

THOR ALPHA Drawing Package Specifications

DRAWING FILE NAMING SYSTEM:

AABBCNNN

AA - The first set of letters are used as the name given to the crash test dummy and will remain consistent through-out the entire package of drawing.

T1 = THOR 50th percentile male dummy.

BB - The second set of letters refers to the body area of the dummy. The two letter descriptor tags can be found in the chart labeled Two Letter Descriptor Tags For Body Areas.

C - A single letter noting the type of drawing.

M	Mechanical Drawing	S	Skins
E	Electrical Drawing	T	Assembly Tools
W	Welding Drawing	C	Connector Wire
P	Purchased Dummy Part	A	Drawing Arrangement
I	Instrument Wire	X	Drawing Index
F	Fabric Pattern	B	Bill of Materials

NNN - The last three digits are a numbering scheme for the different levels of drawings such as an assembly drawing, subassembly drawing, and part or detail drawing. In general, the examples given below applies to the majority of the drawings but due to the complexity of some of the parts in the dummy these may vary slightly.

000	Denotes an assembly drawing.
100, 200, ... 900	Denotes a subassembly drawing.
010, 011, ... 099	
110, 111, ... 199	
210, 211, ... 299	Denotes a part drawing.
.....	
910, 911, ... 999	

2 LETTER DESCRIPTOR TAGS FOR BODY AREAS

AREA	2 LETTER TAG
FULL DUMMY ASSEMBLY	FD
ANKLE	AK
ARMS	AM
CRUX	CX
DGSP	DP
FACE	FC
FEMUR	FM
FOOT	FT
HEAD	HD
INSTRUMENTATION	IN
JACKET	JK
KNEE	KN
LOWER ABDOMEN	LA
THOR-LX	LX
LOWER LEG	LL
MID-STERNUM	MS
NECK	NK
PELVIS	PL
SHOULDER	SH
SPINE	SP
THORAX	TX
UPPER ABDOMEN	UA
CALIBRATION EQUIPMENT	CE
MOLDING EQUIPMENT	ME
TEXT DOCUMENT	TD

REVISIONS:

The denotation of revisions to drawings are indicated within the title block located in the lower left-hand corner of a drawing. The latest revision number will be indicated in the designated area labeled "revision". If there is no revision number or the abbreviation N/C (No Change) is shown, it means that no modification has been done to the drawing and is considered to be revision "0". If a letter precedes the revision number starting with the letter "B", the original part drawing was replaced with an entirely new part drawing but the original drawing

number was kept.

A description of modifications made to a drawing will be listed under the revisions section located in the top right hand corner of a drawing. The category under revisions labeled "zone" identifies the location of the major modification done to a drawing. The zone will be identified by a letter corresponding to one of the letters listed along the sides of the border of a drawing and a number corresponding to one of the numbers listed along the top or bottom of the border of a drawing. For example, a change made to a drawing at a "zone" of "D3", the letter "D" would be read from the side of the border and the number "3" would be read from top/bottom of the border. The imaginary intersection that the letter/number combination makes is the location of the modification made to a drawing.

VENDOR ABBREVIATIONS:

For convenience, the names of vendors were abbreviated. The abbreviation of the vendor is followed by the part number.

AOS	ADVANCED ORIENTATION SYSTEMS 1901 EAST LINDEN AVENUE, UNIT # 22 LINDEN, NJ 07036-1110 PHONE # (908) 474-9595 ; FAX # (908) 474-9090
AST	APPLIED SAFETY TECHNOLOGY 10313 MILAN ROAD MILAN, OHIO 44846 PHONE # (419) 625 - 5200 ; FAX # (419) 625-5335
BD	BEARINGS AND DRIVES 35 WEST BROAD STREET WEST HAZELTON, PA 18201 PHONE # (717) 459-0333, FAX # (717) 459-1977
BEL	BELDEN INC. 2500 BRAGA DRIVE BROADVIEW, IL 60153 PHONE # (708) 344-4600 ; FAX # (708) 344-0245
BO	BOKER'S INC. 3104 SNELLING AVE. SOUTH MINNEAPOLIS, MN 55406-1937 PHONE # (612) 729-9365 ; FAX # (612) 729-8910
CG	CIBA-GEIGY CORPORATION - FORMULATED MATERIALS 4917 DAWN AVE. EAST LANSING, MI 48823 (517) 351 - 5900

CH COLD HEADERS
5514 NORTH ELSTON AVENUE
CHICAGO, IL 60630-1380
PHONE # (773)775-7900 ; FAX # (773)775-0779

CON CONTELEC (NOVOTECHNIK U.S. INC.)
237 CEDAR HILL STREET
MARLBORO, MA 01752
PHONE # (508) 485-2244 ; FAX # (508)485-2430

CU CONAP URETHANE
1405 BUFFALO ST.
OLEAN, NY 14760-1139
PHONE # (716) 372-9650 ; FAX # (716) 372-1594

CZ CUSTOM ZIPS
PO BOX 1200
SOUTH NORWALK, CT 06856
PHONE # (203) 866-1540

DA DANKO ARLINGTON, INC.
4800 EAST WABASH AVE.
BALTIMORE, MD 21215-5583
PHONE # (410) 664 - 8930 ; FAX # (410) 664 - 0891

DK DIGI - KEY
701 BROOKS AVENUE SOUTH
P.O. BOX 677
THIEF RIVER FALLS, MN 56701-0677
PHONE # (800) 344-4539 ; (218) 681-3380

DNA 10317 US HWY. 250 N.
MILAN, OH 44846-9570
PHONE # (419) 625-5200; FAX # (419) 625-5335

DN DENTON
2967 WATERVIEW DRIVE
ROCHESTER HILLS, MI 48309
PHONE # (248) 852-5100 ; FAX # (248) 852-6060

DTC DYNAMATION TRANSDUCERS CORPORATION
348 MARSHALL ST.
HOLLISTON, MA 01746
PHONE # (508) 429 - 8440; FAX # (508) 429 - 1317

EAR EAR SPECIALITY COMPOSITES
7911 ZIONSVILLE RD.
INDIANAPOLIS, IN 46268
PHONE # (317) 692-3000 ; FAX # (317) 692-3112

EN ENTRAN
10 WASHINGTON AVE.
FAIRFIELD, NJ 07004-3877
PHONE # (201) 227-1002 ; FAX # (201) 227-6865

END ENDEVCO
198 WEST STREET
ANNAPOLIS, MD 21401
PHONE # (410) 269-8800; FAX # (410) 268-5676

FG FIBRE-GLAST DEVELOPMENTS CORP.
95 MOSIER PARKWAY
BROOKVILLE, OH 45309
PHONE # (800) 821-3283 ; FAX # (937) 833-6555

FTSS FIRST TECHNOLOGY SAFETY SYSTEMS
47460 GALLEON DRIVE
PLYMOUTH, MICHIGAN 48170
PHONE # (313)451-7878 ; FAX # (313)451-9549

FX FOAMEX
1641 BORDER AVE.
TORRANCE, CA 905901-2810
PHONE # (310) 328-1332

GN GEON, INC. (FORMERLY BF GOODRICH)
6100-T OAKTREE BLVD.
INDEPENDENCE, OHIO 44131
PHONE # (216) 447-6000

IBC INDUSTRIAL BRAKE AND SUPPLY
1608 ELMORE STREET
CINCINNATI, OH 45223
PHONE # (800) 543 - 1906 ; FAX # (513) 542 - 1507

MCM MCMASTER CARR
473 RIDGE ROAD
DAYTON, NEW JERSEY 08810-0317
PHONE # (908)329-3200 ; FAX # (908) 329-3772

MG MOUNTAIN GEAR
730 N HAMILTON
SPOKANE, WA 99202
PHONE # (800)829-2009;

MW MERRYWEATHER FOAMS
11 BROWN ST.
BARBERTON, OH 44203-2300
PHONE # (330) 753-0353 ; FAX # (330) 753-1127

MWE MID-WEST EXPRESS
8 GREENWOOD AVE.
ROMEDEVILLE, IL 60441-1399
PHONE # (815) 886-7812 ; FAX # (815) 886-1510

PB PACIFIC BEARING
P.O. BOX 6980
ROCKFORD, IL 61125-6980
PHONE # (800) 962-8979 ; FAX # (815) 962-3818

PG PARA-GEAR EQUIPMENT COMPANY
3839 W. OAKTON ST.
SKOKIE, IL 60076-3438
PHONE # (847) 679 - 5905 ; FAX # (847) 679 - 8644

PIC PRECISION INDUSTRIAL COMPONENTS CORP.
86 BENSON RD.
P.O. BOX 1004
MIDDLEBURY, CT 06762-1004
PHONE # (800) 243 - 6125

RHM RHM TECHNOLOGIES
ONE MAIN ST.
YAPHANK, NY 11980
PHONE # (516) 924-2455 ; FAX # (516) 924-2619

RS RADIO SHACK
FOR NEAREST LOCATION CALL 1-800-THE-SHACK

SAC SPACE AGE CONTROLS
38850 20TH STREET EAST
PALMDALE, CA 93550
PHONE # (805) 273-3000 ; FAX # (805)273-4240

SAV SAVA INDUSTRIES, INC.
4 NORTH CORPORATE DRV.
P.O. BOX 30
RIVERDALE, NJ 07457-0030
PHONE # (201) 835-0882, FAX # (210) 835-0877

SB SPEC-BARNES
ASSOCIATED SPRING - RAYMOND BARNES GROUP
PO BOX 77152
DETROIT, MI 48277
PHONE # (800) 872-7732 ; FAX # (419) 891 - 9192

SI STERLING INSTRUMENTS
2101 JERICHO TURNPIKE
BOX 5416
NEW HYDEPARK, NY 11042-5416
PHONE # (516) 328-3300 ; FAX # (516)326-8827

TT TRANSDUCER TECHNIQUES
43178 BUSINESS PARK DR.
TEMECULA, CA 92590
PHONE # (909) 676-3965 ; FAX # (909) 676-1200

YKK YKK U.S.A., INC.
SOUTHEAST MANUFACTURING B
1306 COBB INDUSTRIAL DRV.
P.O. BOX 6729
MARIETTA, GA 30062

SCREW ABBREVIATIONS:

F.H.S.C.S.	FLAT HEAD SOCKET CAP SCREW
B.H.S.C.S.	BUTTON HEAD SOCKET CAP SCREW
S.H.C.S.	SOCKET HEAD CAP SCREW
S.S.S	SOCKET SET SCREW

MATERIAL ABBREVIATIONS:

CRS	COLD ROLLED STEEL
SS	STAINLESS STEEL
AL	ALUMINUM

BILL OF MATERIALS - PART TYPE ABBREVIATIONS:

A	ASSEMBLY
C	CUT FOAM OR PLASTIC
Q	CAST METAL PART
F	FABRIC OR SEWN PATTERN
I	PURCHASED INSTRUMENT
M	MACHINED PART
O	MOLDED PART
P	PURCHASED
S	SKIN
W	WELDED ASSEMBLY

ADDITIONAL ABBREVIATIONS:

N/C	NO CHANGE
UL	UPPER LEFT
UR	UPPER RIGHT
LL	LOWER LEFT
LR	LOWER RIGHT
DGSP	DOUBLE GIMBALLED STRING POTENTIOMETER
CRUX	COMPACT ROTARY UNIT
B.C.	BOLT CIRCLE

BORDER SIZES:

The border sizes are as follows:

- Border A = 10.5" x 8"
- Border B = 16.5" x 10.5"
- Border C = 21.5" x 16.5"
- Border D = 33.5" x 21.5"
- Border E = 43.5" x 33.5"