

THOR-FLx (SMALL FEMALE)/HYBRID III RETROFIT VERSION - BILL OF MATERIALS

VERSION 1.0

05/02/01

Revision A

PART#	DESCRIPTION	VENDOR	DWG. TYPE	QTY. PER DUMMY	REV.	MATERIAL
<b>T2LXB000</b>	<b>THOR-FLX MECHANICAL ASSEMBLY</b>		<b>A</b>	<b>2</b>	<b>N/C</b>	
<b>T2LXM001</b>	<b>TLX - LOWER MECHANICAL ASSEMBLY</b>		<b>A</b>	<b>2</b>	<b>N/C</b>	
T2LLM014	TIBIA GAURD		M	2	1	URETHANE
91255A555	1/4-28 x 5/8" B.H.S.C.S. (ALLOY)	McMASTER-CARR	P	2		PURCHASED
91949A563	1/4-28 x 5/8" B.H.S.C.S. (ALLOY)	McMASTER-CARR	P	8		PURCHASED
<b>T2FTM000</b>	<b>FOOT - MECHANICAL ASSEMBLY</b>		<b>A</b>	<b>2</b>	<b>4</b>	
T2FTM210	FOOT SOLE REINFORCEMENT PLATE		M	2	N/C	6061-T6
T2FTM214	HEEL PAD		M	2	1	NEOPRENE
T1FTM014	ANKLE MOUNTING BOLTS		M	8	1	MOD PURCHASED
91253A542	1/4-20 x 1" F.H.S.C.S. (ALLOY)	McMASTER-CARR	P	4		PURCHASED
91251A540	1/4-20 x 3/4" S.H.C.S. (ALLOY)	McMASTER-CARR	P	4		PURCHASED
91253A542	1/4-20 x 1" F.H.S.C.S. (ALLOY)	McMASTER-CARR	P	4		PURCHASED
T2FTM010	MACHINED FOOT PLATE		A	2	3	CARBON FIBRE
93415A021	#4-40 x 0.25" EXPANSION INSERT	McMASTER-CARR	P	4		PURCHASED
T2FTM006	TRI-PACK ACCELEROMETER ASSEMBLY		A	2	1	
T1FTM012	TRI-PACK MOUNTING PLATE		M	2	3	6061-T6
T1INM130	TRI-PACK BLOCK		M	2	1	7075-T6
T1INM110	UNIAXIAL ACCELEROMETER - 2000 g	ENDEVCO or ENTRAN	P	6	1	PURCHASED
91253A110	#4-40 x 1/2" F.H.S.C.S. (ALLOY)	McMASTER-CARR	P	4		PURCHASED
91251A055	#0-80 x 1/4" S.H.C.S. (ALLOY)	McMASTER-CARR	P	12		PURCHASED
91251A102	#2-56 x 9/16" S.H.C.S. (ALLOY)	McMASTER-CARR	P	4		PURCHASED
<b>T2FTS000</b>	<b>FOOT SKIN MECHANICAL ASSEMBLY</b>		<b>A</b>	<b>2</b>	<b>N/C</b>	
T2FTS011	FOOT FLESH - LEFT		M	1	1	URETHANE FOAM
T2FTS010	FOOT FLESH - RIGHT		M	1	N/C	URETHANE FOAM
<b>T1AKM000</b>	<b>ANKLE - MECHANICAL ASSEMBLY</b>		<b>A</b>	<b>2</b>	<b>1</b>	
T2AKM011	UPPPER JOINT BASE		M	2	5	7075-T6
T2AKM020	Z-ROTATION BEARING		M	2	1	MOD PUCHASED
PS1216-8	0.75" ID, 1.0" OD, 1" LENGTH LINEAR BEARING	PACIFIC BEARINGS	P	2		PURCHASED
T2AKM026	D/P SOFT STOP BUMPER		M	2	N/C	DELRIN
T2AKM027	Z ROTATION SOFT STOP		M	4	1	NEOPRENE
T2AKM028	ANKLE JOINT SPACERS		M	12	N/C	MOD PURCHASED
90295A170	NYLON WASHER (3/8" ID, 3/4" OD, 1/16" THK.)	McMASTER-CARR	P	12		PURCHASED
T2AKM110	D/P JOINT BEARING HOUSING - POT END		M	2	6	7075-T6
T2AKM114	LINEAR BEARING: 3/8" ID, 5/8" OD, 1/2" LENGTH		M	2	1	SAE 660
T2AKM111	D/P JOINT BEARING HOUSING -END CAP		M	2	8	7075-T6

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T2AKM114	LINEAR BEARING: 3/8" ID, 5/8" OD, 1/2" LENGTH		M	2	1	SAE 660
T2AKM120	D/P POT HOUSING		M	2	6	7075-T6
T2AKM112	I/E JOINT BEARING HOUSING - POT END		M	2	5	7075-T6
T2AKM114	LINEAR BEARING: 3/8" ID, 5/8" OD, 1/2" LENGTH		M	2	1	SAE 660
T2AKM113	I/E BEARING HOUSING - CAP END		M	2	7	7075-T6
T2AKM114	LINEAR BEARING: 3/8" ID, 5/8" OD, 1/2" LENGTH		M	2	1	SAE 660
T2AKM121	I/E POT HOUSING		M	2	4	7075-T6
T2AKM029	ANKLE RETAINING BOLT		M	2	N/C	MOD
						PURCHASED
91259A624	3/8" DIA. x 1" SHOULDER BOLT	McMASTER-CARR	P	2		PURCHASED
91253A108	#4-40 x 3/8" F.H.S.C.S. (ALLOY)	McMASTER-CARR	P	8		PURCHASED
91253A110	#4-40 x 1/2" F.H.S.C.S. (ALLOY)	McMASTER-CARR	P	4		PURCHASED
91253A151	#6-32 x 3/4" F.H.S.C.S. (ALLOY)	McMASTER-CARR	P	2		PURCHASED
91251A153	#6-32 x 1" S.H.C.S. (ALLOY)	McMASTER-CARR	P	4		PURCHASED
94115A303	1/4-28 x 1/4" NYLON TIPPED SSS (ALLOY)	McMASTER-CARR	P	16		PURCHASED
91375A108	#4-40 x 3/8" S.S.S.	McMASTER-CARR	P	4		PURCHASED
91251A110	#4-40 x 1/2" S.H.C.S. (ALLOY)	McMASTER-CARR	P	2		PURCHASED
91251A148	#6-32 x 1/2" S.H.C.S. (ALLOY)	McMASTER-CARR	P	4		PURCHASED
PD210-4B	CONTELEC ROTARY POTENTIOMETER	CONTELEC	P	6		PURCHASED
T2AKM001	CENTER BLOCK ASSEMBLY		A	2	N/C	
T2AKM014	ANKLE LOCKING PIN		M	2	1	440 C
T2AKM012	ANKLE CENTER BLOCK		M	2	3	7075-T6
T2AKM030	ANKLE TORQUE SHAFT - UPPER ASSEMBLY		A	2	2	
T2AKM031	ANKLE TORQUE SHAFT - UPPER		M	2	2	440 C
8890980	0.0980" DIA. GAGE PIN	MSC	P	2		PURCHASED
T2AKM040	ANKLE TORQUE SHAFT - LOWER ASSEMBLY		A	2	2	
T2AKM041	ANKLE TORQUE SHAFT - LOWER		M	2	3	440 C
8890980	0.0980" DIA. GAGE PIN	MSC	P	2		PURCHASED
T2AKM002	D/P SOFT STOP ASSEMBLY		A	2	N/C	
T2AKM025	D/P JOINT SOFT STOP		M	2	4	NEOPRENE
T2AKM024	D/P SOFT STOP BASE		M	2	2	6061-T6
T2AKM003	I/E SOFT STOP ASSEMBLY		A	2	2	
T2AKM016	I/E JOINT SOFT STOP		M	2	3	NEOPRENE
T2AKM019	I/E SOFT STOP / ACHILLES BASE		M	2	3	7075-T6
T2AKM050	ACHILLES PULLEY ASSEMBLY		A	2	N/C	
T2AKM051	ACHILLES PULLEY BRACKET		M	2	2	7075-T6
T2AKM052	ACHILLES CABLE PULLEY SHAFT		M	2	1	ETD 150
T2AKM053	ACHILLES CABLE PULLEY		M	2	1	OILITE BRONZE
95630A238	TEFLON WASHER	McMASTER-CARR	P	4		PURCHASED

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92141A005	#4 WASHER	McMASTER-CARR	P	4		PURCHASED
91831A005	#4-40 NYLOCK NUT	McMASTER-CARR	P	4		PURCHASED
S99NH2-BN0608	NEEDLE ROLLER BEARING	STERLING INSTRUMENTS	P	4		PURCHASED
<b>T2LLM000</b>	<b>LOWER LEG - MECHANICAL ASSEMBLY</b>		<b>A</b>	<b>2</b>	<b>1</b>	
T2LLM012	UPPER TIBIA MOCK LOAD CELL		M	2	2	1018 STEEL
T2LLM013	LOWER TIBIA MOCK LOAD CELL		M	2	4	1018 STEEL
T2LLM413	PLUNGER RETAINING BOLTS	McMASTER-CARR	M	4	N/C	MOD PURCHASED
91251A440	#1/4-28 x 3/4" S.H.C.S.	McMASTER-CARR	P	4		PURCHASED
T2AKM021	Z ROTATION POTENTIOMETER SHAFT		M	2	N/C	1018 STEEL
T2LLM111	WEDGE #1		M	2	1	SAE 954
T2LLM112	WEDGE #2 - LOCK OUT		M	2	1	SAE 954
T2INM110	UNIAXIAL ACCELEROMETER	ENDEVCO or ENTRAN	P	2	1	PURCHASED
91255A553	1/4-28 x 1/2" B.H.S.C.S. (ALLOY)	McMASTER-CARR	P	16		PURCHASED
91253A303	1/4-28 x 1/2" F.H.S.C.S. (ALLOY)	McMASTER-CARR	P	8		PURCHASED
92785A190	#8-32 x 1/4" S.S.S. CONE PT.	McMASTER-CARR	P	2		PURCHASED
91251A055	#0-80 x 1/4" S.H.C.S. (ALLOY)	McMASTER-CARR	P	8		PURCHASED
98381A504	3/16" x 7/16" DOWEL PIN (ALLOY)	McMASTER-CARR	P	4		PURCHASED
98381A509	3/16" x 7/8" DOWEL PIN (ALLOY)	McMASTER-CARR	P	4		PURCHASED
4825	DENTON UPPER TIBIA LOAD CELL	DENTON	P	2		PURCHASED
4626	DENTON LOWER TIBIA LOAD CELL	DENTON	P	2		PURCHASED
T2LLM300	ACHILLES SPRING TUBE ASSEMBLY		A	2	1	
T2LLM310	ACHILLES SPRING TUBE BASE		M	2	2	7075-T6
T2LLM311	ACHILLES SPRING TUBE		M	2	2	6061-T6
T2LLM312	ACHILLES PRIMARY LOAD WASHER		M	2	1	DELTRIN
T2LLM314	SPRING BASE CAP		M	2	N/C	440 C SS
T2LLM315	LOAD CELL BASE WASHER		M	2	1	440 C SS
T2LLM317	SOFT FOAM COMPRESION ELEMENT		M	2	N/C	FOAM
T2LLM318	ACHILLES CABLE RETAINING NUT		M	2	1	MOD PURCHASED
93776A401	#10-32 SERRATED HEX FLANGE NUT	MSC	P	2		PURCHASED
T2LLM319	ACHILLES CABLE ASSEMBLY		M	2	2	
T2LLM320	MOCK ACHILLES LOAD CELL		M	2	N/C	6061-T6
94115A103	#4-40 x 1/8" NYLON TIPPED S.S.S.		P	2		PURCHASED
T2LLM301	ACHILLES SPRING ASSEMBLY		A	2	1	
T2LLM316	ACHILLES ELASTOMERIC SPRING ELEMENT		M	2	N/C	NEOPRENE TUBE
T2LLM313	ACHILLES SPRING CAP		M	2	N/C	DELTRIN
1S19075	COMPRESSION SPRING (91.4 LB/IN)	MID WEST EXPRESS	P	2		PURCHASED
T2LLM002	LOWER TIBIA TUBE ASSEMBLY		A	2	1	

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T2LLM010	LOWER TIBIA TUBE	M	2	5	7075-T6
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91732A515	1/4-28 x 0.25" HELICOIL INSERT	McMASTER-CARR	P	16		PURCHASED
PS101408	LINEAR BEARING 5/8" ID, 7/8" OD, 1" LENGTH	PACIFIC BEARINGS	P	4		PURCHASED
T2LLM400	COMPLIANT PLUNGER ASSEMBLY		A	2	N/C	
T2LLM411	COMPLIANT BUSHING LOWER FLANGE		M	2	6	7075-T6
T2LLM412	TIBIA COMPLIANT ELEMENT		M	2	1	NEOPRENE
T2LLM410	COMPLIANT ELEMENT PLUNGER		M	2	2	440 C SS
T2LLS000	FLX - LOWER MECHANICAL ASSEMBLY		A	2	N/C	
T2LLS010	TIBIA SKIN FINAL ASSEMBLY	DENTON-ATD	A	2	1	
T2LLS011	TIBIA MOLDED SKIN (LEFT)		S	1	1	
T2LLS012	TIBIA MOLDED SKIN (RIGHT)		S	1	1	
T2LLS013	TIBIA SKIN ZIPPER FLAP ASSEMBLY		A	2	1	
T2LLS014	TIBIA SKIN ZIPPER FLAP		M	4	N/C	VINYL
T2LLS020	TIBIA MOLD INSERT		A	2	N/C	
T2LLS021	MOLD INSERT - ANKLE DETAIL		M	2	N/C	
<b>T2LLM001</b>	<b>KNEE CLEVIS ASSEMBLY DRAWING</b>		<b>A</b>	<b>2</b>	<b>N/C</b>	
91255A263	#10-32 x 3/8" B.H.S.C.S. (ALLOY)	McMASTER-CARR	P	4		PURCHASED
T2LLM020	KNEE WELDMENT		A	2	3	6061-T6
T2LLM021	KNEE CLEVIS - LEFT		M	2	3	6061-T6
T2LLM022	KNEE CLEVIS - RIGHT		M	2	3	6061-T6
T2LLM023	BOTTOM PLATE		M	2	3	6061-T6
T2LLM024	KNEE BUMPER STIFFENER		M	2	2	6061-T6
T2LLM025	MOLDED KNEE BUMPER		A	2	1	URETHANE
T2LLM026	MOLDED KNEE BUMPER BACK PLATE		M	2	1	1018-CRS
<b>T2LXM002</b>	<b>MECHANICAL KNEE ASSEMBLY</b>		<b>A</b>	<b>2</b>	<b>N/C</b>	
T2KNM021	KNEE OUTBOARD COVER - RIGHT		M	2	5	URETHANE
T2KNM022	KNEE INBOARD COVER - RIGHT		M	2	5	URETHANE
T2KNM019	KNEE OUTBOARD COVER - LEFT		M	2	4	URETHANE
T2KNM020	KNEE INBOARD COVER - LEFT		M	2	4	URETHANE
91251A344	#10-32 x 5/8 S.H.C.S. (ALLOY)	McMASTER-CARR	P	8		PURCHASED
91253A001	#10-32 x 3/8 F.H.C.S. (ALLOY)	McMASTER-CARR	P	8		PURCHASED
T2KNP000	KNEE ASSEMBLY - PURCHASED PARTS	McMASTER-CARR	P/A	2	1	PURCHASED
88105-802	SLIDING KNEE BALL BEARING ASSEMBLY - RIGHT	DENTON-ATD	P/A	1		PURCHASED
88105-801	SLIDING KNEE BALL BEARING ASSEMBLY - LEFT	DENTON-ATD	P/A	1		PURCHASED
88105-508	KNEE FLESH - LEFT AND RIGHT	DENTON-ATD	P	2		PURCHASED
88105-511	KNEE INSERT	DENTON-ATD	P	2		PURCHASED

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T2LXC000

ANKLE POTENTIOMETER CALIBRATION

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N/C

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T2CEM420	ROTARY POT CALIBRATION FIXTURE		M	1	N/C	6061-T6
T2CEM421	SHOULDER BOLT		M	4	N/C	MOD PURCHASED
T2CEM422	SHOULDER BOLT #2		M	6	N/C	MOD PURCHASED
92949A564	1/4-28 x 3/4" B.H.S.C.S. (ALLOY)	McMASTER-CARR	P	2		PURCHASED
T1CEM410	ACHILLES CABLE CALIBRATION LOOP		A	1	N/C	
3458T145	1x7 STRAND CORE 0.027" DIA WIRE ROPE	McMASTER-CARR	P	1		PURCHASED
3914T1	1/16" STOP SLEEVE	McMASTER-CARR	P	1		PURCHASED
<b>T2AKE000</b>	<b>ANKLE - ELECTRICAL ASSEMBLY</b>		<b>A</b>	<b>2</b>	<b>N/C</b>	
8876T11	1/8" WIRE CLAMP	McMASTER-CARR	P	8		PURCHASED
91255A148	#6-32 x 3/8" B.H.S.C.S.	McMASTER-CARR	P	6		PURCHASED
91255A144	#6-32 x 1/4" B.H.S.C.S.	McMASTER-CARR	P	2		PURCHASED