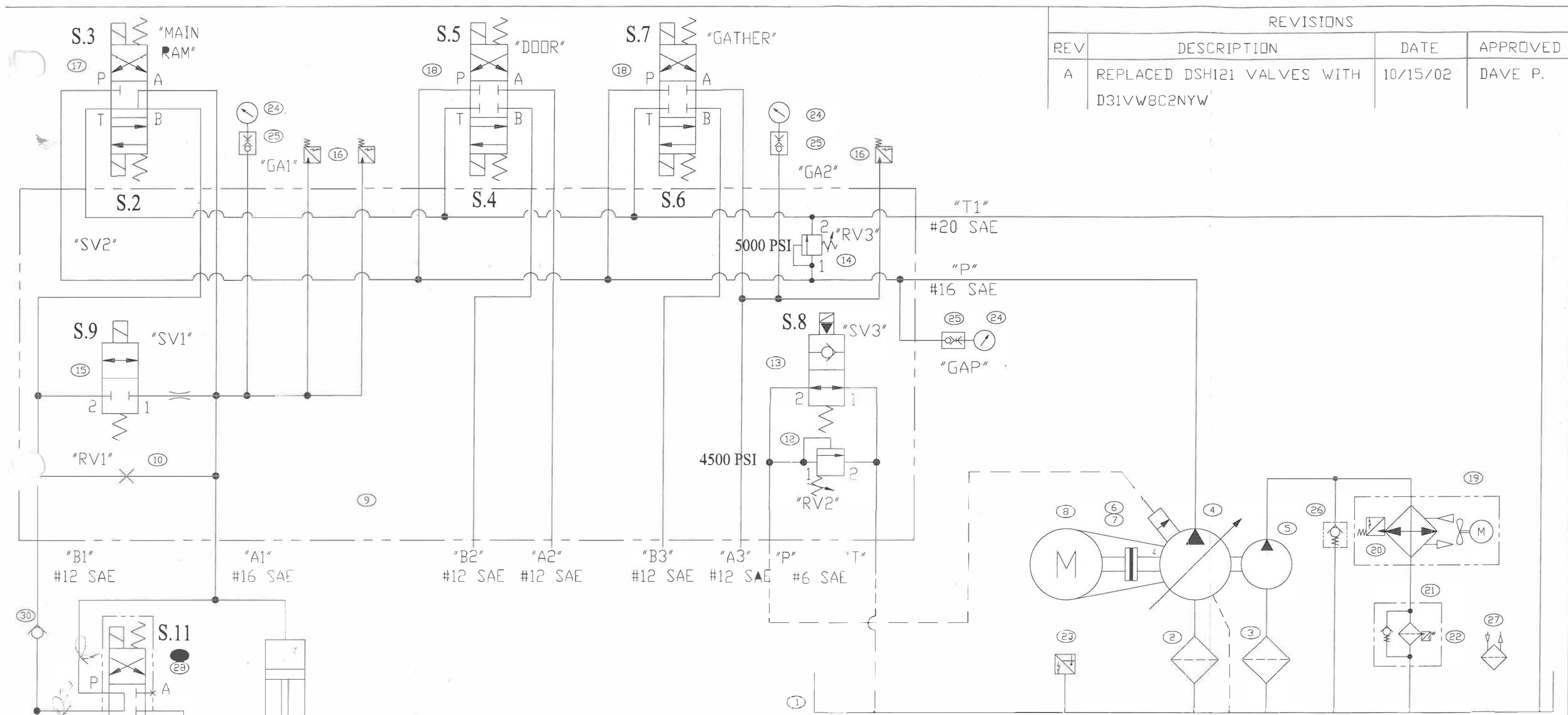




REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REPLACED DSH121 VALVES WITH D31VW8C2NYW	10/15/02	DAVE P.

SIGNATURES		DATE		 SYSTEMS DIVISION 16301 Addison Road Addison, Texas 75001	
DRAWN OMOTA		08/02			
CHECKED				APPLIED RECOVERY SYSTEMS "500" HPU - HYDRAULIC SCHEMATIC	
APPROVED					
NEXT ASSY.		SIZE B	FSCM NO	DWG NO 35-02040	REV A
CONTRACT NO.		SCALE		SHEET 1 OF 2	

Piston Pump: P2075 Rod CSC 32T E20 N45 A1A1U

31B	1	RAH101S50	PARKER RELIEF VALVE
31A	1	B10-2-8T	PARKER BODY VALVE
30	1	DT-700	PARKER CHECK VALVE
29	1	D31VW8C2NYWF	PARKER DIRECTIONAL VALVE
28	1	DD05JSPS16S	D05 MANIFOLD
27	1	SDB96	STAUFF DESSICANT AIR BREATHER
26A	1	C800S	PARKER CHECK VALVE
25B	1	DGA 20-1/4NPT	DIRECT GAUGE ADAPTER
25A	1	TCM 20-7/16 UNF	PRESSURE TEST COUPLING
24	1	25.910.5000	LIQUID FILLED GAUGE
23	1	TL-009	TEMPERATURE/LEVEL SWITCH
22	1	929599	E2 50PSI ELECTRICAL SWITCH
21B	1	932648Q	FILTER ELEMENT
21A	1	40CN-1-10Q-M2-25-P4P4-1	RETURN FILTER ASSEMBLY
20	1	ILLZTH4765	ASA TEMPERATURE SWITCH
19	1	ILLEC25U	ASA COOLER AIR/OIL
18	2	D3W1CNYWZ	PARKER DIRECTIONAL VALVE
17	1	D3W4CNYW	PARKER DIRECTIONAL VALVE
16	3	DE4-SBHS-8K	OIL DYNE PRESSURE SWITCH
15	1	DSH102C	PARKER 2 WAY DIRECTIONAL VALVE
14	1	RAH101S50	PARKER RELIEF VALVE
13	1	DSH101NR	PARKER DIRECTIONAL CONTROL VALVE
12	1	RDH101S50	PARKER RELIEF VALVE
11		NOT USED	
10	1	P10-2	PARKER PLUG
9	1	D-25112	D03 DAMAN SPECIAL 3 ST. MANIFOLD
8	1	WWE20-18-256TC	WEC 20 HP; 460VAC; 3 Ph. ELECTRICAL MOTOR
7	1	6040	PUMP TO MOTOR ADAPTER
6C	1	L110X1.625	SHAFT COUPLING HUB
6B	1	L110	SHAFT COUPLING SPIDER
6A	1	L110X0.875	SHAFT COUPLING HUB
5	1	H62AB2AK	GEAR HYDRAULIC PUMP
4	1	PHP4050C2R26A4HLM	PISTON HYDRAULIC PUMP
3	1	P-5-3/4-100	SUCTION STRAINER
2	1	P-30-1-1/2-100	SUCTION STRAINER
1B	1	99946	COVER PLATE
1A	1	37560	60 GAL. RESERVOIR
SYM	QTY	PART NUMBER	DESCRIPTION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REPLACED DSH121 VALVES WITH D31VW8C2NYW	10/15/02	DAVE P.

Description

Automatic Cycle

Machine At Home Position

Gather Cylinder Extend

Main Cylinder Extend in Regen

Main Cylinder Extend non-Regen

Briquette Made Decompression

Main Cylinder Partial Retract

Door ☒ open

Gather Cylinder Retract

Main Cylinder Retract

Door Close

Manual Functions

Extend Gather

Retract Gather

Open Door

Close Door

Extend Main Ram in Regen

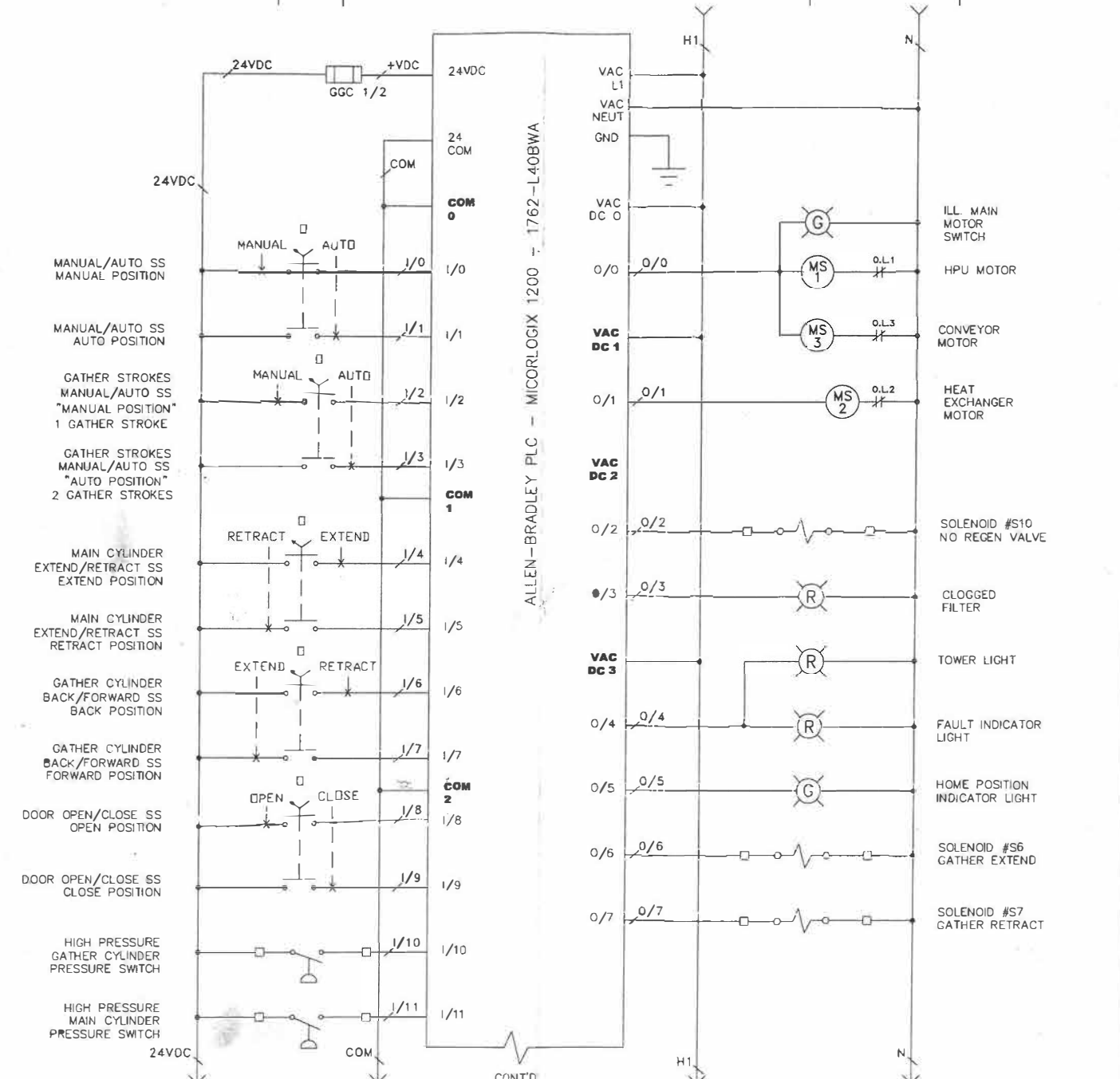
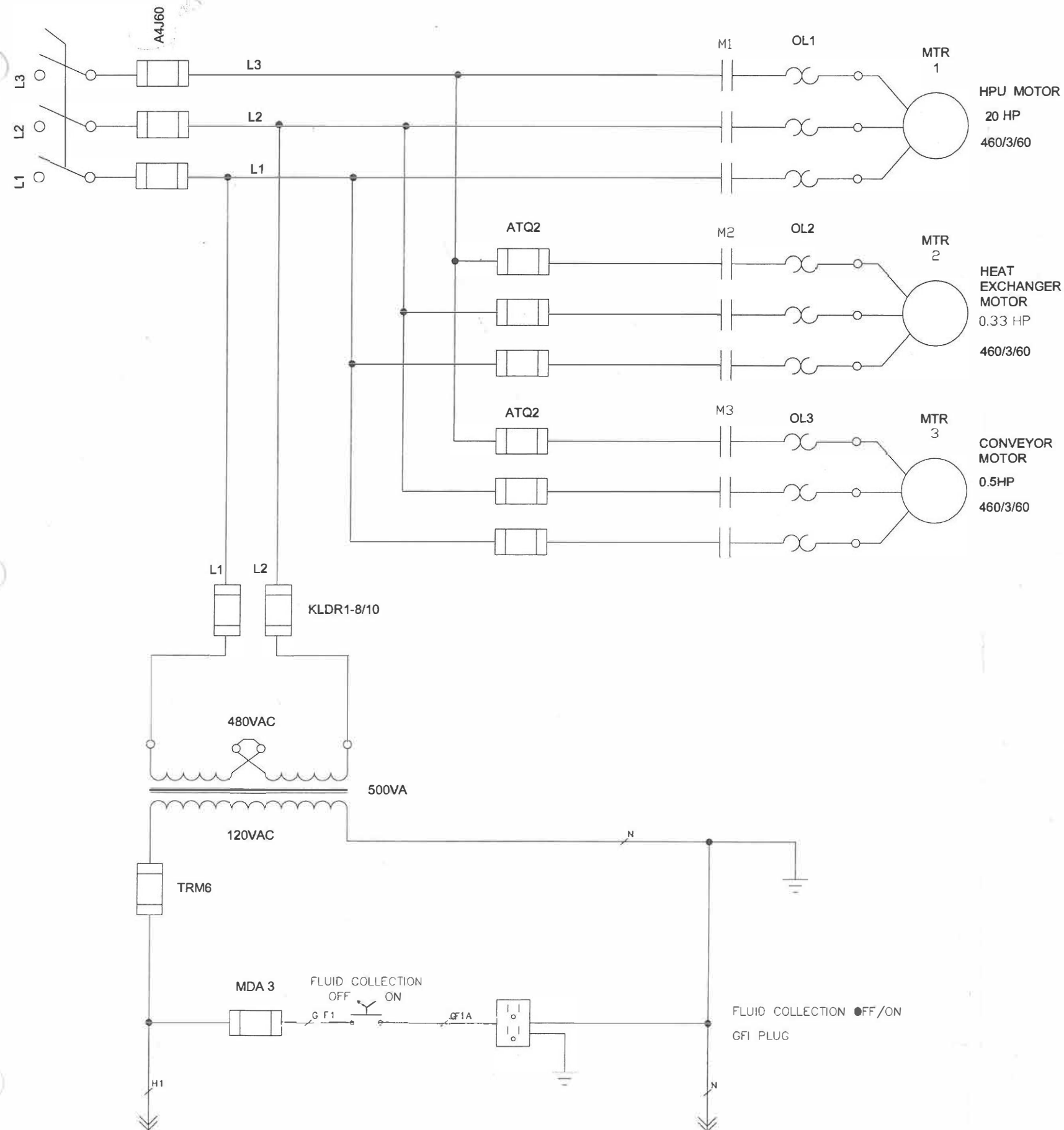
Retract Main Ram

Machine Idle

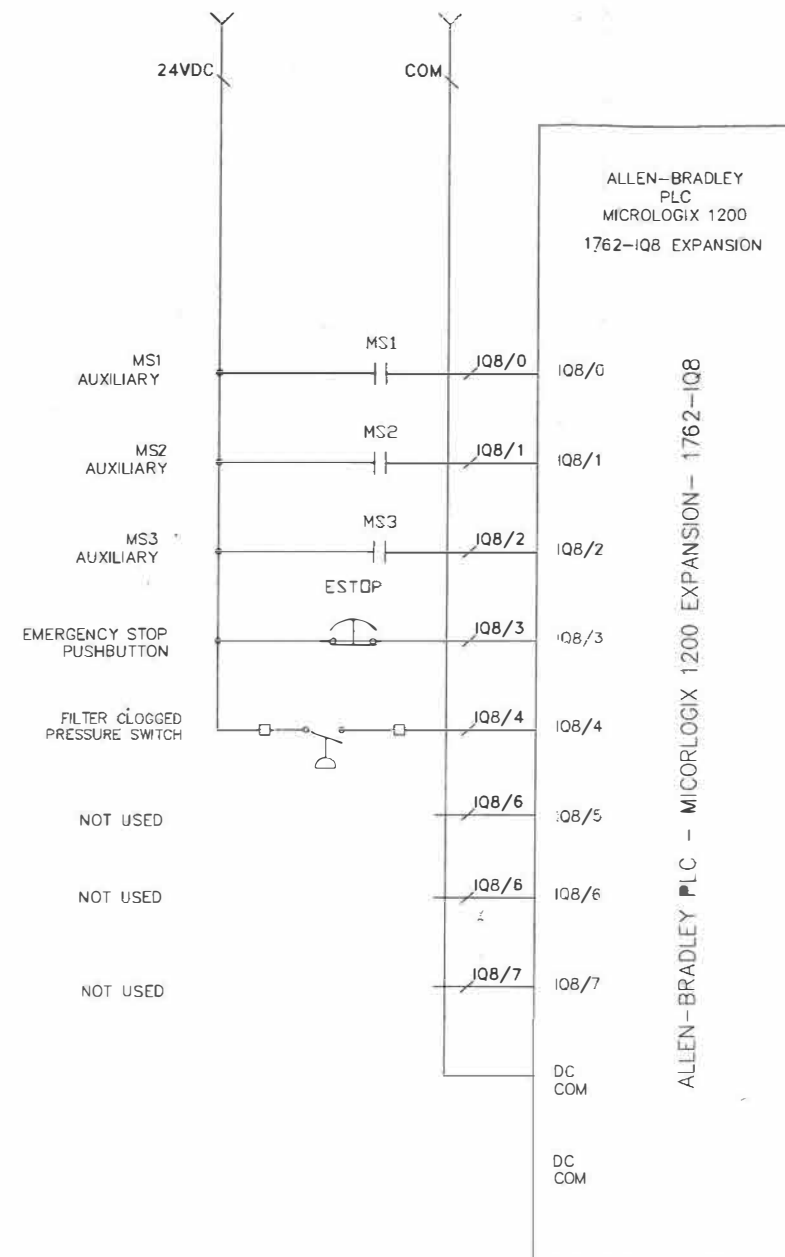
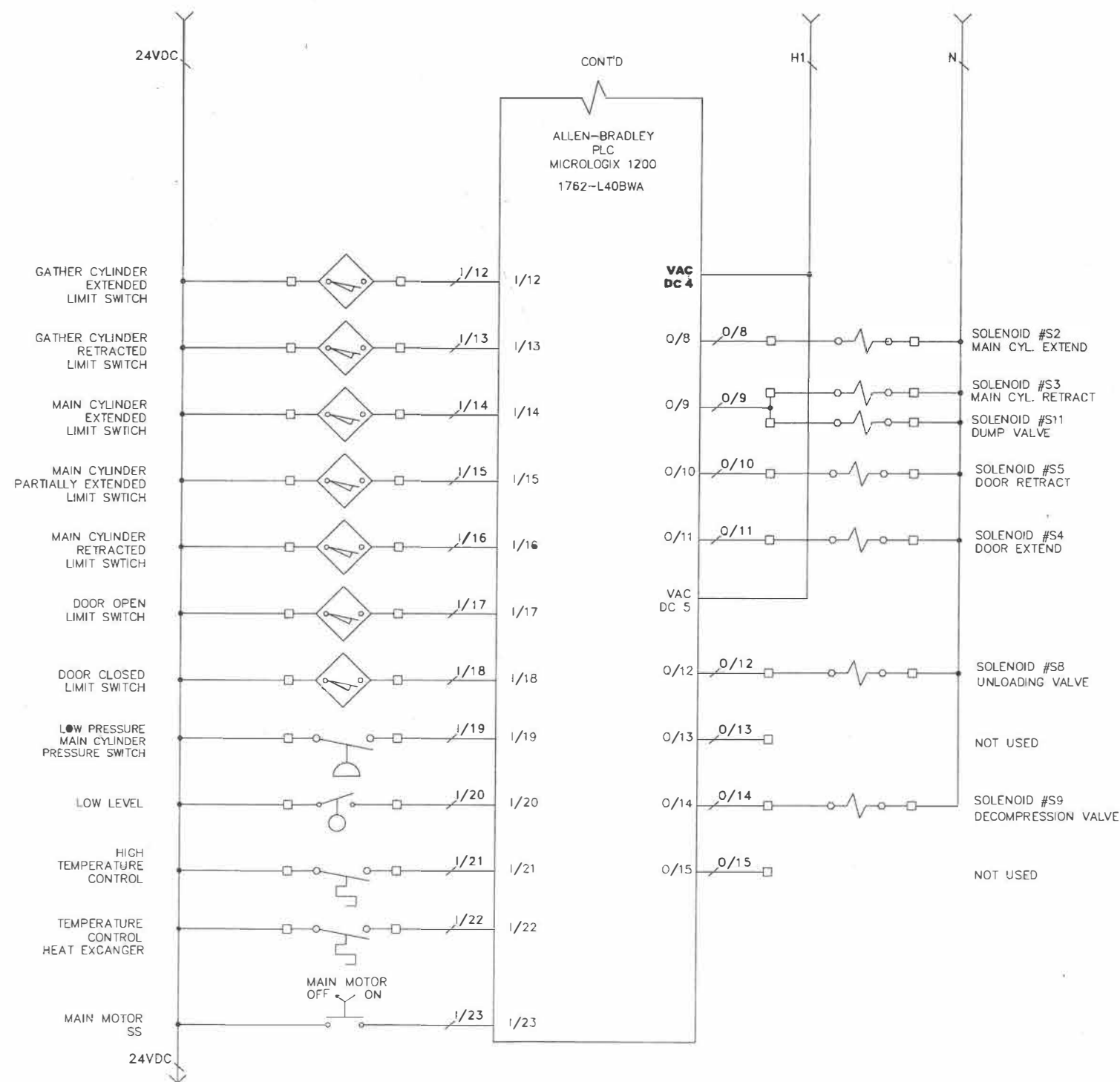
Legend X- Send Power to Solenoid

SIGNATURES		DATE		 SYSTEMS DIVISION 16301 Addison Road Addison, Texas 75001	
DRAWN OMOTA		08/02		APPLIED RECOVERY SYSTEMS "500"HPU - BOM - OPERATION	
CHECKED					
APPROVED					
NEXT ASSY.		SIZE B	FSCM NO	DWG NO 35-02040	REV A
CONTRACT NO.		SCALE		SHEET 2 OF 2	

PLC File name S001051



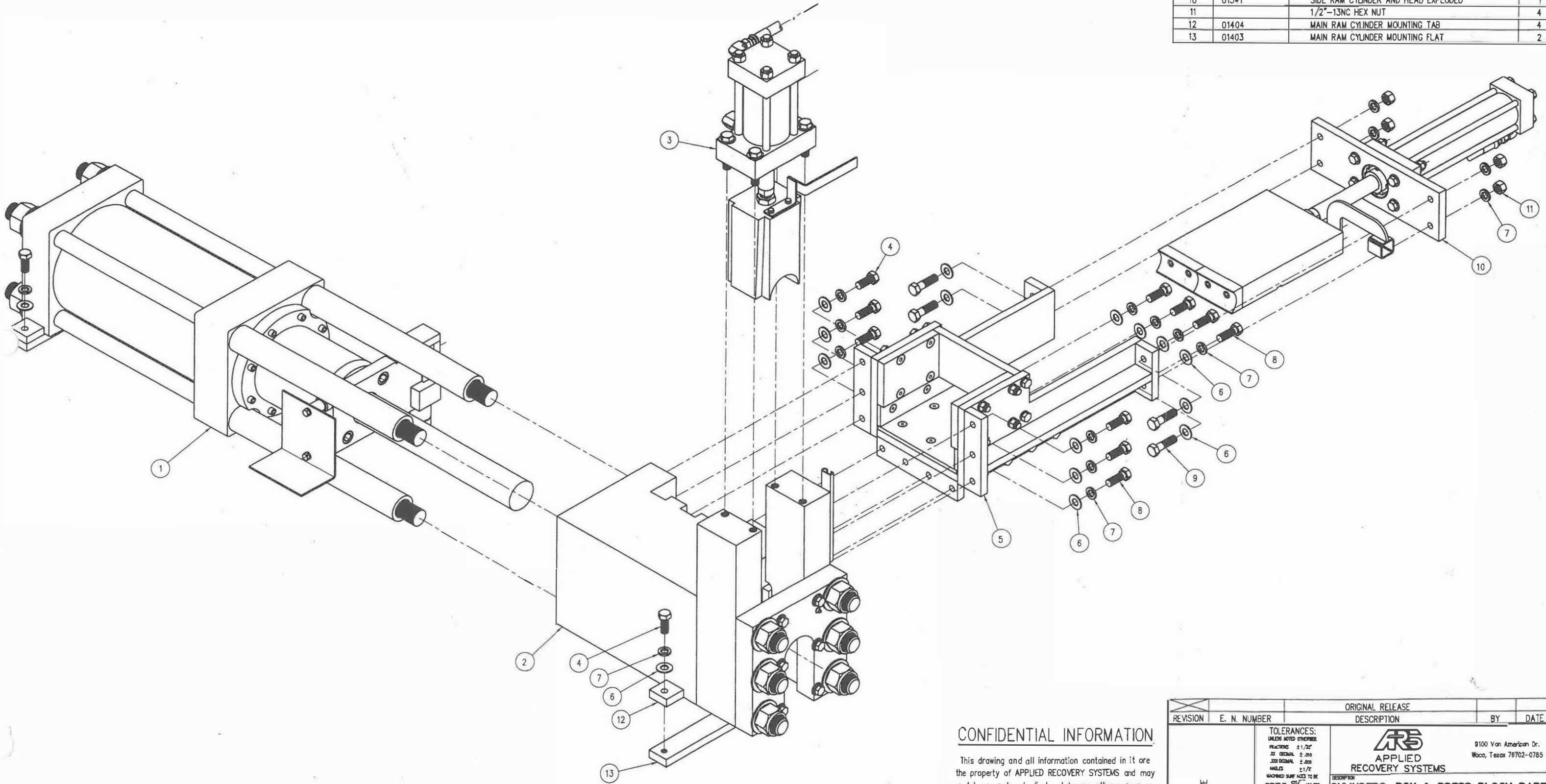
SIGNATURES		DATE	SYSTEMS DIVISION	
DRAWN	DMOTA	07/02	16301 Addison Road Addison, Texas 75001	
CHECKED			APPLIED RECOVERY SYSTEMS	
APPROVED				
NEXT ASSY.			SIZE	FSCM NO
CONTRACT NO.			B	
			SCALE	
			DWG NO	36-02040
			REV	B
			SHEET 1 OF 2	



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

SIGNATURES		DATE		SYSTEMS DIVISION	
DRAWN OMOTA		07/02		16301 Addison Road Addison, Texas 75001	
CHECKED				APPLIED RECOVERY SYSTEMS	
APPROVED					
NEXT ASSY.		SIZE B	FSCM NO	DWG NO	36-02040
CONTRACT NO.		SCALE		SHEET 2 OF 2	

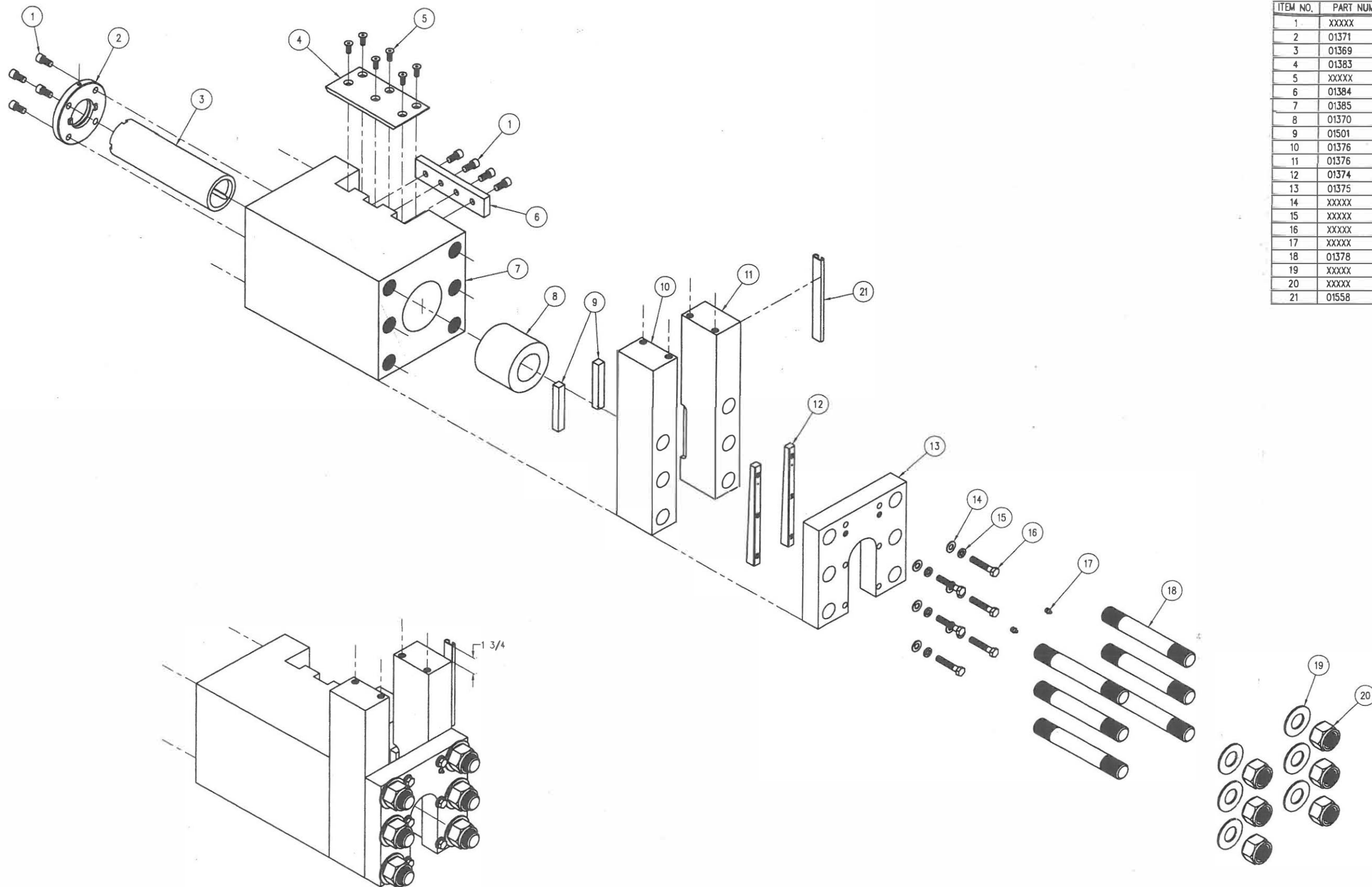
ITEM NO.	PART NUMBER	DESCRIPTION	NO. REQ'D
1	01548	MAIN RAM CYLINDER AND PARTS	1
2	01555	PRESS BLOCK AND PARTS	1
3	01554	DOOR CYLINDER, DOOR AND PARTS	1
4		1/2"-13NC X 1 1/2" LG. HEX HEAD CAP SCREW GR. 8	5
5	01562	SIDE RAM BOX PARTS	1
6		1/2" HARDENED FLAT WASHER	18
7		1/2" LOCK WASHER	18
8		1/2"-13NC X 1 3/4" LG. HEX HEAD CAP SCREW GR. 8	9
9		1/2"-13NC X 2 1/4" LG. HEX HEAD CAP SCREW GR. 8	4
10	01541	SIDE RAM CYLINDER AND HEAD EXPLODED	1
11		1/2"-13NC HEX NUT	4
12	01404	MAIN RAM CYLINDER MOUNTING TAB	4
13	01403	MAIN RAM CYLINDER MOUNTING FLAT	2



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REVISION		E. N. NUMBER		ORIGINAL RELEASE		DESCRIPTION		BY		DATE	
SEE ABOVE		TOLERANCES: UNLESS NOTED OTHERWISE FRACTIONS ±1/32" DECIMAL ±.010 ANGLES ±1/2° MACHINED SURFACES TO BE FINISHED TO UNLESS OTHERWISE SPECIFIED DO NOT SCALE REMOVE ALL SHARP EDGES									
		APPLIED RECOVERY SYSTEMS 9100 Van American Dr. Waco, Texas 76702-0785									
		CYLINDERS, BOX & PRESS BLOCK PARTS DRAWN BY DOSS DATE AUG. 30, 2000 SCALE 1" = 5" CHK. BY DATE APP'D BY DATE									
		01563									



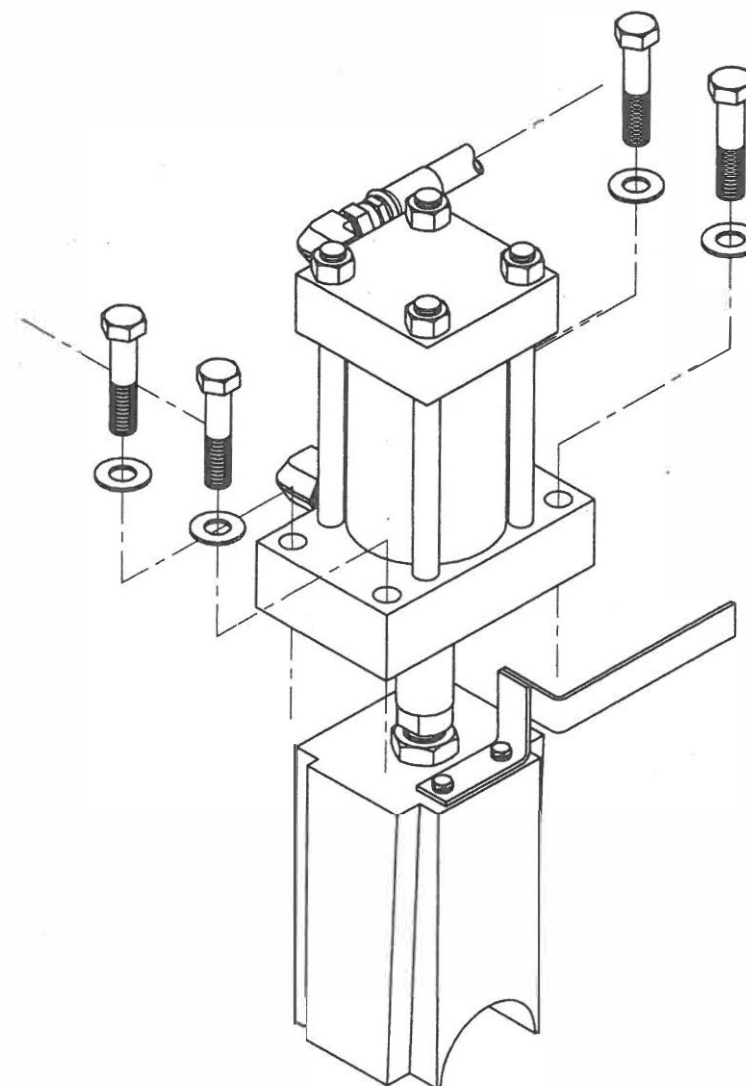
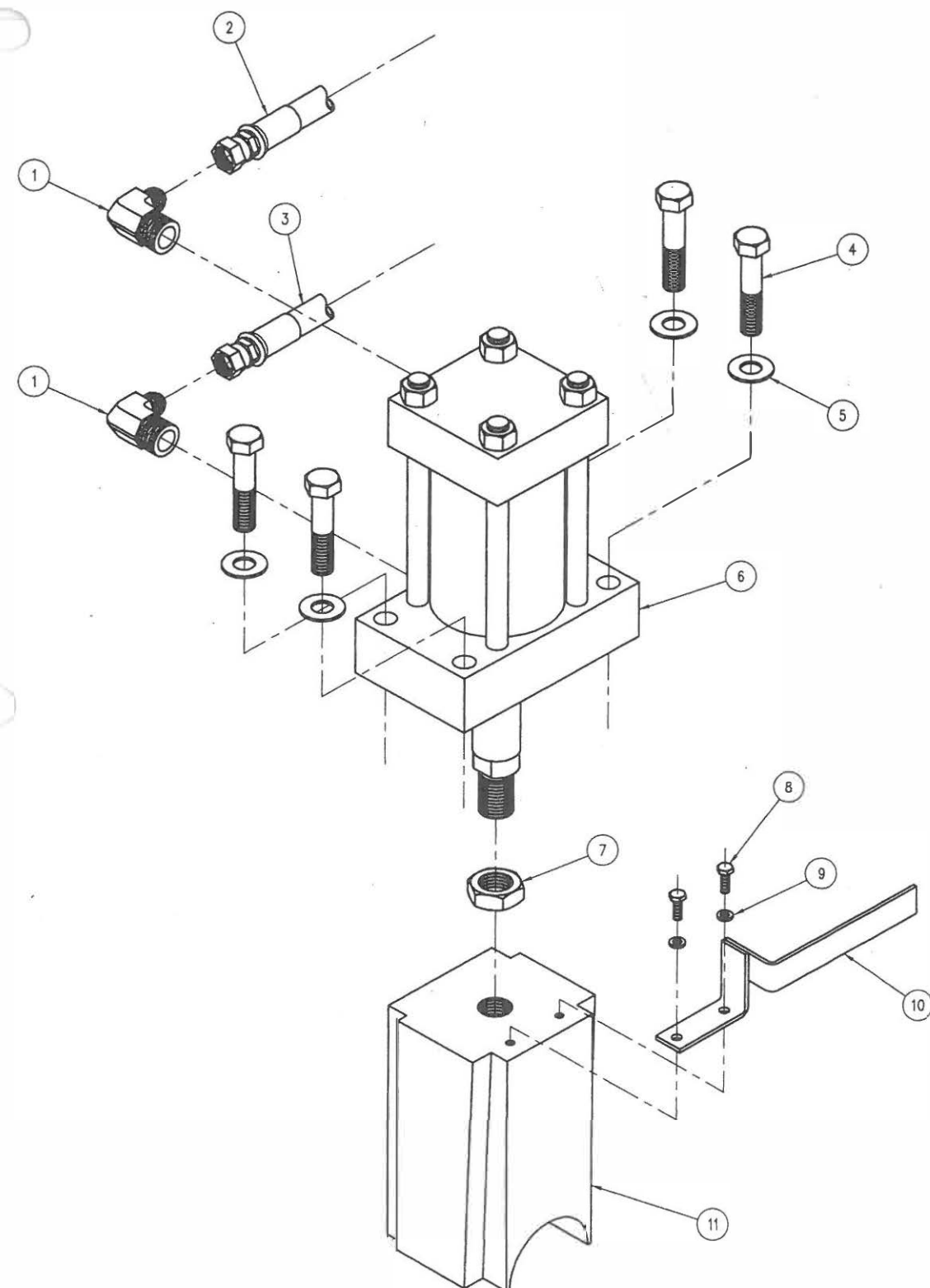
ITEM NO.	PART NUMBER	DESCRIPTION	NO. REQ.
1	XXXXX	1/2"-13NC X 1" LONG SOCKET HEAD CAP SCREW	8
2	01371	ROD OILER COLLAR	1
3	01369	SLOTTED BUSHING	1
4	01383	PRESS BLOCK WEAR PLATE	1
5	XXXXX	3/8"-16NC X 1" FLAT HEAD CAP SCREW	6
6	01384	PRESS BLOCK BLADE	1
7	01385	PRESS BLOCK	1
8	01370	PRESS BLOCK BUSHING	1
9	01501	KEEPER KEY	2
10	01376	RIGHT DOOR SPACER	1
11	01376	LEFT DOOR SPACER	1
12	01374	DOOR GUIDE	2
13	01375	DOOR BACKUP PLATE	1
14	XXXXX	1/2" HARDENED FLAT WASHER	6
15	XXXXX	1/2" LOCK WASHER	6
16	XXXXX	1/2"-13NC X 2 3/4" LONG HEX HEAD CAP SCREW GR. 8	6
17	XXXXX	1/8"-27NPT STR. GREASE FITTING	2
18	01378	DOOR STUD	6
19	XXXXX	1 1/2" HARDENED FLAT WASHER	6
20	XXXXX	1 1/2"-12NF NYLON HEX LOCK NUT	6
21	01558	9" LONG PROX SWITCH CHANNEL	1

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REVISION	XXXXX	ORIGINAL RELEASE	DOSS	XX
E. N. NUMBER		DESCRIPTION	BY	D/

TOLERANCES: UNLESS NOTED OTHERWISE FRACTIONS ±1/32" DECIMAL ±.010 HOLE DECIMAL ±.015 ANGLES ±1/2° MACHINED SURFACES TO BE FINISHED TO .005 UNLESS OTHERWISE SPECIFIED		APPLIED RECOVERY SYSTEMS PRESS BLOCK AND PARTS DATE: AUG 28 2000 SCALE: 1" = 6" DRAWING NO: 01555	
DO NOT SCALE	REMOVE ALL BURRS & SHARP EDGES	DATE	DATE

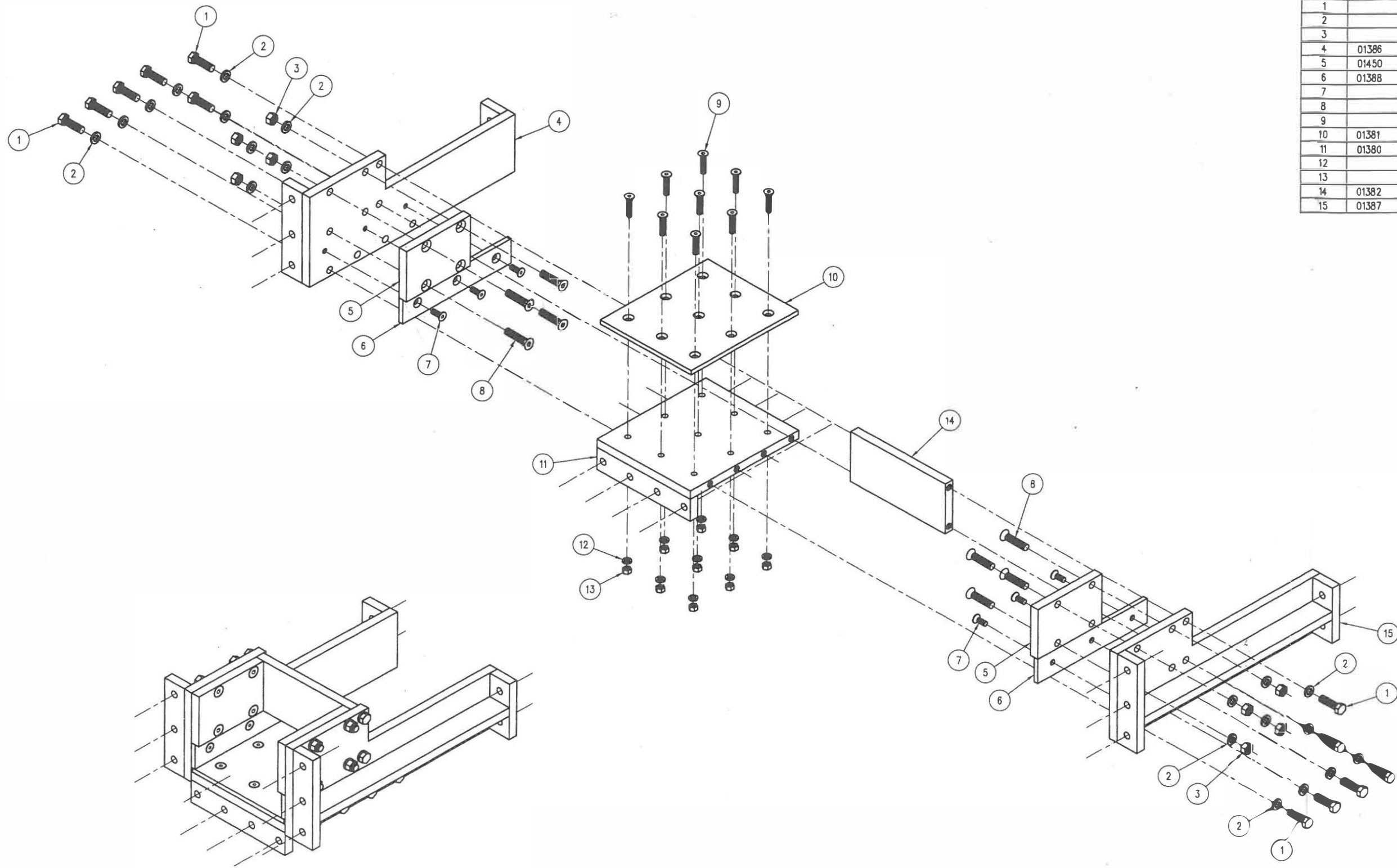


ITEM NO.	PART NUMBER	DESCRIPTION	NO. REQ'D
1		3/4" NPT MALE X 1/2" MALE TUBE 90° ELBOW	2
2		1/2" HOSE ASSEMBLY	1
3		1/2" HOSE ASSEMBLY	1
4		5/8"-11NC X 3" LONG HEX HEAD CAP SCREW GR. 8	4
5		5/8" HARDENED FLAT WASHER	4
6		DOOR CYLINDER FOR 500	1
7		1"-12NF HEX JAM NUT	1
8		1/4"-20NC X 3/4" LONG HEX HEAD CAP SCREW GR. 8	2
9		1/4" LOCK WASHER	2
10	01439	DOOR PROX SWITCH STRIKER	1
11	01377	DOOR	1

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REVISION		E. N. NUMBER		ORIGINAL RELEASE		DESCRIPTION		BY		DATE	
SEE ABOVE		TOLERANCES: UNLESS NOTED OTHERWISE FRACTIONS ± 1/32" DECIMAL ± .010 ANGLES ± 1/2° MACHINED SURFACES TO BE FINISHED TO 125 UNLESS OTHERWISE SPECIFIED DO NOT SCALE SHARP EDGES		 APPLIED RECOVERY SYSTEMS 9100 Van American Dr. Waco, Texas 76702-0785		DOOR CYLINDER, DOOR & PARTS DRAWN BY DOSS DATE AUG. 28, 2000 SCALE 1" = 3" CHECKED BY DATE APPROVED BY DATE DOWNSIDE NO. 01554					

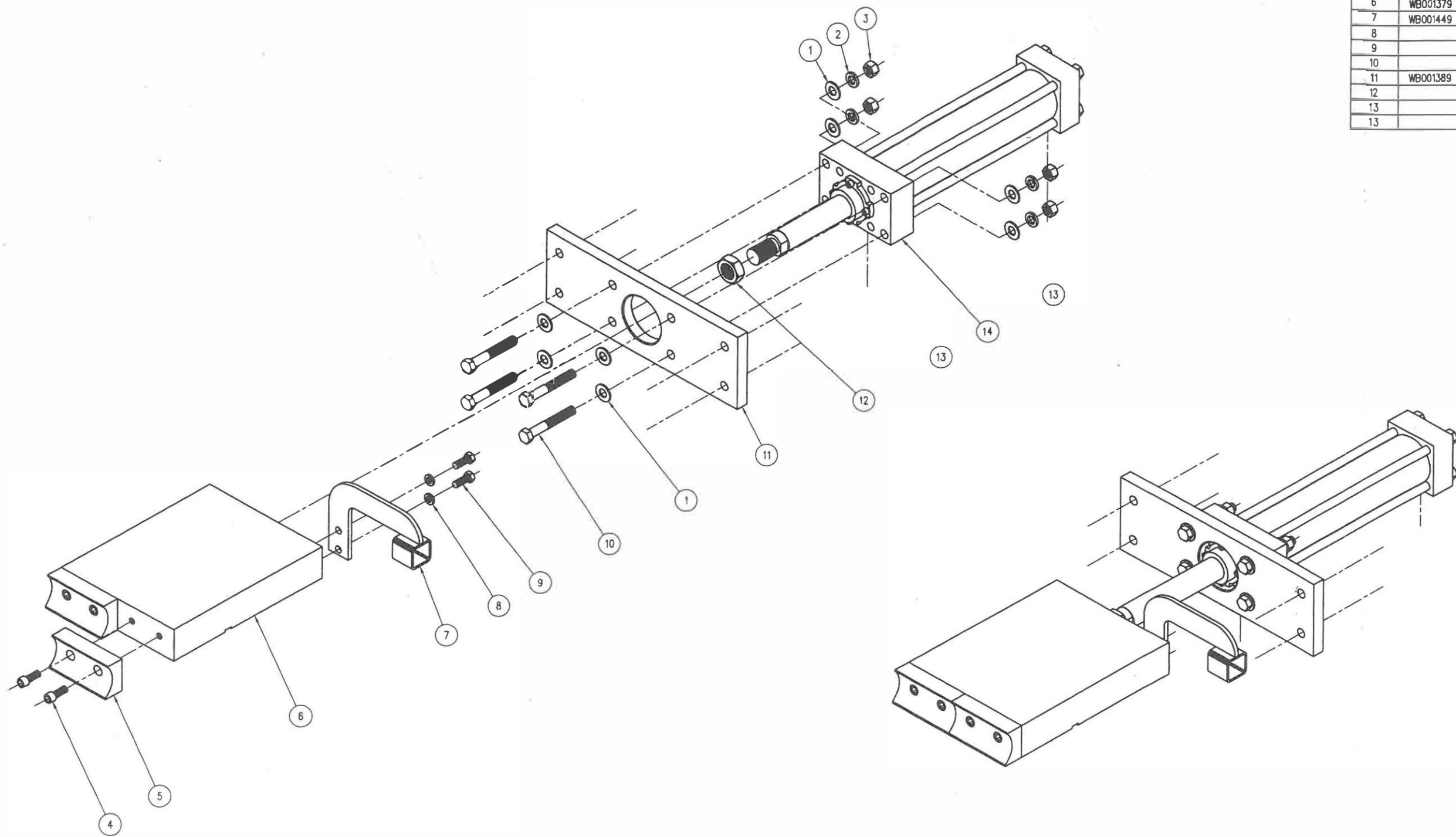


ITEM NO.	PART NUMBER	DESCRIPTION	NO. REQ'D
1		1/2"-13NC X 1 3/4" LG. HEX HEAD CAP SCREW GR. 8	12
2		1/2" LOCK WASHER	20
3		1/2"-13NC HEX NUT	8
4	01386	SIDE RAM BOX RIGHT SIDE	1
5	01450	SIDE RAM HOLD DOWN PLATE	2
6	01388	SIDE RAM BOX WEAR PLATE	2
7		3/8"-16NC X 1" LONG FLAT HEAD CAP SCREW	6
8		1/2"-13NC X 2 1/4" LONG FLAT HEAD CAP SCREW	8
9		3/8"-16NC X 1 3/4" LONG FLAT CAP SCREW	9
10	01381	FLOOR WEAR PLATE FOR SIDE RAM	1
11	01380	FLOOR FOR SIDE RAM	1
12		3/8" LOCK WASHER	9
13		3/8"-16NC HEX NUT	9
14	01382	CROSS BRACE FOR SIDE RAM	1
15	01387	SIDE RAM BOX LEFT SIDE	1

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REVISION		E. N. NUMBER		ORIGINAL RELEASE		DESCRIPTION		BY		DATE	
SEE ABOVE		TOLERANCES: UNLESS NOTED OTHERWISE FRACTIONS ± 1/32" DEC. DECIMAL ± .010 ANGLES ± 1/2° MACHINED SURFACES TO BE FINISHED TO .005" UNLESS OTHERWISE SPECIFIED DO NOT SCALE REMOVE ALL BURRS SHARP EDGES									
		APPLIED RECOVERY SYSTEMS 9100 Van American Dr. Waco, Texas 76702-0785									
		SIDE RAM BOX PARTS DATE AUG. 30, 2000 SCALE 1" = 5"									
		01582									

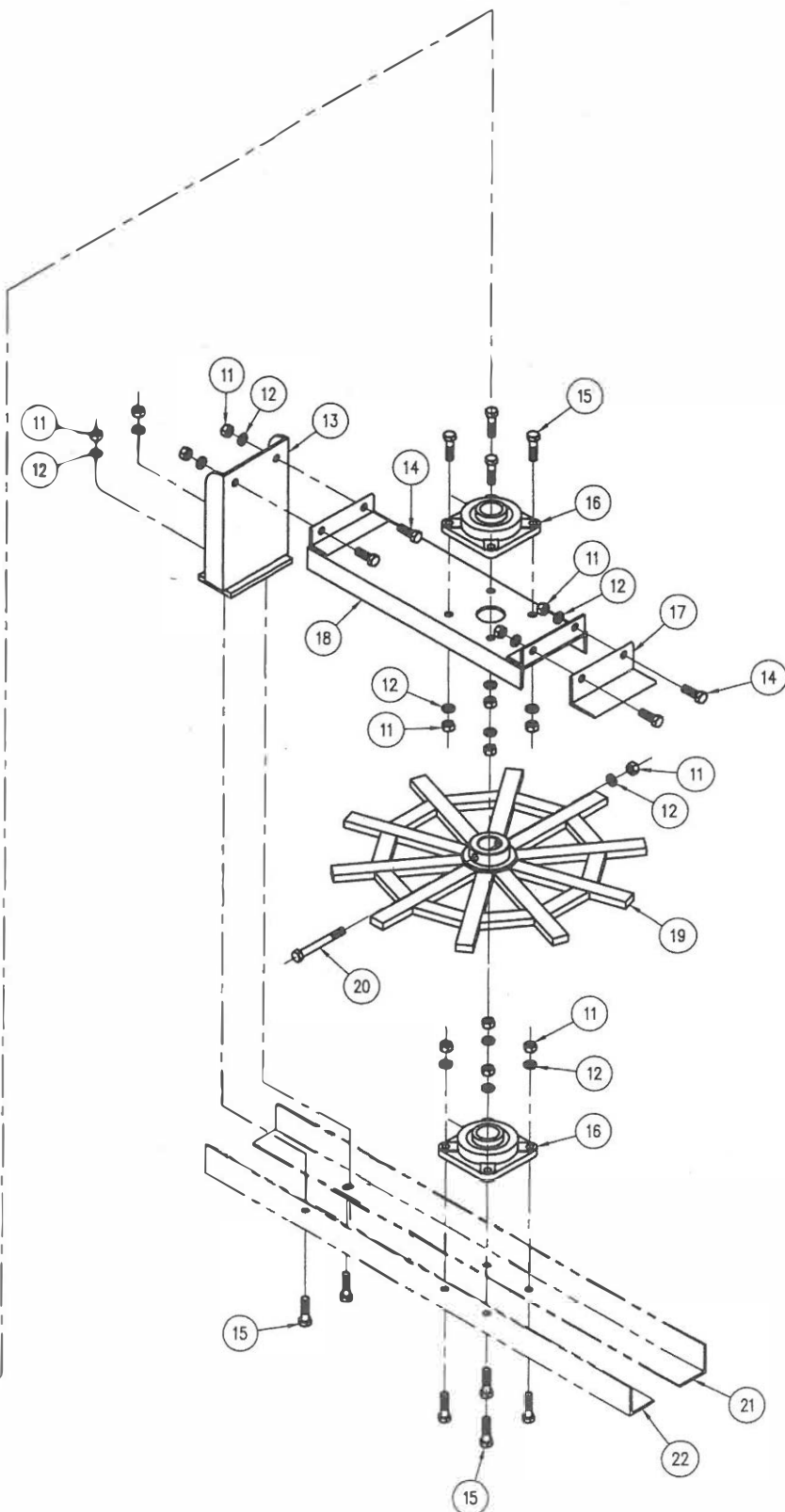
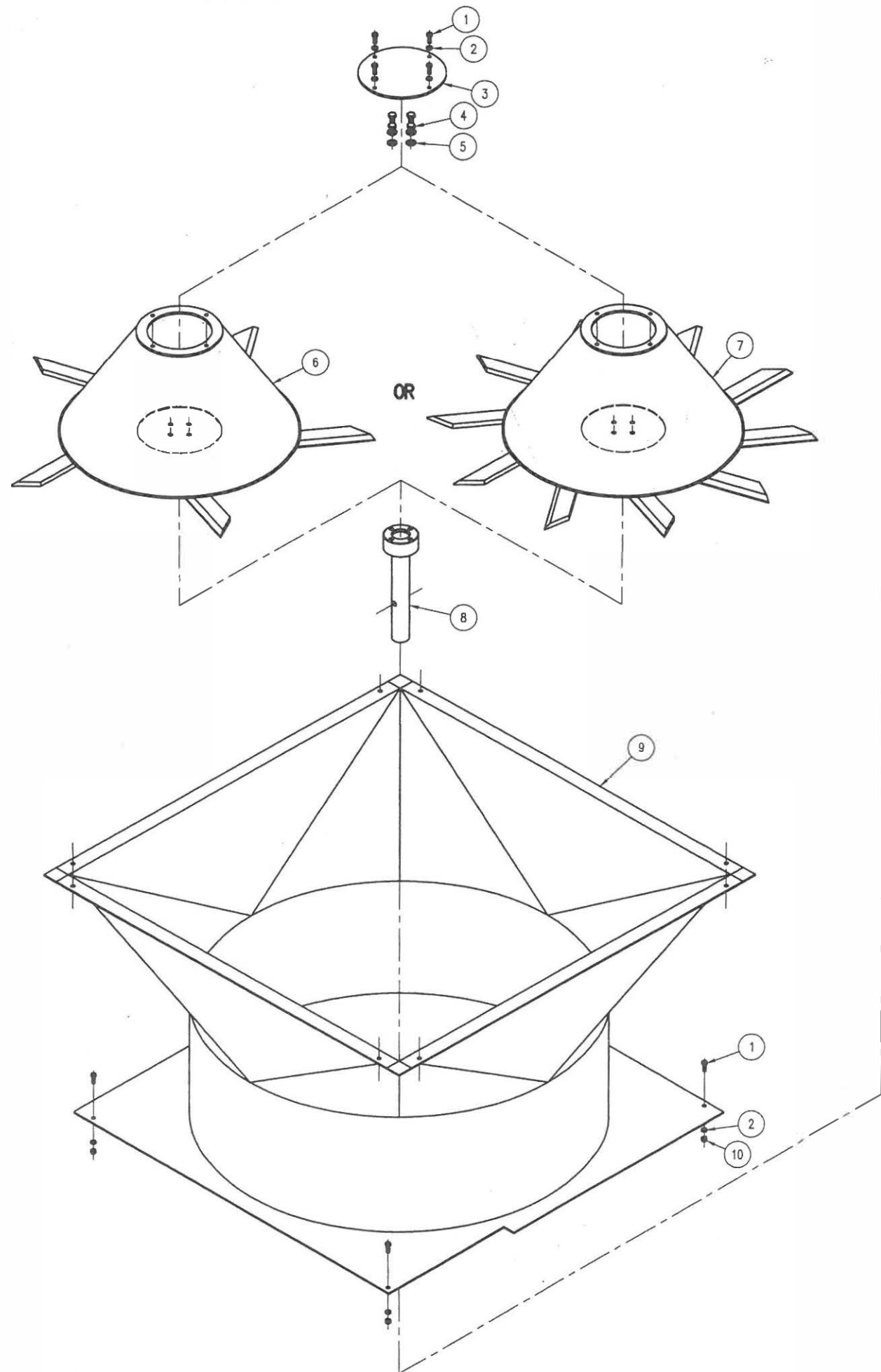


ITEM NO.	PART NUMBER	DESCRIPTION	NO. REQ'D
1		1/2" HARDENED FLAT WASHER	8
2		1/2" LOCK WASHER	4
3		1/2"-13NC HEX NUT GRADE 8	4
4		3/8"-16NC X 1" LONG SOCKET HEAD CAP SCREW	4
5	WB001366	SIDE RAM CURVED FACE PLATE	2
6	WB001379	SIDE RAM HEAD BLOCK	1
7	WB001449	SIDE RAM PROX SWITCH STRIKER ASSEMBLY	1
8		3/8" LOCK WASHER	2
9		3/8"-16NC X 1" LONG HEX HEAD CAP SCREW GRADE 8	2
10		1/2"-13NC X 3 1/2" LONG HEX HEAD CAP SCREW GRADE 8	4
11	WB001389	SIDE RAM CYLINDER MOUNTING FLAT	1
12		1"-12NF HEX JAM NUT GRADE 8	1
13		1/2" NPT MALE X 1/2" JIC MALE TUBE 90° ELBOW	2
13		2 1/2" BORE X 11" STROKE CYLINDER ASSEMBLY	1

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REVISION		E. N. NUMBER		ORIGINAL RELEASE		DESCRIPTION		BY		DATE	
TOLERANCES: UNLESS NOTED OTHERWISE FRACTIONS ±1/32" DECIMAL ±.010 ANGLES ±1/2° MACHINED SURFACES TO BE FINISHED TO .125" UNLESS OTHERWISE SPECIFIED DO NOT SCALE REMOVE ALL BURRS & SHARP EDGES				9100 Van American Dr. Waco, Texas 76702-0765 APPLIED RECOVERY SYSTEMS SIDE RAM CYLINDER & HEAD EXPLODED DRAWN BY DOSS DATE AUG. 20, 2000 SCALE NONE CHK. BY DATE APP'D BY DATE				DRAWING NO. 01541			



ITEM NO.	PART NUMBER	DESCRIPTION	NO. REQ'D
1		3/8"-16NC X 1" LONG HEX HEAD CAP SCREW GR. 8	8
2		3/8" LOCK WASHER	8
3	01400	AGITATOR TOP PLATE	1
4		1/2"-13NC X 1" LONG HEX HEAD CAP SCREW GR. 8	4
5		1/2" HARDENED FLAT WASHER	4
6	01517	AGITATOR WHEEL ASSEMBLY	1
7	01408	AGITATOR WHEEL ASSEMBLY	1
8	01393	ESCAPEMENT AND AGITATOR WHEEL SHAFT	1
9	01410	HOPPER ASSEMBLY	1
10		3/8"-16NC HEX NUT	4
11		5/8"-11NC HEX NUT	15
12		5/8" LOCK WASHER	15
13	01560	VERTICAL BEARING MOUNT ASSEMBLY	1
14		5/8"-11NC X 1 1/2" LONG HEX HEAD CAP SCREW GR. 8	4
15		5/8"-11NC X 2" LONG HEX HEAD CAP SCREW GR. 8	10
16		2" SQUARE FLANGE BEARING	2
17	01425	BEARING CHANNEL MOUNTING ANGLE	1
18	01561	AGITATOR BEARING MOUNTING CHANNEL ASSY	1
19	01397	ESCAPEMENT WHEEL WELDMENT	1
20		5/8"-11NC X 5" LONG HEX HEAD CAP SCREW GR. 8	1
21	01415	TUBING FRAME BEARING MOUNTING ANGLE NO. 1	REF
22	01416	TUBING FRAME BEARING MOUNTING ANGLE NO. 2	REF

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REVISION		E. N. NUMBER		ORIGINAL RELEASE		DESCRIPTION		BY		DATE	
SEE ABOVE		TOLERANCES: UNLESS NOTED OTHERWISE FRACTIONS ± 1/32" DECIMAL ± .010 ANGLES ± 1/2° UNLESS SPECIFIED DO NOT SCALE REMOVE ALL BURRS SHARP EDGES		9100 Van Amerongen Dr. Waco, Texas 76702-0785		APPLIED RECOVERY SYSTEMS HOPPER AND PARTS		DESIGNED BY DOSS DATE AUG. 29, 2000 SCALE 1" = 10"		DRAWING NO. 01559	
								CHECKED BY DATE		APPROVED BY DATE	