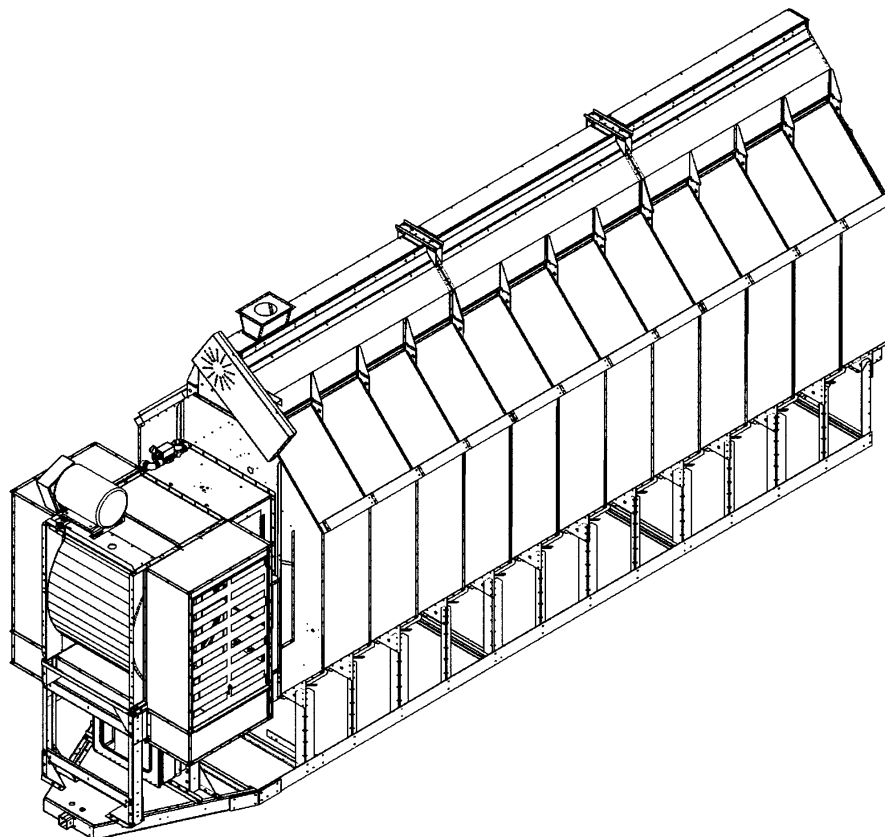




3-PHASE CENTRIFUGAL DRYER (CE) PARTS ASSEMBLY



Sukup Manufacturing Company

1555 255th Street, Box 677

Sheffield, Iowa, USA 50475-0677

Phone: 641-892-4222

Fax: 641-892-4629

Website: www.sukup.com

E-mail: info@sukup.com

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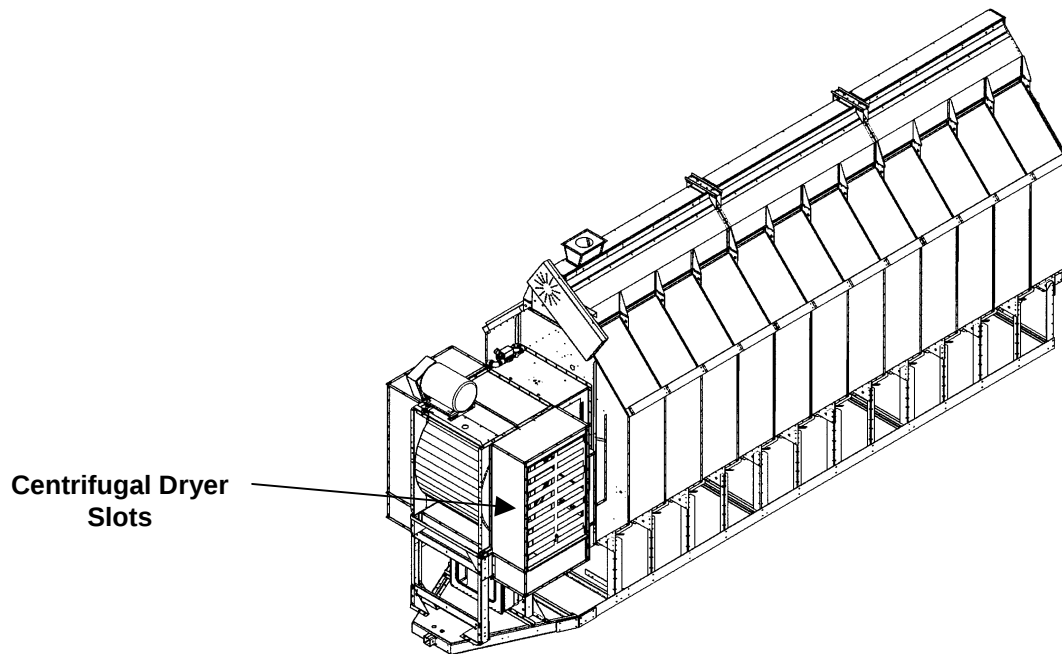
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Please refer to the Safety Section in the back of this manual for general precautions, as well as placement of safety decals.

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Operational Information

SLOT OPENINGS ON INTAKE OF SUCTION COOL CENTRIFUGAL DRYERS

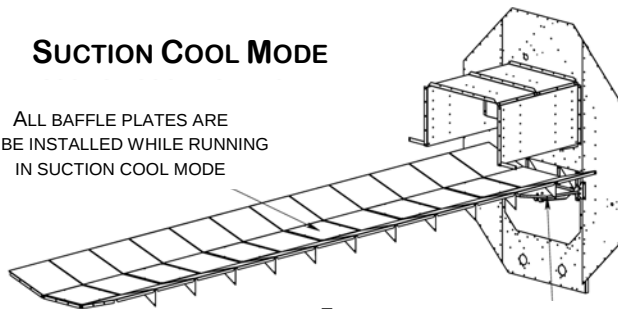


IN SUCTION COOL MODE (Refer to page 26):

Slots should be narrower to create more suction in the bottom cooling plenum. But slots should not be fully closed.

SUCTION COOL MODE

ALL BAFFLE PLATES ARE TO BE INSTALLED WHILE RUNNING IN SUCTION COOL MODE



Instructions: Start

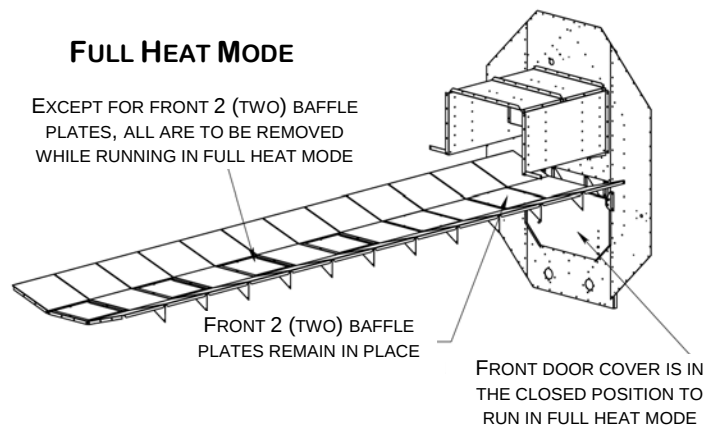
with a $\frac{3}{4}$ " to 1" opening on slots and adjust from there. Closing slots more will increase efficiency and pull more heated air into the fan, but will decrease capacity. Opening slots more will increase capacity but will decrease efficiency and less heated air will be pulled into the fan.

IN FULL HEAT MODE (Refer to page 27):

Slots should be fully opened.

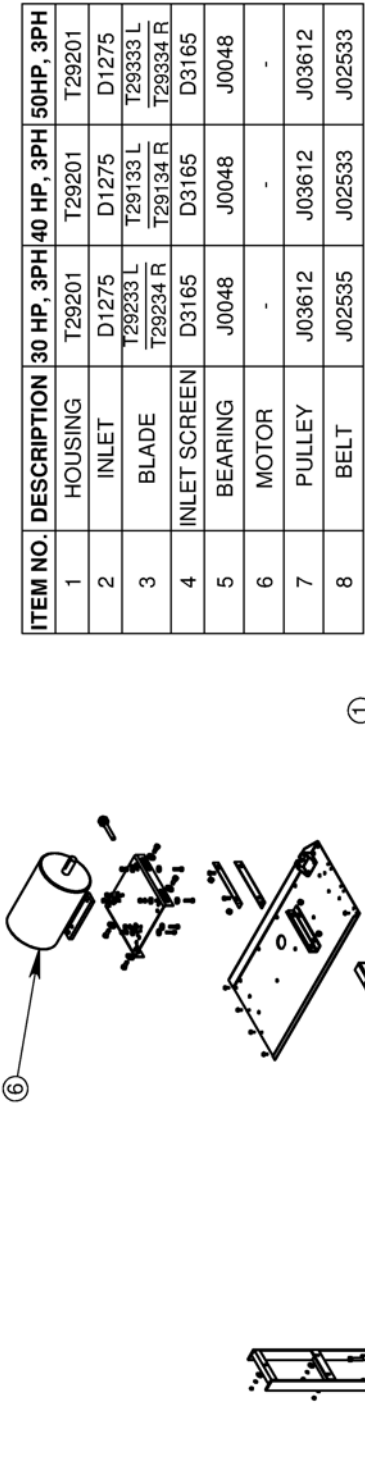
FULL HEAT MODE

EXCEPT FOR FRONT 2 (TWO) BAFFLE PLATES, ALL ARE TO BE REMOVED WHILE RUNNING IN FULL HEAT MODE



DRYER FAN PARTS, CE D-C

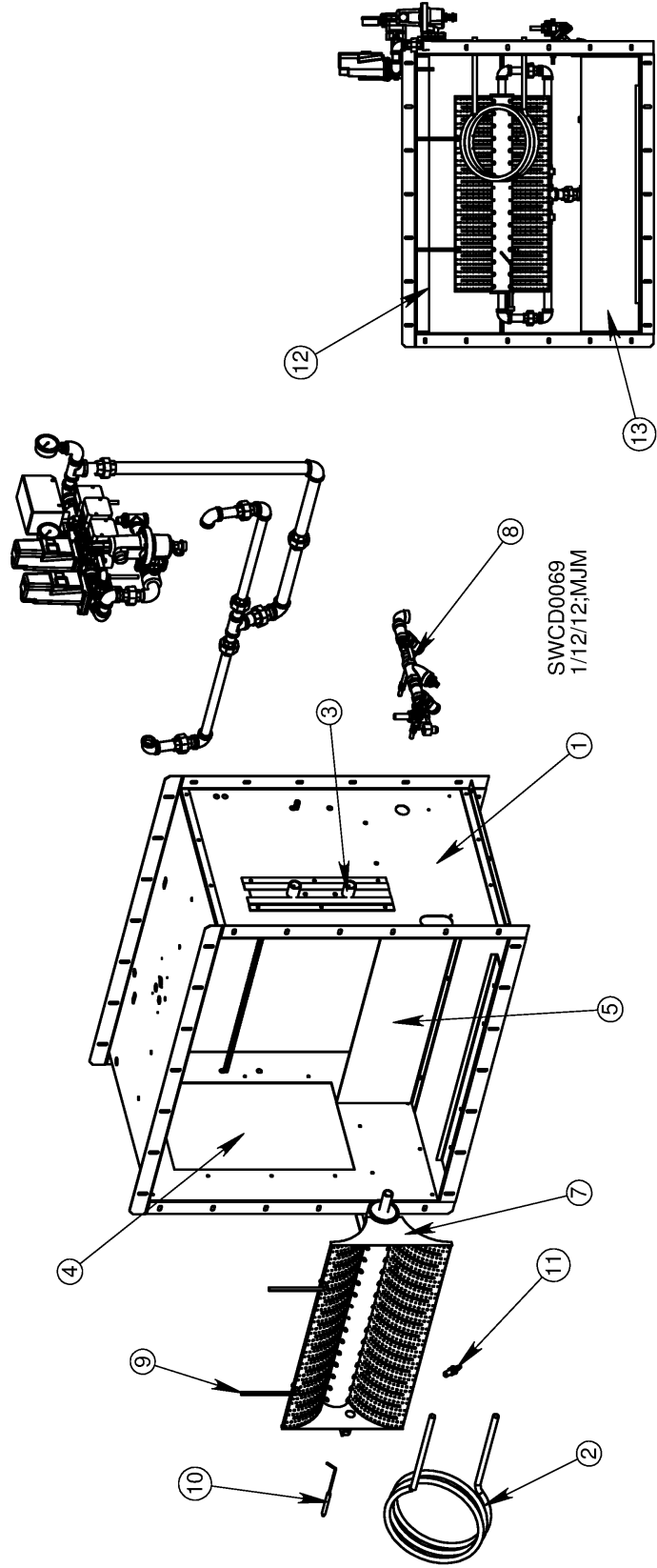
ITEM NO.	DESCRIPTION	30 HP, 3PH	40 HP, 3PH	50HP, 3PH
1	HOUSING	T29201	T29201	T29201
2	INLET	D1275	D1275	D1275
3	BLADE	T29233 L T29234 R	T29133 L T29134 R	T29333 L T29334 R
4	INLET SCREEN	D3165	D3165	D3165
5	BEARING	J0048	J0048	J0048
6	MOTOR	-	-	-
7	PULLEY	J03612	J03612	J03612
8	BELT	J02535	J02533	J02533



SWCD0078
12/19/11;MCM

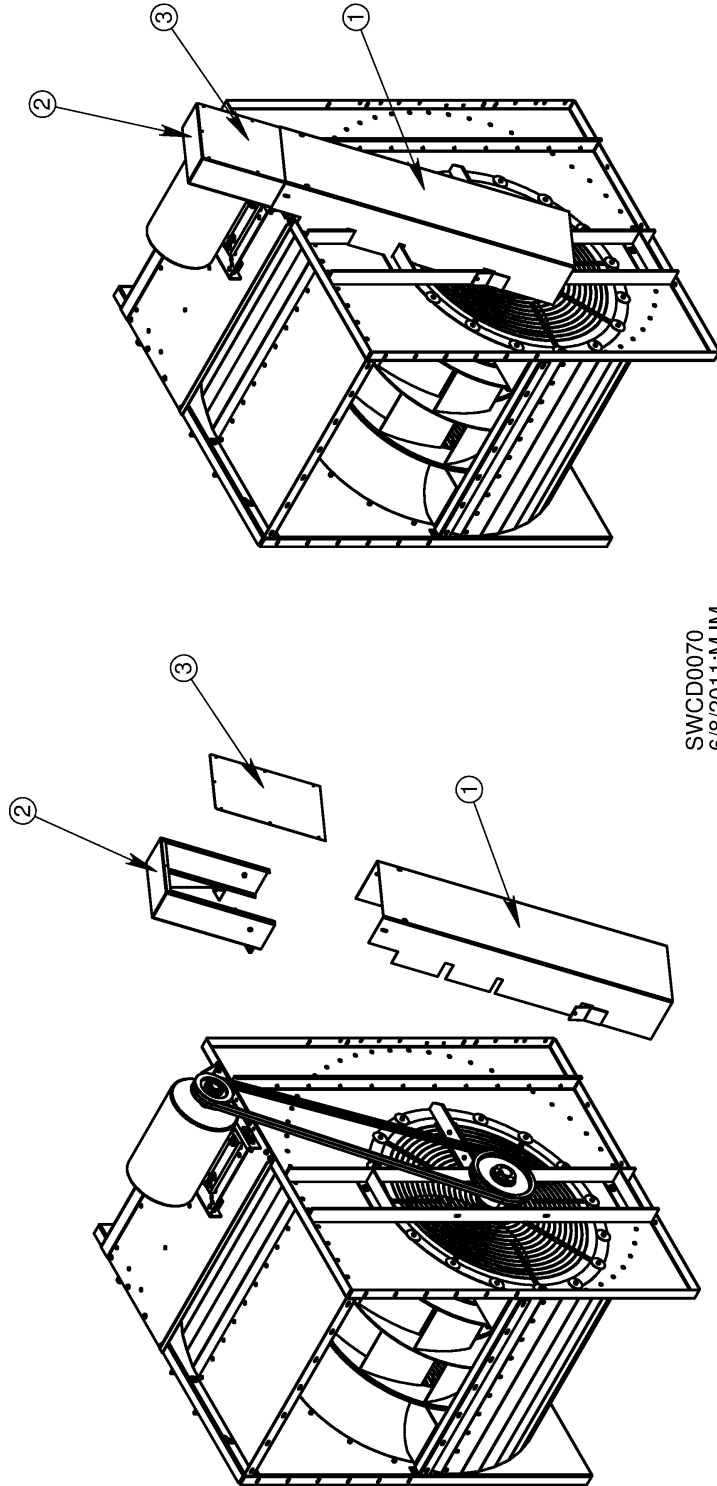
CENTRIFUGAL DRYER HEATER CE, D-C

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	T29181	HOUSING,BURNER,CENT,GALV,REV	1
2	D70321	VAPORIZER,3 COIL,10.5" ID - NO CROSSOVER	1
3	D7056	SLIDE PLATE, VAP, GALV	1
4	D7024	DOOR, SERVICE, CENT HTR, GALV.	1
5	D3829	SHIELD, DEFLECTOR	1
6	T17223D	PIPE TRAIN, ELMOD, 3/4" CE, LP, DC, CENT	1
7	D70255	BURNER ELEMENT, C.F. DRYER PROTO	1
8	T17132D	PIPE TRAIN, LIQ, 1/2, CENT RV, D-C	1
9	D70258	ROD, SUPPORT, CENT BURNER, CE	2
10	J5747	FLAME SENSOR	1
11	J5739	SPARK PLUG,#64	1
12	T80259	BAFFLE 2IN, CFD, CENT DC	1
13	T80256	BAFFLE 9IN, CFD, CENT DC	1



FULL HEAT FAN BELT SHIELD ASSEMBLY

PART NUMBER	DESCRIPTION	QTY
1	T29190 SHIELD, ASSY, BELT, LOWER	1
2	T29195 SHIELD, ASSY, UPPER	1
3	T29143 COVER, BELT SHIELD	1



SWCD0070
6/8/2011;MJM

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	J2620	PLUG, 3/4" PIPE	1	24	J2491	TEE, 3/4" X 3/4" X 3/4" SCH80	1
2	J2428	NIPPLE, 3/4" x 6" SCH 80	1	25	J24811	TEE, 3/4" X 3/4" X 1" SCH40	2
3	T19015	REGULATOR, 3/4", DRILLED+TAPPED, 1/4" NPT	1	26	J24173	NIPPLE, 1.00 X 2.5 SCH40	1
4	J6171	VALVE, 1/4" RELIEF, A1325, H120	1	27	J2696	UNION, 1" SCH40	3
5	J2530	ELBOW, STREET, 3/4", 90 DEG, SCH 40	2	28	T17216	PIPE, 1" X 24", SCH 40	1
6	J2410	NIPPLE, 3/4" x CLOSE, SCH 40	7	29	J25251	ELBOW, 1.90 DEG., SCH40	2
7	J2710	UNION, 3/4" BLACK, #150	5	30	J24171	NIPPLE, 1 X 10, SCH 40	2
8	J2525	ELBOW, 3/4", 90 DEG., SCH40	7	31	J24172	NIPPLE, 1 X 2", SCH 40	2
9	J2420	NIPPLE, 3/4" X 2" SCH40	6	32	J24291	NIPPLE, 3/4" x 14", BLACK, SCH 40	2
10	J6240	ACTUATOR, SKP15.001E1	2	33	D71193	ORIFICE PIPE, 3/4" X 3", SCH80	2
11	J6236	VALVE, GAS, 3/4" SINGLE, VGG10.2044	2	34	T18810	EYEBOLT, PIPE TRAIN, 1 1/16" SHAFT COLLAR	2
12	J6241	KIT, NEMA 4, AGA66	2	35	J4443	SWITCH, PRESS. DUNGS, GW6000, A4H	2
13	J2490	TEE, SIDE OUTLET, 3/4" BLACK	1	36	J0975	STUD, WELD, RTANGLE, 10-24 x 1/2" LG.	1
14	J2570	BUSHING, REDUCING, 3/4" X 1/4" SCH40	3	37	J0976	NUT, # 10-24, WING	1
15	J5960	GAUGE, PRES, 0-30, LIQ, 1/4BTM, MT	2	38	T10150	SHIM	1
16	J24003	NIPPLE, 1/4" X 7/8", SCH 40	9	39	J6200	RAIN CAP, 7545-10	1
17	J2526	ELBOW, 1/4" x 90, SCH 40	4	40	J6229	CONNECTOR, DIN, ACTUATOR(SWITCH)	2
18	J2703	UNION, 1/4" SCH40	3				
19	J2411	NIPPLE, 1/4" X 3", SCH 40	1				
20	J4437	SWITCH, PRESS. DUNGS, GW2000, A4	1				
21	T161935	BRACKET, ELECTRONIC MOD VALVE	1				
22	J6126	VALVE, BUTTERFLY, L/ACTUATOR, 3/4"	1				
23	T26902	COVER, ELECTRONIC VALVE, 5.625 X 3.5	1				

DXF CREATED:

SUKUP MFG. CO.
Sukup
 SUKUP PARKWAY
 SHEFFIELD, IA. 50475

TOLERANCE UNLESS SPECIFIED
 .X = ± .050
 .XX = ± .010
 .XXX = ± .005
 FRAC = ± 1/32
 ° = ± 1°

DRAWN BY: MJM
 RAW MAT'L NO.: - - - -
 PART NO.: T17223D

DATE: 05/23/2011
 MATERIAL: - - - -
 USED IN ASSY OF: - - - -

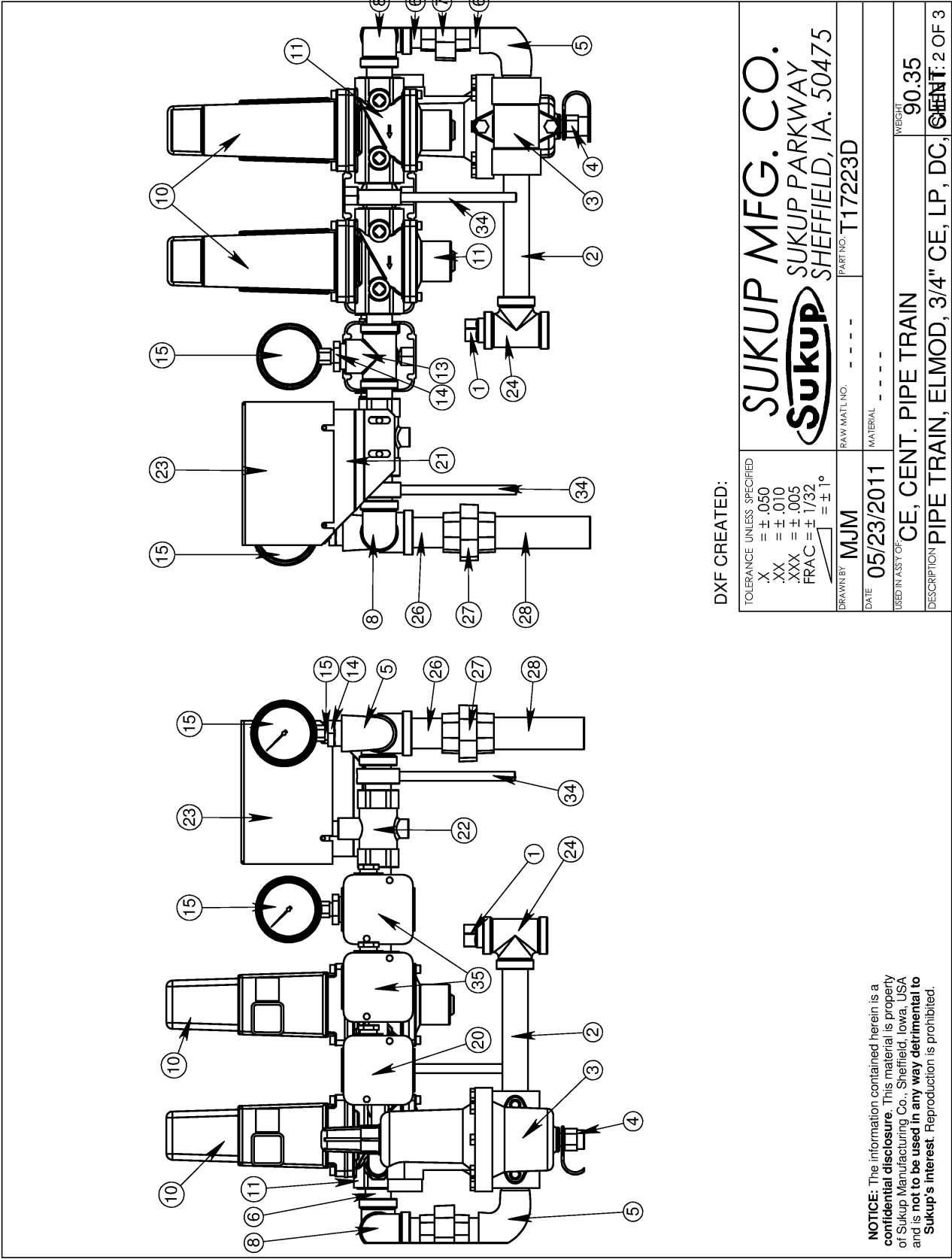
DESCRIPTION: PIPE TRAIN, ELMOD, 3/4" CE, LP, DC, CENT

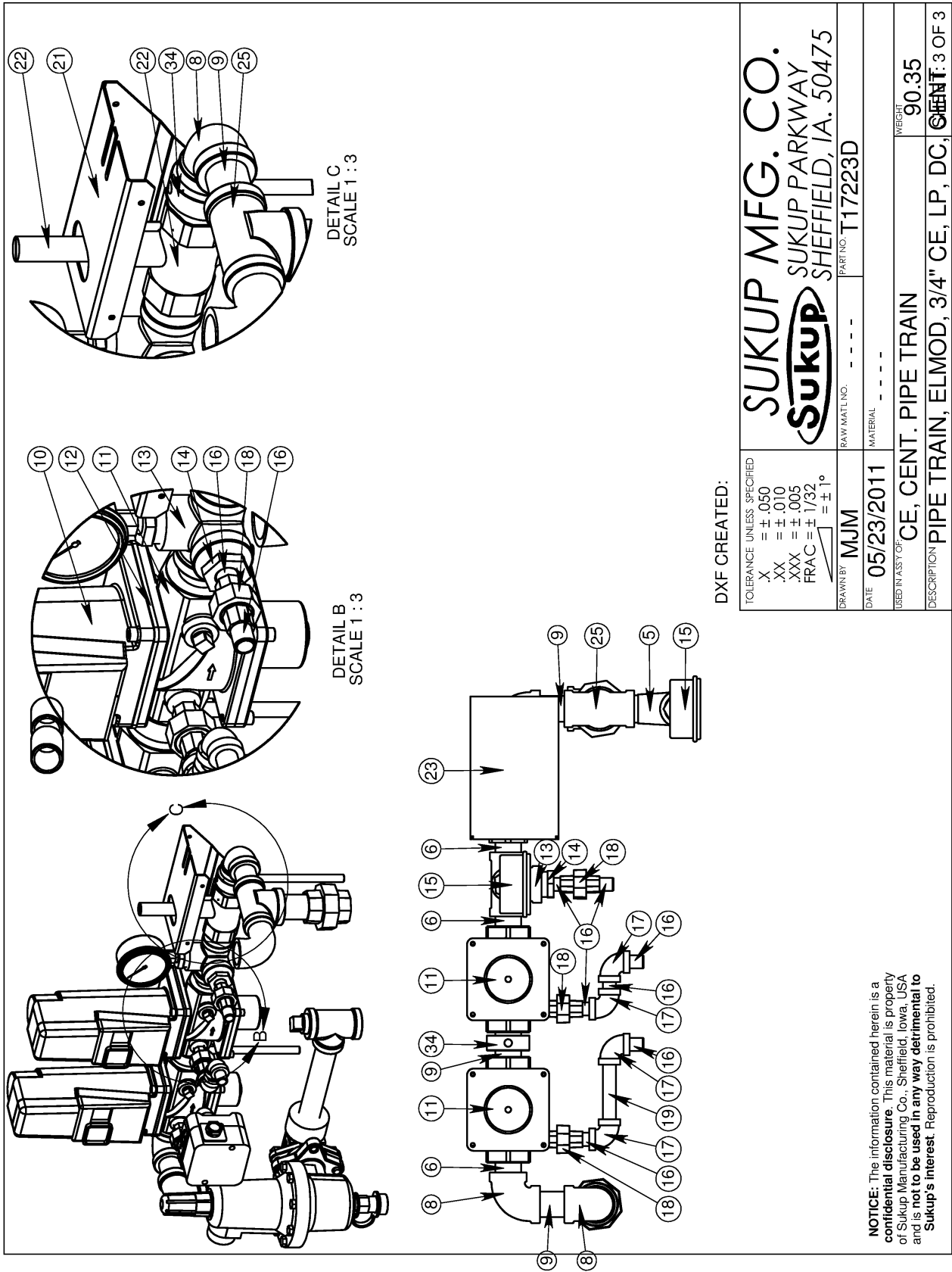
WEIGHT: 90.35

SHEET: 1 OF 3

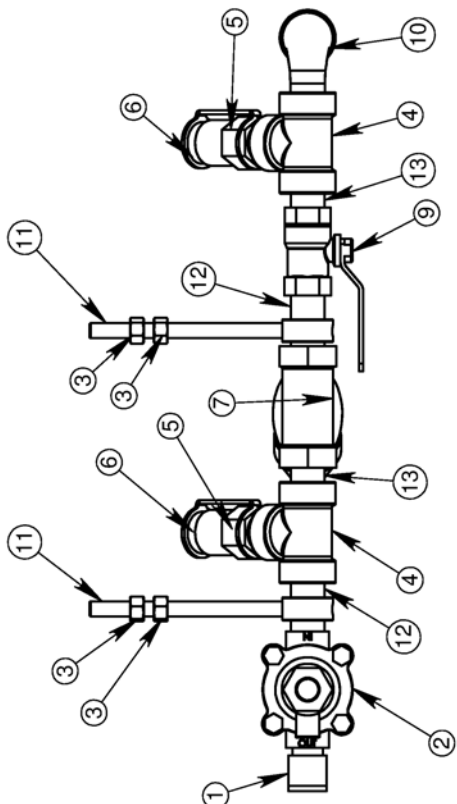
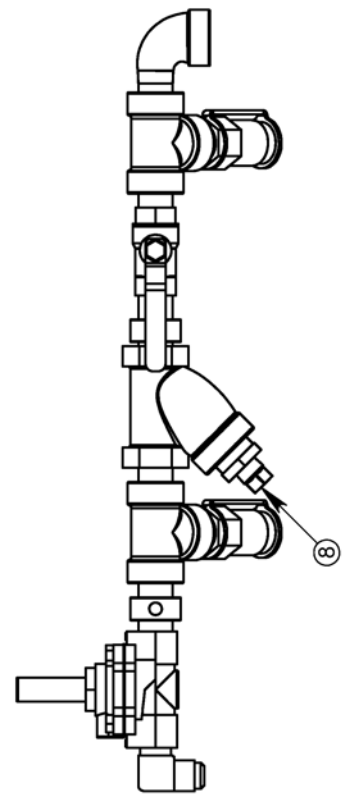
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A	ECO # 5163	12/16/2011	MCM
REF.	ENG. ORDER #	DATE	BY
REVISIONS			





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	J2745	ELBOW, 1/2 FL X 1/2 MIP, 90 DEG, E1-8D	1
2	T17097	CONDUIT WITH J6257 SOLENOID, LIQUID W/WRS, VA, D-C	1
3	J1020	NUT, HEX, 3/8-16,PLT	4
4	J2472	TEE, 1/2 X 1/2 X 1/2, SCH80	2
5	J6170	VALVE, 1/2", RELIEF, 3129G,H135-2	2
6	J6200	RAIN CAP, 7545-10	2
7	J5992	STRAINER, LIQ, 1/2"	1
8	J2610	PLUG, 3/8, PIPE, BLK	1
9	J6082	VALVE, 1/2", BALL, ITT 1550	1
10	J2519	ELBOW, STREET, 1/2, 90 DEG., SCH80	1
11	D71161	EYEBOLT, PIPE TRAIN, 7/8" SHAFT COLLAR	2
12	J24071	NIPPLE, 1/2 x 2, SCH 80	2
13	J2407	NIPPLE, 1/2" x CLOSE ,SCH 80	2

DXF CREATED:

SUKUP MFG. CO.
Sukup SUKUP PARKWAY
SHEFFIELD, IA. 50475

TOLERANCE UNLESS SPECIFIED
X = ± .050
XX = ± .010
XXX = ± .005
FRAC = ± 1/32
= ± 1°

DRAWN BY **MJM** DATE **05/31/2011**

RAW MATL NO. ----- PART NO. **T17132D**

MATERIAL -----

USED IN ASSY OF **CENT REV DRYER** WEIGHT **7.605**

DESCRIPTION **PIPE TRAIN, LIQ, 1/2, CENT RV, D-C** SHEET: 1 OF 1

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REV.	DESCRIPTION OR ENG. ORDER #	DATE	BY
REVISIONS			

ITEM NO.	QTY.	PART NO.	DESCRIPTION	ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	J6237	VALVE, GAS, 1 1/2" DBL, VGD20.403	39	2	J0496	SCREW, 1/4-20, 3/4, PLT, SELFDRILL
2	2	J6241	KIT, NEMA 4, AGA66	40	1	T10150	SHIM
3	2	J6240	ACTUATOR, SKP15.001E1	41	2	D71163	CLAMP, PIPE TRAIN, 2"
4	2	J6239	FLANGE SET, 1 1/2" NPT, AGA4U				
5	4	J2431	NIPPLE, 1.5XCLOSE SCH40				
6	4	J2541	ELBOW, 1 1/2" 90 DEG, SCH40				
7	1	J2445	NIPPLE, 1 1/2" x 7", SCH 40				
8	2	J2437	NIPPLE, 1.5 X 6" SCH40				
9	1	J6087	VALVE, 1 1/2", BALL (FIREING)				
10	1	J2432	NIPPLE, 1 1/2 x 2, SCH 40				
11	1	J6127	VALVE, BUTTERFLY, L/ACTUATOR, 1 1/2", MAXON				
12	1	J2477	TEE, 1 1/2 x 3/4 x 1 1/2, SCH 40				
13	3	J2410	NIPPLE, 3/4 x CLOSE, SCH 40				
14	1	J2574	COUPLING, REDUCING, 3/4X1/4 SC40				
15	1	J2707	UNION, 1 1/2", SCH40				
16	1	T17215	PIPE, 1 1/2 X 19", SCH 40				
17	1	J2553	COUPLING, RED., 1 1/2" x 1", SCH 40				
18	1	J2417	NIPPLE, 1.00XCLOSE SCH40				
19	2	J25251	ELBOW, 1, 90 DEG., SCH40				
20	2	J24171	NIPPLE, 1 X 10, SCH 40				
21	2	J2696	UNION, 1" SCH40				
22	2	J24172	NIPPLE, 1 X 2", SCH 40				
23	1	J24811	TEE, 3/4 X 3/4 X 1, SCH40				
24	2	J2420	NIPPLE, 3/4 X 2, SCH40				
25	4	J2710	UNION, 3/4, BLACK, #150				
26	2	J24291	NIPPLE, 3/4" x 14", BLACK, SCH 40				
27	4	J2525	ELBOW, 3/4, 90 DEG., SCH40				
28	2	D71193	ORIFICE PIPE, 3/4" X 3", SCH80				
29	7	J24003	NIPPLE, 1/4" X 7/8", SCH 40				
30	3	J2703	UNION, 1/4", SCH40				
31	1	J2469	TEE, 1/4" X 1/4" X 1/4", SCH40				
32	3	J4437	SWITCH, PRESS., DUNGS, GW2000 A4				
33	2	J5967	GAUGE, PRESSURE, 0-15, LIQ, 1/4" BTM, MT				
34	1	T161935	BRACKET, ELECTRONIC MOD VALVE				
35	1	T26902	COVER, ELECTRONIC VALVE, 5.625 X 3.5				
36	2	J6229	CONNECTOR, DIN, ACTUATOR (SWITCH), AGA65				
37	1	J0975	STUD, WELD, RTANGLE, 10-24 x 1/2" LG.				
38	1	J0976	NUT, #10-24, WING				

DXF CREATED:

SUKUP MFG. CO.
SUKUP PARKWAY
SHEFFIELD, IA. 50475

TOLERANCE UNLESS SPECIFIED
X = ± .050
XX = ± .010
XXX = ± .005
FRAC = ± 1/32
= ± 1°

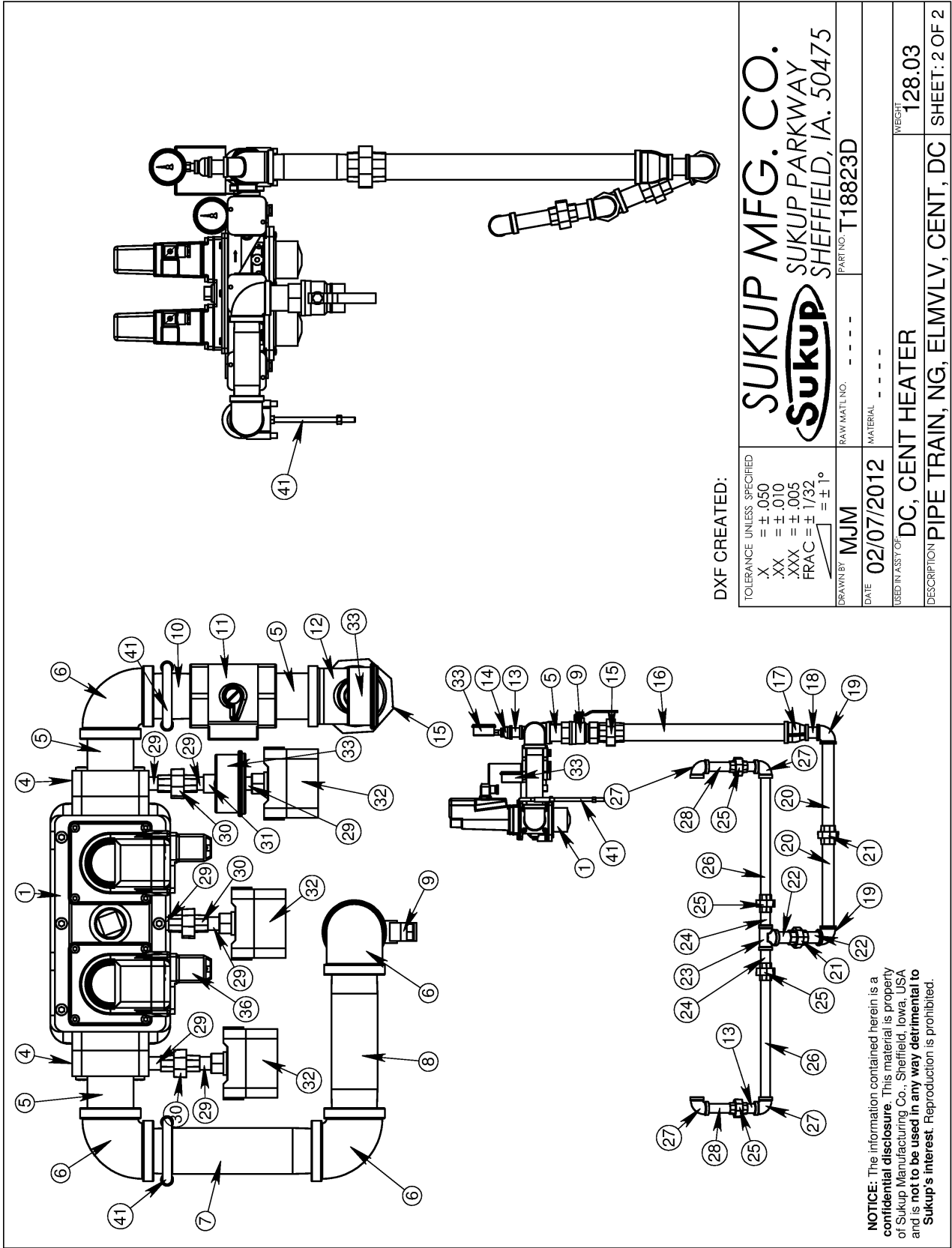
DRAWN BY: MJM
DATE: 02/07/2012
RAW MAT'L NO.: T18823D
MATERIAL: -----

USED IN ASSY OF: DC, CENT HEATER
WEIGHT: 128.03

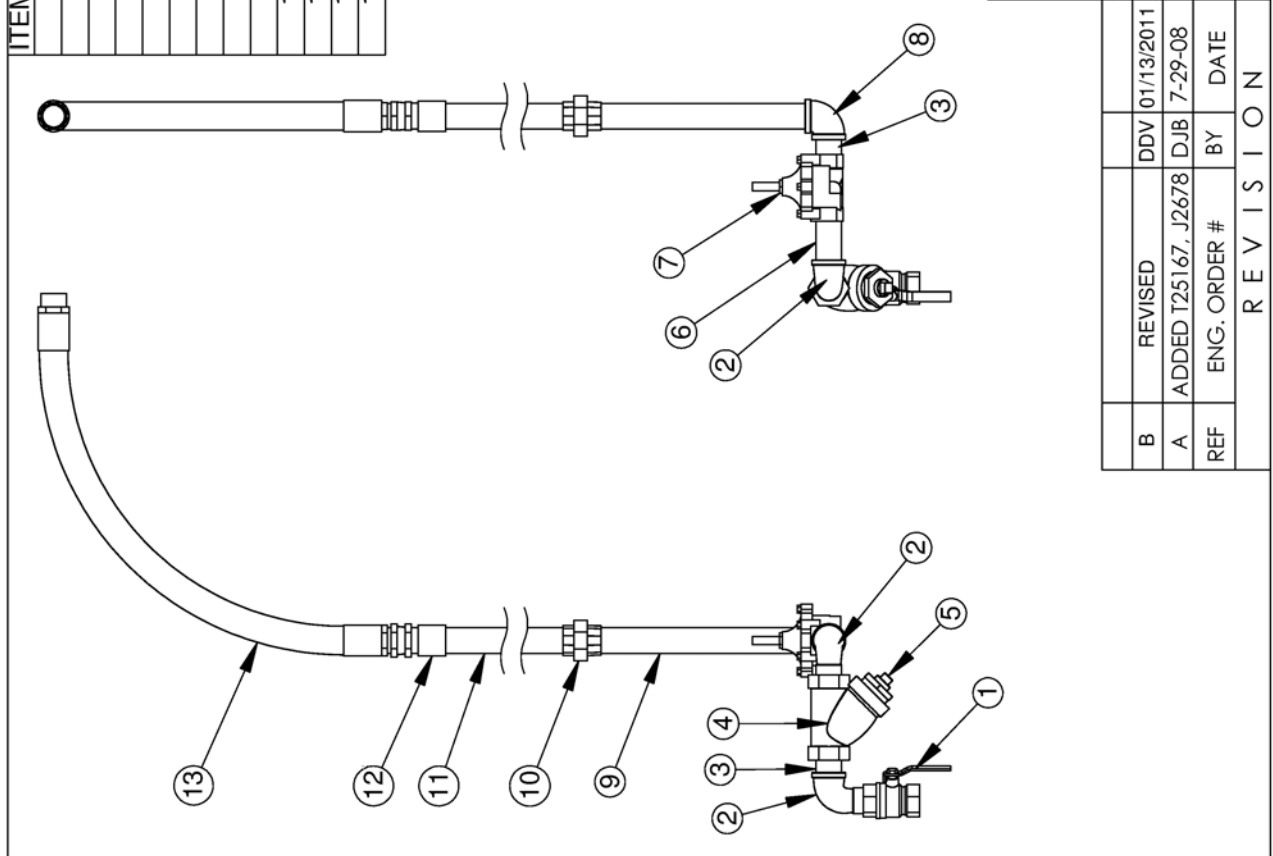
DESCRIPTION: PIPE TRAIN, NG, ELMVLV, CENT, DC
SHEET: 1 OF 2

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	REVISIONS		

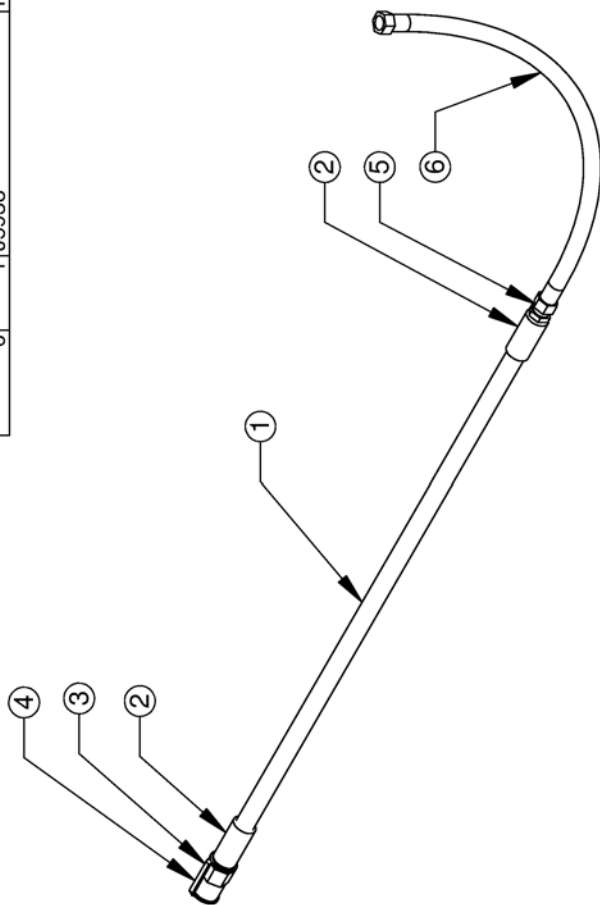


ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J6087	VALVE, 1 1/2", BALL (FIREING)	1
2	J2542	ELBOW, STREET, 1.5", 90 DEG, SCH40	2
3	J2431	NIPPLE, 1.5X CLOSE SCH40	2
4	J6232	STRAINER, 1 1/2"	1
5	J2625	PLUG, 1"	1
6	J2436	NIPPLE, 1.5 X 4" SCH40	1
7	T25163S	SOLENOID ASSY, NG, 1 1/2", MNFLD	1
8	J2541	ELBOW, 1 1/2", 90 DEG, SCH40	1
9	T25167	PIPE, 1 1/2 X 16", SCH40	1
10	J2707	UNION, 1 1/2", SCH40	1
11	T25164	PIPE, 1 1/2 X 29", SCH40	1
12	J26781	COUPLING, 1 1/2" BLACK PIPE	1
13	J5935	HOSE, NG, 1 1/2 X 36"	1



UNLESS OTHERWISE SPECIFIED X = ±.010 .XX = ±.005 .XXX = ±.001 FRAC = 1/32 ± = ±	SUKUP MFG. CO. SUKUP PARKWAY SHEFFIELD, IA. 50475	
	DRAWN BY JFJ DATE 6/13/2008	DWG NO. T25152
	MATERIAL CENT CONT FLOW DRYER	
	NAME MANIFOLD, NG, 1 1/2", SUCT COOL CENT DRYER	

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	T24161	PIPE, 1/2" X 2 1/2', SCH 80
2	2	J2577	COUPLING, 1/2", SCH 80
3	1	J6170	VALVE, 1/2", RELIEF, 3129G, H135-2
4	1	J6200	RAIN CAP, 7545-10
5	1	J2840	UNION, 1/2 FL X 1/2 NIP
6	1	J5938	HOSE, CGA x 28 1/2", 7000808-886



TOLERANCE UNLESS SPECIFIED .X = ± .050 .XX = ± .010 .XXX = ± .005 FRAC = ± 1/32 ∠ = ± 1°		SUKUP MFG. CO. Sukup SUKUP PARKWAY SHEFFIELD, IA. 50475	
DRAWN BY	THW	RAW MAT'L NO.	PART NO. T20195CS
DATE	01/03/2011	MATERIAL	WEIGHT
USED IN ASSY OF:		DRYER, SUCT COOL	
DESCRIPTION		MANIFOLD, RELIEF VALVE, CENT DRYER, CSA	

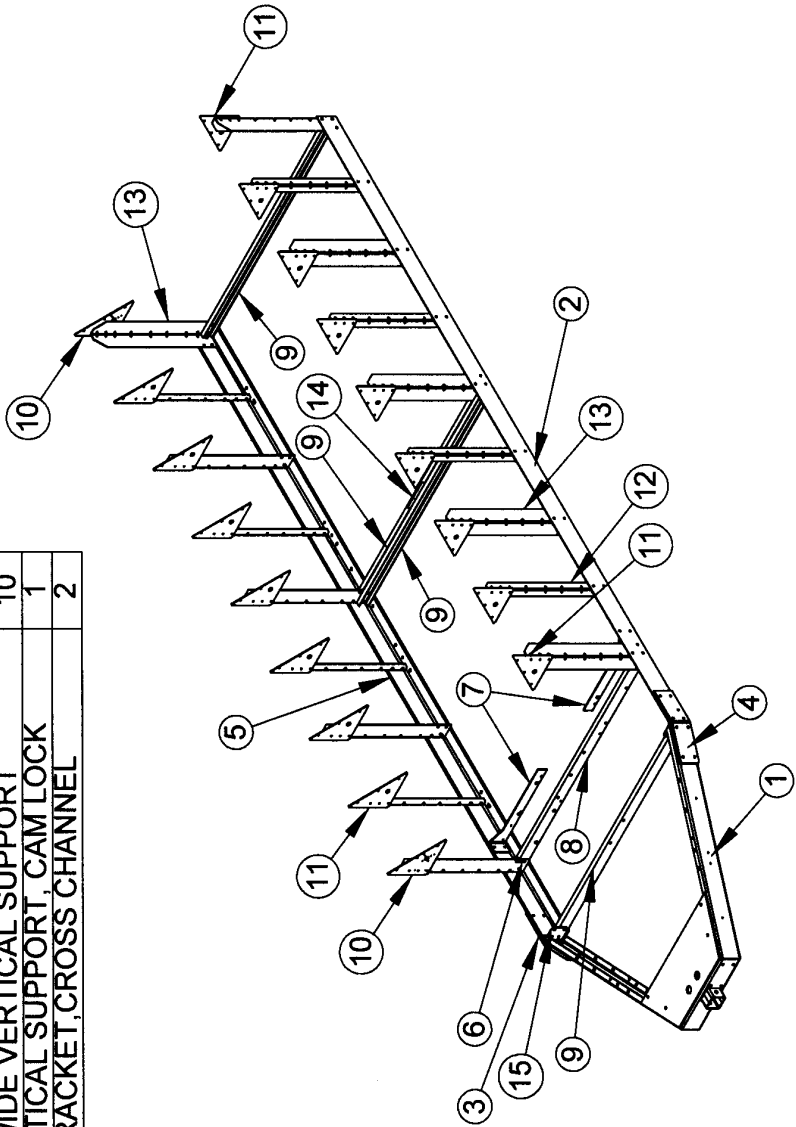
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REF	ENG. ORDER #	BY	DATE
R E V I S I O N			

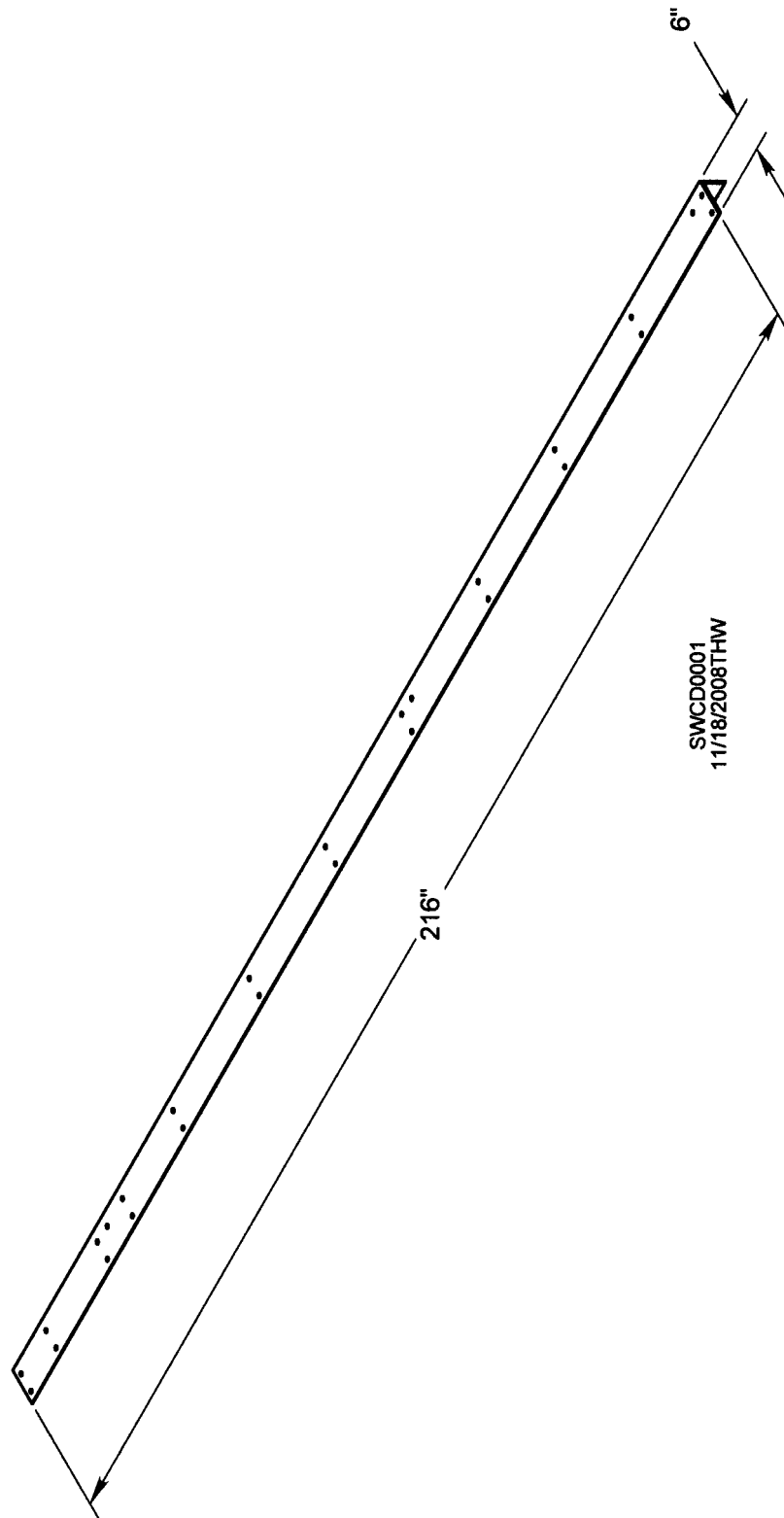
FRAME ASSEMBLY

T16306 FRAME ASSEMBLY FOR 16' CENTRIFUGAL DRYER

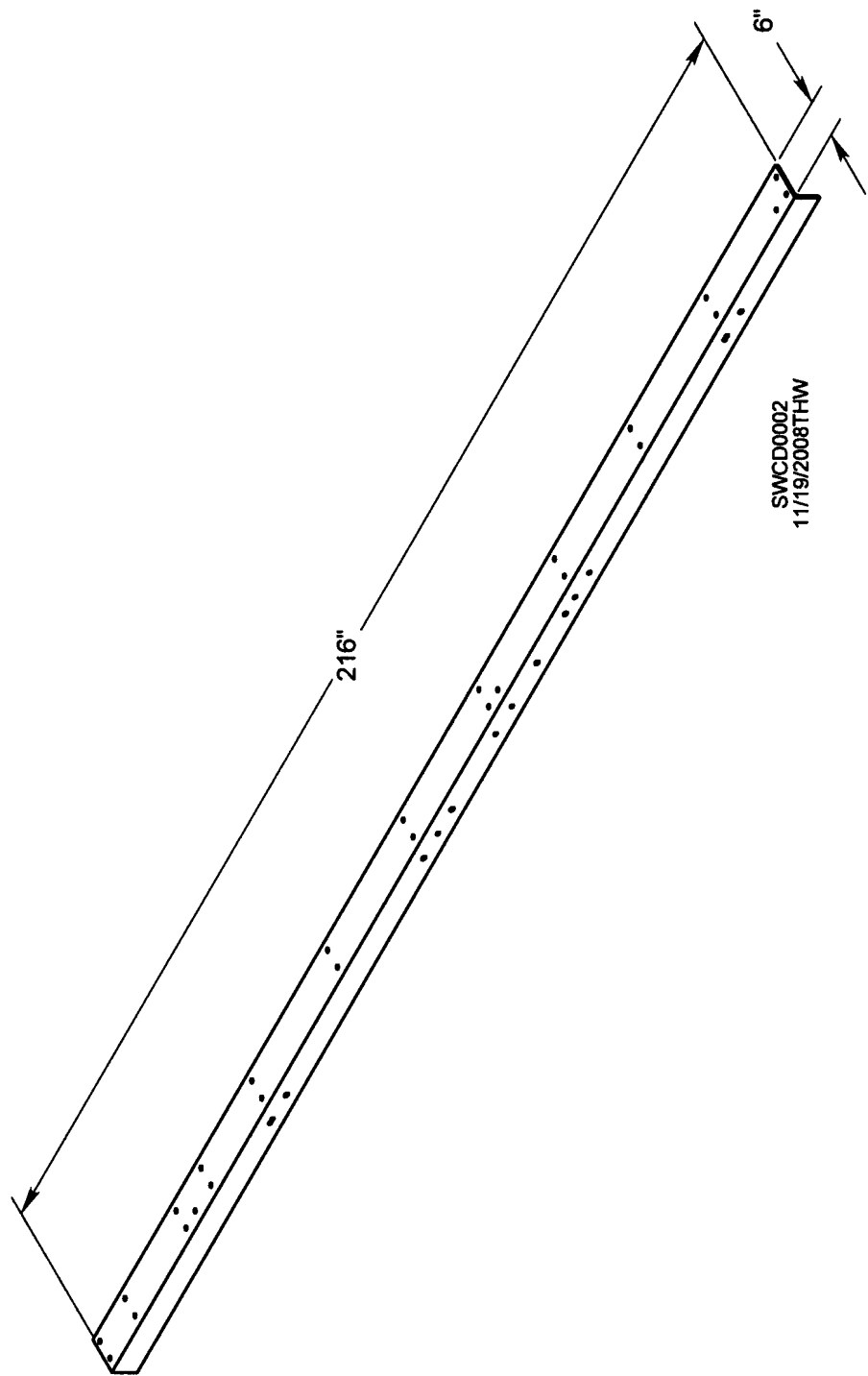
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	T24423	HITCH RECEIVER WELDMENT	1
2	T80206	LEFT FRAME ANGLE	1
3	T16332D	PLATE, 3/4" HITCH CONNECTOR, R.H.	1
4	T16321D	PLATE, 3/4" HITCH CONNECTOR, L.H.	1
5	T80205	RIGHT FRAME ANGLE	1
6	T16329	TIGHTENER ANGLE	1
7	T16328	DC MOTOR BRACE	2
8	T16333	FRONT CROSS CHANNEL	1
9	T16325	CROSS CHANNEL	4
10	T16331	PLATE, MAIN CONNECTOR, BOX, CONDUIT	2
11	T16324	MAIN CONNECTOR PLATE	16
12	T16323	NARROW VERTICAL SUPPORT	8
13	T16322	WIDE VERTICAL SUPPORT	10
14	T16389	VERTICAL SUPPORT, CAM LOCK	1
15	T80147	BRACKET, CROSS CHANNEL	2



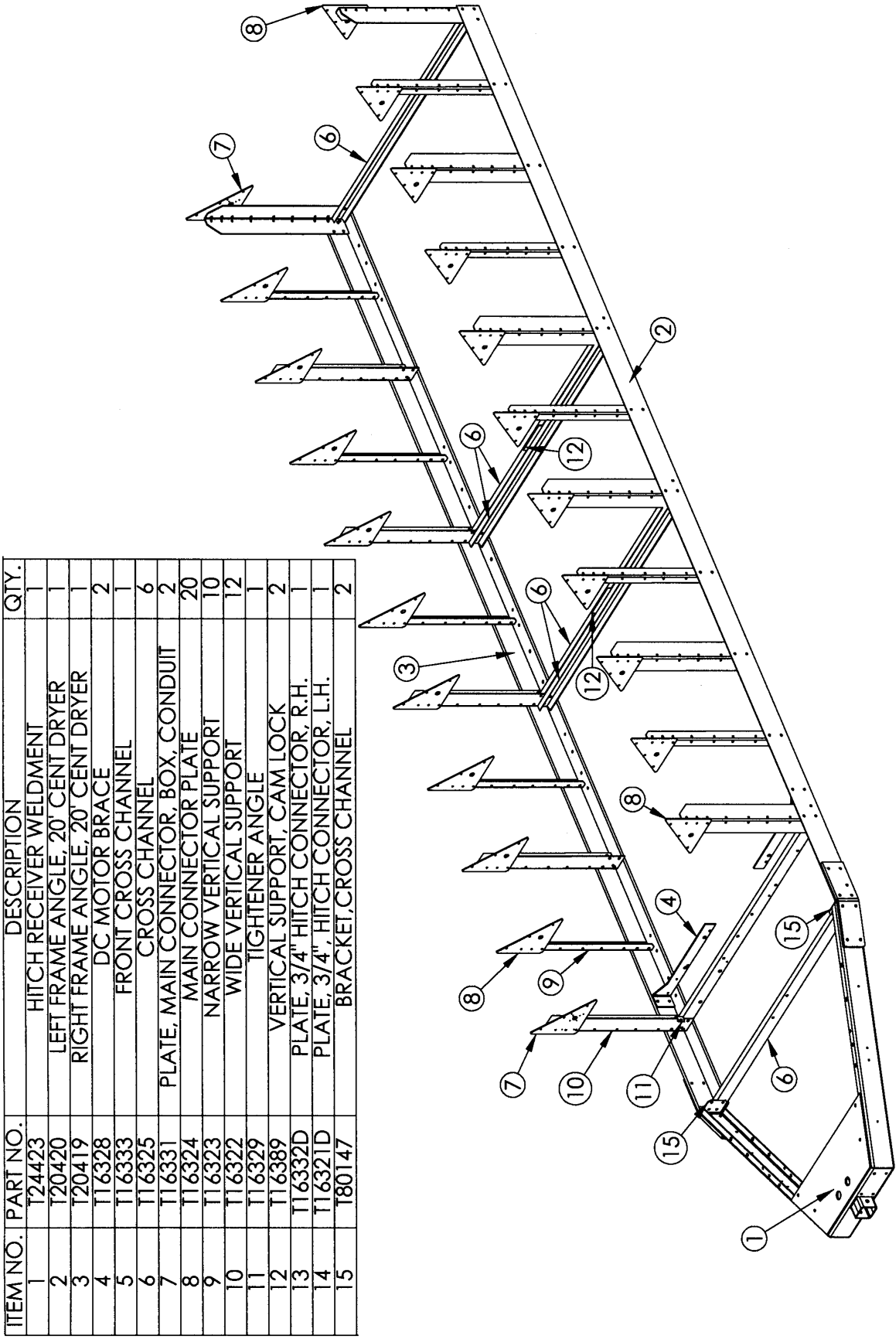
T80205 RIGHT FRAME ANGLE FOR 16' CENTRIFUGAL DRYER



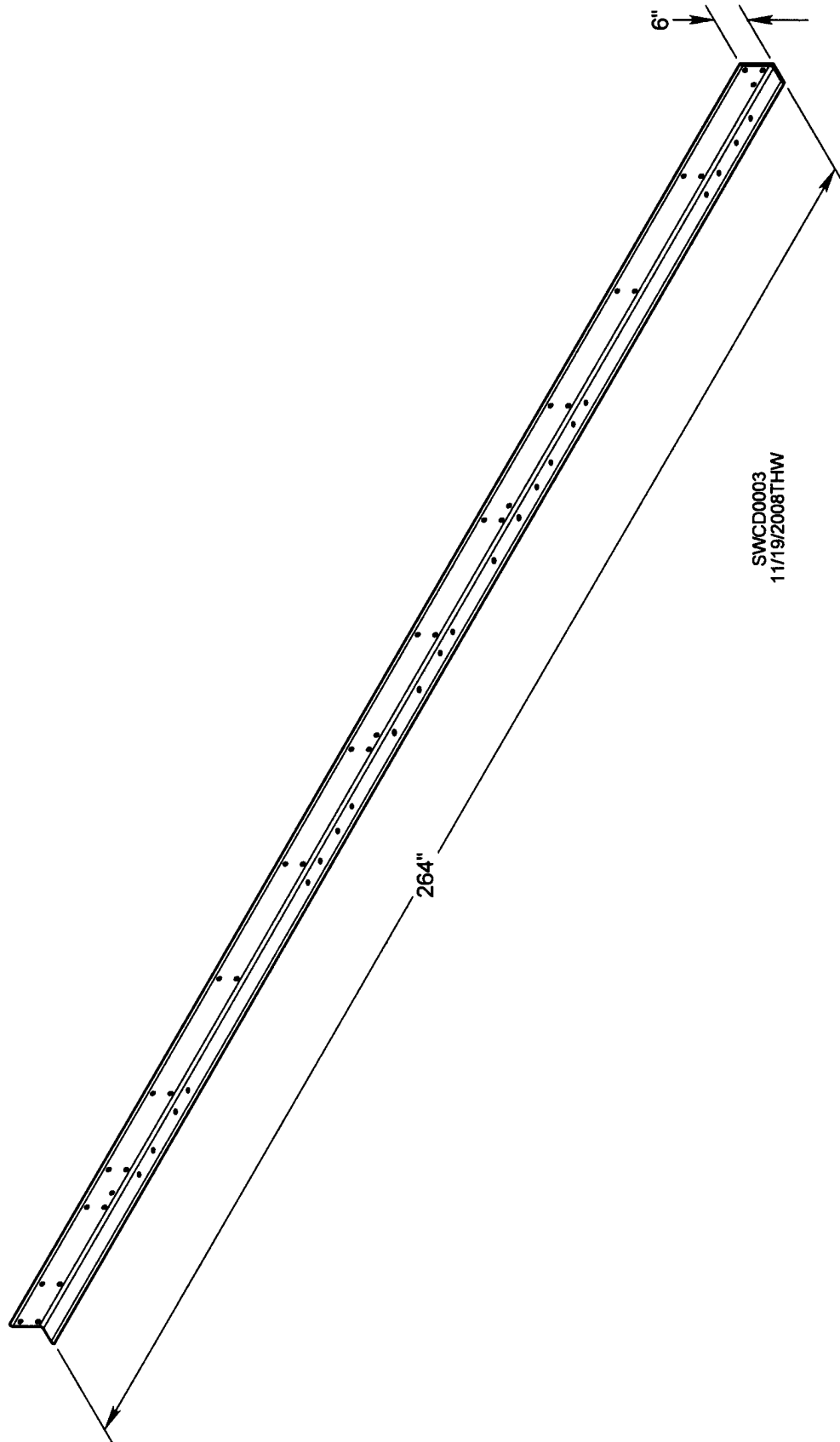
T80206 LEFT FRAME ANGLE FOR 16' CENTRIFUGAL DRYER



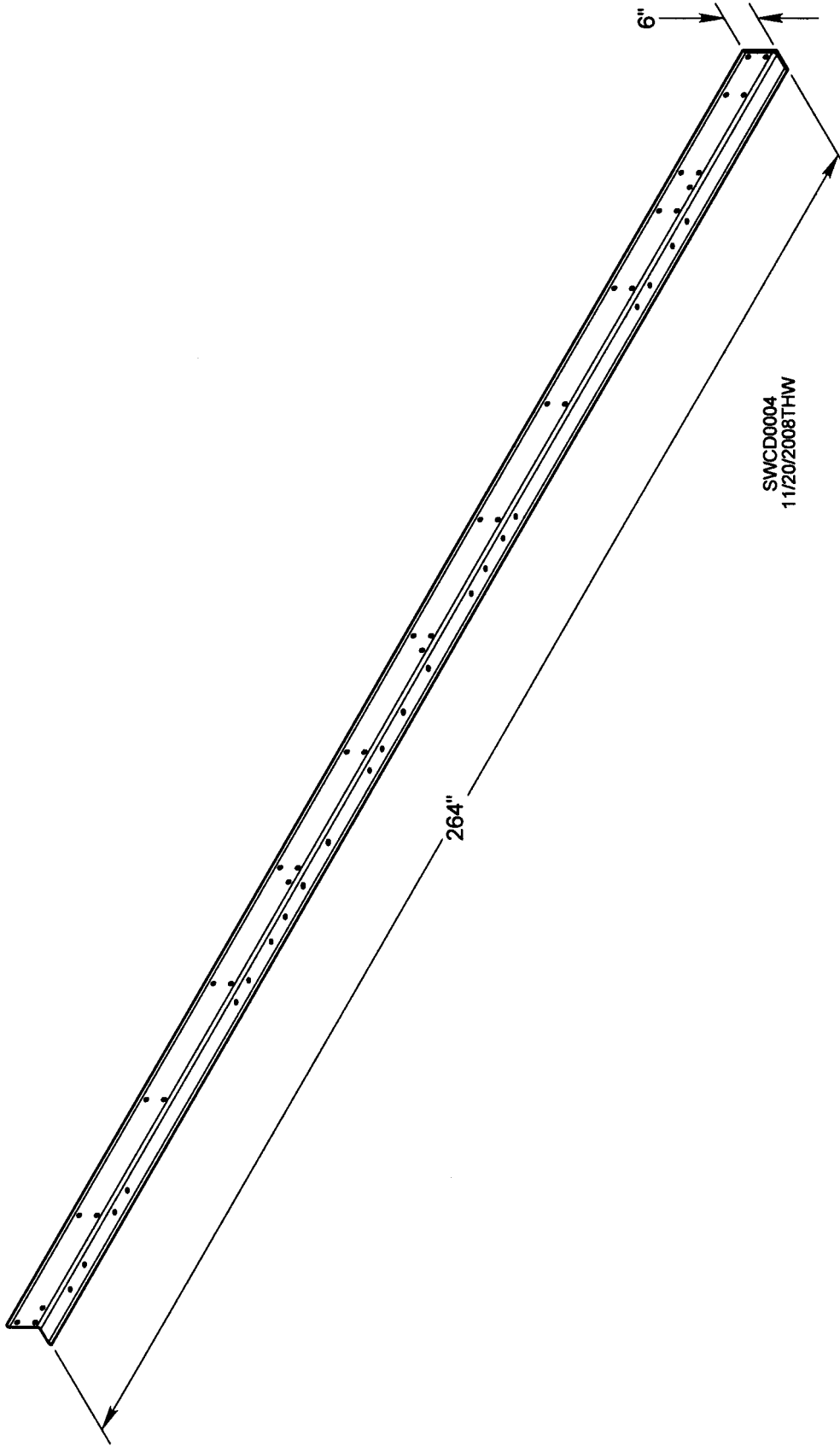
T20306 FRAME ASSEMBLY FOR 20' CENTRIFUGAL DRYER



T20419 RIGHT FRAME ANGLE FOR 20' CENTRIFUGAL DRYER

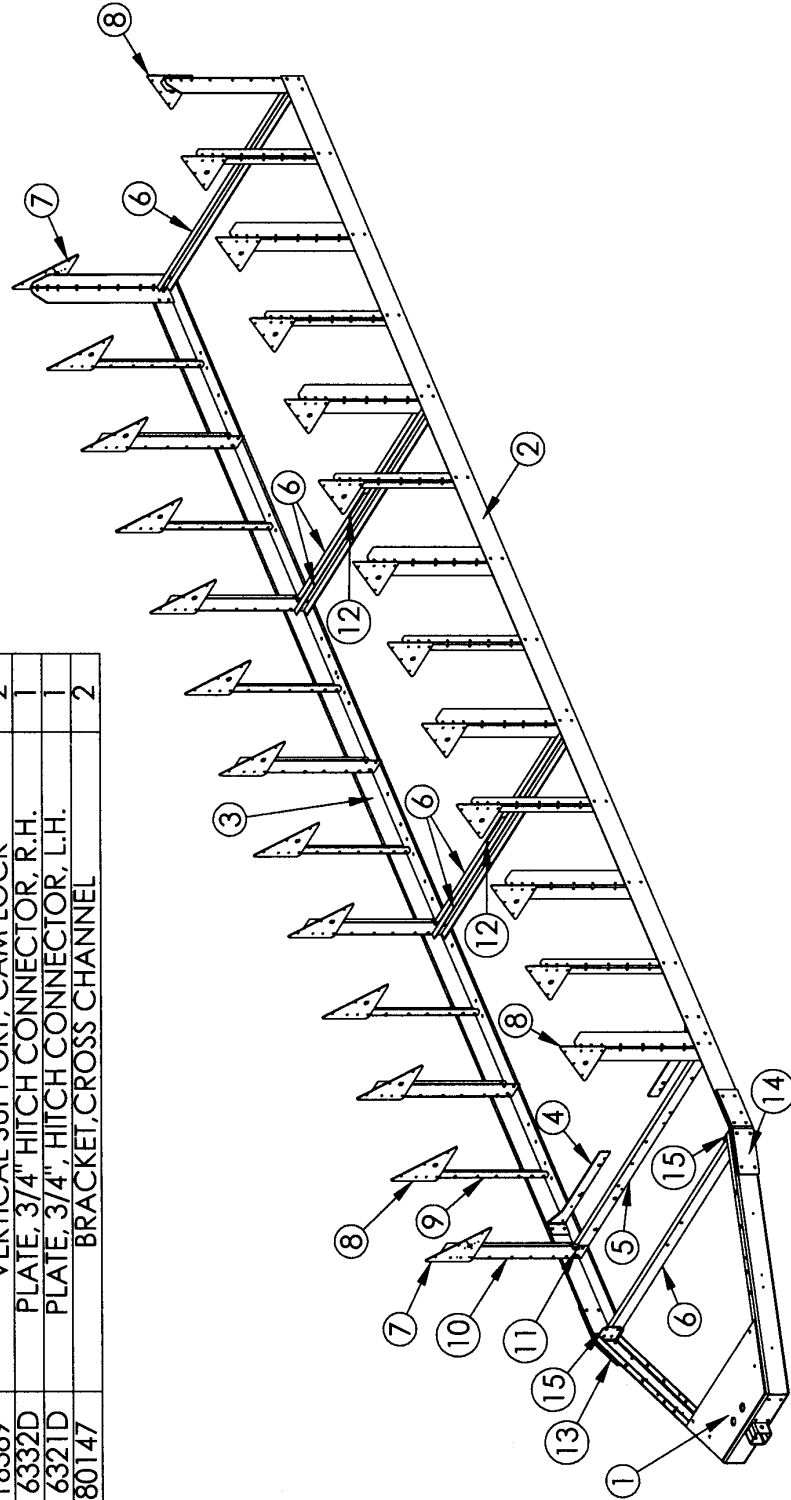


T20420 LEFT FRAME ANGLE FOR 20' CENTRIFUGAL DRYER

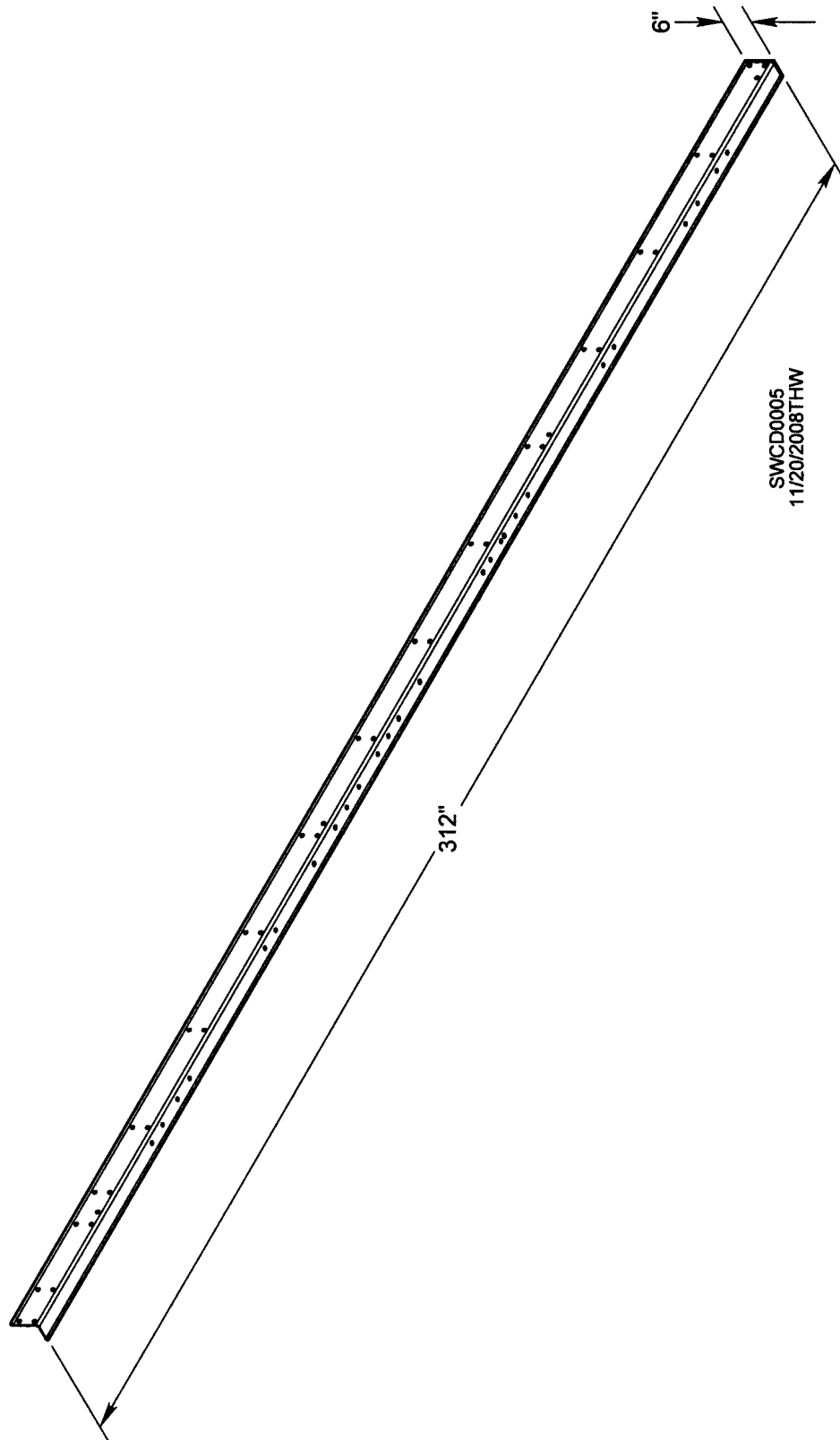


T24306 FRAME ASSEMBLY FOR 24' CENTRIFUGAL DRYER

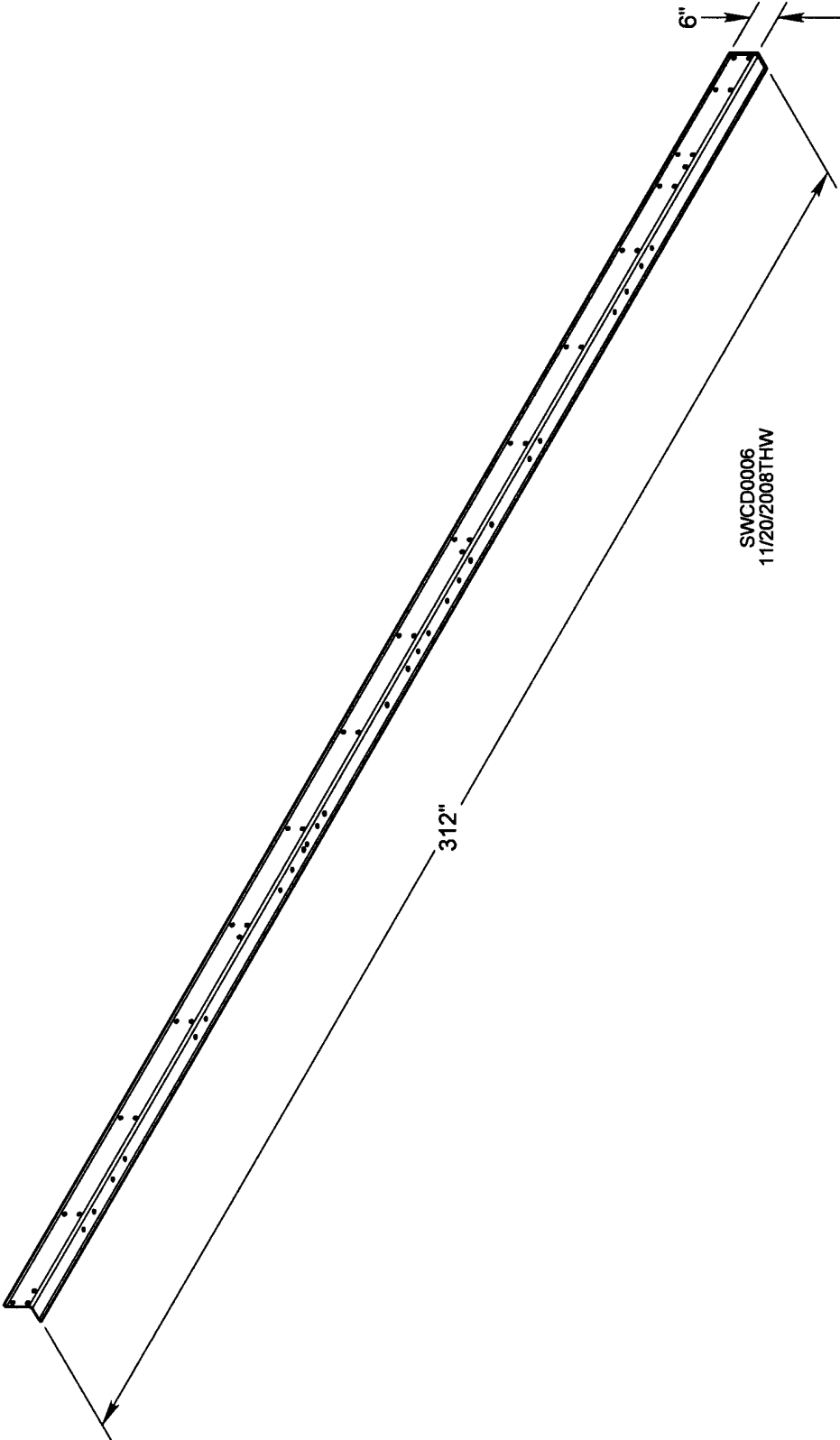
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	T24423	HITCH RECEIVER WELDMENT	1
2	T24420	LEFT FRAME ANGLE	1
3	T24419	RIGHT FRAME ANGLE	1
4	T16328	DC MOTOR BRACE	2
5	T16333	FRONT CROSS CHANNEL	1
6	T16325	CROSS CHANNEL	6
7	T16331	PLATE, MAIN CONNECTOR, BOX, CONDUIT	2
8	T16324	MAIN CONNECTOR PLATE	24
9	T16323	NARROW VERTICAL SUPPORT	12
10	T16322	WIDE VERTICAL SUPPORT	14
11	T16329	TIGHTENER ANGLE	1
12	T16389	VERTICAL SUPPORT, CAM LOCK	2
13	T16332D	PLATE, 3/4" HITCH CONNECTOR, R.H.	1
14	T16321D	PLATE, 3/4" HITCH CONNECTOR, L.H.	1
15	T80147	BRACKET, CROSS CHANNEL	2



T24419 RIGHT FRAME ANGLE FOR 24' CENTRIFUGAL DRYER

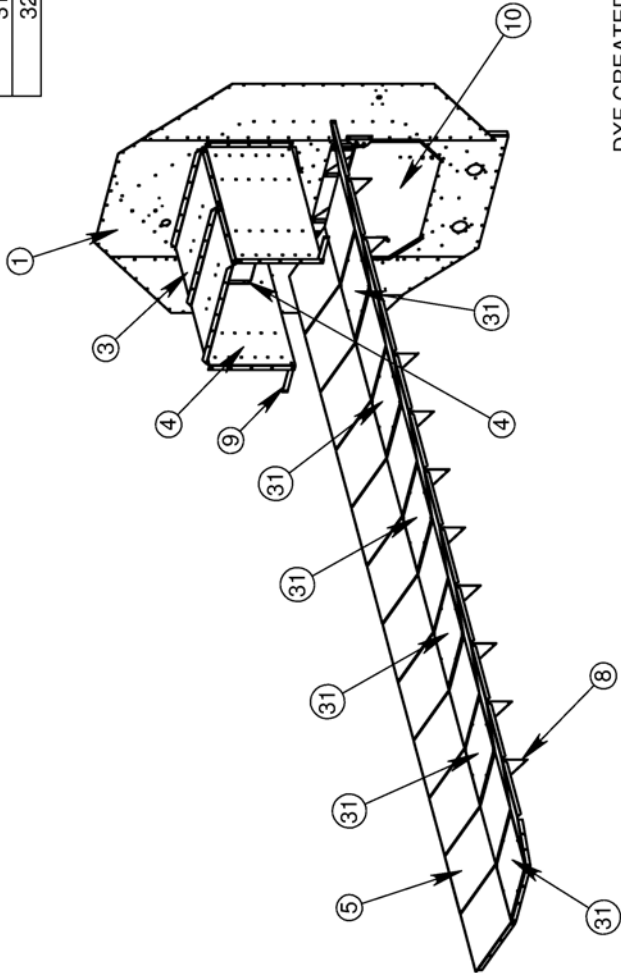


T24420 LEFT FRAME ANGLE FOR 24' CENTRIFUGAL DRYER



CE, DC LAYOUT

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	T80150	FRONT END PLATE, CENT. FAN
2	2	T16101	SIDE END PLATE
3	2	T80151	TOP PANEL, HEATER SHIELD
4	2	T80241	PANEL, SIDE, TUNNEL EXTEN
5	6	T24600	DIVIDER, PLENUM
6	6	T80144	DIVIDER W/ CUTOUT, PLENUM
8	22	T24601	GUSSET, PLENUM DIVIDER
9	2	T80240	BRKT. EXTENSION TO PERF
10	1	T43941	BAFFLE PANEL
31	6	T80260	COVER, PLENUM DIVIDER, FLAT
32	1	T80258	STAGNATOR 14IN, CFD, CENT DC



DXF CREATED:

TOLERANCE UNLESS SPECIFIED
X = ± .050
.XX = ± .010
.XXX = ± .005
FRAC = ± 1/32
= ± 1°



SUKUP MFG. CO.
SUKUP PARKWAY
SHEFFIELD, IA. 50475

DRAWN BY
JFJ

DATE
4/15/2008

USED IN ASSY OF
CONT FLOW DRYER

RAW MATL NO.

MATERIAL

DESCRIPTION
PANEL, FRONT, FAN SUPT, SUCT COOL DRYER

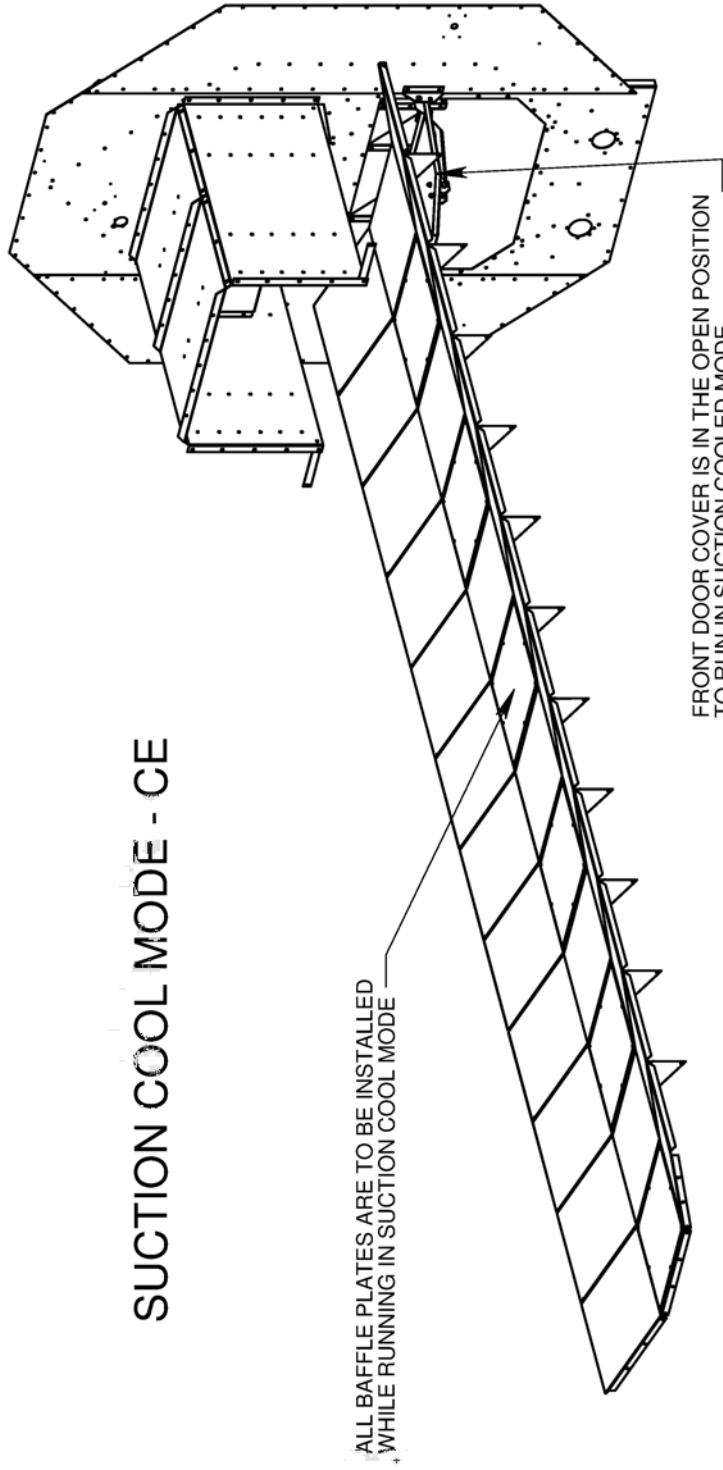
PART NO.
T15713C

WEIGHT

SHEET: 4 OF 6

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SUCTION COOL MODE - CE



DXF CREATED:

TOLERANCE UNLESS SPECIFIED
.X = $\pm .050$
.XX = $\pm .010$
.XXX = $\pm .005$
FRAC = $\pm 1/32$
ANGLE = $\pm 1^\circ$

SUKUP MFG. CO.
Sukup SUKUP PARKWAY
SHEFFIELD, IA. 50475

DRAWN BY JFJ RAW MAT'L NO. ----- PART NO. T15713C

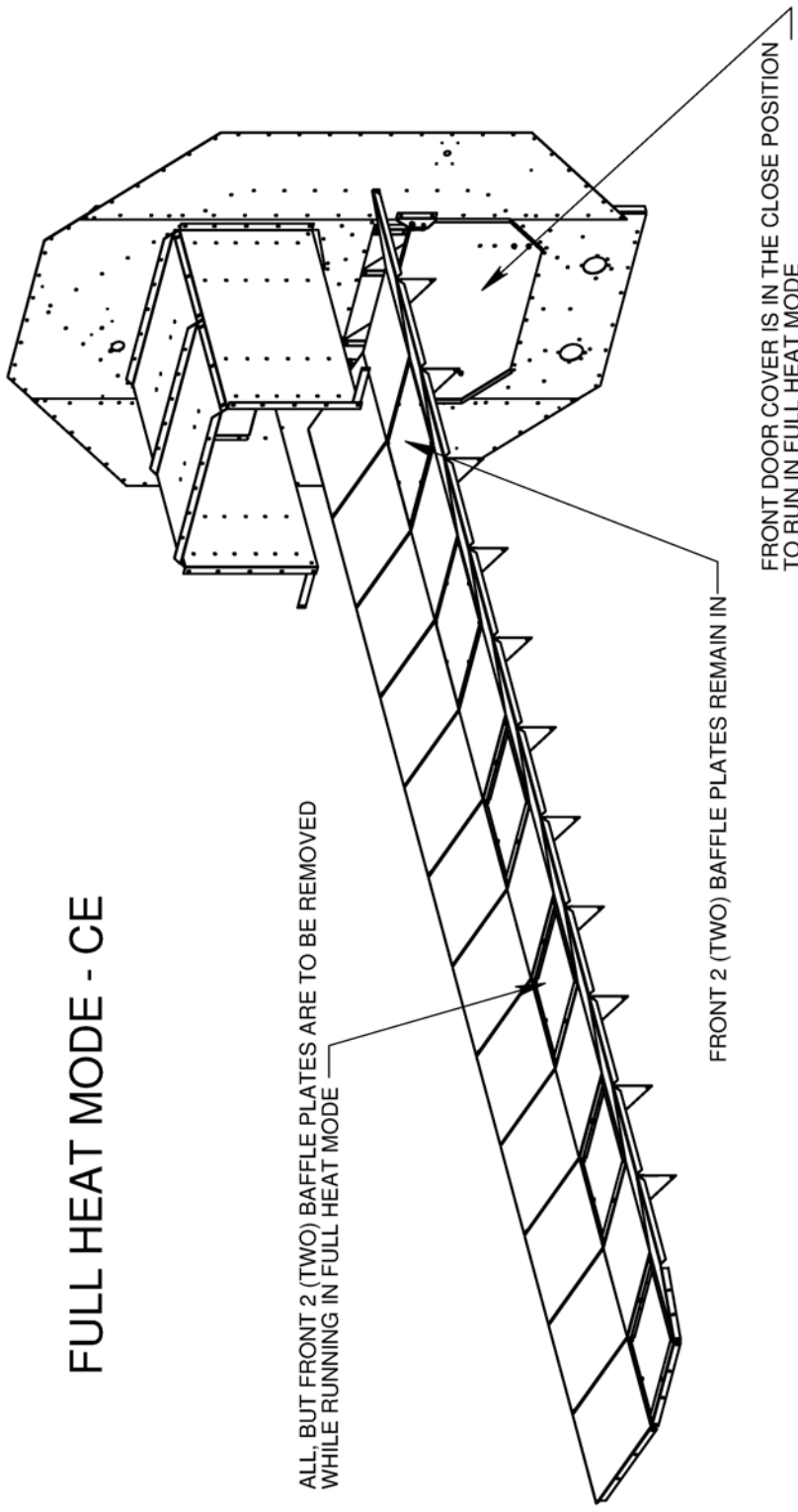
DATE 4/15/2008 MATERIAL -----

USED IN ASY OF: CONT FLOW DRYER WEIGHT

DESCRIPTION: PANEL, FRONT, FAN SUPT, SUCT COOL DRYER SHEET: 6 OF 6

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FULL HEAT MODE - CE



ALL, BUT FRONT 2 (TWO) BAFFLE PLATES ARE TO BE REMOVED WHILE RUNNING IN FULL HEAT MODE

FRONT 2 (TWO) BAFFLE PLATES REMAIN IN

FRONT DOOR COVER IS IN THE CLOSE POSITION TO RUN IN FULL HEAT MODE

DXF CREATED:

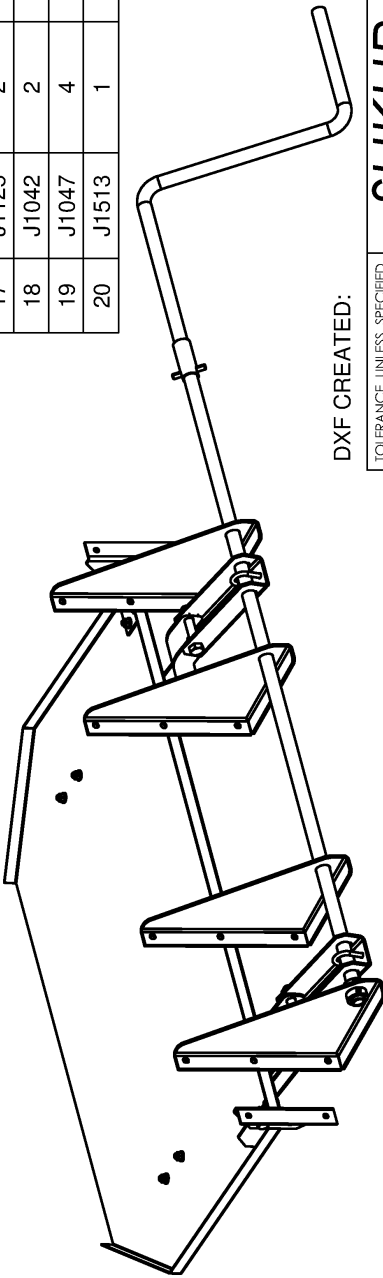
TOLERANCE UNLESS SPECIFIED	
.X = ± .050	
.XX = ± .010	
.XXX = ± .005	
FRAC = ± 1/32	
ANGLE = ± 1°	

DRAWN BY	JFJ
DATE	4/15/2008
USED IN ASSY OF	CONT FLOW DRYER

SUKUP MFG. CO. Sukup SUKUP PARKWAY SHEFFIELD, IA. 50475	
RAW MATL NO.	PART NO. T15713C
MATERIAL	WEIGHT
DESCRIPTION: PANEL, FRONT, FAN SUPT, SUCT COOL DRYER	
SHEET: 5 OF 6	

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ITEM NO.	PART NUMBER	EXPLODED VW/QTY.	DESCRIPTION
1	T43941	1	BAFFLE PANEL
2	T43942	1	HINGE BAFFLE PANEL, RIGHT
3	T43943	1	HINGE BAFFLE PANEL, LEFT
4	T43944	2	HINGE, FRONT END PLATE
5	T43945	2	LINKAGE BRACKET, PANEL
6	T43946	2	LINKAGE ARM SHORT
7	T43947	2	LINKAGE ARM LONG
8	T43948	4	PIVOT BRACKET
9	T43949	1	PIVOT ROD
10	T43952	1	PIVOT HANDLE WELDMENT
11	J0810	2	U-BOLT, 5/16-18, 1 1/16"ID 1.75D
12	J0795	4	SCREW 5/8-11 X 3 1/2
13	J1335	2	1" SHAFT COLLAR
14	J0605	8	SCREW, 3/8-16, 3/4, PLT
15	J1017	8	NUT, 3/8-16 FLANGE WHIZLOK
16	J0728	2	SCREW, 1/2-13, 1.25, PLT
17	J1125	2	WASHER, FLAT, 1/2
18	J1042	2	NUT, 1/2-13, PLT, GR8, LOCK
19	J1047	4	NUT, 5/8 - 11 TOP LOCK
20	J1513	1	ROLL PIN, 3/8 X 2 1/2"



DXF CREATED:

TOLERANCE UNLESS SPECIFIED
 .X = ± .050
 .XX = ± .010
 .XXX = ± .005
 FRAC = ± 1/32
 ∠ = ± 1°

SUKUP MFG. CO.
SUKUP PARKWAY
SHEFFIELD, IA. 50475

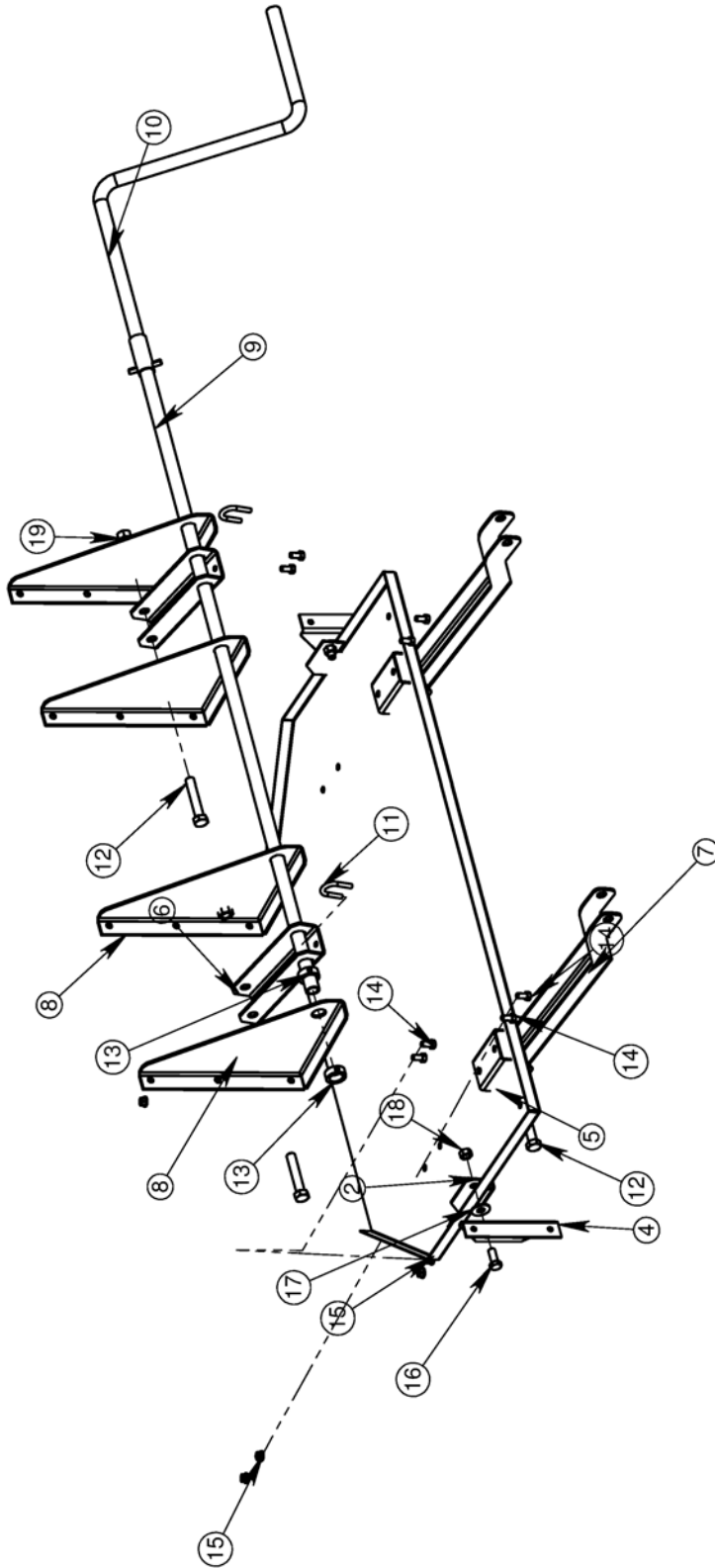
DRAWN BY **KGJ** PART NO. **T43940**

DATE **10/30/2009** MATERIAL

USED IN ASSY OF: **AIR BAFFLE, CENTRIFUGAL DRYER** WEIGHT **82.76**

DESCRIPTION **AIR BAFFLE ASSEMBLY** SHEET: 1 OF 2

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DXF CREATED:

TOLERANCE UNLESS SPECIFIED
 .X = $\pm .050$
 .XX = $\pm .010$
 .XXX = $\pm .005$
 FRAC = $\pm 1/32$
 $\angle = \pm 1^\circ$

SUKUP MFG. CO.
Sukup
 SUKUP PARKWAY
 SHEFFIELD, IA. 50475

DRAWN BY: KGJ

RAW MAT'L NO. PART NO. T43940

DATE: 10/30/2009

MATERIAL

USED IN ASSTY OF:

AIR BAFFLE, CENTRIFUGAL DRYER

WEIGHT

82.76

DESCRIPTION

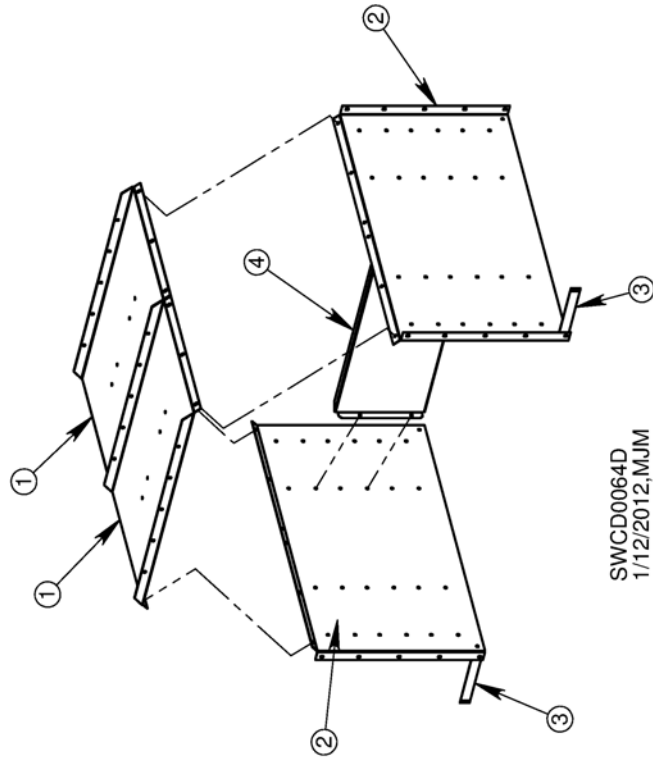
AIR BAFFLE ASSEMBLY

SHEET: 2 OF 2

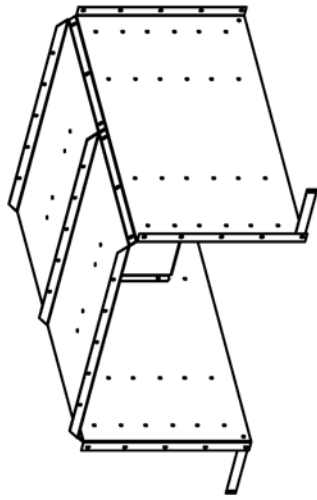
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REV.	DESCRIPTION OR ENG. ORDER #	DATE	BY
REVISIONS			

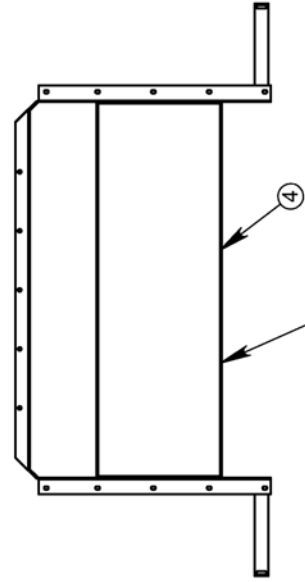
INNER PLENUM DUCTWORK, CE, DC

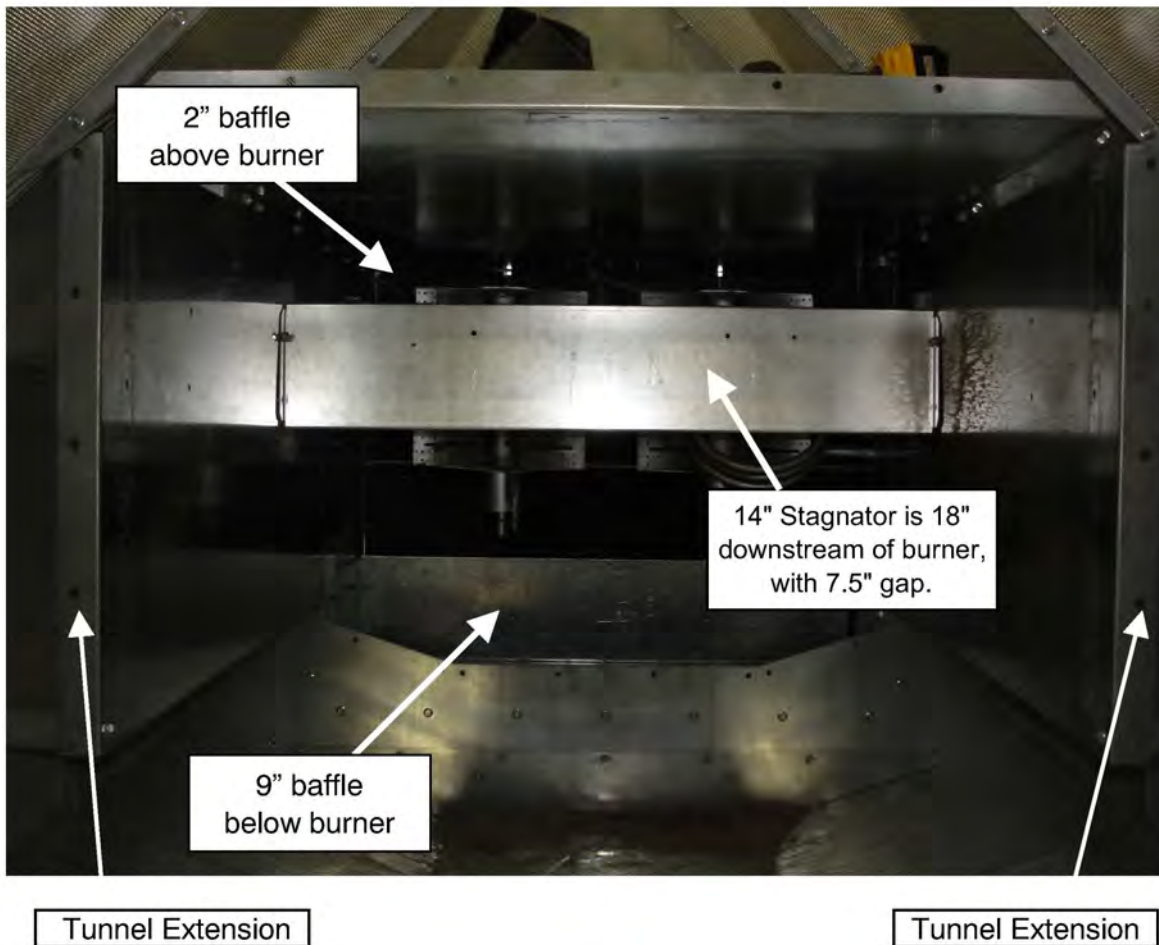


SWCD0064D
1/12/2012,MJM



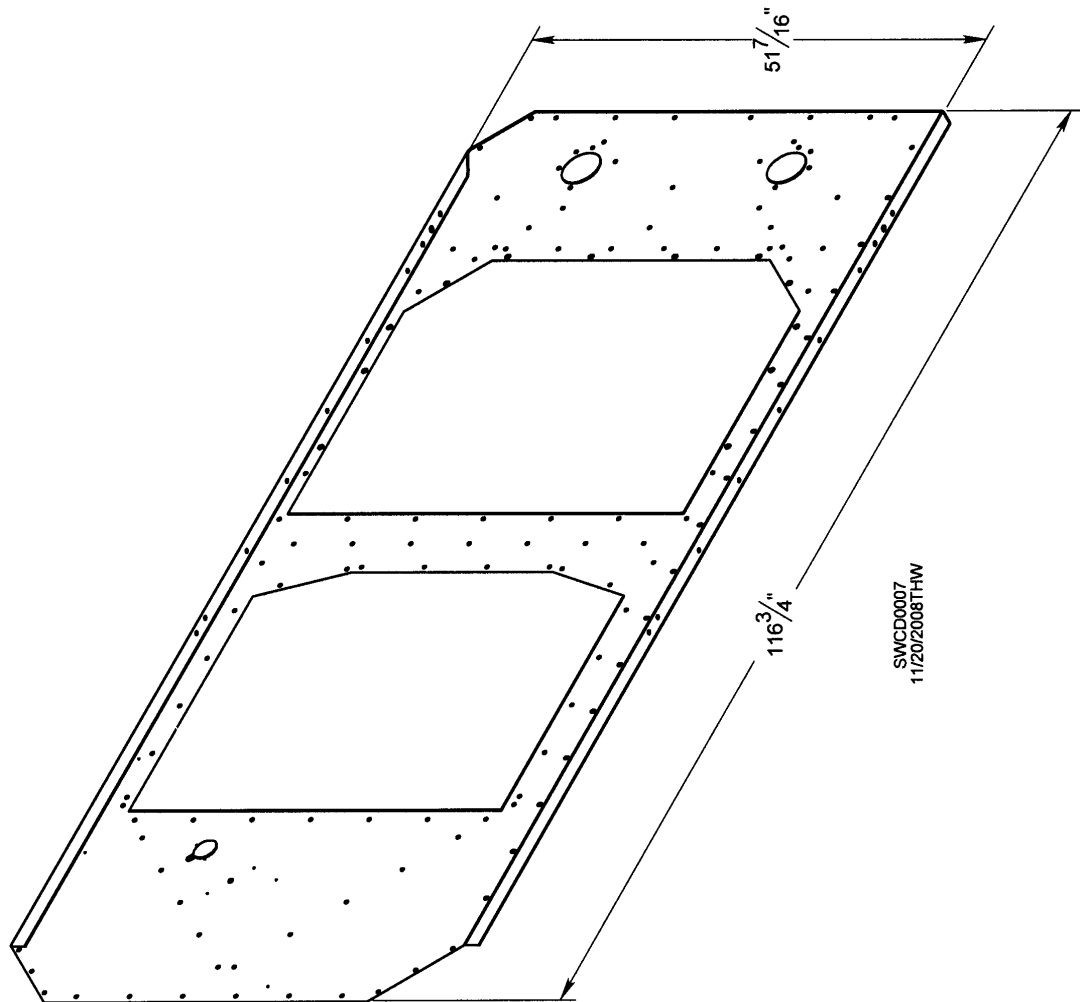
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	2	T80151	TOP PANEL, HEATER SHIELD
2	2	T80241	PANEL,SIDE, TUNNEL EXTEN
3	2	T80240	BRKT,EXTENSION TO PERF
4	1	T80258	STAGNATOR 14IN, CFD, CENT DC



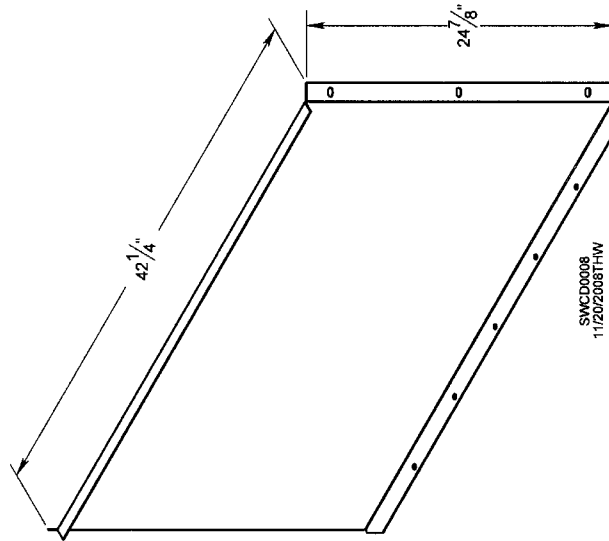


Pictured here are baffle and stagnator configurations for the Dancorn heater in Continuous Flow Dryers with centrifugal fans. The 9" baffle is placed in bottom of heater box directly below orifices of burner. The 2" baffle is located at top of heater box, above orifices of burner. The 14" stagnator is placed 18" downstream of burner in the tunnel extension, with a 7.5" gap between it and roof of the tunnel extension.

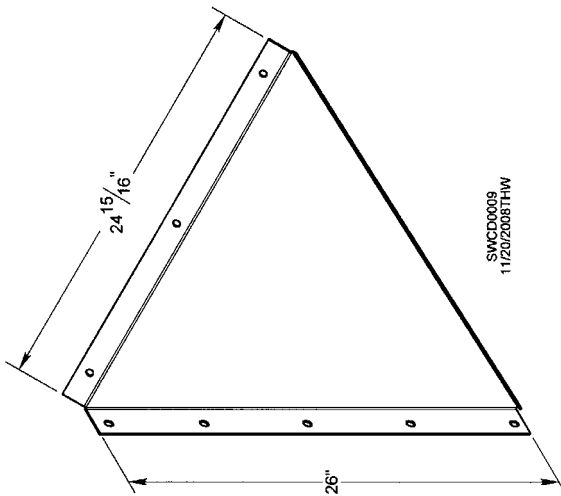
T80150 FRONT END PLATE



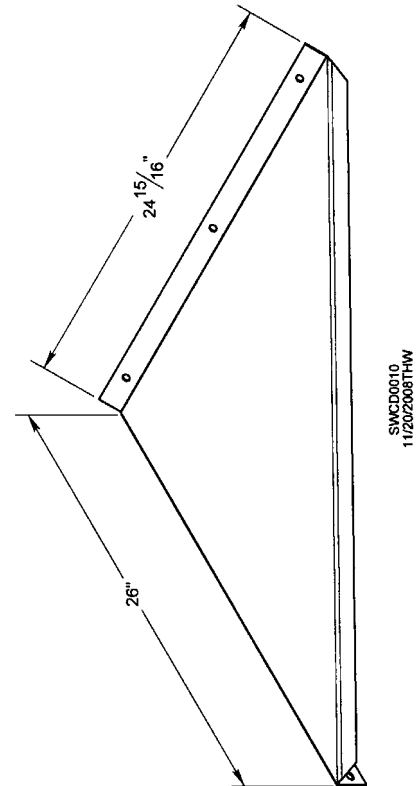
T80151 TOP PANEL, HEATER SHIELD



T80152 LEFT PANEL, HEATER SHIELD

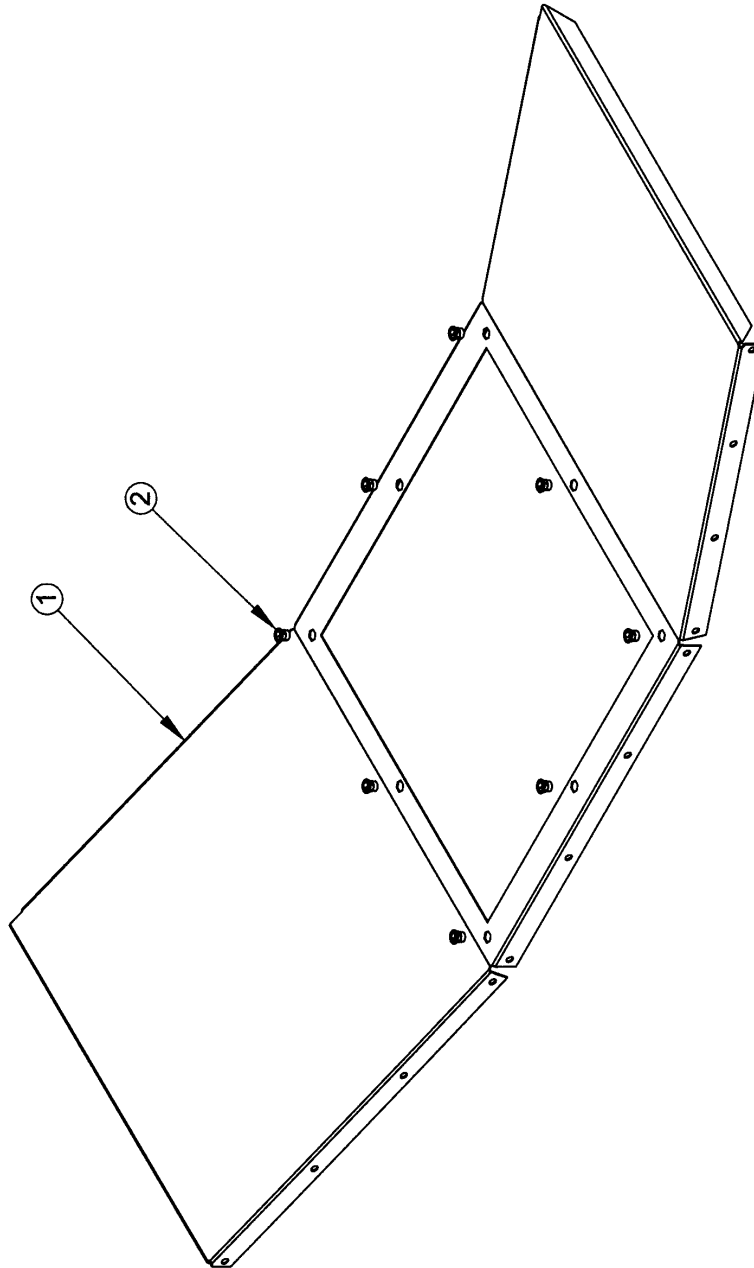


T80153 RIGHT PANEL, HEATER SHIELD

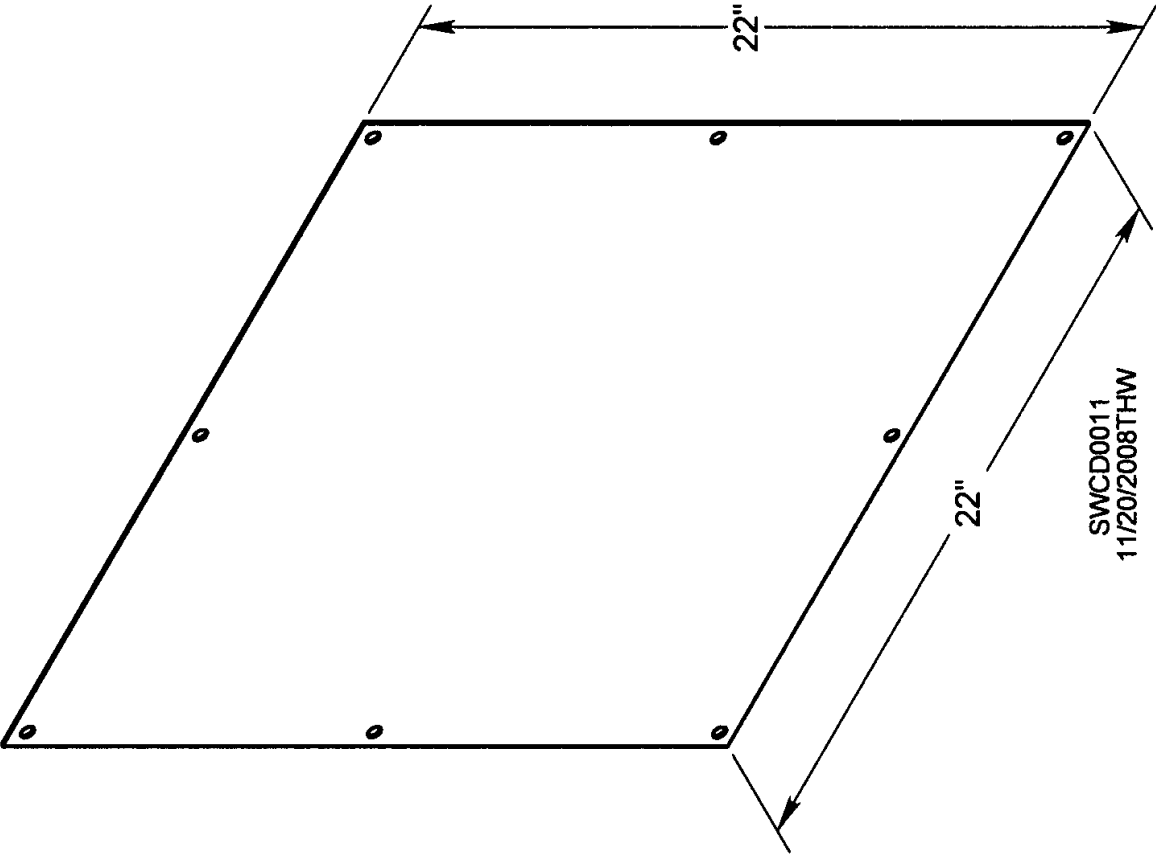


T80144AM DIVIDER WITH HOLE ASSEMBLY

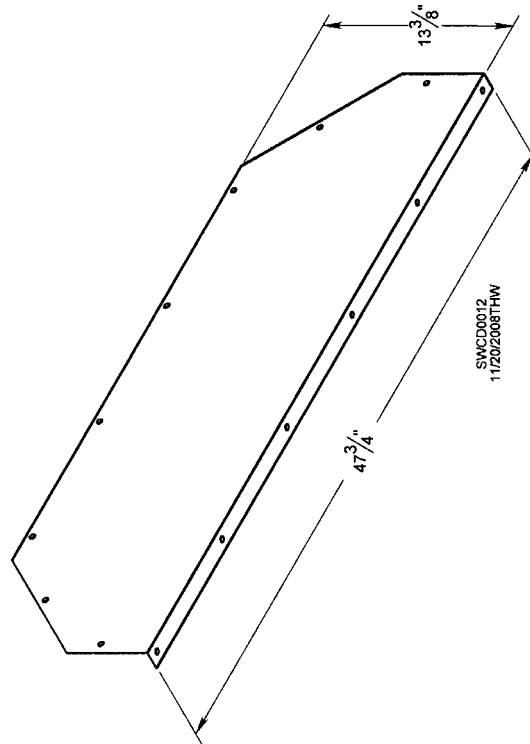
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	T80144	DIVIDER W/ CUTOUT, PLENUM
2	8	J1007	NUT, RIVET, 5/16"-18



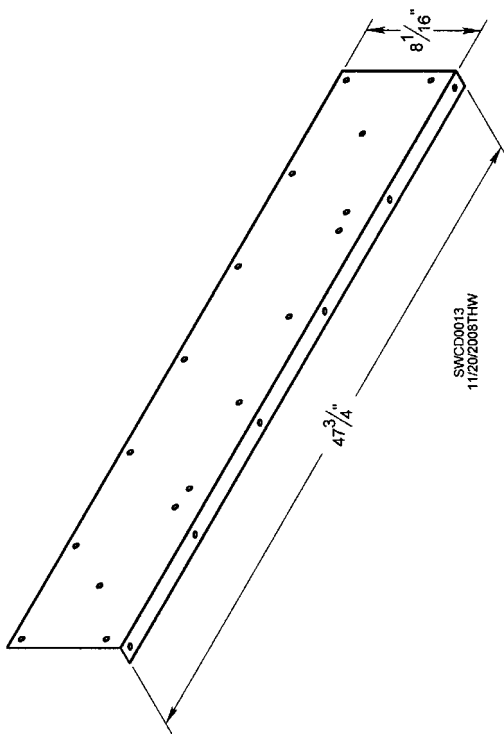
T80145 COVER, PLENUM DIVIDER W/CUTOUT



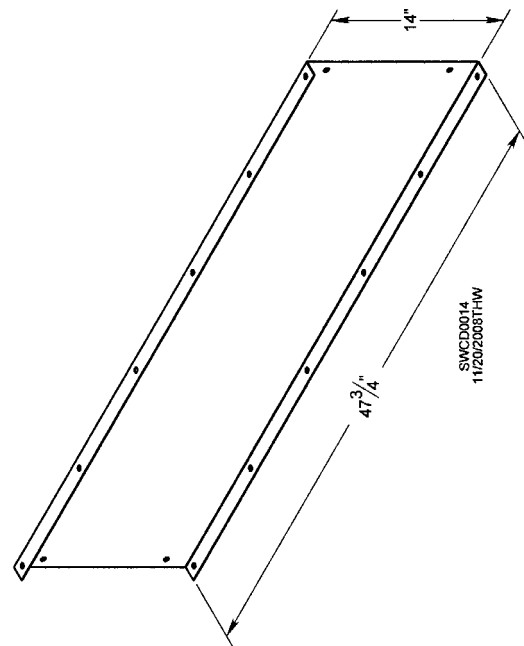
T80127 LOWER SEAL PLATE



T80128 UPPER SEAL PLATE

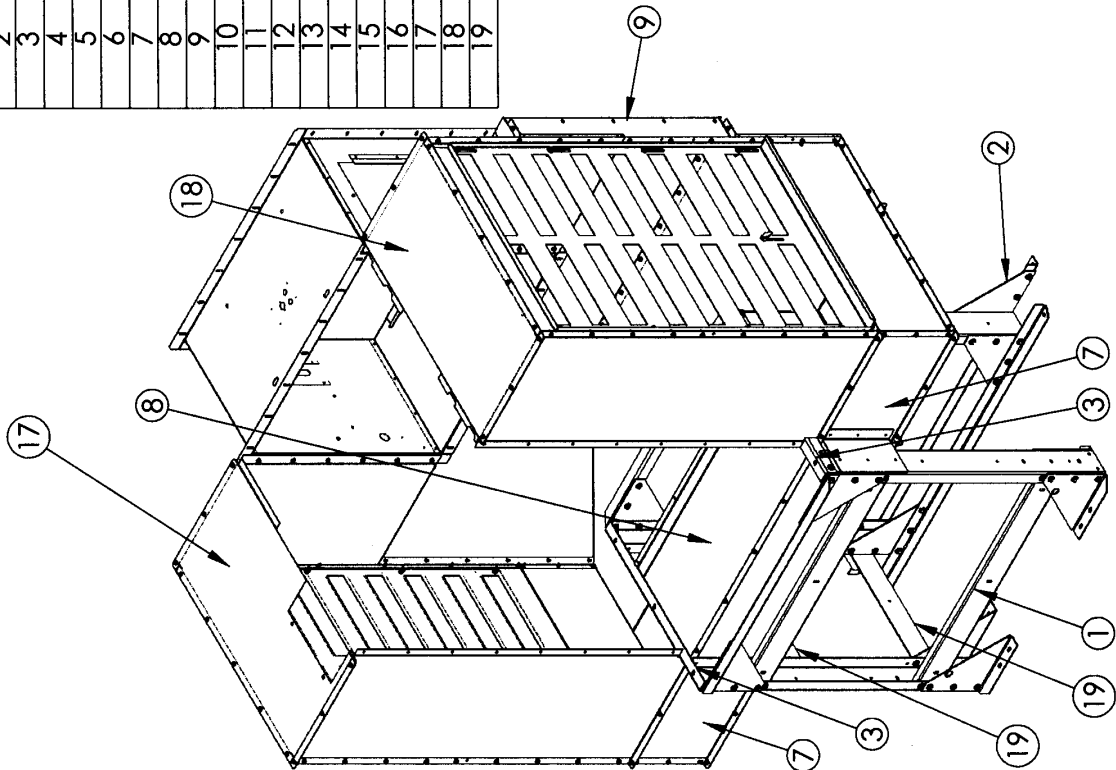


T80129 MIDDLE SEAL PLATE



T15743C DRYER FRONT FAN SUPPORT

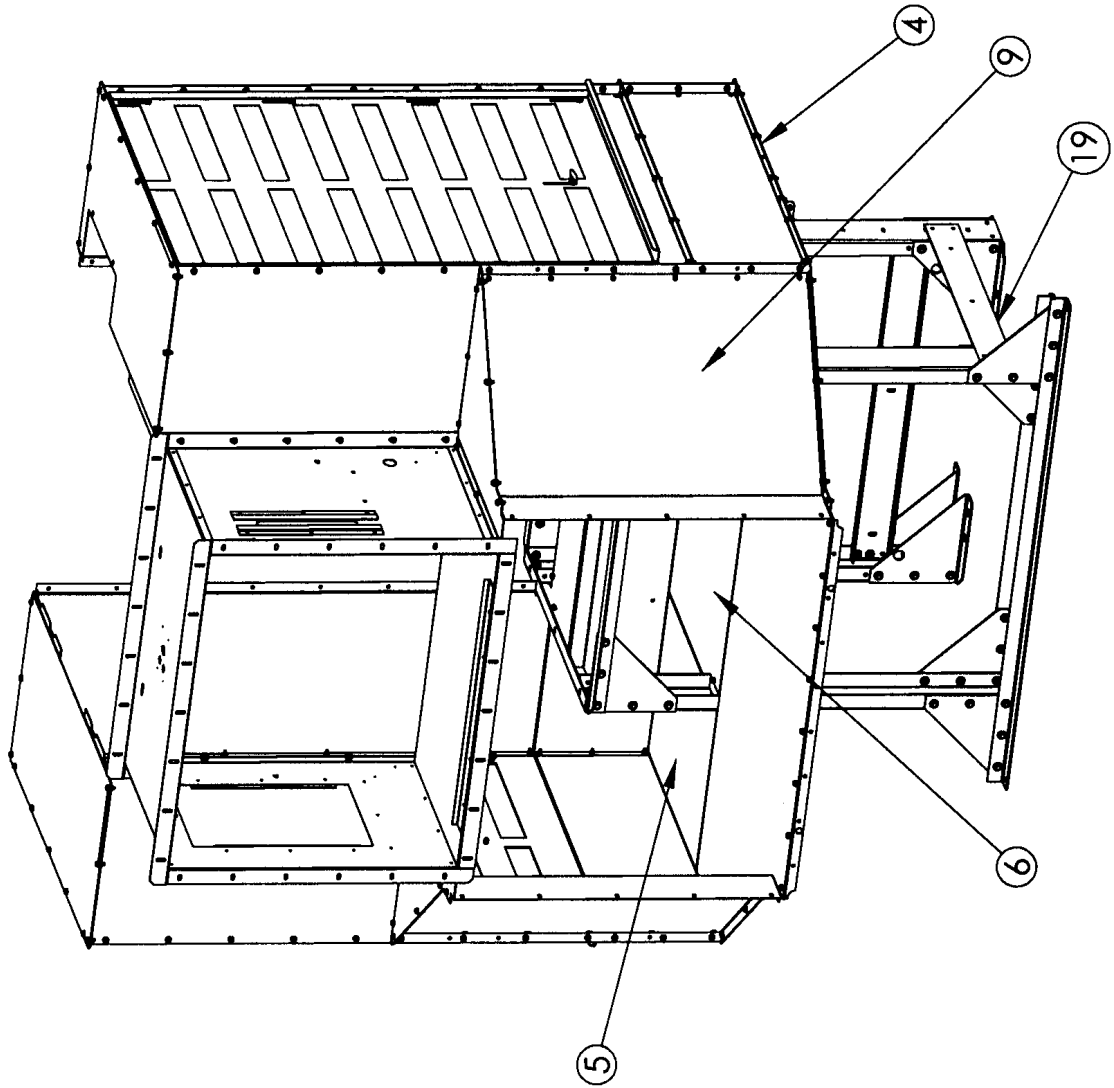
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	T80160	FRAME HEATER SUPPORT, BACK	1
2	T80161	FRAME HEATER SUPPORT, FRONT	1
3	T80139	HOZT SIDE, BLOWER MOUNT FRAME	2
4	T801052	LOWER PANEL ASSY, RH	1
5	T80105	LOWER PANEL ASSY, LH	1
6	T80123	BOTTOM CENTER PANEL, BLOWER DUCT	1
7	T80115	FRONT PANEL, BLOWER INTAKE DUCT	1
8	T80116	UPPER MID PANEL, BLOWER INTAKE DUCT	1
9	T80164	DUCTWORK, SUCT COOL DRYER CONNECTION	1
10	J0606	SCREW, 3/8 -16,1,PLT	8
11	J1025	NUT, HEX, 3/8-16, PLT LOCK	8
12	J1117	WASHER, FLAT, 3/8 PLT	16
13	J0536	SCREW, 5/16-18, 3/4", PLT, GR5, HHWZ	106
14	J1110	NUT, WHIZ, 5/16-13	106
15	T80166	MOUNTING PLATE, HEATER CONTROL BOX	2
16	T80200	BRACKET, DRYER DUCTWORK FRONT SUPPORT	2
17	T80163	INTAKE PLENUM, RH	1
18	T80162	INTAKE PLENUM, LH	1
19	T80219	MOUNTING PLATE, MANUAL CONTROL BOX	2



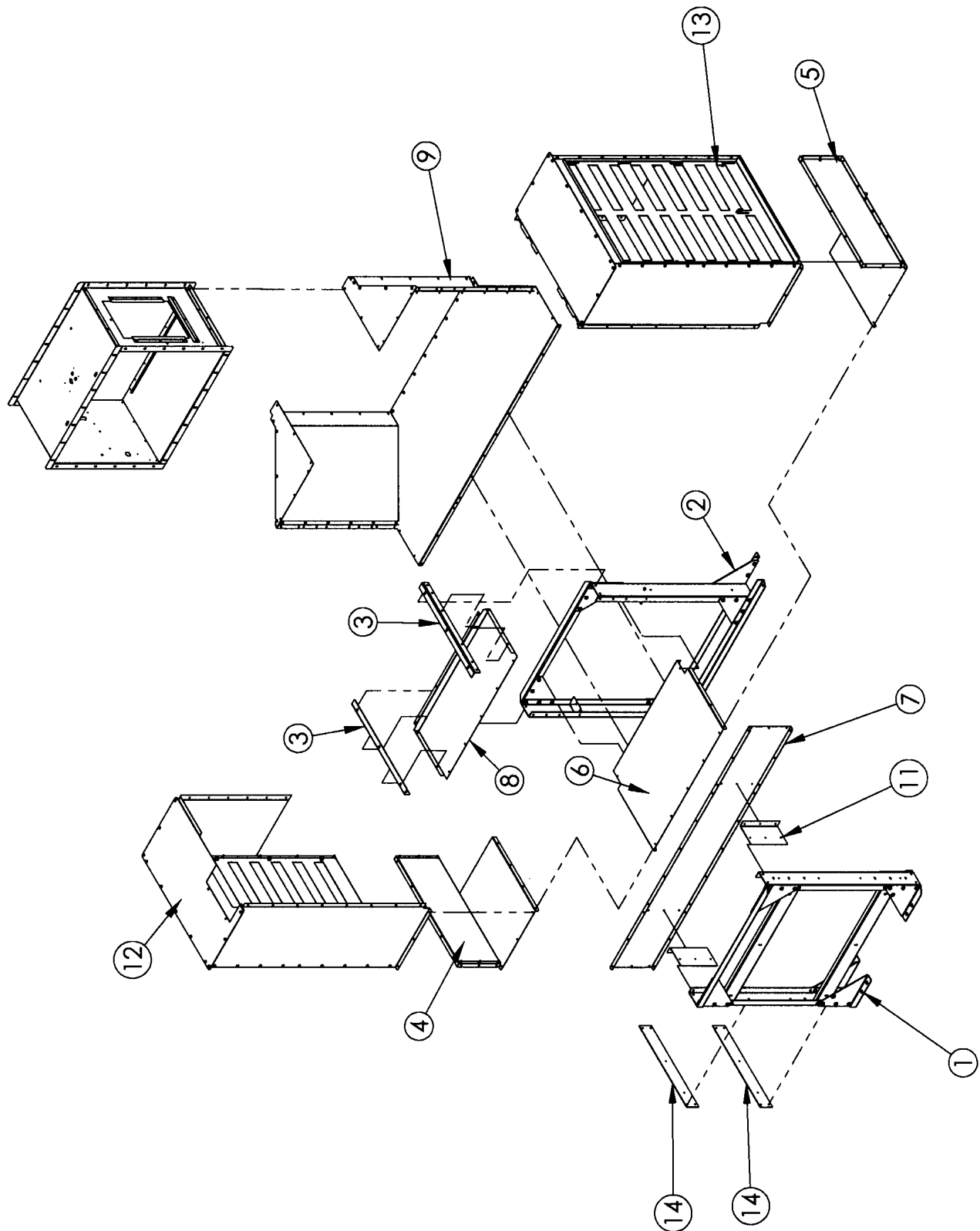
T15743C DRYER FRONT FAN SUPPORT

ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	T80160	FRAME HEATER SUPPORT, BACK	1	12	J1117	WASHER, FLAT, 3/8" PLT	16
	T80137	FRONT LEG, BLOWER MOUNT FRAME	2	13	J0536	SCREW, 5/16-18, 3/4", PLT, GR5, HHWZ	106
	T80155	LF BRACKET, FRONT LEGS, BLOWER MNT FRM	2	14	J1110	NUT, WHIZ, 5/16-13	106
	T80135	CHANNEL, POWER BOX MOUNT	2	15	T80166	MOUNTING PLATE, HEATER CONTROL BOX	2
	T80138	GUSSET PLATE, BLOWER MOUNT FRAME	2	16	T80200	BRACKET, DRYER DUCTWORK FRONT SUPPORT	2
	T80140	HOZT BASE 1, BLOWER MOUNT FRAME	1	17	T80163	INTAKE PLENUM, RH	1
	T80156	RT BRACKET, FRONT LEGS, BLOWER MNT FRM	2		T80101	AIR PANEL, STATIONARY ASSEM	1
	J0616	SCREW, 3/8-16, 1.25", PLT	26		T80102	AIR PANEL, STATIONARY	1
	J1117	WASHER, FLAT, 3/8" PLT	52		T80103	END FLANGE, AIR PANEL	2
	J1025	NUT, HEX, 3/8-16, PLT LOCK	26		J0892	1/4" X 5/8" HUCKBOLT	12
2	T80161	FRAME HEATER SUPPORT, FRONT	1		J0893	SLEEVE, HUCKBOLT, 1/4"	12
	T80136	REAR LEG, BLOWER MOUNT FRAME	2		T80110	RT SIDE PANEL, BLOWER INTAKE DUCT	1
	T80138	GUSSET PLATE, BLOWER MOUNT FRAME	6		T80117	RT TOP PANEL, BLOWER INTAKE DUCT	1
	T80126	CLIP, CENTER BOTTM PANEL, BLOWER DUCT	2		T80109	RT FRONT SIDE PANEL, BLOWER INTAKE DUCT	1
	T80141	HOZT BASE 2, BLOWER MOUNT FRAME	1		J1007	NUT, RIVET, 5/16"-18	9
	T80142	HOZT BASE 3, BLOWER MOUNT FRAME	1		J4167	KNOB, PLASTIC, 5/16-18 X 3/4"	1
	J0616	SCREW, 3/8-16, 1.25", PLT	20		J0536	SCREW, 5/16-18, 3/4", PLT, GR5, HHWZ	25
	J1025	NUT, HEX, 3/8-16, PLT LOCK	30		J1110	NUT, WHIZ, 5/16-13	25
	J1117	WASHER, FLAT, 3/8" PLT	60		T80204	AIR PANEL ASSEMBLY, ADJUSTABLE	1
	J0606	SCREW, 3/8-16, 1.1" PLT	10		T80104	AIR PANEL, ADJUSTABLE	1
	J0536	SCREW, 5/16-18, 3/4", PLT, GR5, HHWZ	2		J70955	VINYL EDGE GUARD 13/32X35/64	1
	J1110	NUT, WHIZ, 5/16-13	2		J1111	WASHER, FLAT, 5/16	16
	T80140	HOZT BASE 1, BLOWER MOUNT FRAME	2		J0550	SCREW, 5/16-18, 1.25", PLT, GR5	8
3	T80139	HOZT SIDE, BLOWER MOUNT FRAME	2		J1010	NUT, LOCK, 5/16-18, PLT	8
4	T801052	LOWER PANEL ASSY, RH	1	18	T80162	INTAKE PLENUM, LH	1
	T80107	END FLANGE	2		T80101	AIR PANEL, STATIONARY ASSEM	1
	T80106	LOWER PANNEL	1		T80102	AIR PANEL, STATIONARY	1
	J0892	1/4" X 5/8" HUCKBOLT	6		T80103	END FLANGE, AIR PANEL	2
	J0893	SLEEVE, HUCKBOLT, 1/4"	6		J0892	1/4" X 5/8" HUCKBOLT	12
	T80124	BOTTOM LEFT PANEL, BLOWER DUCT	1		J0893	SLEEVE, HUCKBOLT, 1/4"	12
	J0536	SCREW, 5/16-18, 3/4", PLT, GR5, HHWZ	4		T80204	AIR PANEL ASSEMBLY, ADJUSTABLE	1
	J1110	NUT, WHIZ, 5/16-13	4		T80104	AIR PANEL, ADJUSTABLE	1
5	T80105	LOWER PANEL ASSY, LH	1		J70955	VINYL EDGE GUARD 13/32X35/64	1
	T80107	END FLANGE	2		T80119	LT SIDE PANEL, BLOWER INTAKE DUCT	1
	T80106	LOWER PANNEL	1		T80118	LF FRONT PANEL, BLOWER INTAKE DUCT	1
	J0892	1/4" X 5/8" HUCKBOLT	6		T80120	LT TOP PANEL, BLOWER INTAKE DUCT	1
	J0893	SLEEVE, HUCKBOLT, 1/4"	6		J0536	SCREW, 5/16-18, 3/4", PLT, GR5, HHWZ	25
	T80125	BOTTOM RIGHT PANEL, BLOWER DUCT	1		J1110	NUT, WHIZ, 5/16-13	25
	J0536	SCREW, 5/16-18, 3/4", PLT, GR5, HHWZ	4		J1007	NUT, RIVET, 5/16"-18	9
	J1110	NUT, WHIZ, 5/16-13	4		J0550	SCREW, 5/16-18, 1.25", PLT, GR5	8
6	T80123	BOTTOM CENTER PANEL, BLOWER DUCT	1		J4167	KNOB, PLASTIC, 5/16-18 X 3/4"	1
7	T80115	FRONT PANEL, BLOWER INTAKE DUCT	1		J1111	WASHER, FLAT, 5/16	16
8	T80116	UPPER MID PANEL, BLOWER INTAKE DUCT	1		J1010	NUT, LOCK, 5/16-18, PLT	8
9	T80164	DUCTWORK, SUCT COOL DRYER CONNECTION	1	19	T80219	MOUNTING PLATE, MANUAL CONTROL BOX	2
	T80111	TRANSITION TOP PANEL	2				
	T80121	BOTTOM ANGLE, BLOWER TRANS-END PLT	1				
	T80122	BOTTOM PANEL, BLOWER TRANSITION	1				
	T80112	TRANSITION SIDE PANEL	2				
	T80113	PANEL, TRANSITION SIDE PANEL	1				
	T80114	END FLANGE, TRANSITION SIDE PANEL	1				
	J0892	1/4" X 5/8" HUCKBOLT	6				
	J0893	SLEEVE, HUCKBOLT, 1/4"	6				
	J0536	SCREW, 5/16-18, 3/4", PLT, GR5, HHWZ	24				
	J1110	NUT, WHIZ, 5/16-13	24				
10	J0606	SCREW, 3/8-16, 1.1" PLT	8				
11	J1025	NUT, HEX, 3/8-16, PLT LOCK	8				

T15743C DRYER FRONT FAN SUPPORT

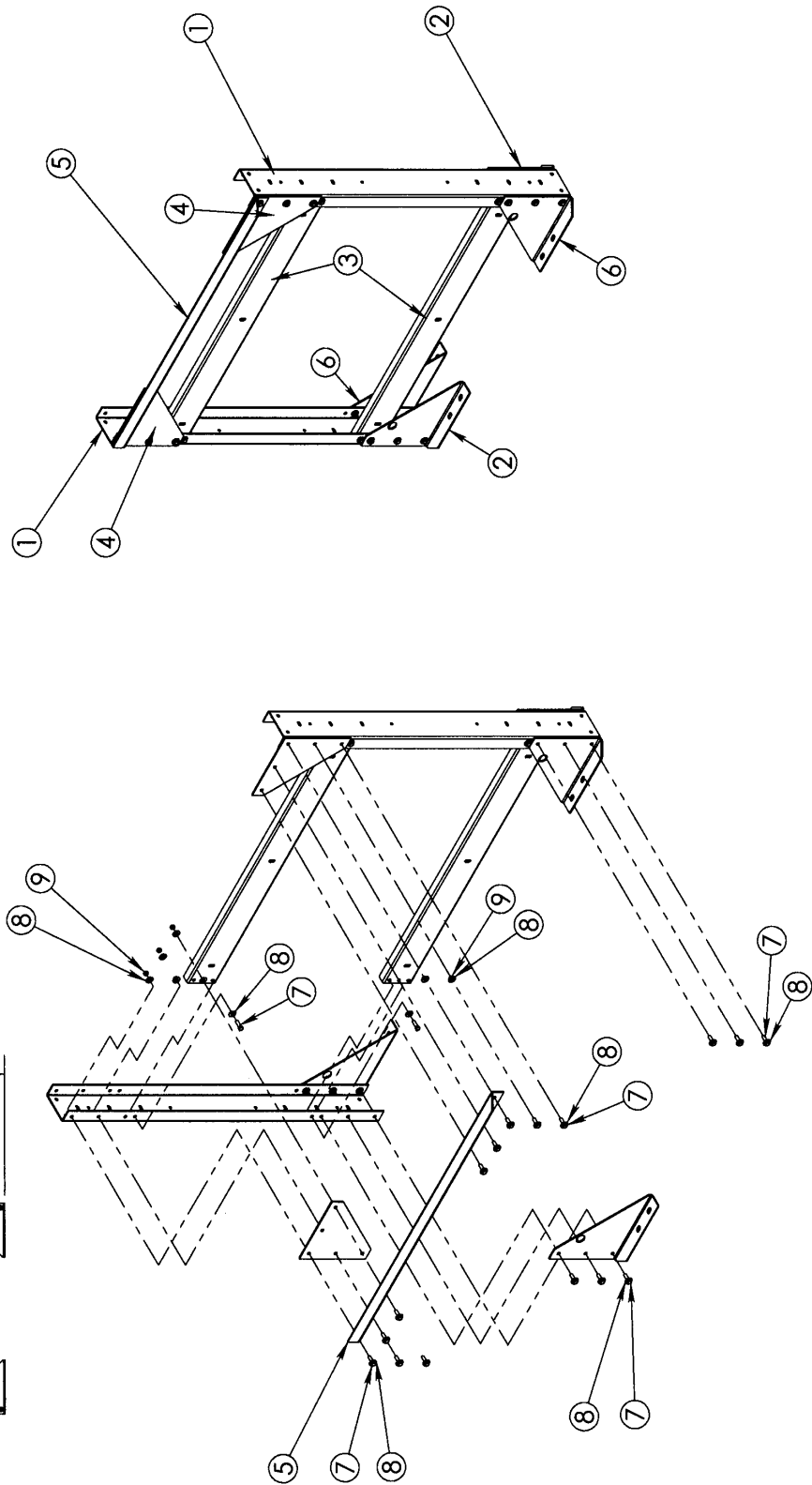
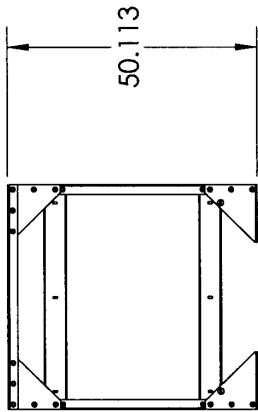


T15743C DRYER FRONT FAN SUPPORT



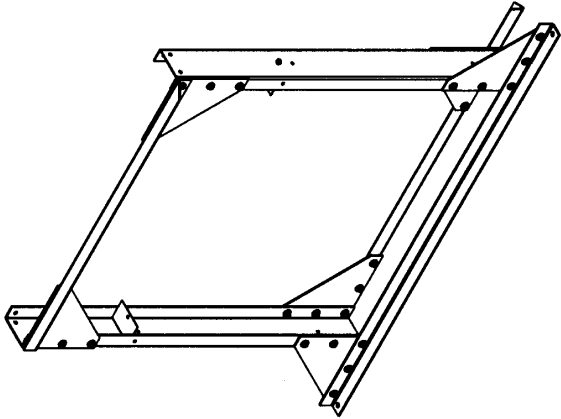
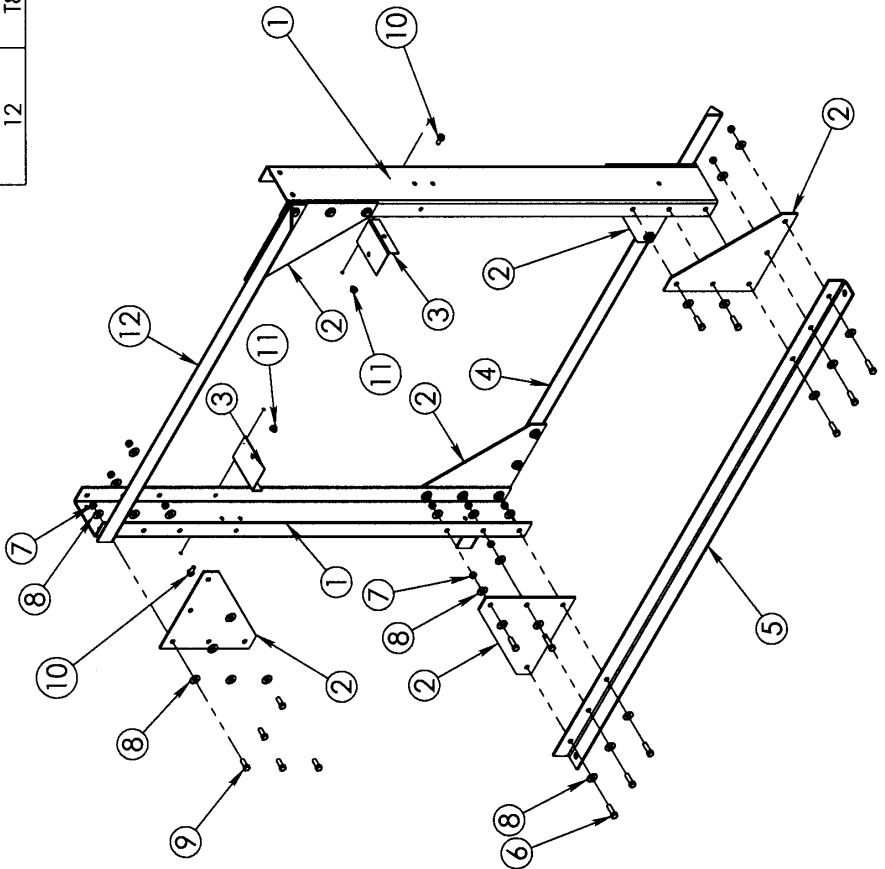
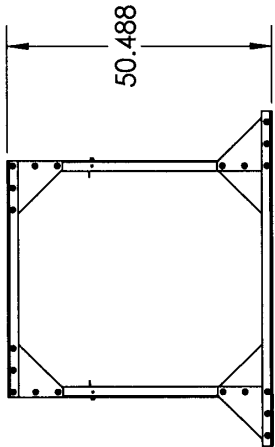
T80160 FRAME FAN SUPPORT, BACK

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	T80137	FRONT LEG, BLOWER MOUNT FRAME	2
2	T80155	LF BRACKET, FRONT LEGS, BLOWER MNT FRM	2
3	T80135	CHANNEL, POWER BOX MOUNT	2
4	T80138	GUSSET PLATE, BLOWER MOUNT FRAME	2
5	T80140	HOZT BASE 1, BLOWER MOUNT FRAME	1
6	T80156	RT BRACKET, FRONT LEGS, BLOWER MNT FRM	2
7	J0616	SCREW, 3/8-16, 1.25", PLT	26
8	J1117	WASHER, FLAT, 3/8, PLT	52
9	J1025	NUT, HEX, 3/8-16, PLT LOCK	26

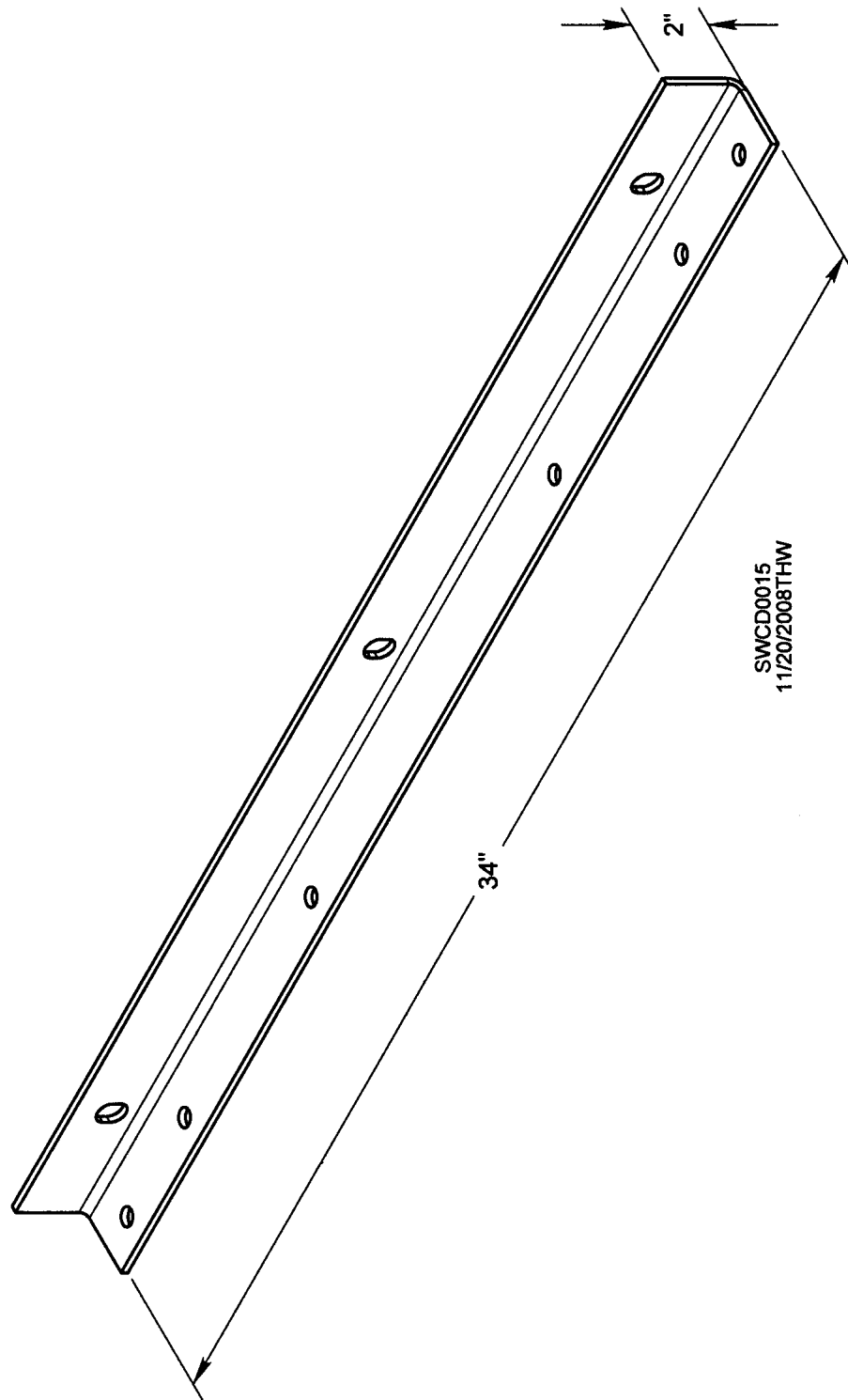


T80161 FRAME FAN SUPPORT, FRONT

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	T80136	REAR LEG, BLOWER MOUNT FRAME	2
2	T80138	GUSSET PLATE, BLOWER MOUNT FRAME	6
3	T80126	CLIP, CENTER BOTTM PANEL, BLOWER DUCT	2
4	T80141	HOZT BASE 2, BLOWER MOUNT FRAME	1
5	T80142	HOZT BASE 3, BLOWER MOUNT FRAME	1
6	J0616	SCREW, 3/8-16, 1.25", PLT	20
7	J1025	NUT, HEX, 3/8-16, PLT LOCK	30
8	J1117	WASHER, FLAT, 3/8, PLT	60
9	J0606	SCREW, 3/8-16, 1, PLT	10
10	J0536	SCREW, 5/16-18, 3/4", PLT, GR5, HHWZ	2
11	J1110	NUT, WHIZ, 5/16-13	2
12	T80140	HOZT BASE 1, BLOWER MOUNT FRAME	1

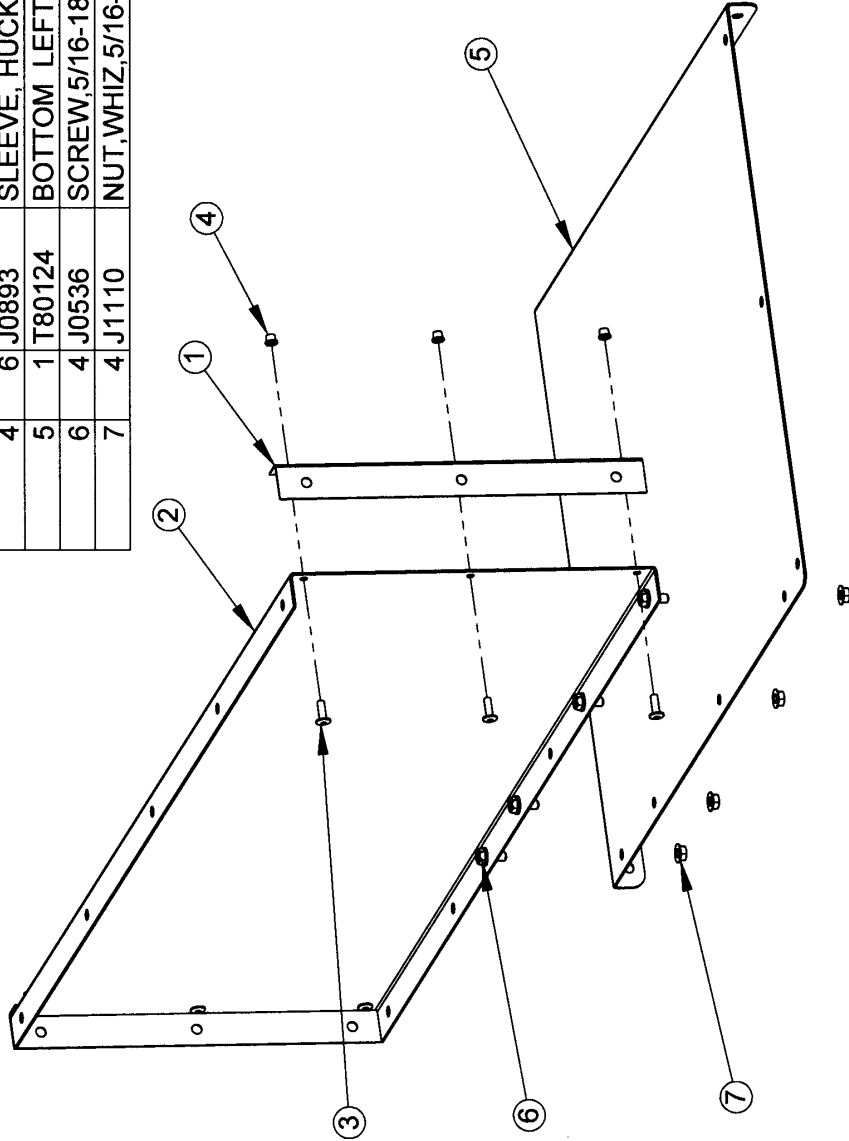


T80139 HORIZONTAL SIDE BLOWER MOUNT FRAME



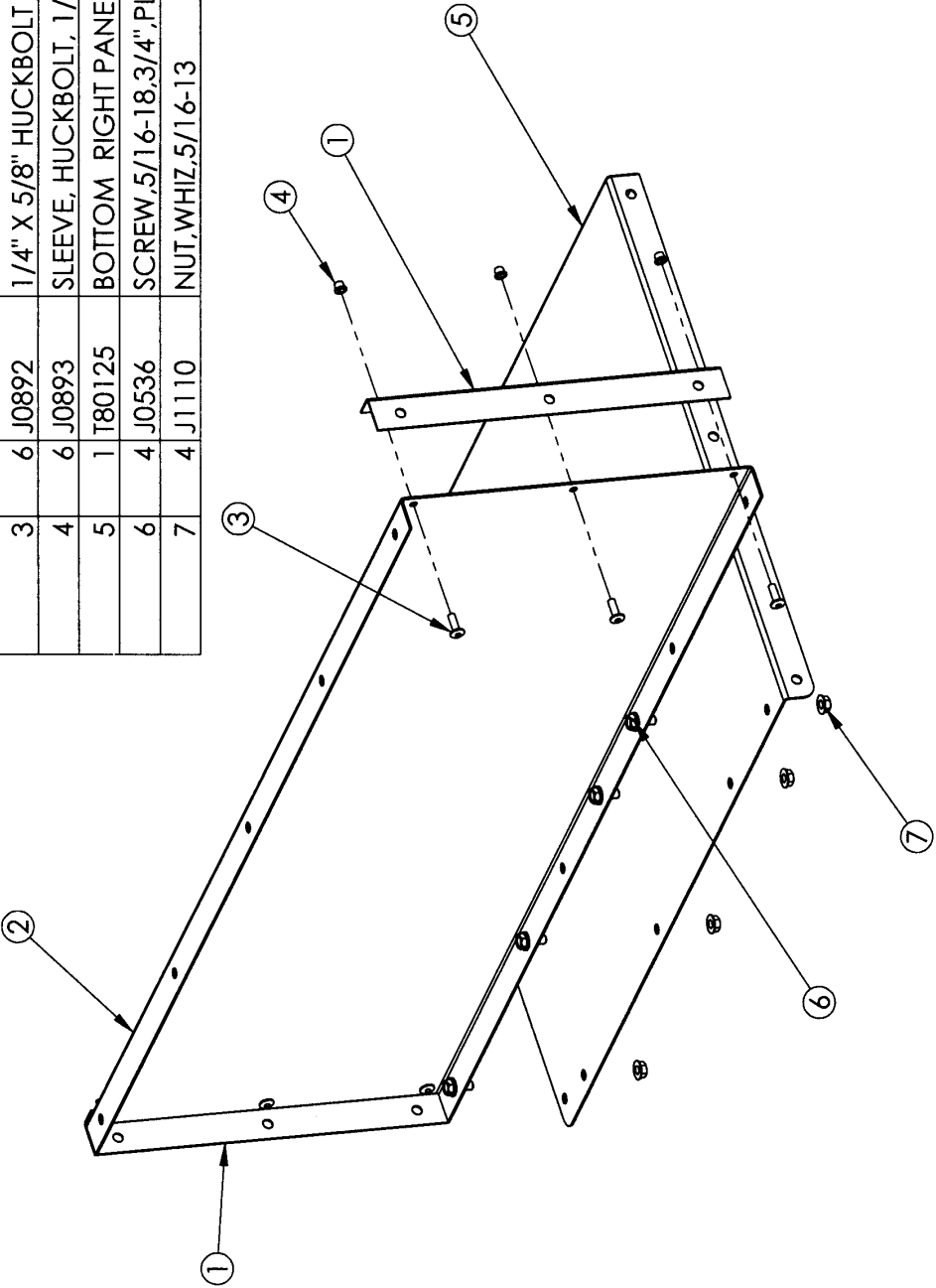
T801052 LOWER PANEL ASSEMBLY, RIGHT

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	2	T80107	END FLANGE
2	1	T80106	LOWER PANNEL
3	6	J0892	1/4" X 5/8" HUCKBOLT
4	6	J0893	SLEEVE, HUCKBOLT, 1/4"
5	1	T80124	BOTTOM LEFT PANEL, BLOWER DUCT
6	4	J0536	SCREW, 5/16-18, 3/4", PLT, GR5, HHWZ
7	4	J1110	NUT, WHIZ, 5/16-13

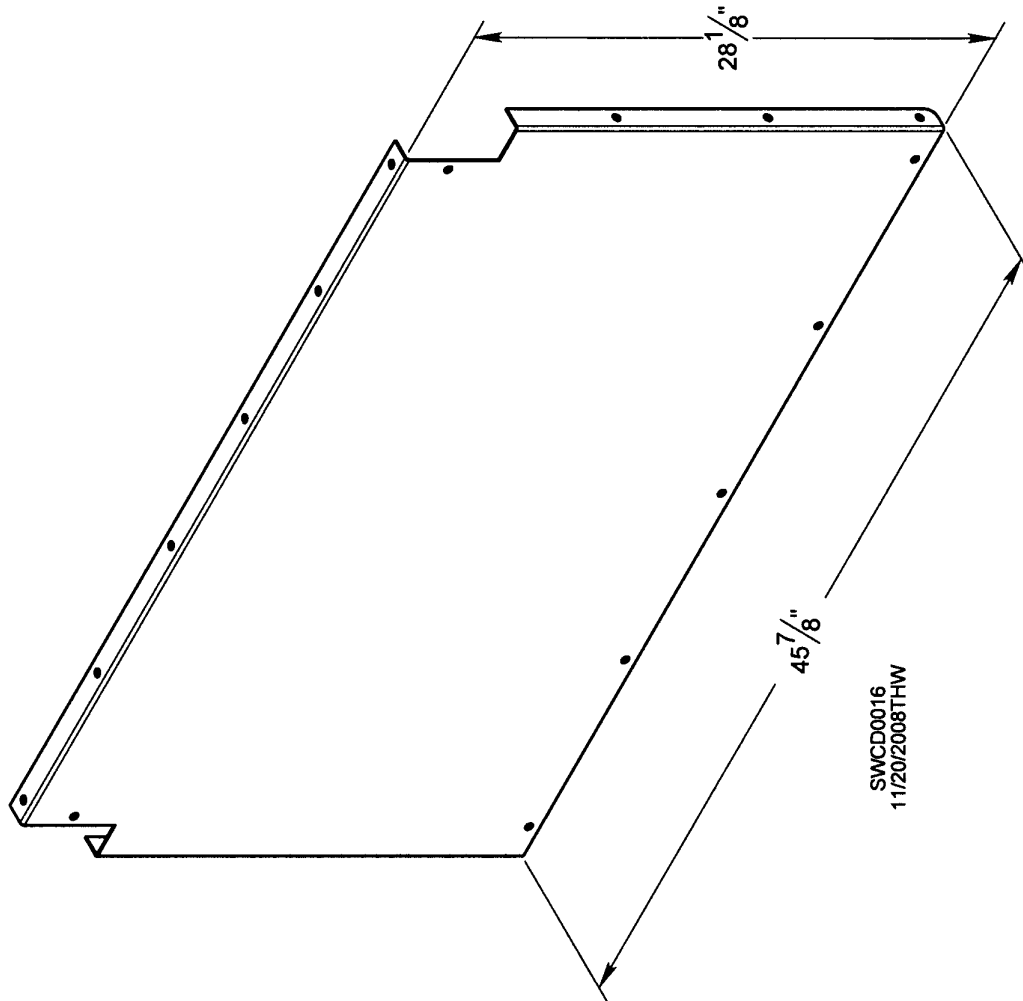


T80105 LOWER PANEL ASSEMBLY, LEFT

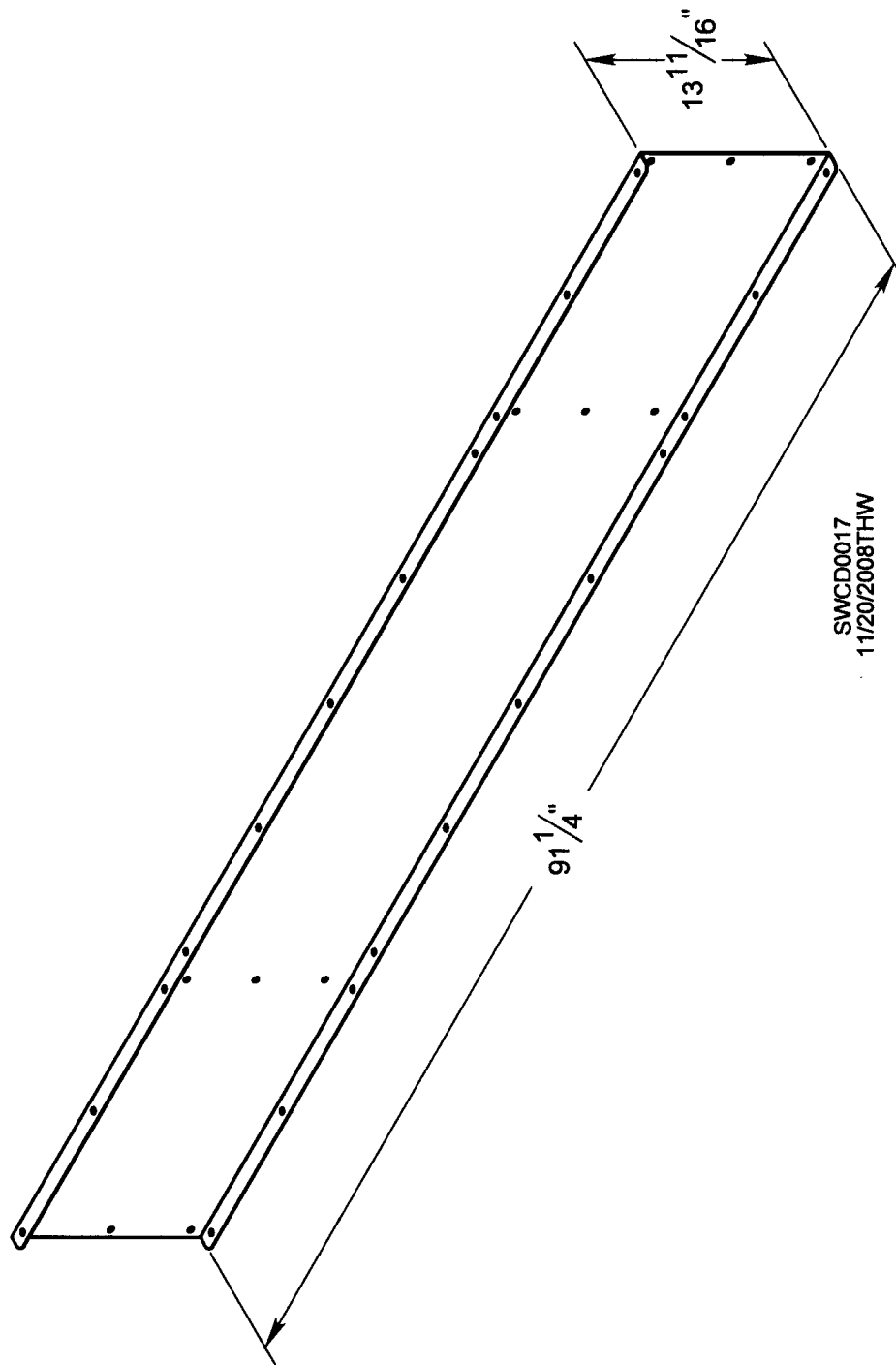
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	2	T80107	END FLANGE
2	1	T80106	LOWER PANNEL
3	6	J0892	1/4" X 5/8" HUCKBOLT
4	6	J0893	SLEEVE, HUCKBOLT, 1/4"
5	1	T80125	BOTTOM RIGHT PANEL, BLOWER DUCT
6	4	J0536	SCREW, 5/16-18, 3/4", PLT, GR5, HHWZ
7	4	J1110	NUT, WHIZ, 5/16-13



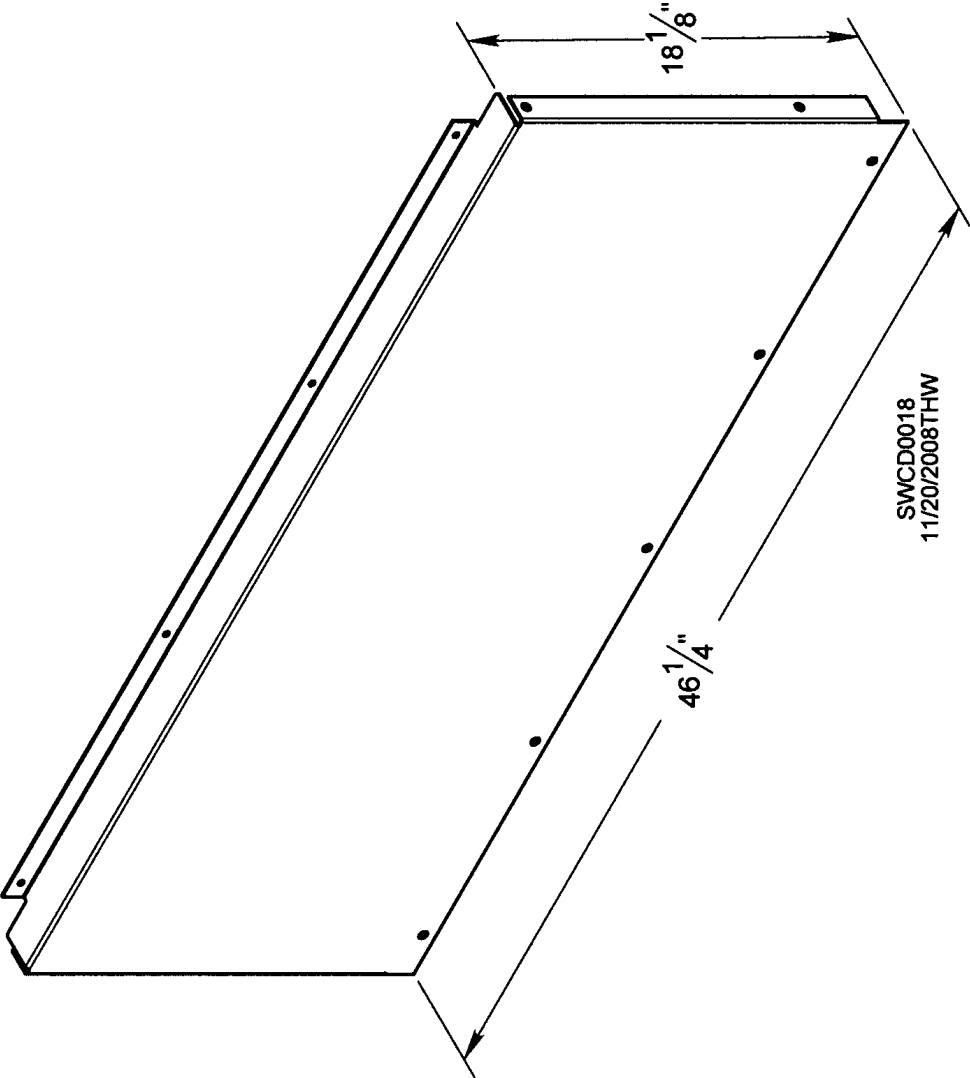
T80123 BOTTOM CENTER PANEL, BLOWER DUCT



T80115 FRONT PANEL, BLOWER INTAKE DUCT

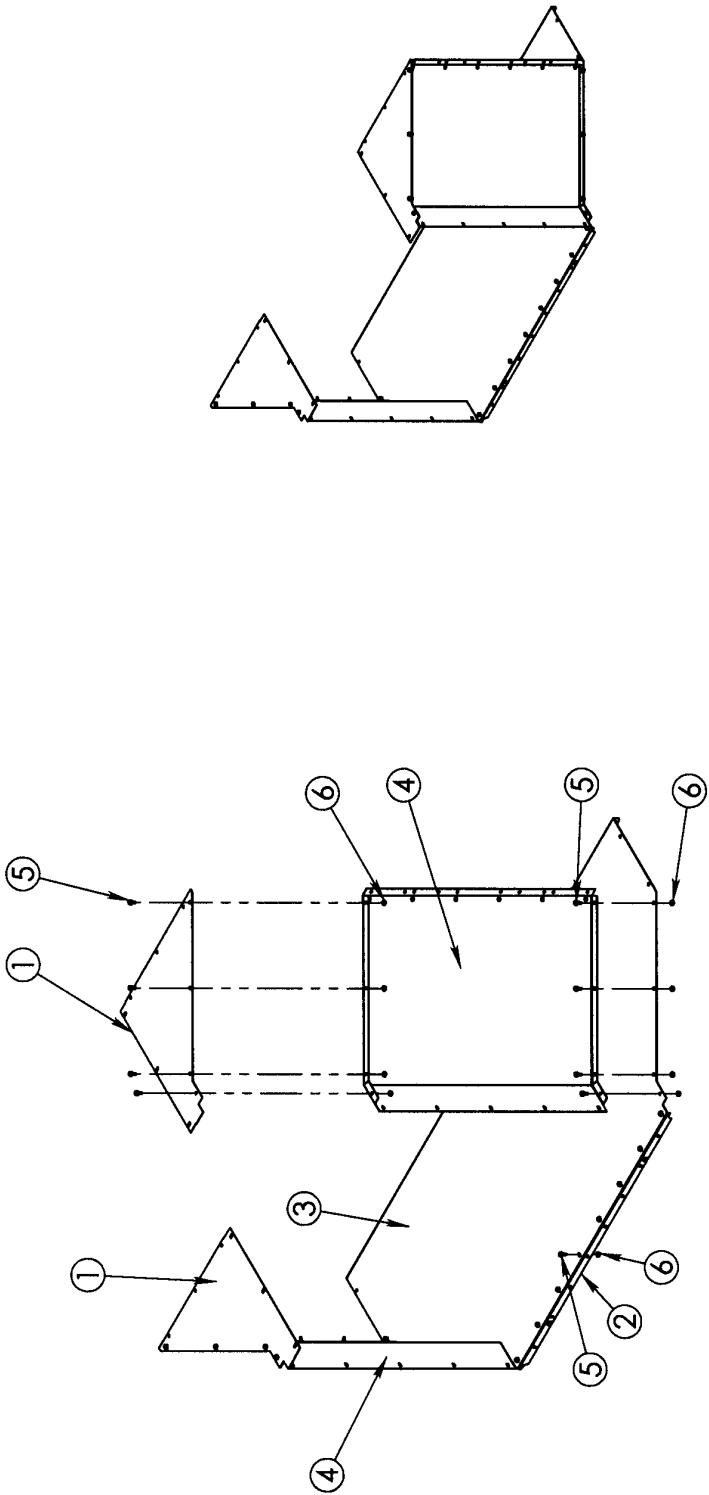


T80116 UPPER MID PANEL, BLOWER INTAKE DUCT

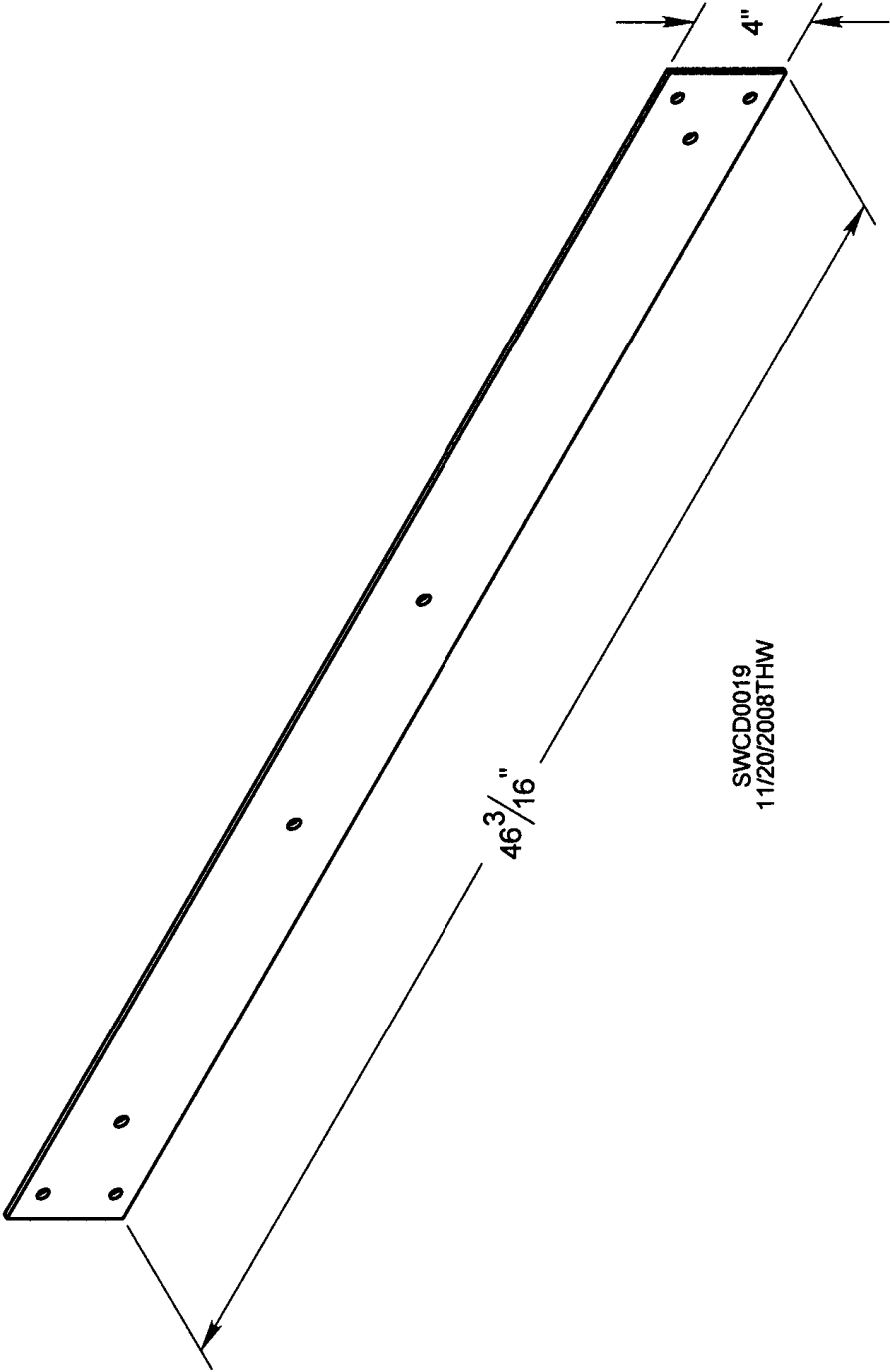


T80164 DRYER FRONT FAN SUPPORT, DUCTWORK, DRYER CONNECTION

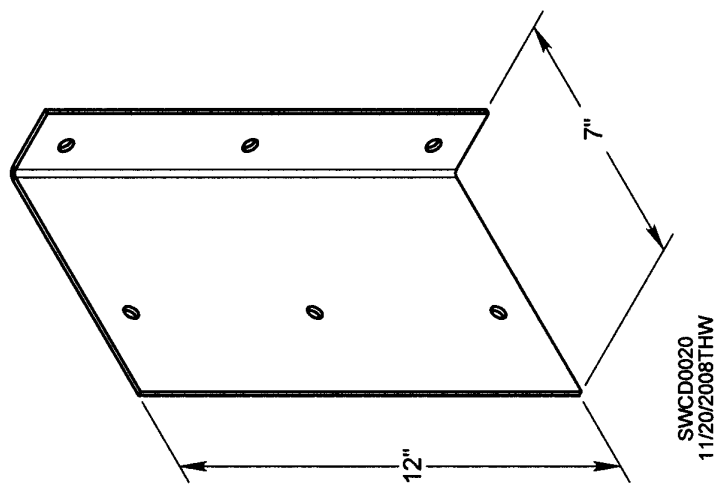
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	2	T80111	TRANSITION TOP PANEL
2	1	T80121	BOTTOM ANGLE, BLOWER TRANS-END PLT
3	1	T80122	BOTTOM PANEL, BLOWER TRANSITION
4	2	T80112	TRANSITION SIDE PANEL
5	24	J0536	SCREW,5/16-18,3/4",PLT,GR5,HHWZ
6	24	J1110	NUT,WHIZ,5/16-13



T80166 MOUNTING PLATE, HEATER CONTROL BOX

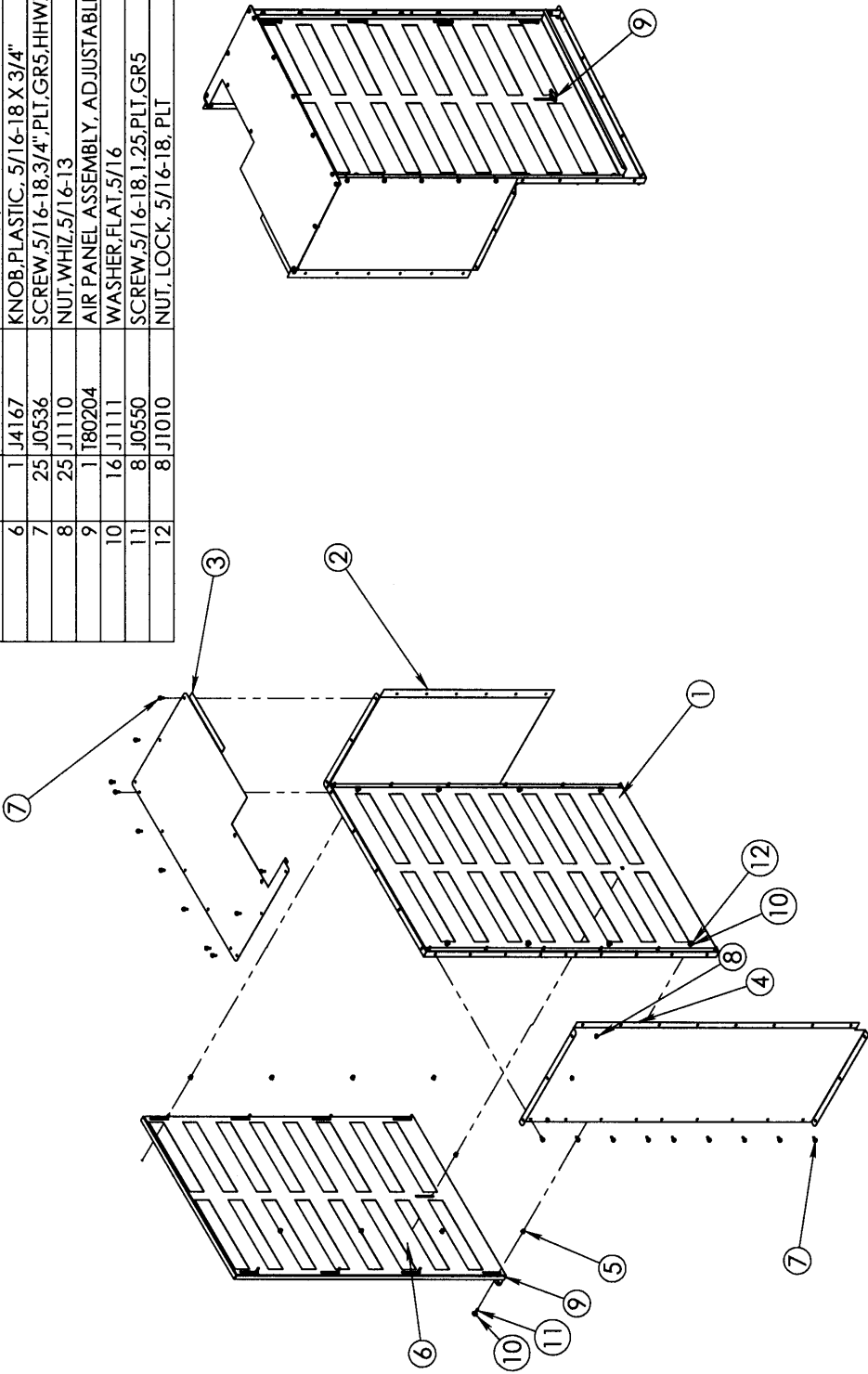


T80200 BRACKET, DRYER DUCTWORK FRONT SUPPORT



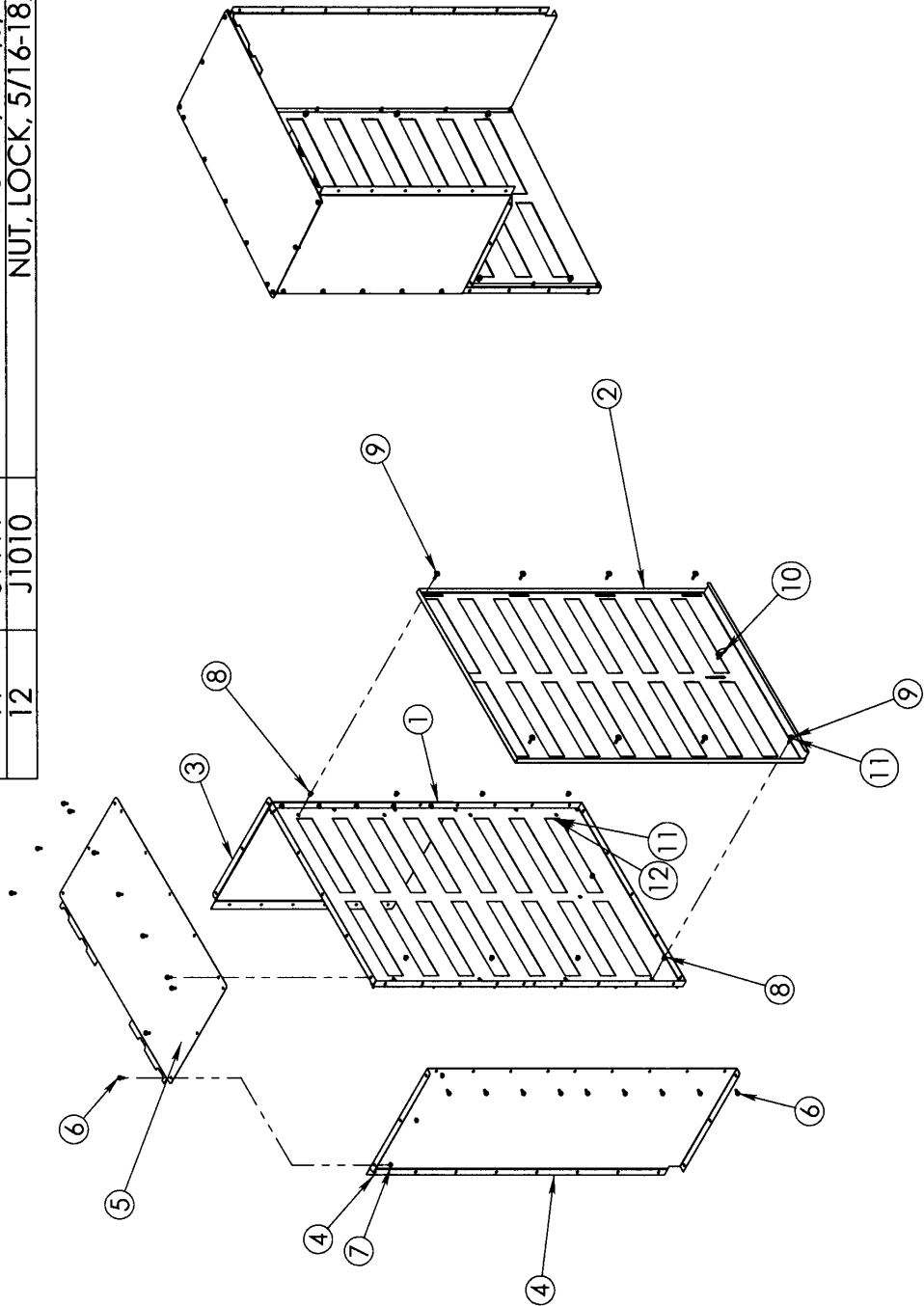
T80163 DRYER FRONT FAN SUPPORT, INTAKE PLENUM, RIGHT

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	T80101	AIR PANEL, STATIONARY ASSEM
2	1	T80110	RT SIDE PANEL, BLOWER INTAKE DUCT
3	1	T80117	RT TOP PANEL, BLOWER INTAKE DUCT
4	1	T80109	RT FRONT SIDE PANEL, BLOWER INTAKE DUCT
5	9	J1007	NUT,RIVET,5/16"-18
6	1	J4167	KNOB,PLASTIC, 5/16-18 X 3/4"
7	25	J0536	SCREW,5/16-18,3/4",PLT,GR5,HHWZ
8	25	J1110	NUT,WHIZ,5/16-13
9	1	T80204	AIR PANEL ASSEMBLY, ADJUSTABLE
10	16	J1111	WASHER,FLAT,5/16
11	8	J0550	SCREW,5/16-18,1.25,PLT,GR5
12	8	J1010	NUT, LOCK, 5/16-18, PLT

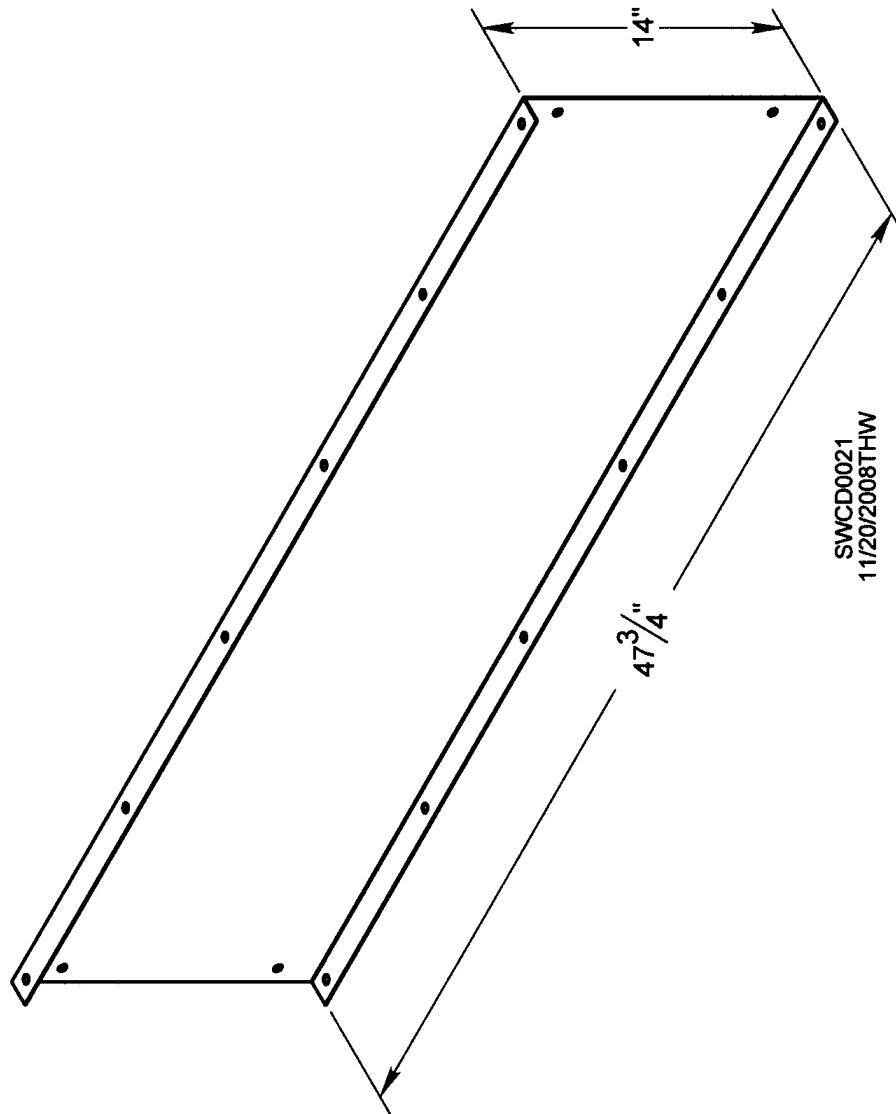


T80162 DRYER FRONT FAN SUPPORT, INTAKE PLENUM, LEFT

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	T80101	AIR PANEL, STATIONARY ASSEM	1
2	T80204	AIR PANEL ASSEMBLY, ADJUSTABLE	1
3	T80119	LT SIDE PANEL, BLOWER INTAKE DUCT	1
4	T80118	LF FRONT PANEL, BLOWER INTAKE DUCT	1
5	T80120	LT TOP PANEL, BLOWER INTAKE DUCT	1
6	J0536	SCREW, 5/16-18, 3/4", PLT, GR5, HHWZ	25
7	J1110	NUT, WHIZ, 5/16-13	25
8	J1007	NUT, RIVET, 5/16"-18	9
9	J0550	SCREW, 5/16-18, 1.25, PLT, GR5	8
10	J4167	KNOB, PLASTIC, 5/16-18 X 3/4"	1
11	J1111	WASHER, FLAT, 5/16	16
12	J1010	NUT, LOCK, 5/16-18, PLT	8

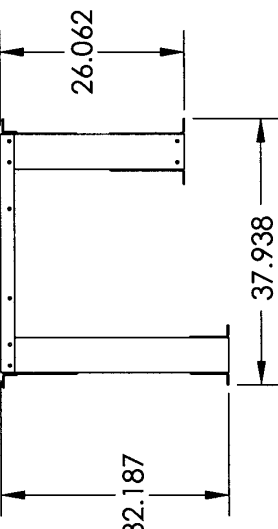
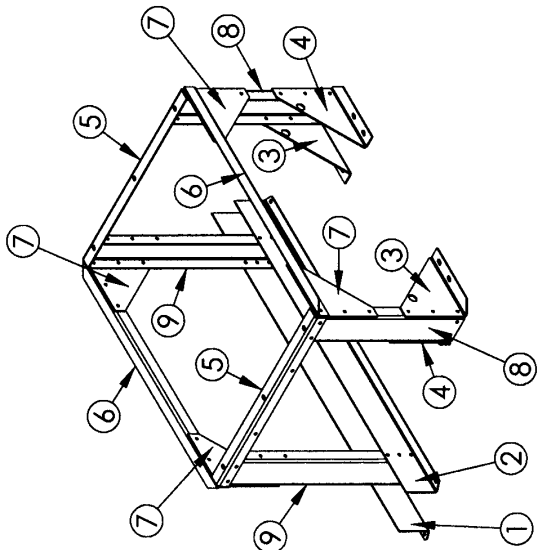
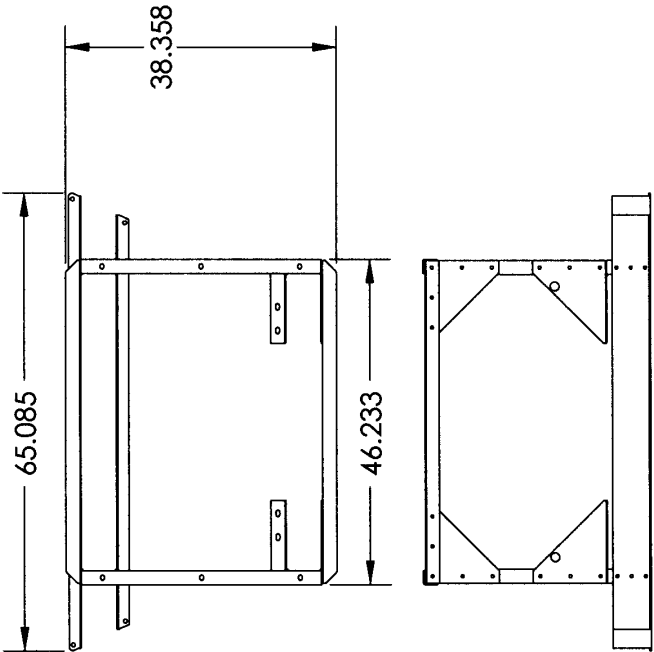


T80219 MOUNTING PLATE, MANUAL CONTROL BOX

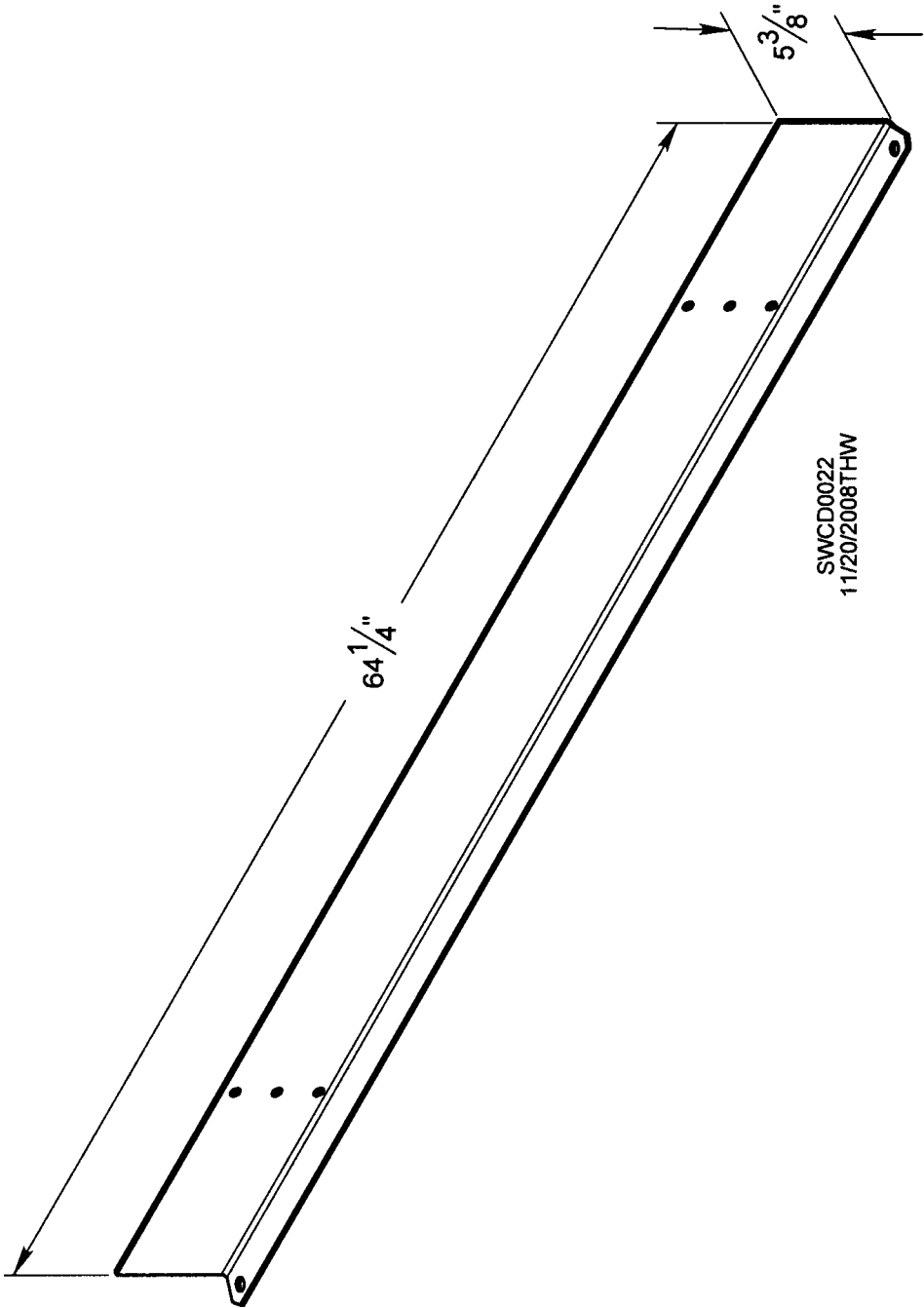


T80167 BLOWER MOUNTING FRAME, TOP UNIT

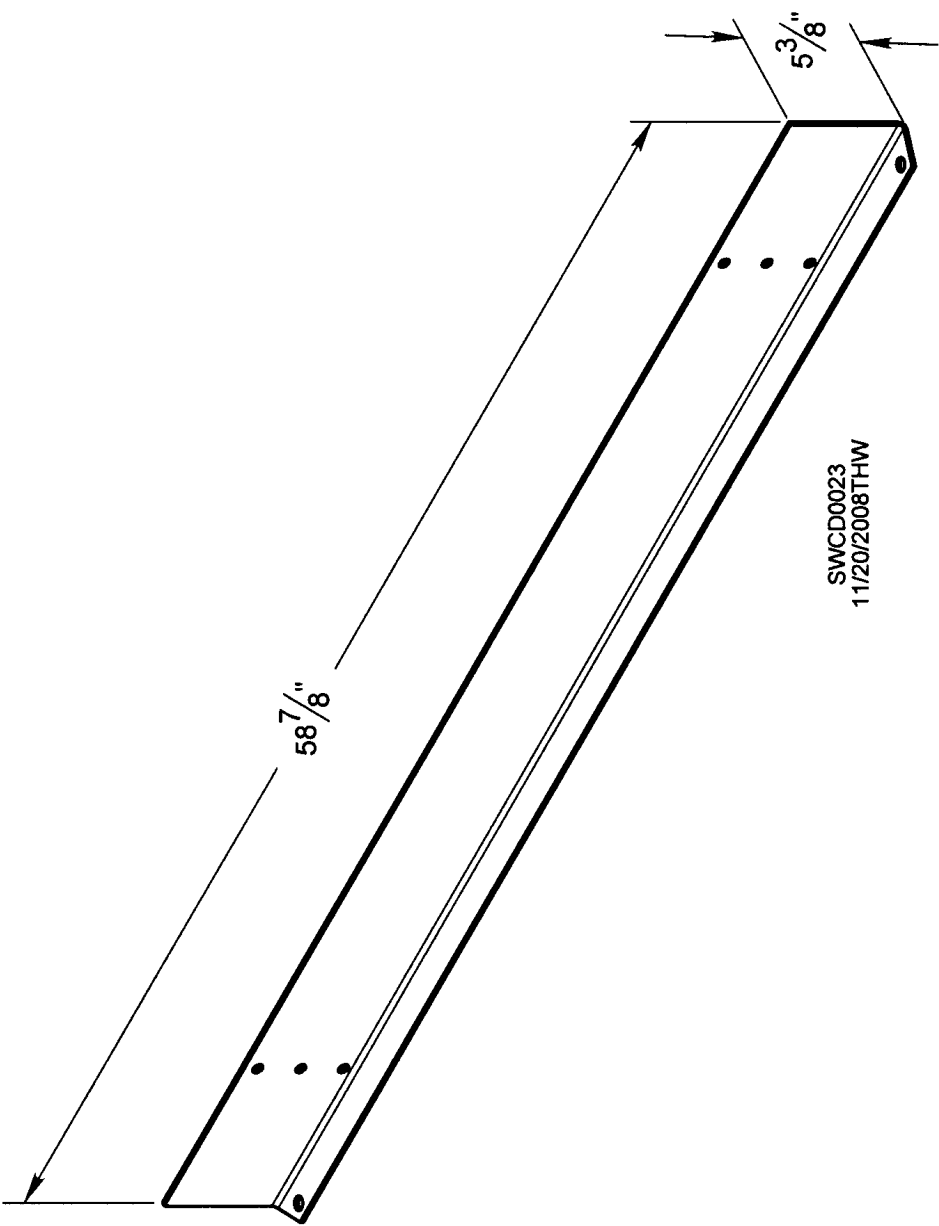
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	T80172	REAR HORZ SUPPORT B, BLOWER MNT FRAME	1
2	T80170	REAR HORZ SUPPORT A, BLOWER MNT FRAME	1
3	T80155	LF BRACKET, FRONT LEGS, BLOWER MNT FRM	2
4	T80156	RT BRACKET, FRONT LEGS, BLOWER MNT FRM	2
5	T80139	HOZT SIDE, BLOWER MOUNT FRAME	2
6	T80140	HOZT BASE 1, BLOWER MOUNT FRAME	2
7	T80138	GUSSET PLATE, BLOWER MOUNT FRAME	4
8	T80168	FRONT LEG, BLOWER MOUNT FRAME	2
9	T80169	REAR LEG, BLOWER MOUNT FRAME	2



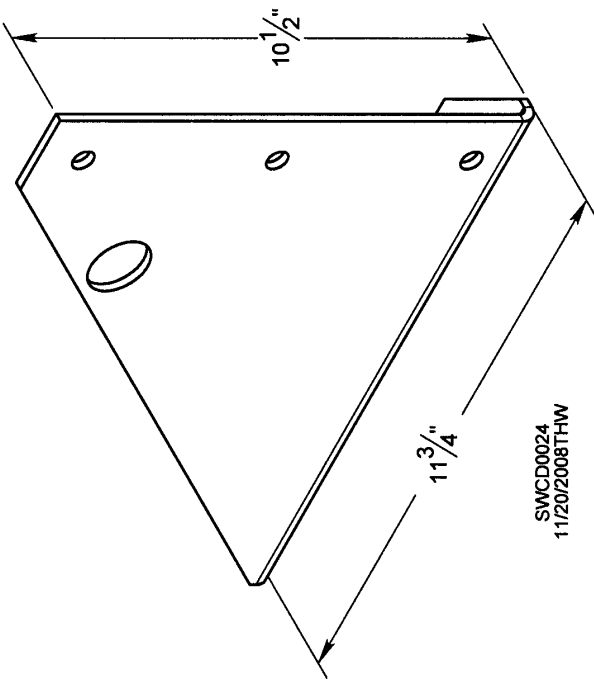
T80172 BLOWER MOUNTING FRAME, TOP UNIT
REAR HORIZONTAL SUPPORT B



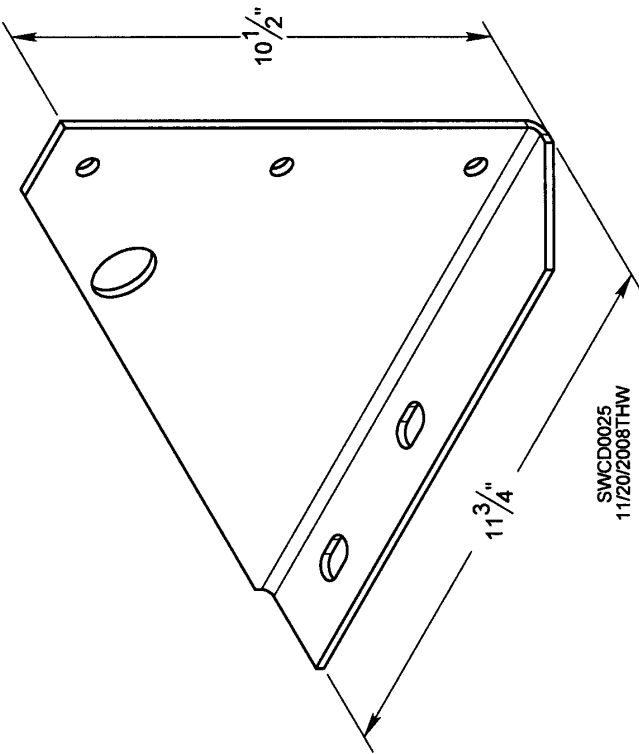
T80170 BLOWER MOUNTING FRAME, TOP UNIT
REAR HORIZONTAL SUPPORT A



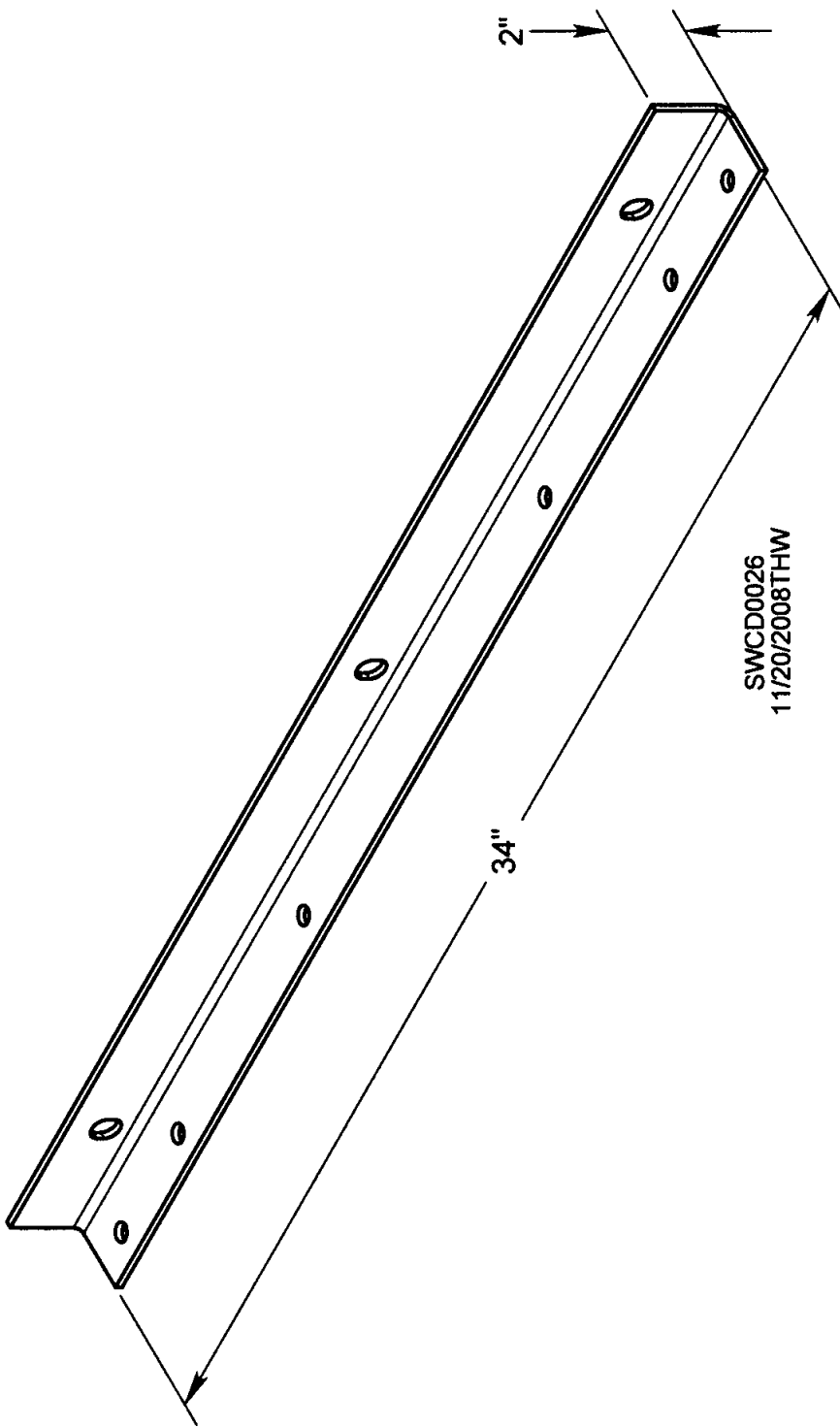
T80155 BLOWER MOUNTING FRAME, LEFT BRACKET, FRONT LEGS



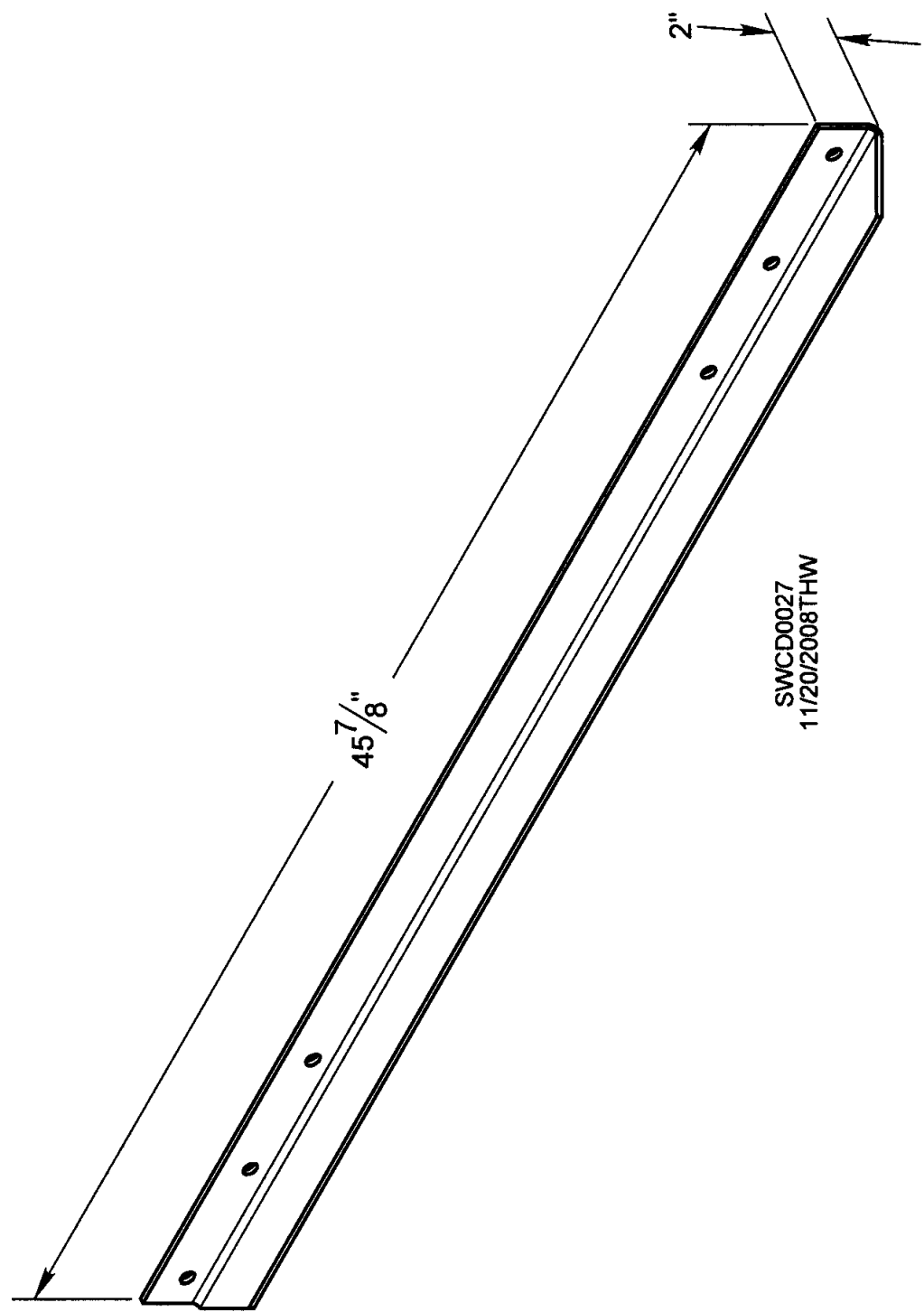
T80156 BLOWER MOUNTING FRAME, RIGHT BRACKET, FRONT LEGS



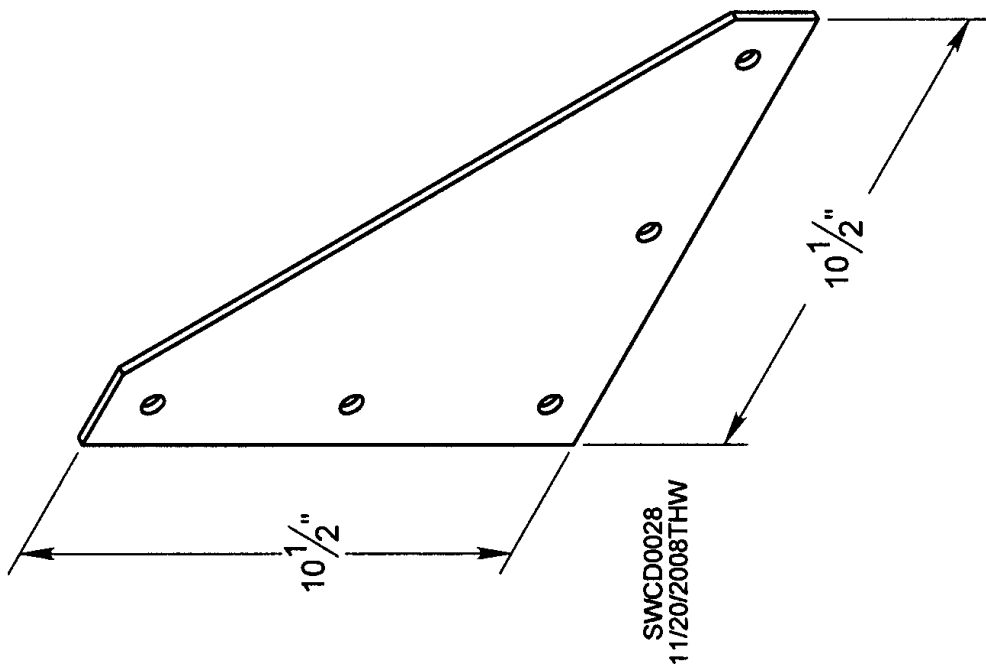
T80139 BLOWER MOUNTING FRAME, HORIZONTAL SIDE



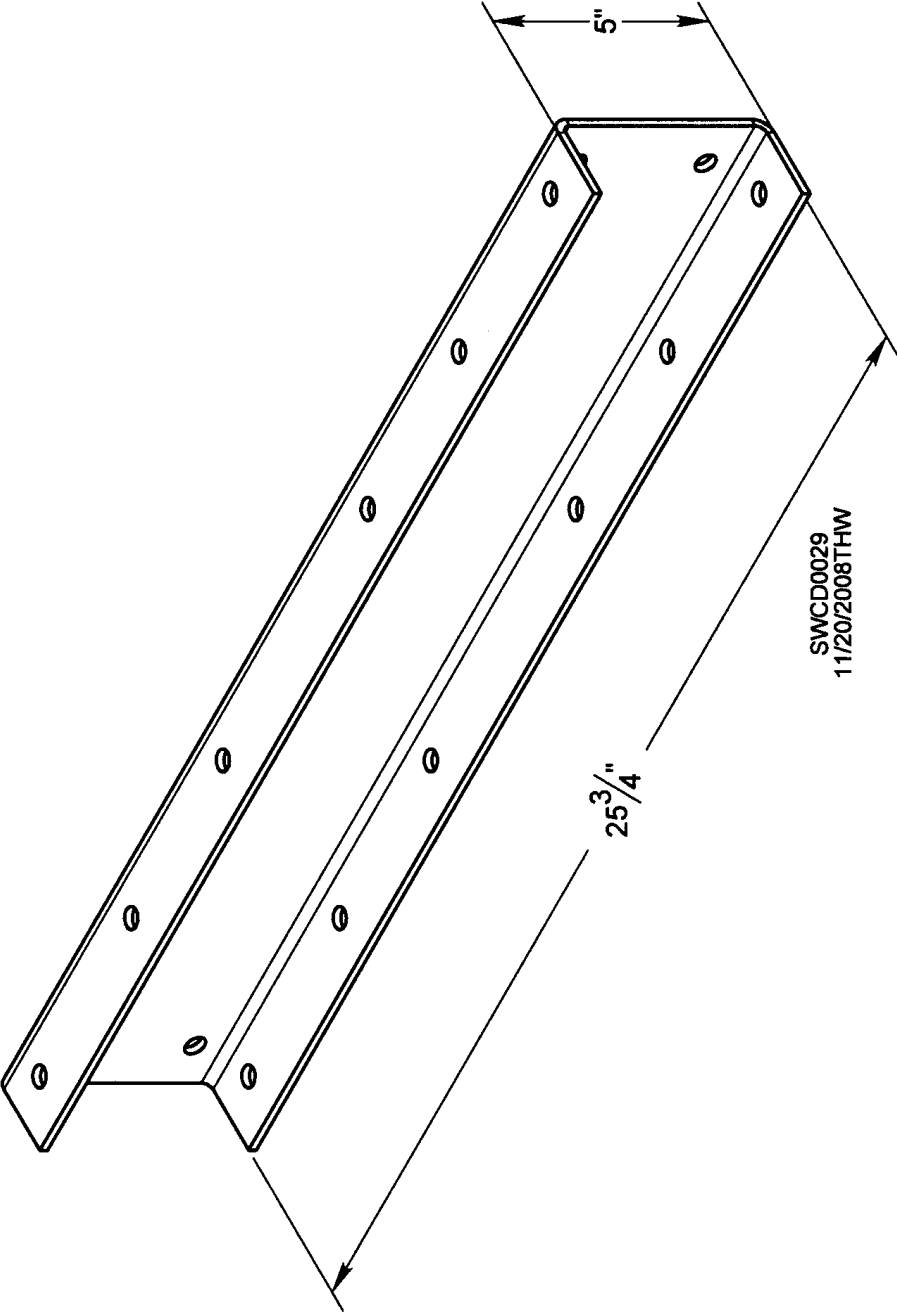
T80140 BLOWER MOUNTING FRAME, HORIZONTAL BASE 1



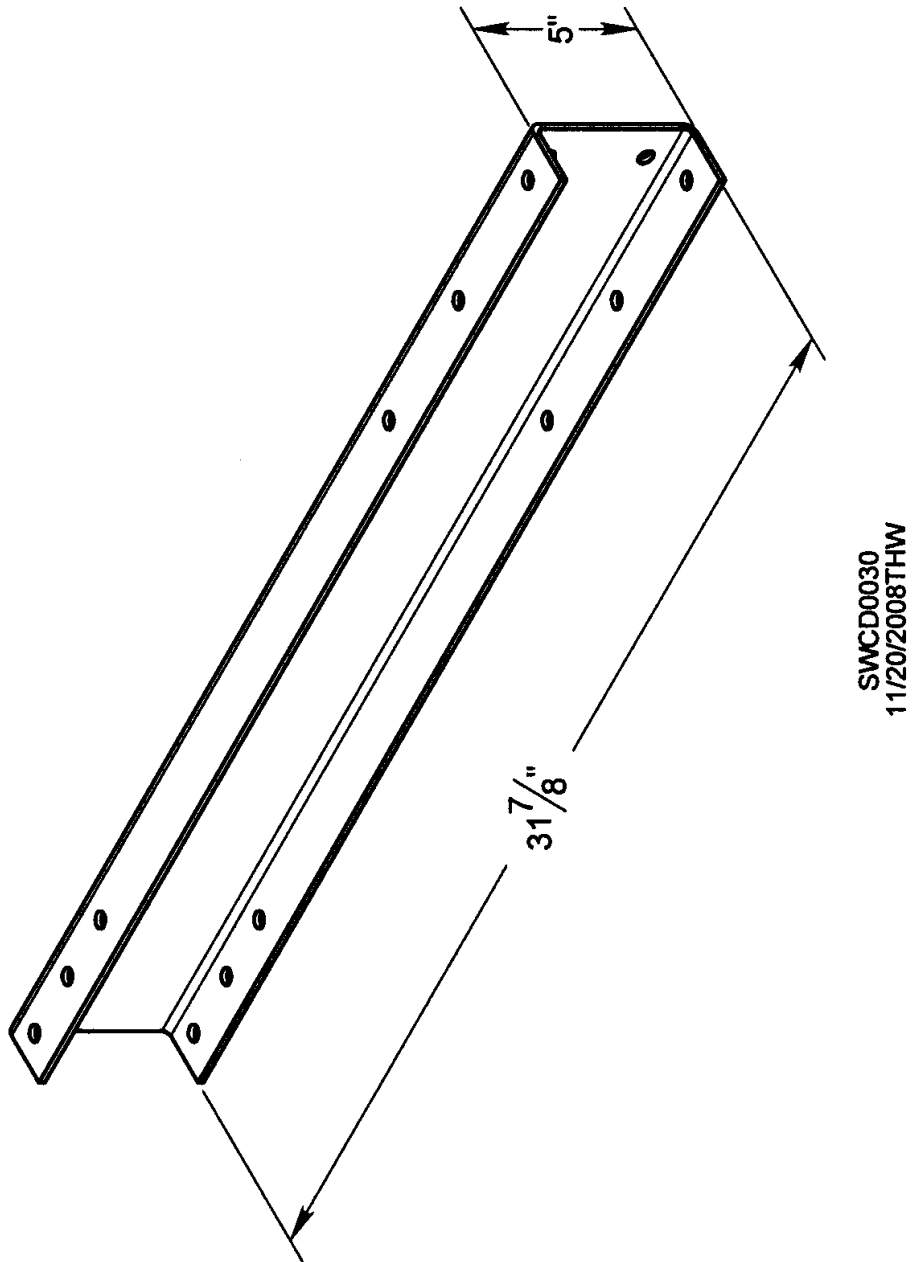
T80138 BLOWER MOUNTING FRAME, GUSSET PLATE



T80168 BLOWER MOUNTING FRAME, FRONT LEG



T80169 BLOWER MOUNTING FRAME, REAR LEG

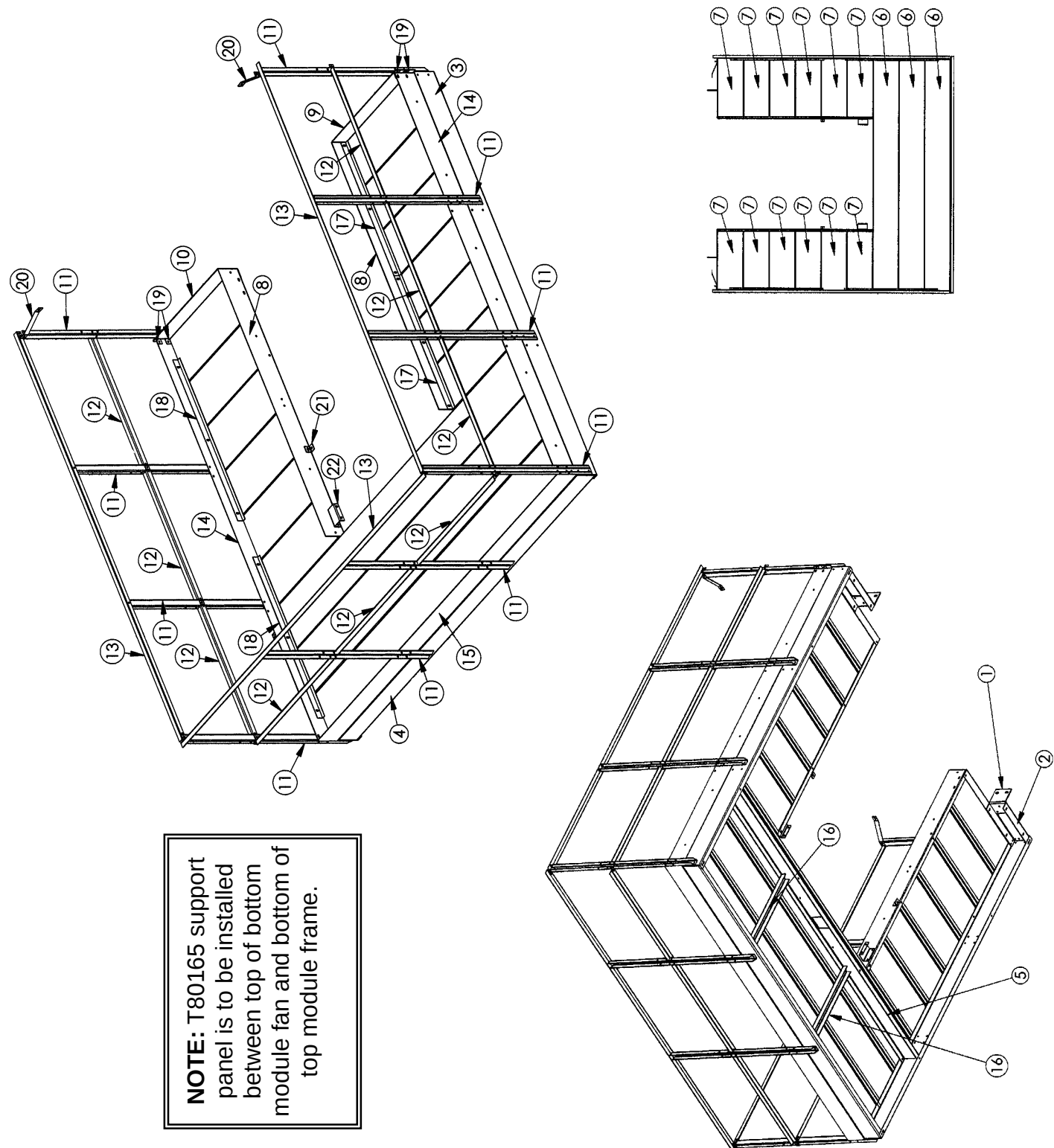


ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	B5084	LADDER, 44"	2
2	T80222	BRACKET, LADDER, FRONT STACK CENT DRYER	1
3	J1110	NUT, WHIZ, 5/16-13	16
4	J0536	SCREW, 5/16-18, 3/4", PLT, GR5, HHWZ	16
5	T25545	SPLICE, LADDER	2
6	B5008	CLIP & BOLT, LADDER	4
7	T35515	BRKT, LADDER, REAR PLATFORM	4
8	T28151	PLATFORM ASSY, LADDER SUPT, SUCT COOL DRYER	1
9	T80223	BRACKET, LADDER, FRONT STACK CENT DRYER	1
10	T28152	HANDLE, DRYER FRONT	1
11	J5065	CAP, LADDER, VINYL	2

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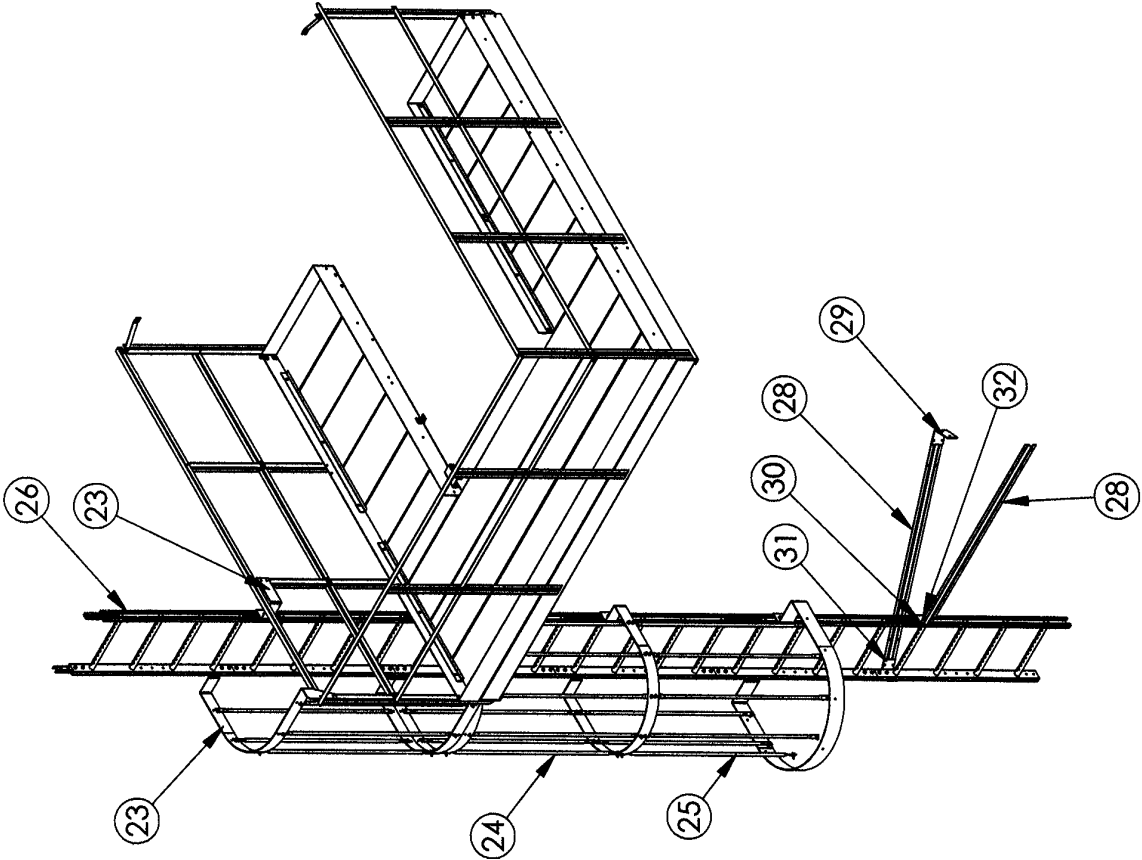
TOLERANCE UNLESS SPECIFIED .X = ± .050 .XX = ± .010 .XXX = ± .005 FRAC = ± 1/32 = ± 1°		SUKUP MFG. CO. SUKUP PARKWAY SHEFFIELD, IA. 50475	
DRAWN BY	DJB	RAW MATL NO.	PART NO. T80224
DATE	8-29-08	MATERIAL	WEIGHT 92.00
USED IN ASSY OF:		DRYER, SUCT COOL	
REF	ENG. ORDER #	BY	DATE
R E V I S I O N			
DESCRIPTION		LADDER, FRONT SUCT COOL DRYER	

CENTRIFUGAL STACK DRYER FRONT DECK



CENTRIFUGAL STACK DRYER FRONT DECK

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	T80179	REAR FRAME BRKT, DECK	2
2	T80175	OUTER REAR FRAME RAIL, DECK	2
3	T80176	OUTER SIDE RAIL, DECK	2
4	T25454	OUTER FRONT RAIL, DECK	1
5	T25455	CENTER RAIL, DECK	1
6	T50122	DECKING, WALKWAY	3
7	T50121	DECKING, WALKWAY	12
8	T80178	INNER A-FRAME RAIL, DECK	2
9	T25457	KICK, REAR TOE, LF DECK	1
10	T25458	KICK, REAR TO, RT	1
11	T25465	POST, HAND RAIL	10
12	T25466	HAND RAIL 37", DECK	9
13	T25469	TOP HAND RAIL FRONT, DECK	3
14	T80177	SIDE TOE KICK, DECK	2
15	T25461	KICK, TOE FRONT, DECK STACK DRYER	1
16	T80180	SUPPORT BRACE, DECK	2
17	T25472	CLAMP STRIP, DECKING	4
18	T25474	CLAMP STRIP, DECKING, 43.5" LG	4
19	T80201	CLIP, DECK CORNER	4
20	T80181	RAILING TIE-IN STRAP, DECK	2
21	T80183	FRAME L BRACKET, DECK	2
22	T80182	MOUNTING BRACKET, DECK	2
23	B50282	CAGE, 4', SAFETY, ACCESS SECTION	1
24	B5028	CAGE, 4', SAFETY	1
25	B5029	CAGE, 4', SAFETY, FLARED	1
26	B5084	LADDER, 44"	6
27	T80165	SUPPORT, UPPER FRAME (NOT SHOWN)	1
28	T80207	SUPPORT FRAME, LADDER BASE	2
29	T80208	ANGLE, LADDER BRACE MNT	1
30	T80209	ANGLE, LADDER BRACE MNT	1
31	T80210	ANGLE, LADDER BRACE MNT	1
32	B5008	CLIP & BOLT, LADDER	2
33	T25545	SPLICE, LADDER	12
34	J0536	SCREW, 5/16-18, 3/4", PLT, GR5, HHWZ	48
35	J1110	NUT, WHIZ, 5/16-18	48



Electrical Load Requirements, Three-Phase Centrifugal Dryers (CE)

Note: A Service-Rated, Fused Disconnect needs to be installed ahead of the Dryer power distribution box. This disconnect is not included with the dryer and should be installed by a qualified electrician in accordance with local and national standards.

CAUTION: The only device connected to this disconnect should be your Grain Dryer.

The following charts provide information for the electrician wiring the Grain Dryer. It is recommended that you contact your local Power Company and have a representative inspect the installation to see that your wiring is compatible with their system and that sufficient power is supplied to your dryer.

Standard electrical safety practices and codes should be used. **IMPORTANT:** Any supporting electrical panels or combinations of electrical components supplied by the end user must be compliant with current editions of BS EN 60204-1.

All electrical work should be completed by a qualified electrician.

Dryer Electrical Specifications:

SINGLE MODULE DRYERS

TC1631DW (LP) or TC1632DW (NG) – 16 Foot Dryer, 1 Fan/Heater, 2/3 – 1/3 Plenum, 380Volt, 3 Phase, 50 Hz, Main Switch = 250 Amps

	Top Auger	Bottom Auger	Fan	Minimum Amps	Maximum Amps
Motor/Wire Amps	3Kw/ #14 5 FLA	3Kw/ #14 5 FLA	22Kw/ #6 41 Amps	51 Amps	250 Amps

** See Auxiliary Kits section for options

TC2431DW (LP) or TC2432DW (NG) – 24 Foot Dryer, 1 Fan/Heater, 2/3 – 1/3 Plenum, 380Volt, 3 Phase, 50 Hz, Main Switch = 250 Amps

	Top Auger	Bottom Auger	Fan	Minimum Amps	Maximum Amps
Motor/Wire Amps	5.5Kw/ #10 13 FLA	5.5Kw/ #10 13 FLA	37Kw/ #4 80 Amps	106 Amps	250 Amps

** See Auxiliary Kits section for options

TWO MODULE DRYERS

TC2451DW (LP) or TC2452DW (NG) – 24 Foot Dryer, 2 Fan, Stacked Module, 380Volt, 3 Phase, 50 Hz, Main Switch = 400 Amps

	Top Auger	Bottom Auger	Fan	Fan	Minimum Amps	Maximum Amps
Motor/Wire Amps	5.5Kw 13 FLA	5.5Kw 13 FLA	37Kw 80 FLA	37Kw 80 FLA	186 Amps	400 Amps

** See Auxiliary Kits section for options

Auxiliary Load and Unload Kit Options

** Dryers may be equipped with auxiliary load and or unload motor starters / overloads. These can only be field installed.

Auxiliary Load and Unload kit specifications:

IMPORTANT: Any supporting electrical panels or combinations of electrical components supplied by the end user must be compliant with current editions of BS EN 60204-1.

Dryers have been pre-configured to handle up to 2 (two) 10 HP kits on **single** module dryers.

NOTE: If additional auxiliaries are required, the Dealer is responsible to determine if the dryer can handle the additional load. If the dryer is not able to handle the extra load, the auxiliary must have its own power source independent of the dryer.

Temperature Compensated Overloads, 3 Phase Units:

All Dryers manufactured as three phase units are equipped with temperature compensated overloads. If installing auxiliary load and unload kits NOT purchased from Sukup Manufacturing Company, it is recommended that **temperature compensated units** be used.

Fuel System Requirements

LIQUID PROPANE

Sukup dryers for liquid propane use must be connected to a supply tank to draw liquid from the bottom of the tank. The tank should be 3,785 liters or larger, and have a regulator mounted to it with a maximum 5 bars (72 psi). The connection to the dryer should be with a flexible hose designed for LP gas. Have your LP gas supplier make proper connections and safety controls. **IMPORTANT: Regulator must be in accordance with standard BS EN 88 or BS EN 334.**

Do not use tanks that have previously been used for ammonia or fertilizer solutions. These substances are extremely corrosive and can damage fuel supply and burner parts.

Water in the supply tank may freeze in the pipe train or controls, causing damage. To ensure the tank is free of moisture, the best precaution is to purge with methanol. Check with the gas supplier if this needs to be done. Do not use tanks with an accumulation of oil or heavy hydrocarbons from long use on a vapor withdrawal system.

If more than one tank is needed to supply liquid propane to the dryer, the vapor sides of the tanks must be connected together to equalize the pressure from each tank. Have your LP gas supplier make proper connections and safety controls to meet local codes and National Fire Protection Association standards.

Fuel System Recommendations

LIQUID PROPANE - CENTRIFUGAL

DRYER SIZE	MAXIMUM HEAT CAPACITY kJ/HR (BTU/HR)	MAXIMUM FUEL FLOW L/HR (GAL/HR)	FUEL LINE SIZE (MINIMUM UP TO 100') MM (IN)
16 FT, SINGLE MODULE	6,857,863 (6,500,000)	267.4 (71)	12.70 (1/2)
16 FT, 2 MODULE	13,715,726 (13,000,000)	537.5 (142)	19.05 (3/4)
20 FT, SINGLE MODULE	8,704,211 (8,250,000)	339.4 (90)	12.70 (1/2)
20 FT, 2 MODULE	17,408,422 (16,500,000)	681.4 (180)	19.05 (3/4)
24 FT, SINGLE MODULE	10,550,559 (10,000,000)	412.6 (109)	19.05 (3/4)
24 FT, 2 MODULE	21,101,117 (20,000,000)	825.2 (218)	25.40 (1)



1. See fuel specification chart above for recommended line size.
2. USE a pressure regulator at supply tank.
3. Open LP shut-off valves slowly to prevent inadvertent closing of excess flow valves

Connection to liquid manifold on dryer

NATURAL GAS

Sukup dryers for natural gas use are designed to function at a heat value of approximately 1000 BTU per cubic foot. A regulated pressure of 1 bar (15 PSI) must be provided for connection to the dryer. **IMPORTANT: Regulator must be in accordance with standard BS EN 88 or BS EN 334.** Ensure also that sufficient volume is maintained for the correct operating pressure.

Fuel System Recommendations

NATURAL GAS - CENTRIFUGAL

DRYER SIZE	MAXIMUM HEAT CAPACITY kJ/HR (BTU/HR)	MAXIMUM FUEL FLOW L/HR (CUBIC FEET/HR)	FUEL LINE SIZE (MINIMUM UP TO 100') MM (IN)
16 FT, SINGLE MODULE	6,857,863 (6,500,000)	184,059.5 (6,500)	38.1 (1-1/2)
16 FT, 2 MODULE	13,715,726 (13,000,000)	368,118.0 (13,000)	63.5 (2-1/2)
20 FT, SINGLE MODULE	8,704,211 (8,250,000)	233,614.0 (7,000)	50.8 (2)
20 FT, 2 MODULE	17,408,422 (16,500,000)	467,228.0 (16,500)	63.5 (2-1/2)
24 FT, SINGLE MODULE	10,550,559 (10,000,000)	283,168.5 (10,000)	50.8 (2)
24 FT, 2 MODULE	21,101,117 (20,000,000)	566,336.9 (20,000)	63.5 (2-1/2)

1. See fuel specification chart above for recommended line size.



Connection to natural gas manifold on dryer

2- fan/heater natural gas dryer



RECOGNIZE SAFETY ALERT SYMBOL

This symbol means "Attention! Be Alert! Your personal safety is involved!" It should draw your attention to important instructions concerning your personal safety. Read the messages carefully to avoid personal injury or death.

SAFETY SIGNAL WORDS

On safety decals, three signal words are used with corresponding colors of red, orange, and yellow to indicate hazard intensity. Definitions are as follows:



Red "DANGER" sign indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.

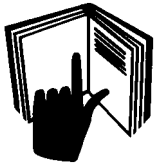


Orange "WARNING" sign indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.



Yellow "CAUTION" sign indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

FOLLOW SAFETY SIGNS & MESSAGES



Observe safe operating practices. Carefully read this manual and all safety signs on your equipment. Safety signs must be kept in good condition. Replace missing or damaged safety decals or shields free of charge by contacting Sukup Manufacturing Co. Learn how to use controls and operate equipment. Do not let anyone operate unit (ESPECIALLY YOUTH) without thorough training of basic operating and safety procedures.

Basic Safety Rules

1. Learn how to use controls and operate equipment.
2. Do not let anyone operate unit without thorough training of basic operating and safety procedures. **Always follow a proper lockout procedure.**
3. **Do not modify or redesign equipment** without first obtaining written approval from Sukup Manufacturing Co. Unauthorized modifications to the equipment may impair the function and/or safety and affect machine life.
4. Periodically check all mechanical and electrical components. **Keep unit in good working condition.**
5. Handle equipment and parts with care. **Wear protective clothing** to avoid injury from sharp metal edges.
6. **Wear Personal Protective Equipment (PPE)** such as safety glasses, gloves, hardhat, steel-toed boots, ear protection and dust mask as required.



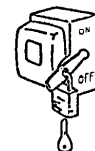
Keep unit well maintained according to maintenance procedures listed in Owner's Operation Manual.



CAUTION: To avoid electrocution, all equipment must be properly wired and grounded according to electrical codes. Have unit wired by qualified electrician.

IMPORTANT: Supporting electrical panels or combinations of electrical components supplied by the end user must be compliant with current editions of BS EN 60204-1.

Mains Isolater must be located outside of bin. It must be easily accessible from ground level and must be lockable in off position. Mark clearly as to equipment it operates. See Mains Isolater decal placement information later in this section.



Always **LOCK OUT** main power switch (Mains Isolater) whenever equipment is not in use or when servicing unit. Check with voltage meter before servicing unit.

TRANSPORT SAFETY WARNING: TRUCKER-TRANSPORTER IS TO PROVIDE APPROVED SAFETY CHAIN WHEN TOWING DRYER.



WARNING: Transporting this equipment on farm sites requires precautionary measures in order to prevent serious injury or death. If transport is required it is essential that all of the following procedures be adhered to:

- Read and understand operator's manual.
- Check and comply with state & local regulations.
- Use required emblems or lights.
- Keep away from overhead electrical lines.
- Reduce speed and/or use lower gear on rough ground or slopes.
- Stop gradually.
- Use mirrors. Have extended rear angle mirrors on vehicles.
- Signal & check behind you when turning.
- Use safety chain when towing dryer.
- Use break-away kit (available from Sukup Mfg Co - Computer #T4366).
- Be sure to have clear visibility
- Use signal lights

Failure to heed these warnings may result in serious injury or death. Use good judgment when transporting. Maintain complete control of unit at all times. **Comply with state and local regulations.** Read safety procedures before moving units. Always strive to prevent accidents! Watch out for other vehicles.



WARNING: TO PREVENT EXPLOSION OR FIRE



- Carefully review operator's manual, **including all safety instruction.**
- Keep dryer clean inside and out, as fines may cause a fire.
- Check for gas leaks, (spray soapy solution on piping and joints.)
- Run fan at least a half-minute before starting heater.
- NEVER start heater if you smell gas or hear a hissing sound.
- NEVER run heater with inspection door open.

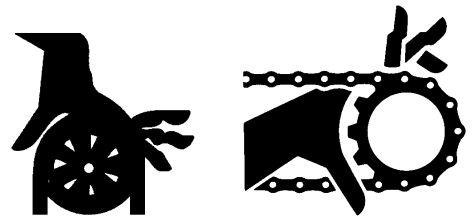
Failure to heed these warnings may cause serious injury or death.

Please refer to applicable sections of this operation manual for detailed instruction.



WARNING: KEEP CLEAR OF ALL MOVING PARTS

Keep people (ESPECIALLY YOUTH) away from equipment, particularly during operation. Keep away from all moving parts. Entanglement can cause serious injury or death. Keep fan screen guards and all shields in place and in good working condition. Replacement screen guards and shields are available from Sukup Manufacturing Co. at no charge.



Failure to follow the above precautions may cause serious injury or death.

EMERGENCIES - KNOW WHAT TO DO

Have telephone numbers and written directions to your location near your telephone in the event of emergency. A place to record information is provided here.

Emergency Information

AMBULANCE: _____

FIRE: _____

ADDRESS OF WORK SITE: _____

DIRECTIONS TO YOUR LOCATION: _____

Safety Section

To prevent serious injury or death to you or your family, it is essential that these safety decals be mounted on your dryer.

Check that all safety decals are in place according to the decal placement drawing and in good legible condition when dryer is installed.

IMPORTANT!! If suggested locations are not clearly visible, place safety decals in a more suitable area. Never cover up existing safety decals.

Make sure location for decal is free from grease, oil and dirt. Remove backing from decal and place in proper position. Replace missing or damaged safety decals or shields free of charge by contacting Sukup Manufacturing Co. by mail at Box 677, Sheffield, Iowa 50475; by phone at 641-892-4222; or by e-mail at info@sukup.com. Please specify computer number.

1. **Decal L0281 - WARNING:** To avoid serious injury or death.



2. **Decal L02741 - DANGER:** Keep away from any electrical lines, especially when moving unit.



3. **Decal L0234 - DANGER:** Do not allow rear door to close with someone inside; lock out power; do not bypass interlock switch.



4. **Decal L0166 - WARNING:** Guards & screens in place. Disconnect electricity. Check fan blade.



5. **Decal L0271 - DANGER:** Shield missing, do not operate.



6. **Decal L0284 - WARNING:** Keep away from all moving parts.



7. **Decal L0285 - CAUTION:** Not intended for use on public roads. If road travel is required:

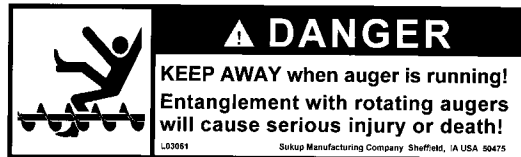


Safety Section

8. **Decal L02831 – WARNING:** Lower and secure parking stands before unhitching unit.



9. **Decal L03061 - DANGER:** Keep away when auger is running! Entanglement will cause serious injury or death!



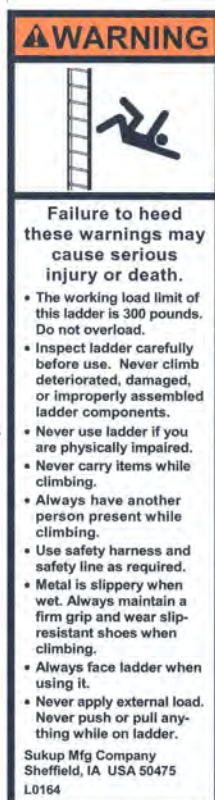
death!

10. **Decal L0520 - CAUTION:** Failure to keep unit clean may cause fire and serious injury or death.



11. **Decal L0164 - WARNING:**

Ladder safety – falling from heights hazard. Overall precautions for ladder safety.



12. **Decal L0512 – WARNING:** Use safety chain when towing unit to eliminate detachment hazard.



13. **Decal L0062 – DANGER:** Never run fan without screen guard; Stay clear from front of fan; Follow correct procedure when installing fan blade.



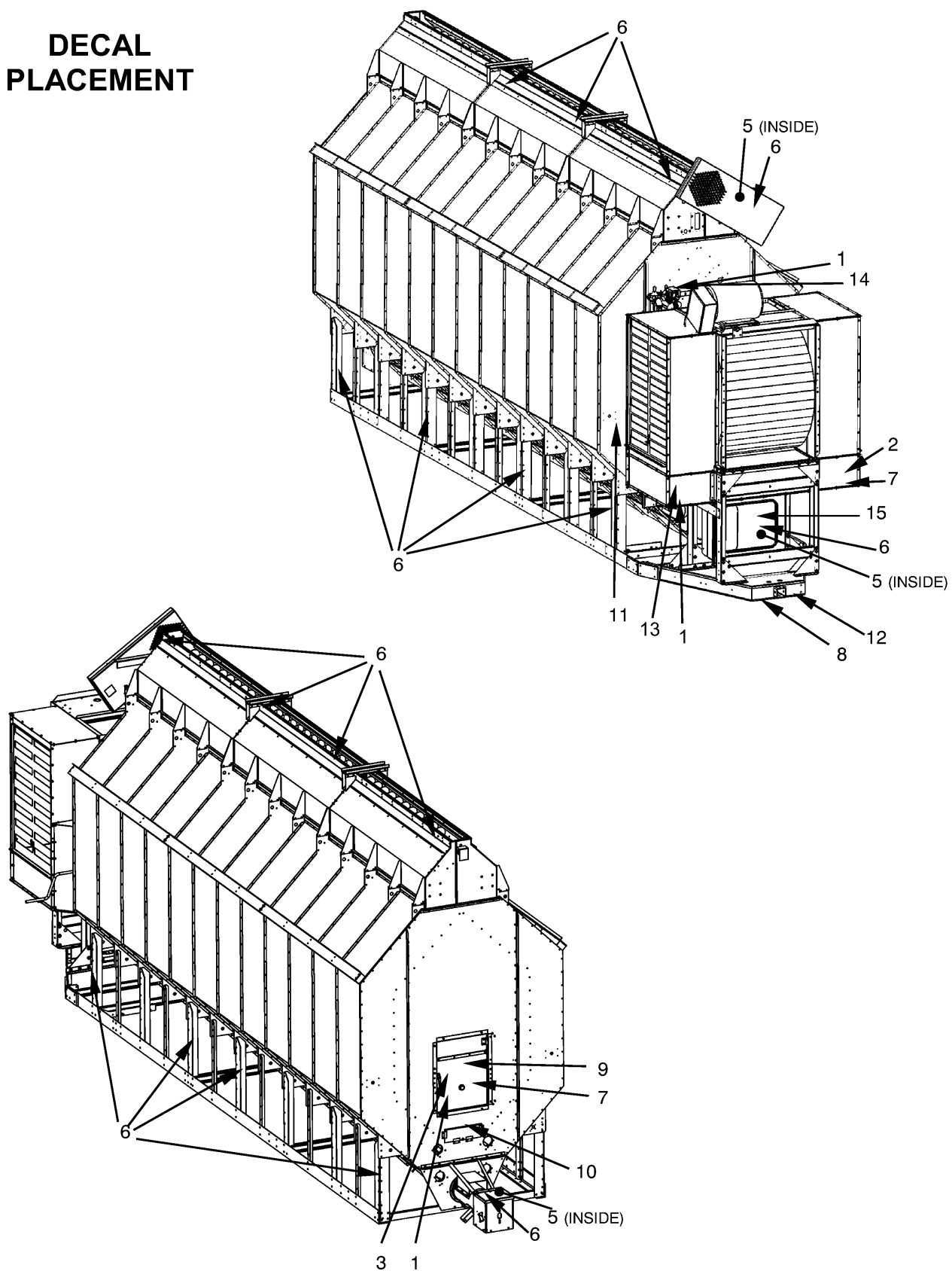
14. **Decal L0165 - WARNING:** Disconnect Electricity; Bleed gas; etc.



15. **L0204 - DANGER:** Do not operate with service door removed.



DECAL PLACEMENT



Labels/Decals and placement instruction for Centrifugal Dryer (CE)

To prevent serious injury or death to you or your family, it is essential that these safety decals be mounted on your dryer.

Make sure location for decal is free from grease, oil and dirt. Remove backing from decal and place in proper position. Replace missing or damaged safety decals or shields free of charge by contacting Sukup Manufacturing Co. by mail at PO Box 677, Sheffield, Iowa 50475; by phone at 641-892-4222; or by e-mail at info@sukup.com. Please specify computer number.



L5100 Sukup Manufacturing Co Sheffield, IA USA

Label #L5100 – Place inside power box of dryer and on dryer where electrical precautions are needed.



L5101



Sukup Manufacturing Company Sheffield, IA USA

Label #L5101 – Place near power disconnect of dryer.



L5102



Sukup Manufacturing Company Sheffield, IA USA

Label #L5102 – Place near main power source of dryer.



L5103



Sukup Manufacturing Company Sheffield, IA USA

Label #L5103 – Place near main power source of dryer.



L5104

Sukup Manufacturing Co Sheffield, IA USA

Label #L5104 - Place at dryer rear access door (entrance to plenum).



L5105

Sukup Manufacturing Co Sheffield, IA USA

Label #L5105 – Place at dryer rear access door (entrance to plenum).



L5106



Sukup Manufacturing Company Sheffield, IA USA

Label #L5106 – Place near shut off to power source.



Label #L5107 – Place near main power shut off.



Label #L5109 – Place near main power panel.



Label #L5108 - Placed on axial fans.



Label #L5111- Place at dryer rear access door (entrance to plenum).

CONTACT INFORMATION

Owner's manuals are available from Sukup and additional copies can be requested at the address, phone number, or e-mail address shown below. Please indicate manual number L141032DC when requesting the 3-Phase Centrifugal Dryer (CE) Parts Assembly.

Sukup Dealer Information

Dealer Name: _____
Address: _____
Cell Phone: _____
Office Phone: _____
Fax: _____

In Case of Emergency

Have contact information available for emergency use. A place to record information is provided here.

Emergency Information
AMBULANCE: _____
FIRE: _____
ADDRESS OF WORK SITE: _____
DIRECTIONS TO YOUR LOCATION: _____



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Sheffield, Iowa, USA 50475-0677

Phone: 641-892-4222

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