



AERO 130

Release 2.0

Preventive Care & Spare Parts

ITW TRANS TECH, An Illinois Tool Works Company, 475 North Gary Avenue, Carol Stream, IL 60188-4900

Phone: 630.752.4000 Fax: 630.752.4460 Web Site: www.itwtranstech.com

Preventive Maintenance

- Test both side covers (guards) to make sure that the switches are operational.
- Test E-Stop functionality.
- Drain filter/regulator bowl as necessary.
- Verify the proper operation of the printer.
- Keep the Cliché Support (9902-29-000) clean and free of ink buildup.
- Lubricate the horizontal guide shaft (Dwg. 9902-27-000 Item# 22) and the vertical guide shafts (9902-33-000 Items# 5) every 500 hours of operation. (McMaster Carr p/n 1200K21 recommended.)

Recommended Spares

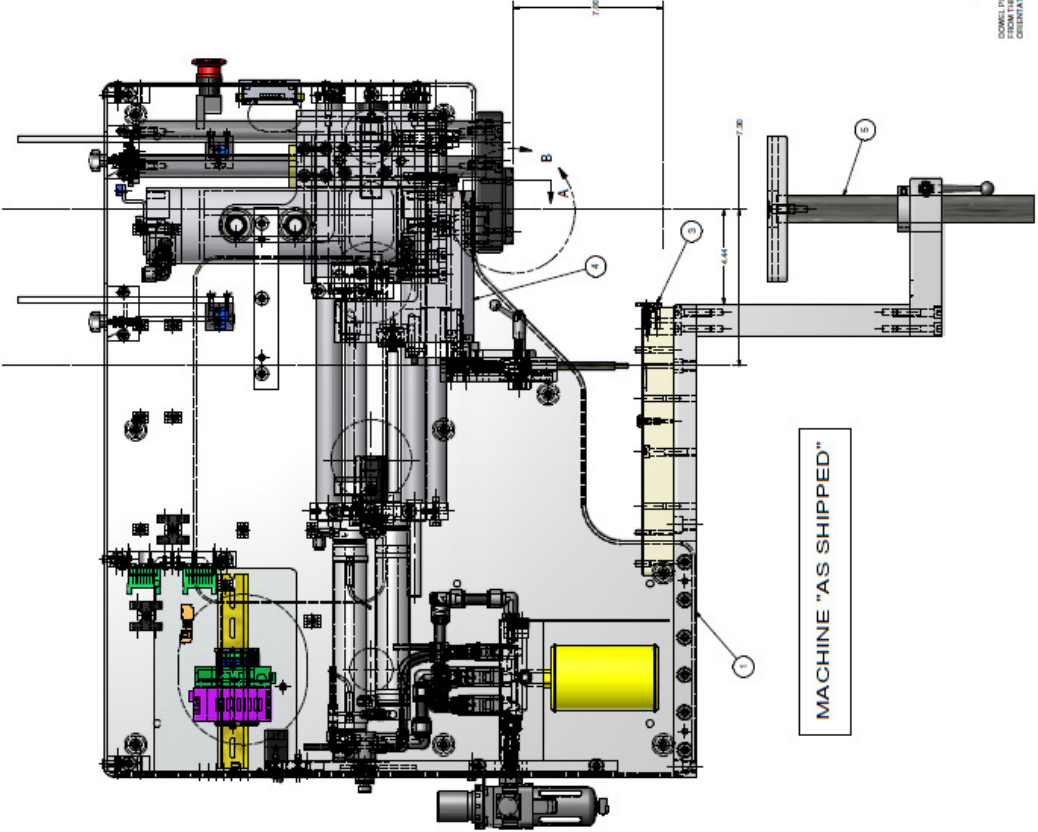
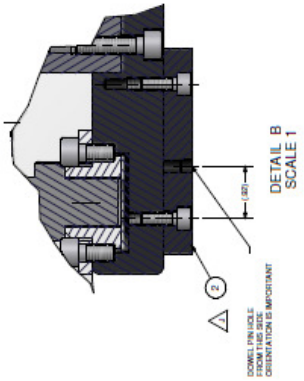
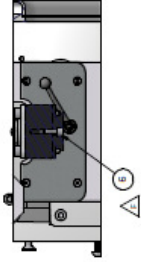
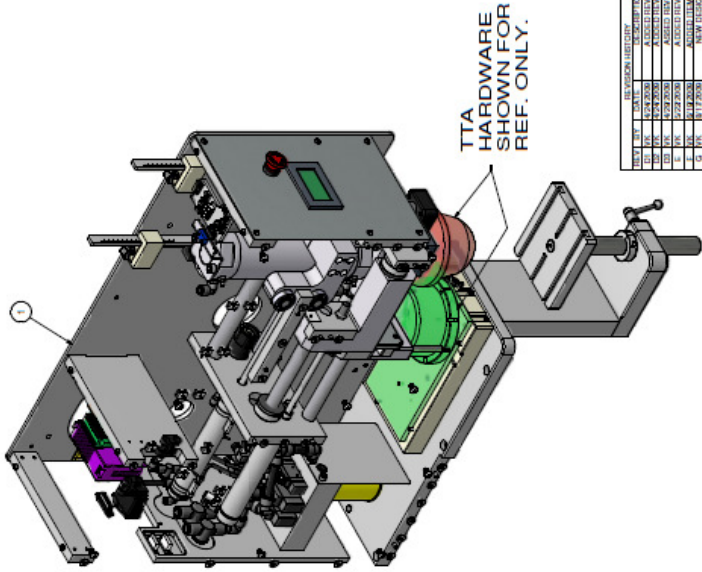
Description	Drawing Number	Item Number
E-stop assembly	9902-03-000	15
130 Cup Holder assembly	9902-30-002	1
Shock Absorber	230-01-040	19
Shock Absorber	230-01-041	40
Proximity Switch, Magnetic	p/n 332-33-001	
Reed Switch,24vdc	p/n 332-08-017	

List of Drawings

Drawing Number	Description
9902-01-000R	AERO 130 RAW
9902-03-000	AERO PAD PRINTER 130 – BASE MODEL
9902-15-000	SCALE ADJ. ASSY
9902-22-000	PAD CYLINDER ASSY
9902-23-000	CUP DRIVE – 130
9902-27-000	CUP DRIVE SLIDE ASSY
9902-28-000	PART SUPPORT ASSY, STANDARD
9902-29-000	CLICHÉ SUPPORT – ITW – 130
9902-30-000	SETUP TABLE ASSY 130
9902-30-002	130-CUP HOLDER ASSY
9902-33-000	PAD – RAM SLIDE ASSY
9902-40-000	FRAME ASSY
9902-80-000	BRACKET – CONTROL MTG ASSY
9902-81-000	ELECTRICAL ASSY
9902-91-000	PNEUMATIC ASSY

PART LINE			DESCRIPTION	VENDOR
ITEM	QTY	PART NUMBER		
1	1	9902-05-000	AERO PAD PRINTER, 130 BASE MODEL	
2	1	9902-06-000	BASE SUPPORT, 130	
3	1	9902-08-000	12 CHIE SUPPORT, 130	
4	1	9902-27-000	CUP DRIVE SLIDE ASSY	
5	1	9902-28-000	PART SUPPORT ASSY, STANDARD	
6	2	91790A021	MSX 16 GB, 8PCS	MEMASTER

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1	1	9902-05-000	AERO PAD PRINTER, 130 BASE MODEL	
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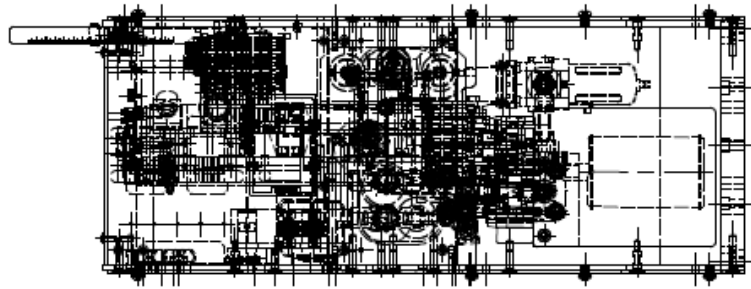
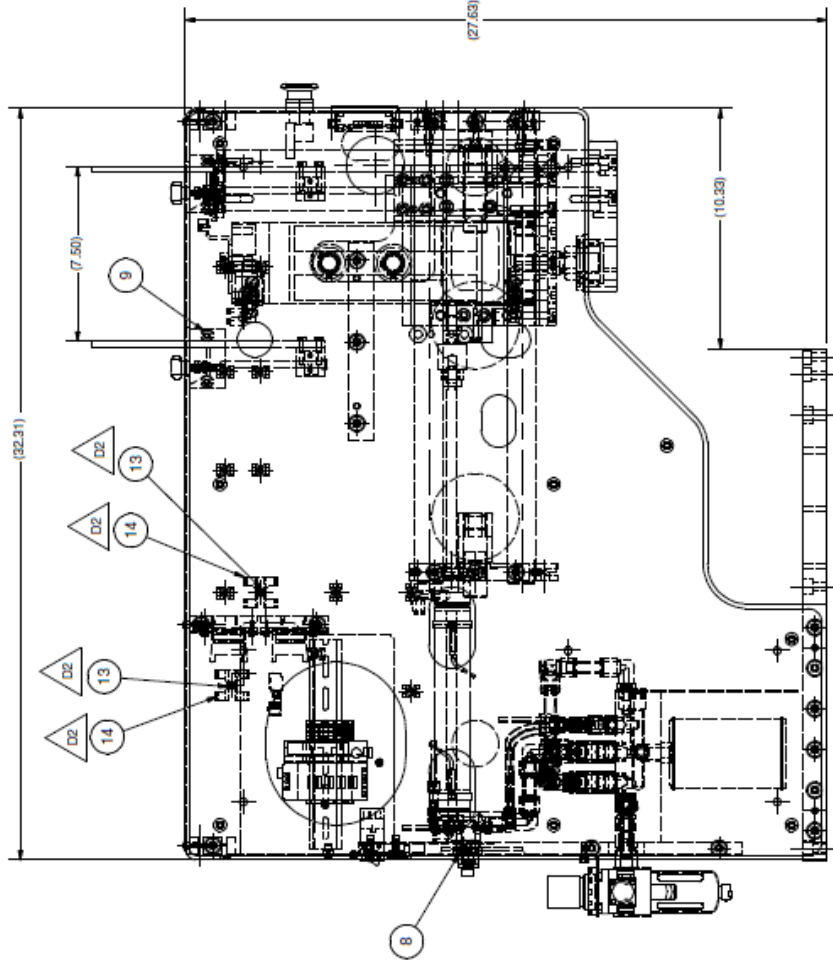
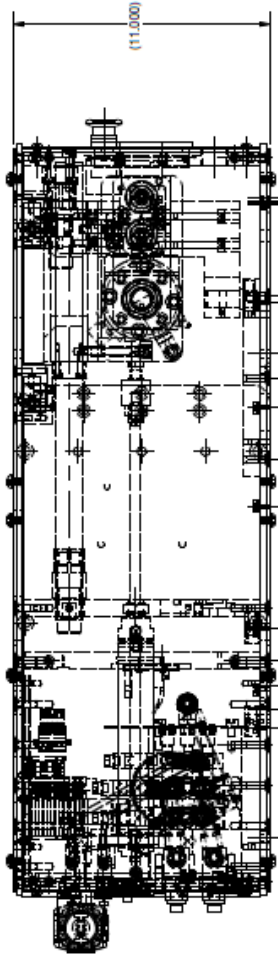
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Parts List				
ITEM	QTY	PART NUMBER	DESCRIPTION	VENDOR
1	1	9902-40-000	FRAME ASSY	
2	1	9902-33-000	PAD - RAM SLIDE ASSY	
3	2	9902-15-000	SCALE ADJ. ASSY	
4	1	9902-76-001	GUARD - SIDE L.H.	
5	1	9902-76-002	GUARD - SIDE R.H.	
6	1	9902-81-000	ELECTRICAL ASSY	
7	1	9902-91-000	PNEUMATIC ASSY	
15	1	D7D-MT44X02	RED E-STOP ASSY WITH N.C. CONTACTS	STANDARD
8	6	91294A286	M8 x 25 FHCS	MCMASTER
9	4	91294A240	M8 x 20 LG. SHCS	MCMASTER
10	18	91239A416	M8 x 12 MM LG. BHCS BLACK OXIDE	MCMASTER
11	11	91239A140	M4 x 8 LG. BHCS	MCMASTER
12	11	7568K13	CABLE STRAP	MCMASTER
		7130K41	CABLE TIES	MCMASTER
13	2	91294A196	M4 x 20 LG. FHCS	MCMASTER
14	2	7429K45	1/2 TO 5/8 TWO-CHANNEL PLASTIC STRAP	MCMASTER



REVISION HISTORY			
REV	BY	DATE	DESCRIPTION
B1	VK	1/14/2009	DESIGN
C1	VK	4/24/2009	ADDED REV C
D1	VK	4/24/2009	ADDED REV C
D2	VK	6/04/2009	ADDED REV E
D3	VK	6/04/2009	ADDED REV E
D4	VK	6/15/2009	ADDED REV C
D5	VK	6/15/2009	ADDED REV C
D6	VK	6/15/2009	ADDED REV C
E	VK	8/05/2010	ADDED TIA PART NO.
F	VK	8/13/2010	ADDED VENDOR
G	VK	10/05/2010	ADDED ITEMS



DETAIL NAME	AERO PAD PRINTER 130 - BASE MODEL
MATL FINISH	HEAT TREAT
MATERIAL	NONE
SEE PARTS LIST	
CHECKED	SCALE
BY	DATE
Mto	4/1/2009
SIZE	DRAWING NO.
C	9902-03-000
REV.	G

REF: 9902-00-001	ITW TRANS TECH
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XX ± .010	
XXX ± .005	
XXX ± .005	
ANGLES ± .5°	
FRACTIONS: ± 1/64" BREAK ALL CORNERS 1/64"	

Parts List				
ITEM	QTY	PART NUMBER	DESCRIPTION	VENDOR
1	1	9902-15-001	PLATE - SENSOR MAGNET	
2	1	9902-15-002	BRACKET - SCALE LOCATOR	
3	1	9902-15-003	CLAMP - SCALE	
4	1	9902-15-004	SCALE	
5	2	91290A103	M2.5 x 10 LG. SHCS	MCMaster
6	2	91290A232	M5 x 16 LG. SHCS	MCMaster
7	1	6390K52	FOUR ARM KNOB	MCMaster
8	1	92396A127	PRESS FIT INSERT - M6 THREAD x 8mm LG.	MCMaster
9	1	9657K155	3/8 O.D. x 1-1/4 L.G. x .035 W.D. COMPR. SPRING	MCMaster

REF: 9902-26-200
2-REQD

CAD FILE NO.
H38-04-00
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 XXX ±.005 ANGLES ±.5°
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REV BY DATE DESCRIPTION
 A1 VK 12/1/2008 ADDED REV-A
 B VK 5/04/2010 ADDED TTA PART No.
 C VK 8/13/2010 ADDED VENDOR
 D EH 8/30/2011 REVISED DESCRIPTION

DETAIL NAME
 SCALE ADJ. ASSY

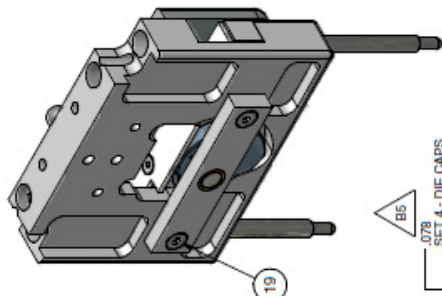
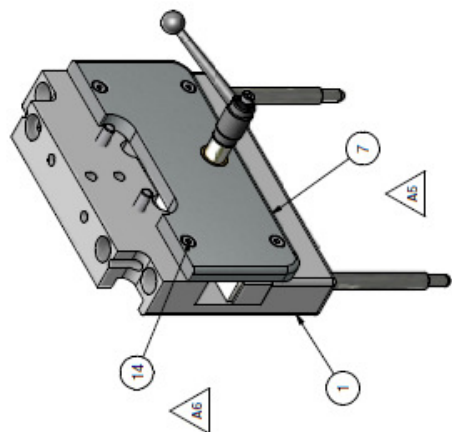
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MATERIAL

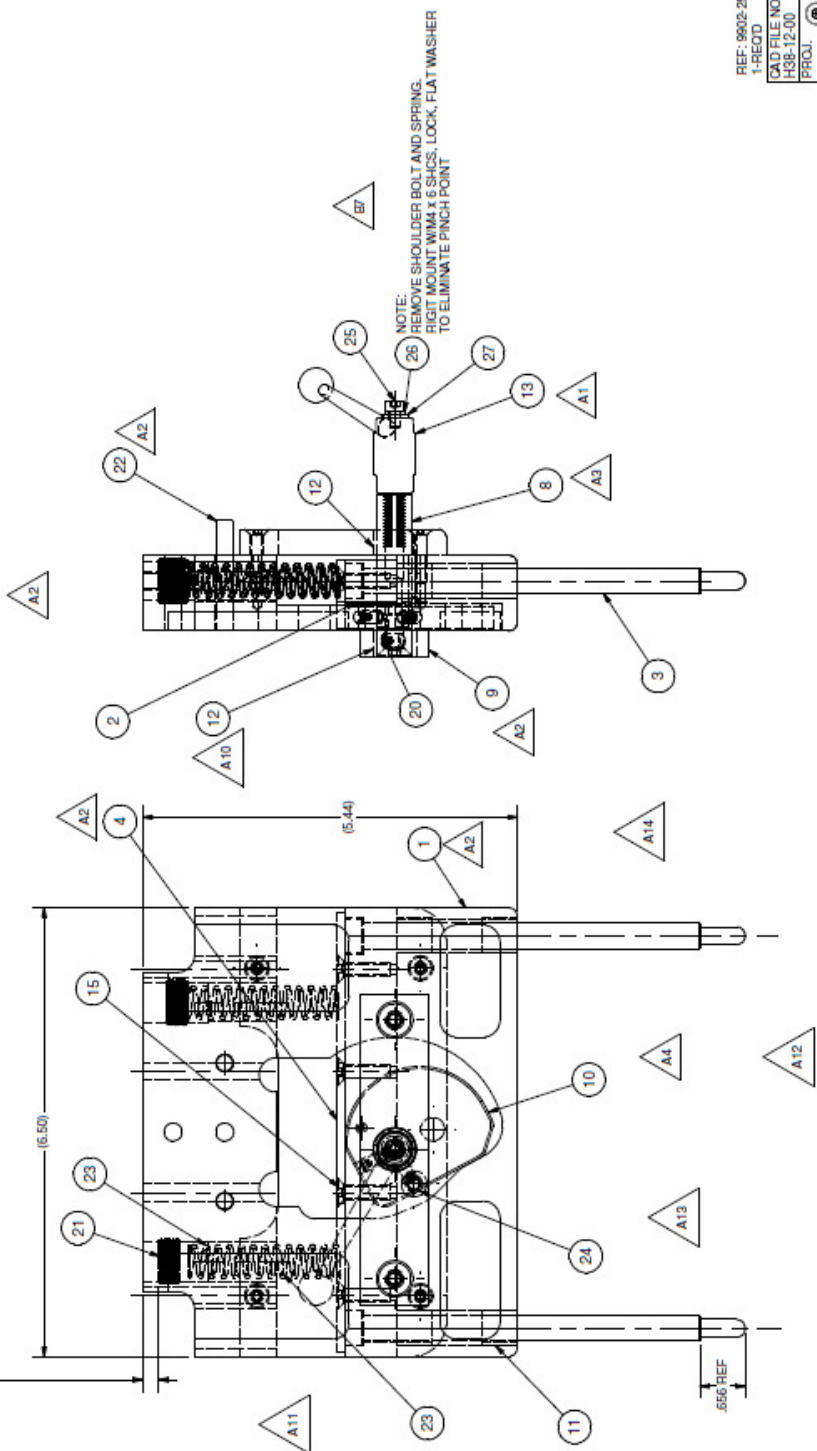
CHECKED SCALE 1:4 BY DATE
 SIZE DRAWING NO. 9/25/2008
 B A 9902-15-000 REV. C

Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION	VENDOR
1	1	9902-23-001	BLOCK - CUP DRIVER LIFT - 130	
2	1	9902-23-002	BRACKET - CUP LIFTERS MTG - 130	
3	2	9902-23-003	ROD - CUP HOLDER	
4	1	9902-23-004	PLATE - LIFTER - 130	
7	1	9902-23-005	GUARD - FRONT	
8	1	9902-23-006	ROD LIFTER	
9	1	9902-23-007	PLATE - CAM SUPPORT	
10	1	9902-23-008	CAM	
11	4	6391K173	3/8 I.D. x 1/2" O.D. x 1/2 LG. BUSHING	MCMMASTER
12	2	6391K211	1/2 I.D. x 5/8" O.D. x 3/8 LG. BUSHING	MCMMASTER
13	1	6848K44	M8 HANDLE	MCMMASTER
14	4	9129A4159	M4 x 18 LG. FHCS	MCMMASTER
15	4	9129A4210	M5 x 12 LG. FHCS	MCMMASTER
19	2	9129A4238	M6 x 18 LG. FHCS	MCMMASTER
20	3	91390A119	M5 x 8 LG. SSS FLT. PNT	MCMMASTER
21	2	96235K9	5/8-18 DIE SPRG SCR CAP	MCMMASTER
22	2	96381A540	1/4 x 3/4 LG. DOWEL PIN	MCMMASTER
23	2	WH13-65	COMPR SPRG METRIC 13 O.D. x 65 LG. 2.1 W.D.	MISUMI
24	1	84835A42	BALL PLUNGER	MCMMASTER
25	1	91290A139	M4 x 6 LG. SHCS	MCMMASTER
26	1	92153A422	M4 LOCK WASHER	MCMMASTER
27	1	93475A230	M4 FLAT WASHER	MCMMASTER



0.078
REF 4 - DIE CAPS
FOR 65 LBS

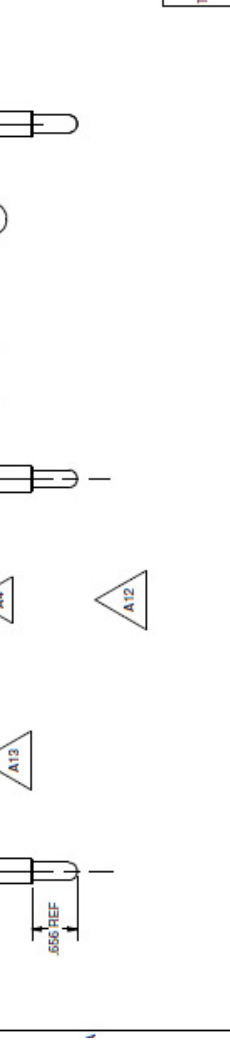


NOTE:
REMOVE SHOULDER BOLT AND SPRING.
TIGHT MOUNT WITH 1/6 SHCS, LOCK, FLAT WASHER
TO ELIMINATE PINCH POINT

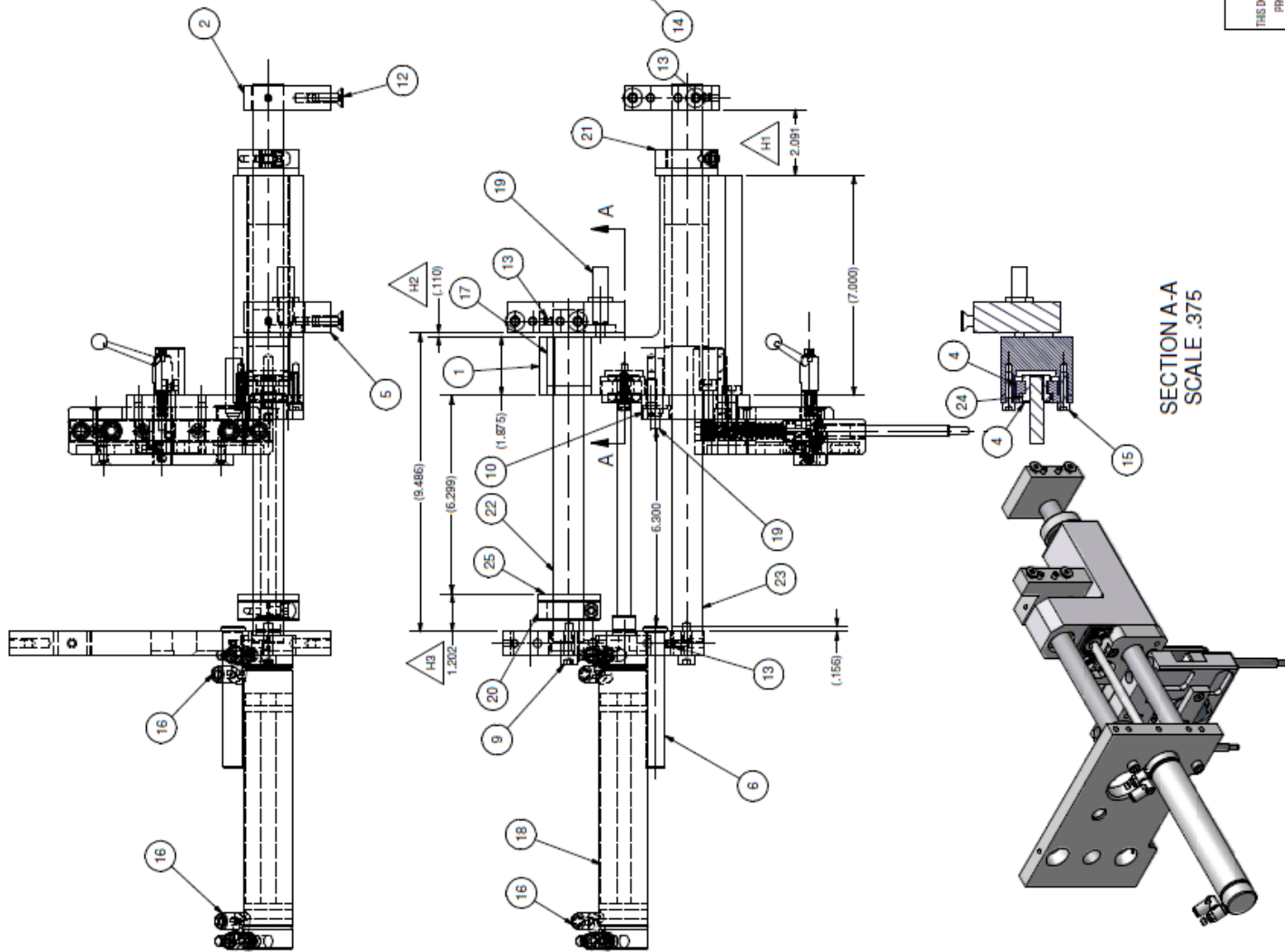
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A2	VK	8/9/2008	ADDED REV-A
A3	VK	8/9/2008	WAS: 9901-24-005
A4	VK	8/9/2008	WAS: 9901-24-004
A5	VK	8/9/2008	NEW ITEM
A6	VK	8/9/2008	NEW ITEM
A7	VK	8/9/2008	WAS: 6391K171
A8	VK	8/9/2008	REMOVED ITEM #91290A232
A9	VK	8/9/2008	REMOVED M6 x 16 LG. SHCS
A10	VK	8/9/2008	WAS: 1-RECD
A11	VK	8/9/2008	NEW SPRINGS
A12	VK	8/9/2008	ADDED REV-A
A13	VK	8/9/2008	NEW ITEM
A14	VK	8/9/2008	NEW ITEM
A15	VK	8/9/2008	WAS #6391K117
A16	VK	8/9/2008	WAS #9129A4240
B1	VK	11/3/2009	ADDED REV-B
B2	VK	11/3/2009	ADDED REV-C
B3	VK	11/3/2009	ADDED REV-A
B4	VK	11/3/2009	ADDED REV-B
B5	VK	11/3/2009	ADDED DIM
B6	VK	11/3/2009	WAS M6 x 16 LG. FHCS
B7	VK	11/3/2009	ADDED NOTE
B8	VK	11/3/2009	ADDED NOTE
B9	VK	11/3/2009	ADDED THIS ITEM
B10	VK	11/3/2009	NEW SPRINGS
C1	VK	2/25/2009	REMOVED DET. 9902-25-505
C2	VK	2/25/2009	REMOVED DET. 9902-25-506
C3	VK	2/25/2009	WAS: 6-RECD
C4	VK	2/25/2009	REMOVED M6 x 25 LG. SHCS
C5	VK	2/27/2009	WAS 4-RECD
C6	VK	3/10/2009	WAS REV-A
C7	VK	3/10/2009	WAS 4-RECD
D	VK	4/24/2009	ADDED REV-C
E	VK	6/15/2009	ADDED REV-C
F	VK	5/05/2010	ADDED TTA PART NO.
G	VK	8/13/2010	ADDED VENDOR

DETAIL NAME		CUP DRIVER - 130	
CAD FILE NO.	REF: 9902-25-500	SCALE	3:4
PROJ.	1-RECD	DATE	7/12/2008
MATERIAL		HEAT TREAT	
NONE		NONE	
SEE PARTS LIST		BY	
CHECKED		DATE	
SIZE		DRAWING NO.	
C		9902-23-000	
REV.		G	

TOLERANCE UNLESS OTHERWISE SPECIFIED:	
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Parts List				DESCRIPTION		VENDOR	
ITEM	QTY	PART NUMBER					
1	1	9902-27-001		BLOCK - STROKE COMPENSATION			
2	1	9902-27-002		PLATE - SUPPORT			
3	1	9902-27-003		BRACKET - CUP DRIVE MTG. 130			
4	1	9902-27-004		FLOATING JOINT RECEIVER			
5	1	9902-27-005		ROD - STOP			
6	1	9902-27-006		PLATE - MTG - SHOCK ABSORBER			
7	1	9902-27-007		BUMPER - ROUND - 130			
8	1	9902-23-000		CUP DRIVE - 130			
9	2	91290A426		M8 x 20 LG. SHCS		MCMMASTER	
10	2	91290A432		M8 x 25 LG. SHCS		MCMMASTER	
11	2	91290A438		M8 x 35 LG. SHCS		MCMMASTER	
12	4	91294A286		M8 x 25 LG. FHCS		MCMMASTER	
13	3	93245A127		M8 x 8 LG. SSS FL. PNT		MCMMASTER	
14	6	98381A540		1/4 x 3/4 LG. DOWEL PIN		MCMMASTER	
15	2	91290A330		M8 x 20 LG. SHCS		MCMMASTER	
16	2	AS2301F-N01-07S		FLOW CONTROL		SMC	
17	3	KH 2540 PP		25 MM. I.D. LINEAR BEARINGS		MOTION IND.	
18	1	NCMB150-0700-X103US		AIR CYLINDER 1-1/2" BORE x 7" STR.		SMC	
19	2	NRBC050-030		SHOCK ABSORBER		SMC	
20	1	SCS 25-15		SHAFT COLLAR 25 MM.		MISUMI	
21	1	SCS 25 15		SHAFT COLLAR 25 MM.		MISUMI	
22	1	SFJT25 270 M8		25 MM O.D. x 270 MM. LG. LINEAR SHAFT		MISUMI	
23	1	SFJT25 452 M8		25 MM. O.D. x 452 MM. LG. LINEAR SHAFT		MISUMI	
24	1	U- FJND-44-G0-375		COMPACT FLOATING JOINTS		MISUMI	
25	2	WRBA450-25-5		M50 x 25 x 6 THK. ADHESIVE RUBBER WASHER		MISUMI	



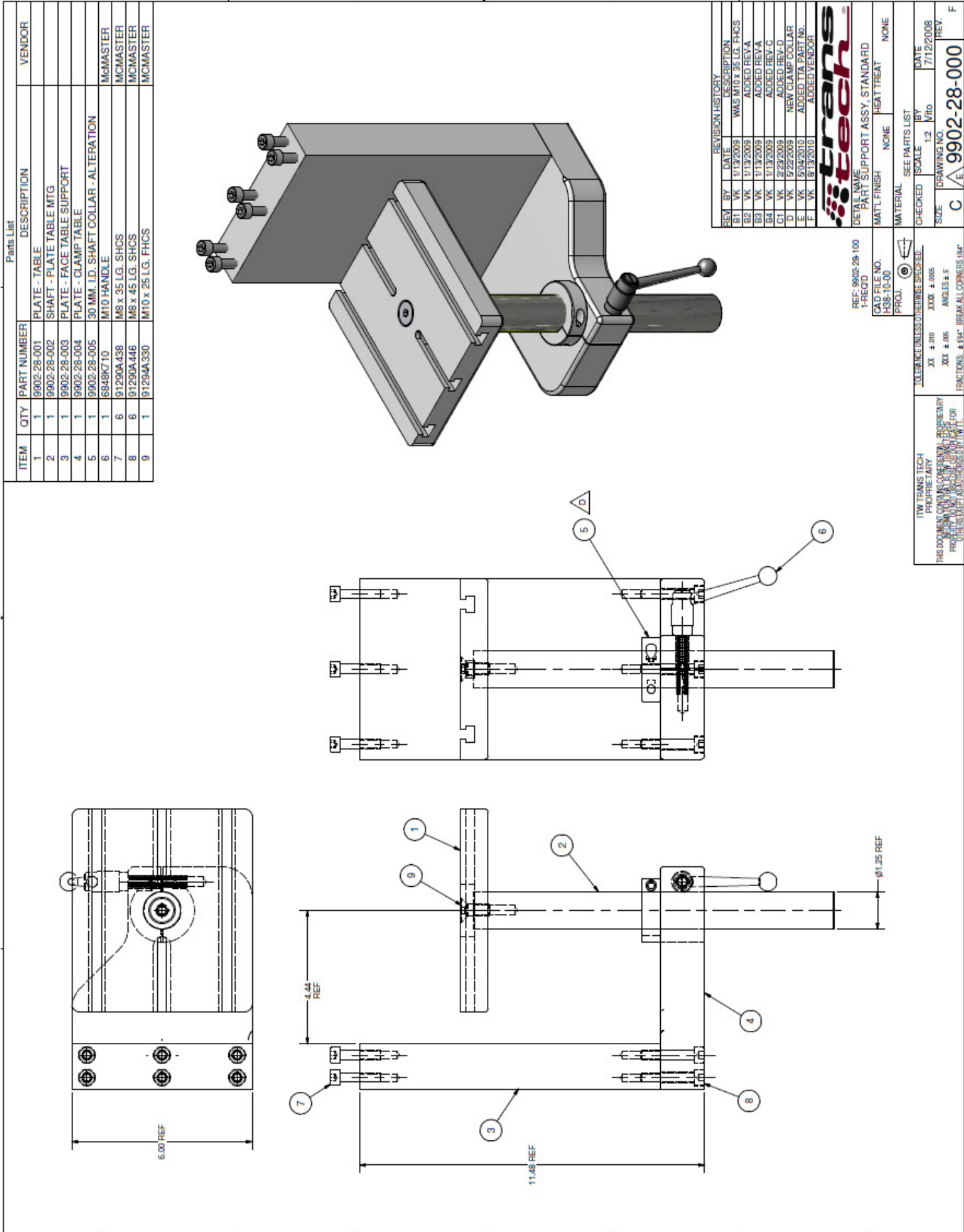
REVISION HISTORY			
REV	BY	DATE	DESCRIPTION
A	VR	2/27/2009	NEW DESIGN
B	VR	4/24/2009	NEW DESIGN
C	VR	4/25/2009	NEW DESIGN
D	VR	9/4/2009	WAS M8 x 25 LG. SHCS
E	VR	9/17/2009	NEW DESIGN
F	VR	9/29/2010	ADDED PART NO.
G	VR	9/16/2010	NEW MATERIAL
H	VR	10/5/2010	ADDED VENDOR
H2	VR	10/5/2010	WAS 2.105
H3	VR	10/5/2010	WAS 1.25
H3	VR	10/5/2010	WAS 1.67

trans			
DETAIL NAME	SCALE	DATE	REV.
CUP DRIVE SLIDE ASSY	3/8	2/26/2009	H
C / F1 9902-27-000			
QUANTITY PER ASSY	CAD FILE NO.	DRAWING NO.	REV.
1	H38-09-00	C / F1 9902-27-000	H

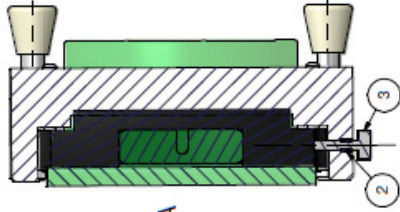
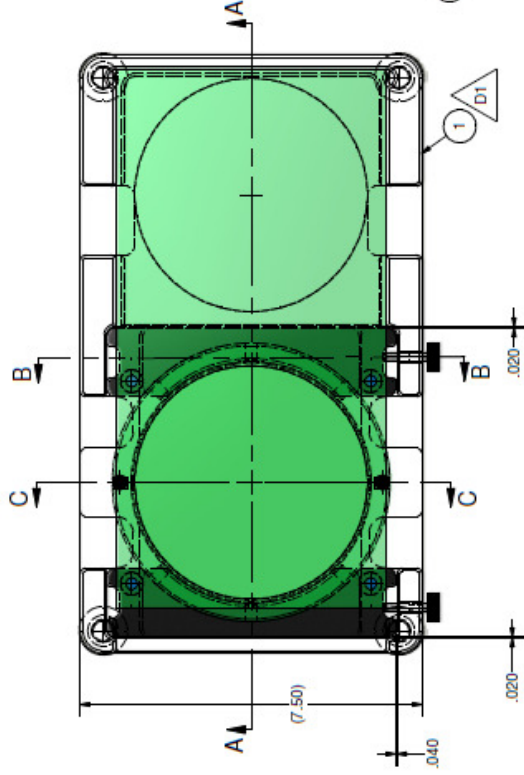
REF: 9902-24-800

TOLERANCES UNLESS OTHERWISE SPECIFIED:			
XX	± .010	XXX	± .005
XXX	± .005	ANGLES	± .5°
FRACTIONS: ± 1/64" BREAK ALL CORNERS 1/4"			

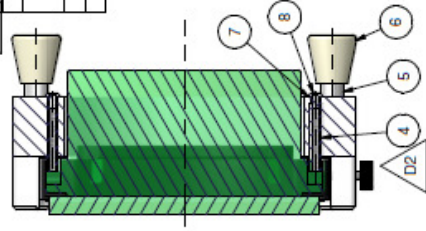
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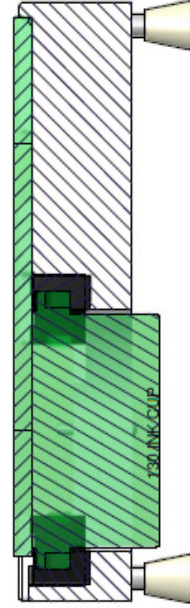
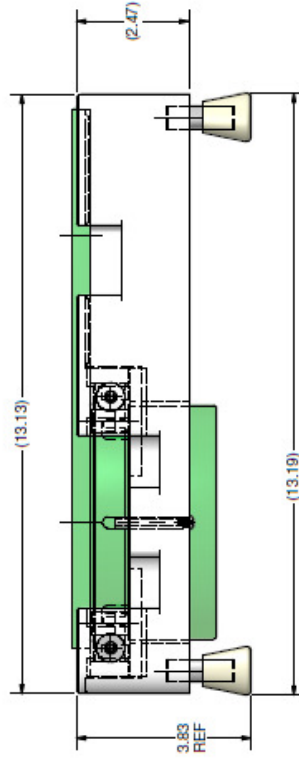
Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	H72-02-01	SETUP TABLE - 130
2	2	90298A125	M5 THREADED INSERT
3	2	96016A249	M5 THUMB SCREW
4	2	97175A318	1/4 DIA. x 1-1/2 LG. PULL-OUT DWL PIN
5	4	98381A716	500 x 1.50 DOWEL PIN
6	4	25171B1	CHAIR, CANE, AND CRUTCH TIPS, GRAY FOR 1/2 LEG O.D.
7	2	90045A725	#8 FLAT WASHER (SS)
8	2	92949A190	#8-32 x .25 BHCS (SS)



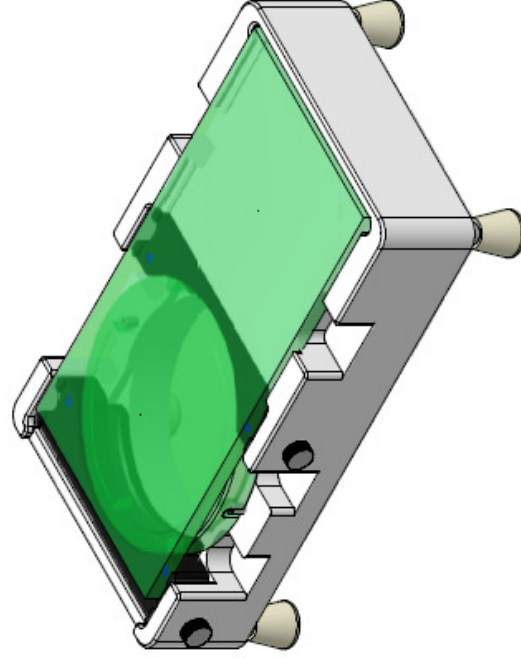
SECTION B-B



SECTION C-C



SECTION A-A



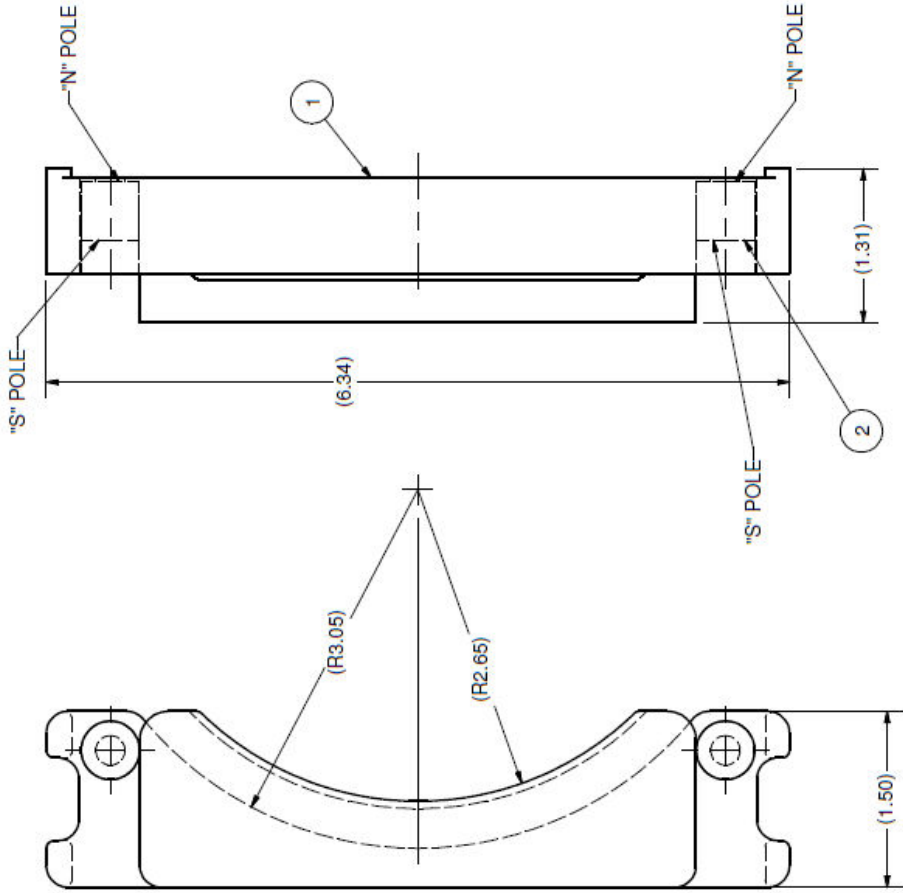
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B	VK	8/14/2010	ADDED TTA PART NUMBER
C	EH	8/18/2010	UPDATED BOM PART NUMBER
D1	VK	8/26/2010	NEW REVISION
D2	VK	8/26/2010	WAS 97175A311

trans tech	
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CAD FILE NO. H72-02-00	
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MATERIAL SEE PARTS LIST	
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DATE 12/5/2008	
SIZE DRAWING NO.	
ANGLES ± 5°	
FRACTIONS: ± 1/4"	
BREAK ALL CORNERS 1/4"	
C	9902-30-000
D	

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XX ± .010
XX ± .006
XX ± .005
ANGLES ± 5°
FRACTIONS: ± 1/4"

Parts List				
ITEM	QTY	PART NUMBE	DESCRIPTION	VENDOR
1	1	H72-01-01	130 - CUP HOLDER	
2	2		1/2 DIA x 1/2 LG. MAGNET	



NOTE:
THE ORIENTATION OF THE MAGNETS IS VERY IMPORTANT
SEE DRAWING FOR DETAILS

REVISION HISTORY		
REV	BY	DATE
B	VK	1/9/2009
C	VK	3/24/2009
D	VK	8/14/2010

DETAIL NAME		
130-CUP HOLDER ASSY	ADDED REV-B	
	ADDED REV-C	
	ADDED TTA PART	NUMBER

MATERIAL		
MAT'L FINISH	NONE	HEAT TREAT
		NONE

SEE PARTS LIST		
CHECKED	SCALE	BY
	1:1	Vto

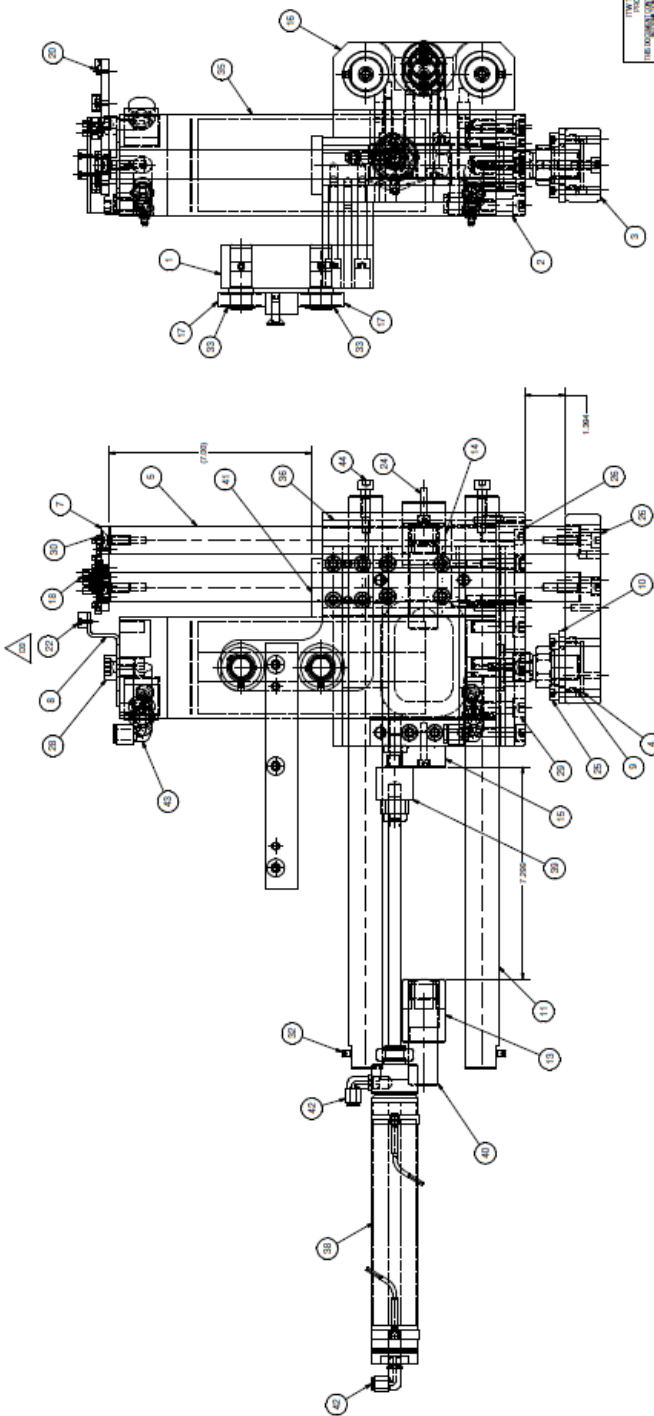
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12/4/2008		
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REV.		
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CAD FILE NO.
H72-01-00

PROJ.

TOLERANCE UNLESS OTHERWISE SPECIFIED:
XX ± .010 XXXX ± .0005
XXX ± .005 ANGLES ± .5°
FRACTIONS: ± 1/64" BREAK ALL CORNERS 1/64"

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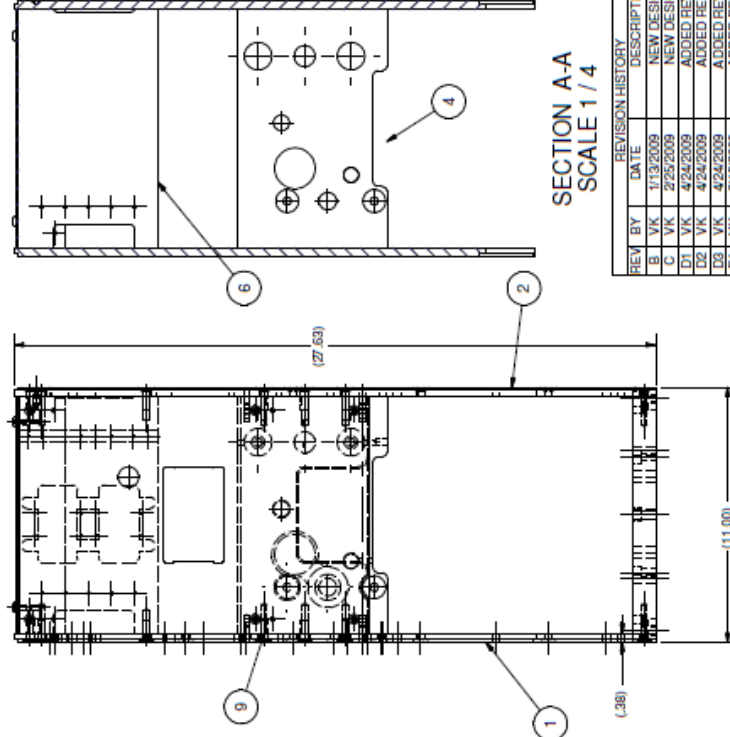
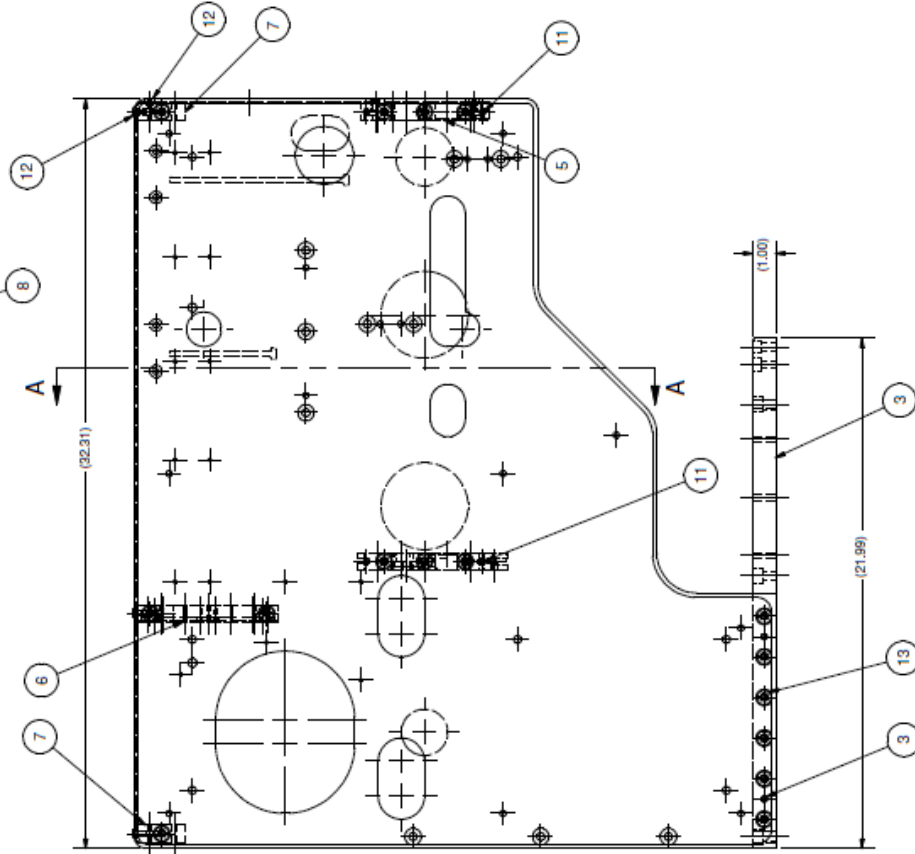
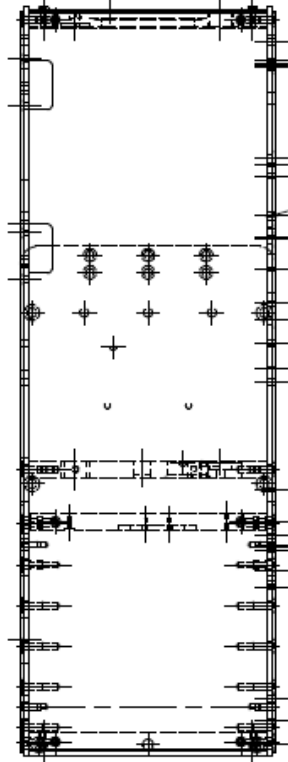


ITEM	QTY	PART NUMBER	PART NAME		VENDOR
			DESCRIPTION		
1	1	9002-33-001	PLATE- PAD SUPPORT		MCMASTER
2	1	9002-33-002	PLATE- CYL MITG		MCMASTER
3	1	9002-33-003	BLOCK CUP DRIVER		MCMASTER
4	1	9002-33-004	SPRNGT- ENCYLINDER		MCMASTER
5	2	9002-33-005	SHFT- VERTICAL		MCMASTER
6	2	9002-33-006	SHFT- PAD SUPPORT		MCMASTER
7	1	9002-33-007	PLATE- SENSORS MTO		MCMASTER
8	1	9002-33-008	BRACKET- SENSOR MAGNET MTO		MCMASTER
9	1	9002-33-009	ROD ENCYLINDER		MCMASTER
10	1	9002-33-010	ROD COUPLER		MCMASTER
11	2	9002-33-011	SHFT- HORIZONTAL		MCMASTER
12	1	9002-33-012	PLATE- GUIDE		MCMASTER
13	1	9002-33-013	NUT- SHOCK ABSORBER		MCMASTER
14	1	9002-33-014	NUT- SHOCK ABSORBER		MCMASTER
15	2	9002-33-015	STOP- BOUND		MCMASTER
16	2	9002-33-016	ROD- CYLINDER KASY		MCMASTER
17	2	9002-33-017	3/4 DIA. 1/8 DIA. X 1/8 THK BEARING		MCMASTER
18	2	9002-33-018	3/4 DIA. 1/8 DIA. X 1/8 THK BEARING		MCMASTER
19	1	9002-33-019	CABLE STRAP		MCMASTER
20	4	91250A-13	MM X 1/8 LG. SHCS		MCMASTER
21	4	91250A-14	MM X 1/8 LG. SHCS		MCMASTER
22	2	91250A-15	MM X 1/8 LG. SHCS		MCMASTER
23	2	91250A-16	MM X 1/8 LG. SHCS		MCMASTER
24	4	91250A-17	MM X 1/8 LG. SHCS		MCMASTER
25	4	91250A-18	MM X 1/8 LG. SHCS		MCMASTER
26	2	91250A-19	MM X 1/8 LG. SHCS		MCMASTER
27	2	91250A-20	MM X 1/8 LG. SHCS		MCMASTER
28	2	91250A-21	MM X 1/8 LG. SHCS		MCMASTER
29	4	91250A-22	MM X 1/8 LG. SHCS		MCMASTER
30	4	91250A-23	MM X 1/8 LG. SHCS		MCMASTER
31	2	90245A-17	MM X 1/8 LG. SS6 FL. PNT		MCMASTER
32	2	90245A-18	MM X 1/8 LG. SS6 FL. PNT		MCMASTER
33	2	90245A-19	1/4 DIA. EXTERNAL RETAINING RING		MCMASTER
34	2	90245A-20	1/4 DIA. 1/8 DIA. DOW. PIN		MCMASTER
35	2	90245A-21	1/4 DIA. 1/8 DIA. DOW. PIN		MCMASTER
36	2	90245A-22	1/4 DIA. 1/8 DIA. DOW. PIN		MCMASTER
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42	2	90245A-28	1/4 DIA. 1/8 DIA. DOW. PIN		MCMASTER
43	2	90245A-29	1/4 DIA. 1/8 DIA. DOW. PIN		MCMASTER
44	2	91250A-22	MM X 1/8 LG. SHCS		MCMASTER

SEEK				DATE	DESCRIPTION
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3	10/3/2007	10/3/2007	10/3/2007		
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200	4/16/2008	4/16/2008			

Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION	VENDOR
1	1	9902-40-001	PLATE - MAIN LEFT SIDE	
2	1	9902-40-002	PLATE - MAIN RIGHT SIDE	
3	1	9902-40-003	PLATE - BASE	
4	1	9902-40-004	PLATE - SPACER CENTER	
5	1	9902-40-005	PLATE - SPACER LOWER FRONT	
6	1	9902-40-006	PLATE - UPPER SUPPORT MIDDLE	
7	2	9902-40-007	BRACKET - UPPER SUPPORT	
8	1	9902-40-008	PLATE - COVER TOP	
9	1	9902-40-009	PLATE - DISPLAY MTG	
11	12	98381A540	1/4 x 3/4 LG. HRD DOWEL PIN	MCMMASTER
12	12	91239A318	M6 x 12 LG. BHCS	MCMMASTER
13	32	91294A286	M8 x 25 LG. FHCS	MCMMASTER



SECTION A-A
SCALE 1/4

REV	BY	DATE	DESCRIPTION
B	VK	1/13/2009	NEW DESIGN
C	VK	2/25/2009	NEW DESIGN
D1	VK	4/24/2009	ADDED REV E
D2	VK	4/24/2009	ADDED REV F
D3	VK	4/24/2009	ADDED REV G
E1	VK	6/15/2009	ADDED REV F
E2	VK	6/15/2009	ADDED REV F
F	VK	5/03/2010	ADDED TIA PART NO.
G	VK	8/13/2010	ADDED VENDOR



REF: 9902-20-000
1-REC'D

DETAIL NAME
FRAME ASSY

CAD FILE NO.
H38-02-00

MAT'L FINISH
NONE

HEAT TREAT
NONE

PROJ. (6)

MATERIAL
SEE PARTS LIST

TOLERANCE UNLESS OTHERWISE SPECIFIED:
XX ± .010
XXX ± .005

CHECKED
SCALE 1:4

DATE
7/12/2008

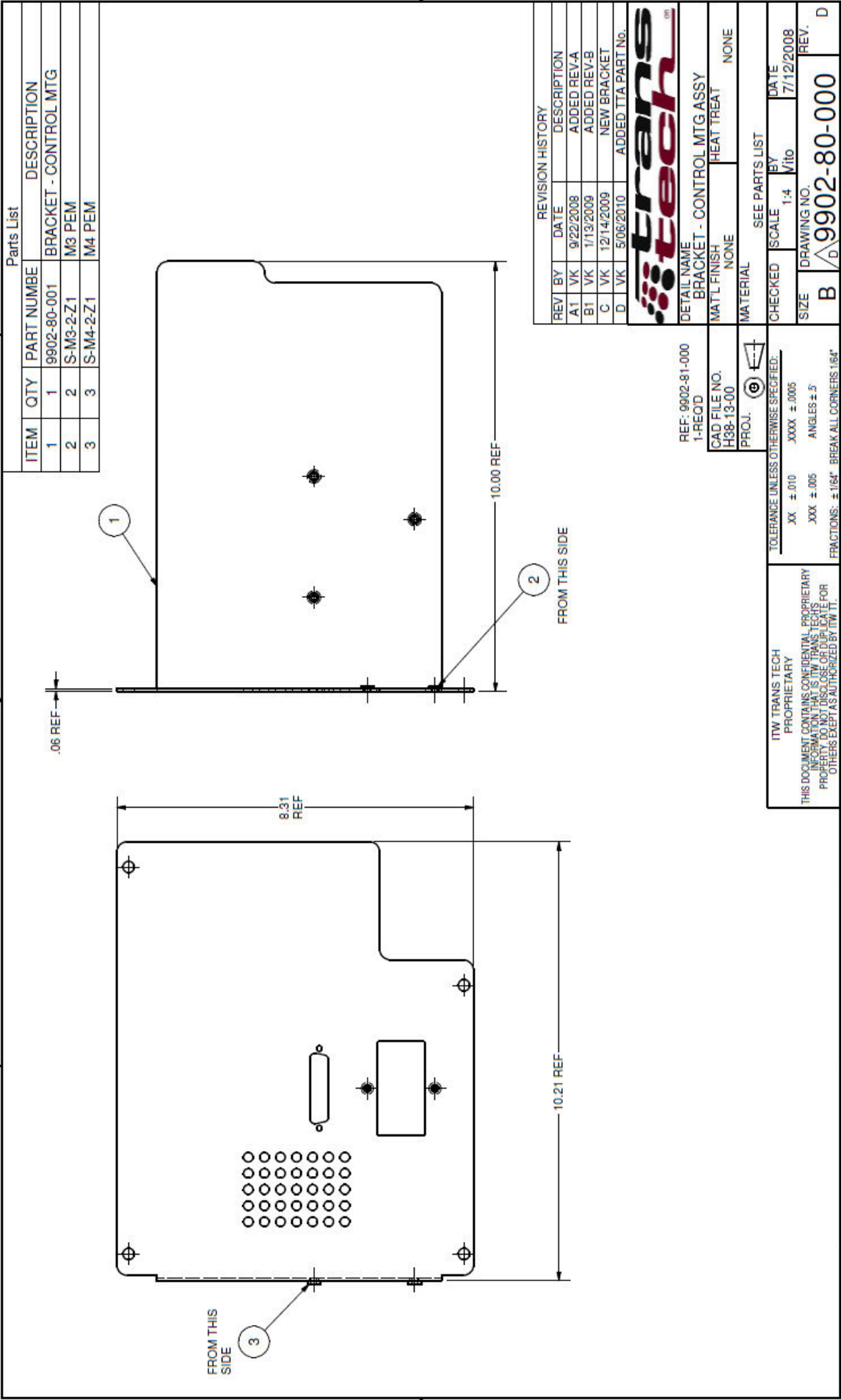
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DRAWING NO.

REV.
C

9902-40-000

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CONSENT OF ITW TRANS TECH

FRACTIONS: ± 1/64" BREAK ALL CORNERS 1/64"



Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	9902-80-001	BRACKET - CONTROL MTG
2	2	S-M3-2-Z1	M3 PEM
3	3	S-M4-2-Z1	M4 PEM

REVISION HISTORY	
REV	DESCRIPTION
A1	ADDED REV-A
B1	ADDED REV-B
C	NEW BRACKET
D	ADDED ITA PART No.



DETAIL NAME
BRACKET - CONTROL MTG ASSY

MAT'L FINISH
NONE

HEAT TREAT
NONE

MATERIAL
SEE PARTS LIST

CHECKED
SCALE 1:4

DATE
7/12/2008

REF: 9902-81-000
1-REQD

CAD FILE NO.
H38-13-00

PROJ.
⑨

TOLERANCE UNLESS OTHERWISE SPECIFIED:
XX ±.010 XXX ±.005

ANGLES ±.5°

FRACTIONS: ±1/64" BREAK ALL CORNERS 1/64"

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SIZE
DRAWING NO.
B
D

REV.
9902-80-000
D

Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION	VENDOR
1	1	9902-80-000/1	BRACKET - CONTROL MTG ASSY	WAGO
2	1	2002-6391	END PLATE	WAGO
3	2	2002-6404	TERMINAL BLOCK (BLUE)	WAGO
4	1	2002-6407	TERMINAL BLOCK (GREEN)	WAGO
5	1	231-103/102-000	3 PIN FEMALE CONNECTOR	WAGO
6	1	231-609	9 PIN MALE CONNECTOR	WAGO
7	2	51210533	BREAKOUT BOARD	WAGO
8	2	249-116	END ANCHOR	WAGO
9	1	IBOC-OMEGA-3F	35 MM x 7.5 MM x 8 LG. DIN RAIL	STANDARD
10	1	728754	POWER SUPPLY 24 VDC, 2.5 A.	STANDARD
11	1	AFL25B-ND	CONN D-SUB RECEPT 25 POS 30 GOLD DIGIKEY	DIGIKEY
12	1	CCM1384-ND	POWER INLET MODULE	DIGIKEY
13	1	FPO-C32T-A	32 IN AND OUT TRANSFER MODULE	PANASONIC
14	8	91239A113	M3 x 0.5 x 8 mm BHCS	MCMASTER
15	3	91239A140	M4 x 8 LG. BHCS	MCMASTER
16	4	91239A318	M6 x 12 LG. BHCS	MCMASTER
17	2	91294A128	M3 x 8 MM LG. FHCS BLACK OXIDE	MCMASTER
18	2	251089	#4-40, 3/16 LG. STANDPFF	LA

HARDWARE REQUIRED BUT NOT SHOWN

QTY	PART NUMBER	DESCRIPTION	VENDOR
5'	0027427	24 AWG, 4 COND. HI-FLEX CABLE	LAPP
3'	323017	18 AWG, 4 COND. CABLE BLK., NO GROUND	CABLEMASTER
2'	323002	18 AWG, GRN W/ YELLOW STRIPE WIRE	CABLEMASTER
1'	323011	18 AWG, RED WIRE	CABLEMASTER
1'	323012	18 AWG, WHITE WIRE	CABLEMASTER
5'	MC16M	16 COND. MULTICOLOR RIBBON CABLE	DIGIKEY
6'	MC10M	10 COND. MULTICOLOR RIBBON CABLE	DIGIKEY
6	CAC10S-ND	10 PIN CONNECTOR	DIGIKEY
2	7113K452	FLING TERMINAL 22-18 AWG #10 STUD	MCMASTER
1		24V SNAP IN LABELS	STANDARD
1		OV SNAP IN LABELS	STANDARD
.03	LAT-15-361-5	LASER ID TAGS	TSR
30	V3AE0038	INSULATED FERRULES FOR 20AWG, WHITE	TSR
30	V3AE0041	INSULATED FERRULES FOR 18AWG, GREY	TSR
30	7130K14	8-12" CABLE TIE	MCMASTER
4	7566K29	CABLE TIE MOUNT	MCMASTER
1	7566K25	CABLE TIE MOUNT	MCMASTER
1	AFC1500-US	CABLE	PANASONIC
1	7856K351	HEAT SHRINK	MCMASTER
3	8614K22	CABLE TIE WHITE	MCMASTER
1	7566K13	GND SNAP LABEL	STANDARD
1	7243K13	TIE MOUNT (E-STOP)	MCMASTER
1		FEMALE QUICK DISCONNECT	MCMASTER
1	7243K12	MALE QUICK DISCONNECT	MCMASTER

REV	BY	DATE	DESCRIPTION
A1	VK	8/27/2008	ADDED REV A
A2	VK	9/29/2008	ADDED NEW ITEMS
B1	VK	1/13/2009	NEW REV A
C	VK	2/02/2009	NEW DESIGN
D	VK	5/06/2010	ADDED TTA PART NO.
E	VK	8/13/2010	ADDED VENDOR
F	VK	10/5/2010	LATEST UPDATES
G	EH	8/30/2011	CHANGED WIRE #
T	VK	3/13/2012	WAS 9902-81-000



REF: 9902-80-000
1 REQ'D

DETAIL NAME
ELECTRICAL ASSY

CAD FILE NO.
H38-06-00

PROJ.

MATL FINISH

NONE

HEAT TREAT

NONE

SEE PARTS LIST

CHECKED

SCALE

BY

DATE

SIZE

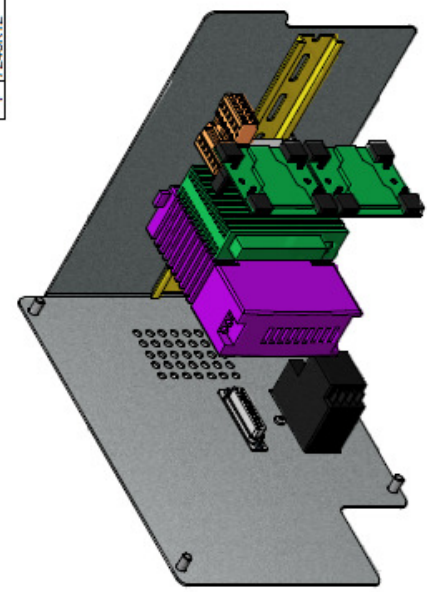
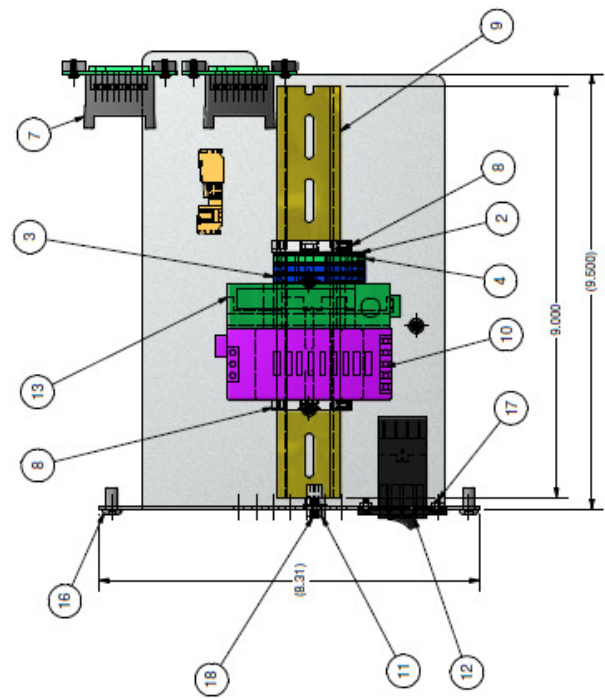
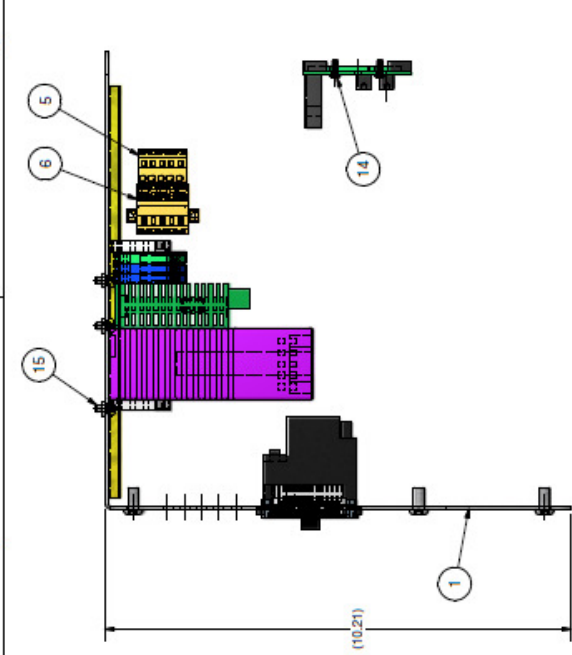
DRAWING NO.

REV.

9902-81-000

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TOLERANCE UNLESS OTHERWISE SPECIFIED:

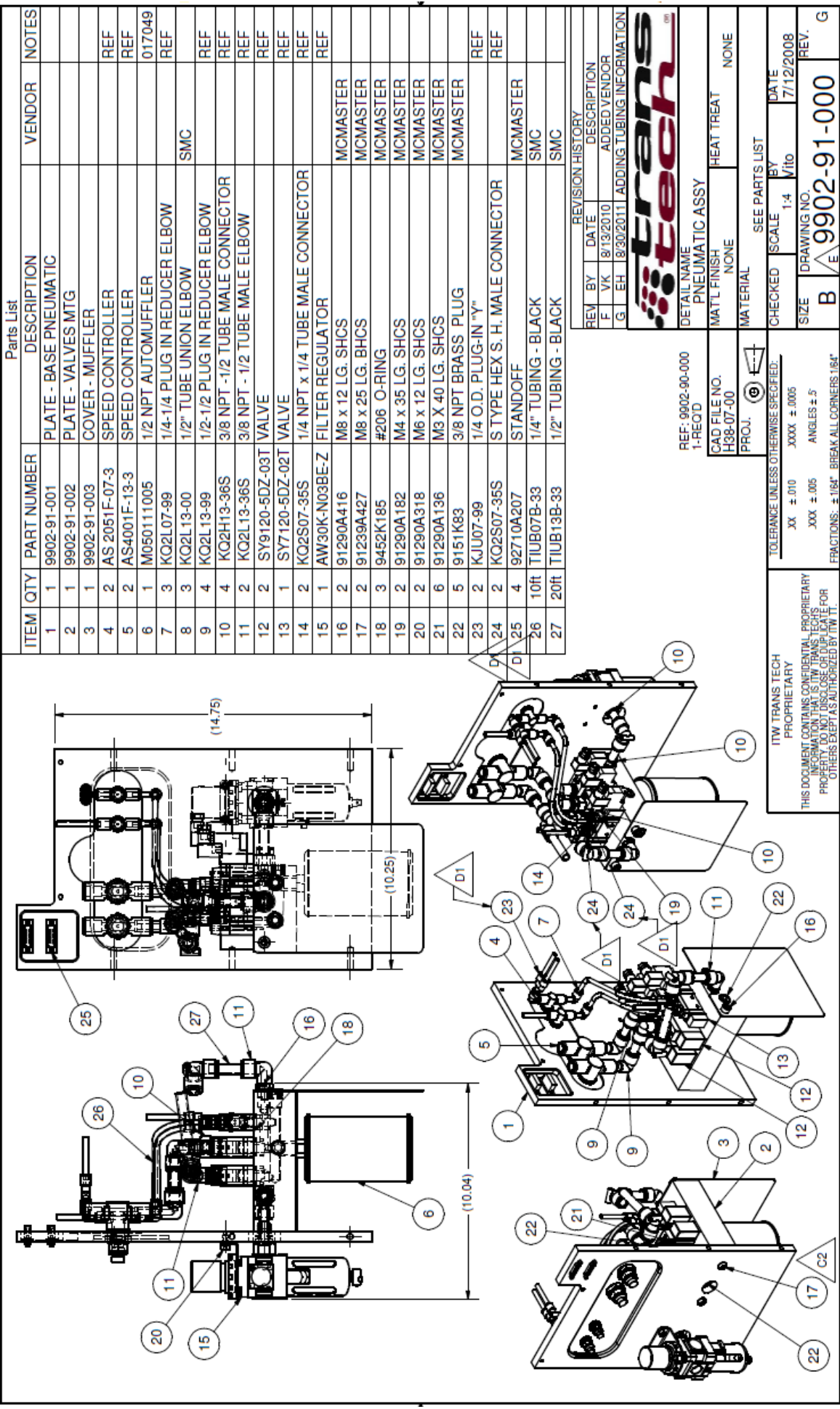
XX ±.010

XXX ±.005

ANGLES ±.5°

FRACTIONS: 1/16"

BREAK ALL CORNERS 1/4"



Parts List				DESCRIPTION		VENDOR		NOTES	
ITEM	QTY	PART NUMBER							
1	1	9902-91-001		PLATE - BASE PNEUMATIC					
2	1	9902-91-002		PLATE - VALVES MTG					
3	1	9902-91-003		COVER - MUFFLER					
4	2	AS 2051F-07-3		SPEED CONTROLLER				REF	
5	2	AS4001F-13-3		SPEED CONTROLLER				REF	
6	1	M050111005		1/2 NPT AUTOMUFFLER				017049	
7	3	KQ2L07-99		1/4-1/4 PLUG IN REDUCER ELBOW				REF	
8	3	KQ2L13-00		1/2" TUBE UNION ELBOW				SMC	
9	4	KQ2L13-99		1/2-1/2 PLUG IN REDUCER ELBOW				REF	
10	4	KQ2H13-36S		3/8 NPT - 1/2 TUBE MALE CONNECTOR				REF	
11	2	KQ2L13-36S		3/8 NPT - 1/2 TUBE MALE ELBOW				REF	
12	2	SY9120-5DZ-03T		VALVE				REF	
13	1	SY7120-5DZ-02T		VALVE				REF	
14	2	KQ2S07-35S		1/4 NPT x 1/4 TUBE MALE CONNECTOR				REF	
15	1	AW30K-N03BE-Z		FILTER REGULATOR				REF	
16	2	91290A416		M8 x 12 LG. SHCS				MCMaster	
17	2	91239A427		M8 x 25 LG. BHCS				MCMaster	
18	3	9452K185		#206 O-RING				MCMaster	
19	2	91290A182		M4 x 35 LG. SHCS				MCMaster	
20	2	91290A318		M6 x 12 LG. SHCS				MCMaster	
21	6	91290A136		M3 X 40 LG. SHCS				MCMaster	
22	5	9151K83		3/8 NPT BRASS PLUG				MCMaster	
23	2	KJU07-99		1/4 O.D. PLUG-IN "Y"				REF	
24	2	KQ2S07-35S		S TYPE HEX S. H. MALE CONNECTOR				REF	
25	4	92710A207		STANDOFF				MCMaster	
26	10ft	TIUB07B-33		1/4" TUBING - BLACK				SMC	
27	20ft	TIUB13B-33		1/2" TUBING - BLACK				SMC	

REVISION HISTORY			
REV	BY	DATE	DESCRIPTION
F	VK	8/13/2010	ADDED VENDOR
G	EH	8/30/2011	ADDING TUBING INFORMATION

trans	
DETAIL NAME PNEUMATIC ASSY	
MATL FINISH NONE	HEAT TREAT NONE
MATERIAL SEE PARTS LIST	
CHECKED SCALE 1:4	DATE 7/12/2008
SIZE DRAWING NO. B E 9902-91-000	REV. G

REF: 9902-90-000
1-REOD

CAD FILE NO.
H38-07-00

PROJ. SEE PARTS LIST

TOLERANCE UNLESS OTHERWISE SPECIFIED:
XX ± .010 XXXX ± .0005
XXX ± .005 ANGLES ± .5°
FRACTIONS: ± 1/64" BREAK ALL CORNERS 1/64"

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