.S.C.S (ALLOY)	McMASTER-CARR	P	4
RP-323-ND		1/8" NYLON CABLE CLAMP	DIGI-KEY	P	1
91251A080		#2-56 X .50 S.H.C.S.		P	1
92141A003		#2 WASHER 3/32" X 1/4"		P	1
T1SPM210	4	NECK PITCH CHANGE MECHANISM STAR PATTERN 1		M	1
T1SPM211	3	NECK PITCH CHANGE MECHANISM STAR PATTERN 2		M	1
T1SPM213	10	NECK PITCH CHANGE MECHANISM BASE PLATE		M	1
T1SPM216	13	NECK PITCH CHANGE MECHANISM TOP PLATE		M	1
T1SPM220	1	NECK PITCH CHANGE MECHANISM STAR PATTERN BOLTS		M	4
90298A535		1/4" DIA x 3/8" SHOULDER BOLT (SS)	McMASTER-CARR	P	4
97352A110		PULL-OUT DOWEL PIN, 1/4" X 3/4"	McMASTER-CARR	P	4
97395A435		1/8 DIA. X .375 L DOWEL PIN (SS)	McMASTER-CARR	P	2
91251A106		#4-40 X .25 SHCS (ALLOY)	McMASTER-CARR	P	1
91252A633		3/8-24 X 2 1/4 SHCS (ALLOY)	McMASTER-CARR	P	1
T1SPM400	3	LOWER THORACIC SPINE ASSEMBLY DRAWING		A	
T1SPW400	6	LOWER THORACIC SPINE WELDED ASSEMBLY		W	
T1SPM410	3	LOWER THORACIC SPINE RIB MOUNTING PLATE		M	1
T1SPM411	0	LOWER THORACIC SPINE TOP PLATE		M	1
T1SPM412	4	LOWER THORACIC SPINE CENTRAL PLATE		M	1
T1SPM413	0	LOWER THORACIC SPINE BOTTOM PLATE		M	1
T1INM500	0	TILT SENSOR ASSEMBLY			
T1INM511	4	UNIVERSAL TILT SENSOR MOUNT			1
SX-060-LIN		SX-060-LIN	AOS	P	2
91255A078		#2-56 X 5/16 B.H.S.C.S (ALLOY)	McMASTER-CARR	P	4
T1INM100	1	TRI-PACK ACCELEROMETER ASSEMBLY		A	
T1INM130	6	TRI-PACK BLOCK			1
T1INM110	4	UNIAXIAL ACCELEROMETER	ENTRAN	I	3
91251A052		#0-80 X 1/8" S.H.C.S. (ALLOY)	McMASTER-CARR	P	6
90945A700		18-8 SS WASHER (0.063" ID, 0.099" OD, 0.014" MIN THK)	McMASTER-CARR	P	6
91251A110		#4-40 X .5" SHCS (ALLOY)			1
256X0625		#2-56 X 9/16" SHCS (ALLOY)			2
98381A472		1/8" X 5/8" DOWEL PIN	McMASTER-CARR	P	2
98380A470		1/8" X 3/8" DOWEL PIN	McMASTER-CARR	P	6

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
T1SPM500	4	LUMBAR SPINE PITCH CHANGE ASSEMBLY		A	
T1SPM510	3	LUMBAR SPINE PITCH CHANGE UPPER-HALF ASSEMBLY		A	
T1SPM511	5	LUMBAR SPINE PITCH CHANGE TOP PLATE		M	1
T1SPM512	6	LUMBAR SPINE PITCH CHANGE STAR WHEEL - LEFT SIDE		M	1
91253A619		#3/8-16 X 5/8" F.H.S.C.S. (ALLOY)	McMASTER-CARR	P	3
T1SPM520	4	LUMBAR SPINE PITCH CHANGE LOWER-HALF ASSEMBLY		A	
T1SPM521	6	LUMBAR SPINE PITCH CHANGE BOTTOM PLATE		M	1
T1SPM522	8	LUMBAR SPINE PITCH CHANGE STAR WHEEL - RIGHT SIDE		M	1
91253A619		#3/8-16 X 5/8" F.H.S.C.S. (ALLOY)	McMASTER-CARR	P	3
91251A022		1/2-20 UNF X 2.5" S.H.C.S.	McMASTER-CARR	P	1
T1SPM501	3	LUMBAR PITCH CHANGE MECHANISM SPINE POSTURE ADJUSTMENT		A	
T1SPM523	0	LUMBAR SPINE PITCH CHANGE - PITCH CHANGE INDICATOR		M	1
91255A108		#4-40 X 3/8" B.H.S.C.S. (ALLOY)	McMASTER-CARR	P	2
T1SPM620	0	THORACIC SPINE LOAD CELL (NON-ACTIVE)		A	
T1SPM621	0	THORACIC SPINE LOAD CELL (NON-ACTIVE) UPPER PLATE		M	1
T1SPM622	0	THORACIC SPINE LOAD CELL (NON-ACTIVE) LOWER PLATE		M	1
91253A587		5/16-18 X 1.5" F.H.S.C.S. (ALLOY)		P	4
THORACIC SPINE LOAD CELL (ALTERNATE TO THE NON-ACTIVE LOAD CELL T1SPM620)					
T1INM330	2	INSTRUMENT THORACIC SPINE LOAD CELL		I	1
T1SPM609	1	THORACIC SPINE LOAD CELL DAAPTOR PLATE INSTRUMENTATION ASSEMBLY		A	
T1SPM610	8	THORACIC SPINE LOAD CELL/FLEX JOINT ADAPTOR PLATE		M	1
T1INM100	1	TRI-PACK ACCELEROMETER ASSEMBLY		A	
T1INM130	6	TRI-PACK BLOCK		M	1
T1INM110	4	UNIAXIAL ACCELEROMETER	ENTRAN	I	3
91251A052		#0-80 X 1/8" S.H.C.S. (ALLOY)	McMASTER-CARR	P	6
90945A700		18-8 SS WASHER (0.063" ID, 0.099" OD, 0.014" MIN THK)	McMASTER-CARR	P	6
T1INM500	0	BI AXIAL TILT SENSOR ASSEMBLY		A	
T1INM511	4	UNIVERSAL TILT SENSOR MOUNT		M	1
SX-060-LIN		SX-060-LIN	AOS	P	2
91255A078		#2-56 X 5/16 B.H.S.C.S (ALLOY)	McMASTER-CARR	P	4
256X0563		#2-56 X 9/16" S.H.C.S.	COLD HEADERS	P	2
98380A469		1/8 DIAM X 1/4" DOWEL PIN	McMASTER-CARR	P	2
91255A107		#4-40 X 5/16" B.H.S.C.S (ALLOY)	McMASTER-CARR	P	1
RP324-ND		3/16" NYLON P-CLAMP	DIGI-KEY	P	1
91255A148		#6-32 X 1/2" BHSCS (ALLOY)	McMASTER-CARR	P	1
T1SPM710	B0	LUMBAR SPINE FLEX JOINT MOLDED ASSEMBLY		O	
T1SPM711	B0	LUMBAR FLEX JOINT - TOP PLATE		M	1
T1SPM712	B0	LUMBAR FLEX JOINT - BOTTOM PLATE		M	1
T1SPM800	7	PELVIS/LUMBAR MOUNTING BLOCK MECHANICAL ASSEMBLY		A	
T1SPM805	0	PELVIS/LUMBAR MOUNTING BLOCK HARDWARE ASSEMBLY		A	
T1SPM811	1	PELVIS/LUMBAR BLOCK BUSHING		M	2
T1SPM810	B3	PELVIS/LUMBAR MOUNTING BLOCK		M	1
98380A472		1/8 DIA. X .625 L DOWEL PIN (ALLOY)		P	2
98380A537		1/4 DIA. X .5 L DOWEL PIN (ALLOY)		P	2
T1INM501-4	0	TILT SENSOR ASSEMBLY - PELVIS		A	
T1INM500	0	BI AXIAL TILT SENSOR ASSEMBLY		A	
T1INM511	4	UNIVERSAL TILT SENSOR MOUNT		M	1
SX-060-LIN		SX-060-LIN	AOS	P	2
91255A078		#2-56 X 5/16 B.H.S.C.S (ALLOY)	McMASTER-CARR	P	4
RP-322-ND		1/16" NYLON CABLE CLAMP	DIGI-KEY	P	1
91251A080		#2-56 X .50 S.H.C.S.		P	1
92141A003		#2 WASHER 3/32" X 1/4"		P	1
91251A110		#4-40 X .5 SHCS (ALLOY)		P	1
T1INM011	1	INSTRUMENT HEAD-NECK GROUND STRAP	AMERICAN GROUNDING SYSTEMS	P	1
1420X050FP		1/4-20 X 1/2" F.H.S.C.S. W/ NYLON PELLETT	COLD HEADERS	P	4
1420X050SP		1/4-20 X 1/2" S.H.C.S. W/ NYLON PELLETT	COLD HEADERS	P	8
51618X050FP		5/16-18 X 1/2" F.H.S.C.S. W/ NYLON PELLETT	COLD HEADERS	P	2
51618X0625SP		5/16-18 X 5/8" F.H.S.C.S. W/ NYLON PELLETT	COLD HEADERS	P	2
51618X075FP		5/16-18 X 3/4" F.H.S.C.S. W/ NYLON PELLETT	COLD HEADERS	P	18
51618X1FP		5/16-18 X 1" F.H.S.C.S. W/ NYLON PELLETT	COLD HEADERS	P	2

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG	QTY
				TYPE	PER DUMMY
91251A542		1/4-20 x 1" S.H.C.S (ALLOY)	McMASTER-CARR	P	4
91255A261		#10-32 X 1/4 B.H.S.C.S. (ALLOY)	McMASTER-CARR	P	1
91255A144		#6-32 X 1/4" B.H.S.C.S. (ALLOY)	McMASTER-CARR	P	1
THORAX					
T1TXM000	8	THORAX ASSEMBLY		A	
T1TXM310	2	THORAX ELLIPTICAL RIB #1 - ASSEMBLY		A	
T1TXM311	3	THORAX ELLIPTICAL RIB #1 - STEEL		M	1
T1TXM312	2	THORAX RIB #1 - DAMPING MATERIAL		M	2
T1TXM320	1	THORAX ELLIPTICAL RIB #2 - ASSEMBLY		A	
T1TXM321	3	THORAX ELLIPTICAL RIB #2 - STEEL		M	1
T1TXM322	1	THORAX RIB #2 - DAMPING MATERIAL		M	2
T1TXM330	B0	THORAX ELLIPTICAL RIB #3 - ASSEMBLY		A	
T1TXM331	4	THORAX ELLIPTICAL RIB #3 - STEEL		M	1
T1TXM332	B0	THORAX ELLIPTICAL RIB #3 DAMPING MATERIAL		M	2
T1TXM340	B0	THORAX ELLIPTICAL RIB #4 - ASSEMBLY		A	
T1TXM341	3	THORAX ELLIPTICAL RIB #4 - STEEL		M	1
T1TXM342	B0	THORAX RIB #4 DAMPING MATERIAL		M	2
T1TXM350	B0	THORAX ELLIPTICAL RIB #5 - ASSEMBLY		A	
T1TXM351	3	THORAX ELLIPTICAL RIB #5 - STEEL		M	1
T1TXM352	B0	THORAX RIB #5 DAMPING MATERIAL		M	2
T1TXM360	B0	THORAX ELLIPTICAL RIB #6 - ASSEMBLY		A	
T1TXM361	3	THORAX ELLIPTICAL RIB #6 - STEEL		M	1
T1TXM362	B0	THORAX ELLIPTICAL RIB #6 DAMPING MATERIAL		M	2
T1TXM370	B0	THORAX ELLIPTICAL RIB #7 ASSEMBLY		A	
T1TXM371	4	THORAX ELLIPTICAL RIB #7 - STEEL		M	1
T1TXM372	B0	THORAX ELLIPTICAL RIB #7 DAMPING MATERIAL		M	2
T1TXM010	5	THORAX ELLIPTICAL RIB STIFFENER #1		M	1
T1TXM011	6	THORAX ELLIPTICAL RIB STIFFENER #2		M	1
T1TXM012	6	THORAX ELLIPTICAL RIB STIFFENER #3		M	1
T1TXM013	6	THORAX ELLIPTICAL RIB STIFFENER #4		M	1
T1TXM014	6	THORAX ELLIPTICAL RIB STIFFENER #5		M	1
T1TXM015	5	THORAX ELLIPTICAL RIB STIFFENER #6		M	1
T1TXM016	5	THORAX ELLIPTICAL RIB STIFFENER #7		M	1
T1TXM017	0	RIB#1 LIFTING STRAP		M	1
3510T11		3/4" NYLON WEBBING		P	1
8800K42		.025" DIA. KEVLAR THREAD		P	1
T1TXM100	5	THORAX BIB ASSEMBLY		A	
T1TXM110	B0	THORAX OUTER BIB			1
9318T15		.0085" THREAD DIA, .0118" SQUARE	McMASTER-CARR	P	
T1MSM005	B0	MID STERNUM BONDING ASSEMBLY		A	
T1INM110	4	THOR UNIAXIAL ACCELROMETER			1
T1INM012	1	INSTRUMENT MID STERNUM GROUND STRAP	AMERICAN GROUNDING SYSTEMS	P	1
91255A263		#10-32 X 3/8" B.H.S.C.S. ALLOY	McMASTER-CARR	P	2
91251A052		#0-80 X 1/8" S.H.C.S. (ALLOY)	McMASTER-CARR	P	2
90945A700		18-8 SS WASHER (0.063" ID, 0.099" OD, 0.014" MIN THK)	McMASTER-CARR	P	2
91255A189		# 8-32 X 3/16" B.H.S.C.S (ALLOY)	McMASTER-CARR	P	1
T1INM013	1	INSTRUMENT THORACIC SPINE GROUND STRAP	AMERICAN GROUNDING SYSTEMS	P	1
51624X0375BP		5/16 - 24 X 3/8" B.H.S.C.S (ALLOY) W/NYLON PELLET	COLD HEADERS	P	4
51624X0005BP		5/16 - 24 X 1/2" B.H.S.C.S (ALLOY) W/NYLON PELLET	COLD HEADERS	P	10
91255A263		#10-32 X 3/8" B.H.S.C.S. ALLOY	McMASTER-CARR	P	2
91255A269		#10-32 X 3/4" B.H.S.C.S. ALLOY	McMASTER-CARR	P	4
91255A267		#10-32 X 5/8" B.H.S.C.S. (ALLOY)	McMASTER-CARR	P	4
90333A009		#8 -5/8" OD. FLANGED WASHER	McMASTER-CARR	P	16
91255A265		#10-32 X 1/2" B.H.S.C.S	McMASTER-CARR	P	2
90131A101		#10 (9/16" OD) REINFORCED RUBBER WASHER	McMASTER-CARR	P	2
3225T2		RUBBER-CUSHIONED STEEL LOOP STRAP FOR 1/4" OD	McMASTER-CARR	P	2
91255A238		#10-24 X 1/4" B.H.S.C.S (ALLOY)	McMASTER-CARR	P	2
98065A140		#10-32 S-STYLE CAGE CLIP-ON NUT	McMASTER-CARR	P	10
T1CXM010	2	RIB CONNECTING BOLT		M	4

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG	QTY
				TYPE	PER DUMMY
UPPER ABDOMEN					
T1UAM000	4	UPPER ABDOMEN MECHANICAL ASSEMBLY		A	
T1UAM010	2	UPPER ABDOMEN INTERNAL FOAM REAR LAYER		C	1
T1UAM011	2	UPPER ABDOMEN INTERNAL FOAM MIDDLE LAYER		C	1
T1UAM012	3	UPPER ABDOMEN INTERNAL FOAM FRONT LAYER		C	1
T1UAM013	3	UPPER ABDOMEN LOAD DISTRIBUTION PLATE		M	1
T1UAM014	2	UPPER ABDOMEN STRING/ACCELEROMETER MOUNT PLATE		M	1
T1UAM015	4	UPPER ABDOMEN ACCELEROMETER MOUNT		M	1
00060145		#4-40 X 0.336 HELICAL INSERT	MSC	P	2
00060483		#10-32 X 0.190 HELICAL INSERT	MSC	P	1
T1INM111	0	UNIAXIAL ACCELEROMETER 2000 g	ENTRAN	I	1
T1UAM100	4	UPPER ABDOMEN MOUNTING BRACKET MECHANICAL ASSEMBLY		A	
T1UAM110	5	UPPER ABDOMEN THORACIC INSTRUMENTATION BRACKET		M	1
T1UAM111	BO	UPPER ABDOMEN THORACIC INSTRUMENTATION BRACKET BASE PLATE		M	1
T1UAM113	7	UPPER ABDOMEN SPINAL MOUNT BRACKET		M	1
91253A544		1/4-20 X 1 1/4" F.H.S.C.S.	McMASTER-CARR	P	2
91253A539		1/4-20 X 5/8" F.H.S.C.S.	McMASTER-CARR	P	4
T1UAM200	5	UPPER ABDOMEN INSTRUMENTATION MOUNTING PLATE MECHANICAL ASSEMBLY		A	
T1UAM210	3	UPPER ABDOMEN PULLEY WHEEL MOUNTING BLOCK		M	1
T1UAM211	2	UPPER ABDOMEN PULLEY WHEEL AXLE BOLT		M	1
91251A347		#10-32 x 1" S.H.C.S (ALLOY)	McMASTER-CARR	P	1
T1UAM212	2	UPPER ABDOMEN PULLEY WHEEL		M	1
T1UAM213	1	UPPER ABDOMEN STRING POT. MOUNT BRACK.		M	1
T1UAM252	7	UPPER ABDOMEN INTERNAL MOUNT PLATE FRONT		M	1
T1INM230	2	STRING POTENTIOMETER		M	1
57155K144		DIA 1/8" MINIATURE RADIAL BEARINGS	McMASTER-CARR	P	2
95630A235		TEFLON FLAT WASHER	McMASTER-CARR	P	2
91375A108		#4-40 X 3/8" S.S.S. (ALLOY)	McMASTER-CARR	P	2
91253A146		#6-32 X 3/8" F.H.S.C.S.	McMASTER-CARR	P	7
91251A055		#0-80 X 1/4" S.H.C.S.	McMASTER-CARR	P	2
91253A110		#4-40 X 1/2" F.H.S.C.S.	McMASTER-CARR	P	2
90945A700		18-8 SS WASHER (0.063 ID, 0.099 OD)	McMASTER-CARR	P	2
91253A583		5/16-18 X 1" F.H.S.C.S.	McMASTER-CARR	P	2
T1UAF300	3	UPPER ABDOMEN BAG-SEWING ASSEMBLY		A	
T1UAF301	1	UPPER ABDOMEN SEWING ASSEMBLY		A	
9604K22		1/4" GROMMET	McMASTER-CARR	P	4
9604K24		3/8" GROMMET	McMASTER-CARR	P	2
T1UAF310	1	UPPER ABDOMEN FRONT VELCRO PATCH		F	1
T1UAF311	3	UPPER ABDOMEN TOP/SIDE/REAR FABRIC PATTERN		F	1
T1UAF312	1	UPPER ABDOMEN BOTTOM FABRIC PATTERN		F	1
T1UAF313	2	UPPER ABDOMEN FRONT STIFFENING CLOTH		F	1
T1UAF314	3	UPPER ABDOMEN FRONT OVERLAY FABRIC PATTERN		F	1
T1UAF315	4	UPPER ABDOMEN ZIPPER		F	1
MGMOL-106DAGS/4		YKK ZIPPER AND SLIDER	YKK	F	1
CALIBRATION EQUIPMENT					
T1CEM100	1	CRUX CALIBRATION FIXTURE MECHANICAL ASSEMBLY		A	
T1CEM110	0	CRUX CALIBRATION - BASE PLATE - SHEET 1		M	1
T1CEM111	0	CRUX CALIBRATION - BASE PLATE - SHEET 2		M	1
T1CEM112	0	CRUX CALIBRATION - BASE PLATE - SHEET 3		M	1
T1CEM113	0	CRUX CALIBRATION - BASE PLATE - SHEET 4		M	1
T1CEM120	0	CRUX CALIBRATION - SPACER BLOCK		M	1
T1CEM130	0	CRUX CALIBRATION - BASE MOUNT		M	1
T1CEM140	1	CRUX CALIBRATION - U-JOINT MOUNT		M	1
91253A006		#10-32 X 5/8" F.H.S.C.S.	McMASTER-CARR	P	2
91251A342		#10-32 X 1/2" S.H.C.S.	McMASTER-CARR	P	3
T1CEM200	1	DGSP CALIBRATION FIXTURE MECHANICAL ASSEMBLY		A	

THOR NT BILL OF MATERIAL

PART#	REV	DESCRIPTION	VENDOR	DWG TYPE	QTY PER DUMMY
T1CEM210	1	DGSP CALIBRATION - BASE PLATE		M	1
T1CEM211	1	ROTARY POT. MOUNTING BRACKET		M	1
T1CEM212	1	TELESCOPIC MOUNTING BRACKET		M	1
T1CEM213	1	SHOULDER BOLT		M	1
91829A303		5/16 x 3/8" SHOULDER BOLT (SS)	McMASTER-CARR	P	1
57155K156		5/16 MINIATURE BEARINGS	McMASTER-CARR	P	1
98381A477		1/8 X 1.25" DOWEL PIN	McMASTER-CARR	P	1
98381A419		1/16 X 1/2" DOWEL PINS	McMASTER-CARR	P	2
91251A242		#10-24 X 1/2" S.H.C.S.	McMASTER-CARR	P	1
T1CEM300	0	POTENTIOMETER #1 CALIBRATION FIXTURE ASSEMBLY		A	
T1CEM310	2	POTENTIOMETER #1 CALIBRATION BASE PLATE		M	1
T1CEM311	2	POTENTIOMETER #1 HOLDER/ARMATURE		M	1
T1CEM312	0	POTENTIOMETER D-SHAFT		M	1
8890980		0.098 GAGE PIN	MSC	P	1
98380A546		1/4" DIAM. X 1-1/8" DOWEL PIN	McMASTER-CARR	P	1
91251A107		#4-40 X 5/16" S.H.C.S (ALLOY)	McMASTER-CARR	P	2

MOLDING EQUIPMENT

T1LLS016	0	TIBIA MOLD INSERT		M	1
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