

**SAE CIRCUITS COLORADO, INC.
BOULDER, CO
MASTER EQUIPMENT LIST
REVISION: 04/13/10**

DESCRIPTION & LOCATIONS	EQUIPMENT NUMBER	MODEL NUMBER	SERIAL NUMBER	MANUFACTURER
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ADMINISTRATION & ACCOUNTING				
TYPEWRITERS				MISCELLANEOUS
PRINTERS				MISCELLANEOUS
FAX		OKIFAX 5600		OKIDATA
CIMNET PWB MANUFACTURING SOFTWARE SYS.				CIMNET
COPIER MACHINE		5328		XEROX
POSTAGE METER		SM26		NEOPOSIT
PAPER CUTTER				
COMPUTER SYSTEMS				MISCELLANEOUS
FAX		OKIFAX 1000		OKIFAX
COPIER MACHINE		AR405		SHARP
SALES				
OVERHEAD PROJECTOR		HORIZON		APPOLLO

LABORATORY				
LAB GENERAL EQUIP	06000			
BALANCE - DIGITAL	06004	VI-120	N/A	ACCULAB
BALANCE - ELECTRONIC	06008	SA 210D	7239	SCIENSTECH
SPECTROPHOTOMETER UV/VIS	06012	SPECTRONIC 21D	316A051002	BAUSCH & LAUMB
SPECTROPHOTOMETER	06016	SPECTRONIC 20		SPECTRONICS INSTRUMENTS
SPECTROPHOTOMETER A/A ATOMIC ABSORPTION	06022	210VGP	833	BUCK SCIENTIFIC
pH METER w/ATC	06024	59003-20	EP500/20277	COLE PARMER
THERMOMETER - DIGITAL		421305/7	307431	EXTECH
IONOGAPH (NEW 02/23/07)	06030	500M STD	138420	SPECIALTY COATING SYSTEMS
REFRACTOMETER	06032	10440	N/A	LEICA

VARI-SPD GRINDER/POLISHER	06049	952809	623MGV02089	BUEHLER META SERV 2000
150 MET LOW SPEED SAW (NEW 03/06/06)	06050	11-1180-160	397-IS 12077	BUEHLER
HULL CELL (DC POWER SUPPLY RECTIFIER)	06051	H43020		TEK POWER
METALOGRAPH WITH DIGITAL CAMERA	06052	UNIMET 50-1000X	8024	UNITRON
STIRRER/HOT PLATE	06056	SP 46925	N/A	BARNSTEAD/THERMOLYNE
EXHAUST BLOWER - FUME HOOD	06060			LABCONCO
SANDER/GRINDER 6" WHEEL/ 1" BELT	06068	6Y945		DAYTON
CROSS SECTION PUNCH	06072	118	1698 8 67	WHITNEY-JENSEN
AIR COMPRESSOR (NEW 12/27/06)	06076	1VW40		SPEEDAIRE - GRAINGER
WATER PURIFICATION SYSTEM	06080	MIDI CLASSIC	2U01130A004	PUREWATER
CROSS SECTION ROUTER		RZ-1	2821	Roto-Zip / Bosch Tool, Inc.)
UNITRON MICROSCOPE		MEC-7100		UNITRON

SHIPPING

SHIPPING GENERAL	08000			
VACUUM SEAL PACKAGING MACHINE	08001	EC-1824	2168	CHRISTOPHER INT'L INC.
COPIER		5312		XEROX
IMPULSE FOOT SEALER	08002	AIE-455FL	060819	AMERICAN INTERNATIONAL ELECTRIC INC.

ENGINEERING

ENGINEERING GENERAL	07000			
LAVENIR Software & Keys				

PHOTOPLOT

PHOTOPLOT GENERAL	09000			
PROCESSOR (APRIL 2010 INSTALLED)	09002-10	55 PRO	91172-0086	GLUNZ & JENSEN
DARK ROOM LIGHTS - OVERHEAD	09004			
DEHUMIDIFIER (IN STORAGE)	09005	WED 25 P2	JN 34203853	WHITE-WESTINGHOUSE
LASER PHOTOPLOTTER	09007	CRESCENT 40	609	BARCO
FILM LOADER	09008	ESCORT 30		BARCO
COMPUTER SYSTEM				INTEGRAPH
SILVER RECOVERY SYSTEM	09012			X-RITE
LAVENIR SOFTWARE				LAVENIR
FILM CUTTER 24"				
HYGROTHERMOGRAPH				SERDEX

DRILL

AIR DRYER	10001	MRA-0150-1-1	03-15-95-4841	WILKERSON
DRILL #5	10005	MARK 6 F208	6484	EXCELLON
DRILL #6	10006	MARK 6 E208	6242	EXCELLON

DRILL #8	10009	HVP	LB1142	EXCELLON
DRILL #9	10010	HVP	LB1148	EXCELLON
VACUUM 20hp	10007	SB 620 B	315353	SPENCER TURBINE
DRILL GENERAL	10008			
DEPINNER (2)				
PIN GAGES				MEYER
DIAL MICROMETERS				
EYE LOUPES				MISCELLANEOUS

MATERIAL CUT/RELEASE

STACKMASTER/PINNER	10203-07	802F	4740	BARNABY
SHEAR	10206	PH-52A	274-1279	PEXTO
V NOTCHER	10207	2AC31	05670.00	DAYTON
MAT/CUT GENERAL	10208			
OVEN #3	10209	333	16716	GRIEVE

ROUT/FAB/SCORE

AIR DRYER 4840 BLDG - MAINTENANCE ROOM	10100	80100	0321A-2-8404-0020N	HANKISON
ROUTER #1 4 SPINDLE	10101	MARK V	122	EXCELLON
ROUTER #2 3 SPINDLE	10102	XL-5	747	EXCELLON
VACUUM NSS (IN STORAGE)	10103	NSS		
VACUUM 15 HP	10104	S 292	304648	SPENCER TURBINE
VACUUM WET/DRY	10105	6 Z 770 C		DAYTON
HAND SHEAR 4840 BLDG	10106			DIARCO
ACCUSCORE	10108	AS-200-JM	97220049-AUU25	ACCUSCORE LABS
ROUT GENERAL	10109			
DRILL PRESS 8"	10110	#11-950	W9619	DELTA
ROUTER #7 4 SPINDLE (NEW 2006)	10111	MARK V	904	EXCELLON
ROUTER #3 4 SPINDLE (NEW 2006)	10112	MARK V	1026	EXCELLON
CHAMFER (OUT OF SERVICE - STORAGE)	10300	M102		BARNABY
BELT SANDER	10302			BALDOR
BOARD WASHER	10305	21-224	850801	TSC
BEVELER	10306	M202 SMALL	B-22-4	BARNABY
FAB GENERAL	10307			
BEVELER	10308	204 R	143	BARNABY
CALIPERS 12" & 18" DIGITAL				MITITUYO
CALIPERS 24" VERNIER				MITITUYO
V-SCORE CHECKER DIGITAL		TABLE TOP		ACCUSCORE LABS
PIN GAGE SETS				MEYER

MULTILAYER LAMINATION				
PRESS, COOLDOWN	10411	26"X30" -6-5 COOL	22270	TMP
WATER CHILLER	10412	RTS201	50404675	RITE-TEMP
HYDRAULIC VACUUM PRESS	10410	26"X30" -6-140	22269	TMP
HYDRAULICS/CONTROLS/VACUUM	10413	SAME AS NAME	22271	TMP
PORTABLE MANUAL LOADER with TRAYS	10414	SAME AS NAME	22272	TMP
LAY-UP TABLE WITH TOP PLATE LIFTER	10415	SAME AS NAME	22273	TMP
BREAKDOWN STATION WITH TOP PLATE LIFTER	10416	SAME AS NAME	22274	TMP
ROCK POLISHER	10406-A	140-B		TRU-SQUARE METAL PRO
ELECTRIC LIFT TABLE BATTERY	10406-B	BP 18-5	50472	PRESTO - ORANGE
ARBOR PRESS - DEPINNER	10406-C	3 B		GREENERD
ION BLOWER (STORAGE)	10406-D	CP 922/120 V	A90303	CHAS. WATER
AIR CONDITIONER (LAY-UP & PREPREG)+A218	10406-E			SIGNATURE 2000
HYDRAULIC FORK LIFT - BIG JOE	10406-G	21R68	80343	BIG JOE MAN CO.
ION BLOWER	10406-I	6412		ION SYSTEMS/ PRECISION SC Z/STAT
BLUE HYDRAULIC - MANUAL TABLE	10406-H	HT-10-2036	S52954	T & S EQUIPMENT (THROUGH GRAINGER)
M/L LAM GENERAL - (CAUL PLATES)	10407			CARBIDE PRODUCTS
BEVELMASTER	10409	83	1187	CARBIDE PRODUCTS
CALIPER 6"				MITITUYO
MICROMETERS - DEEP THROAT				MITITUYO

SOLDERMASK & LEGEND				
WATER TEMP CONTRO	20000			DELTA
ELEC. HOT WATER HEATER	20001	DHC-E30	182208-7846-000206	DELTA+E199
HYDROBLASTER & SCREEN CLEAN BOOTH	20002			HARRINGTON
OVEN #2 (BIG BLUE)	20004	SB-350	620001	GRIEVE
OVEN #4 (SMALL GRAY)	20005	333	16428	GRIEVE
DEVELOPER, VERTICAL	20006		20755	VCM, INC.
SCRUBBER	20007	21-424	891224	TSC
OVEN - CONVEYORIZED	20008	1827	00529	BASSI
EXPOSER 7KW	20009	MW-68 GW-20	31989	ORC
SCREEN TABLES PRINTMASTER (3)	20010-A			ELITE
SQUEEGE SHARPENER	20010-B			ADVANCE PROCESS SUPP.
PAINT SHAKER	20010-C	M232	015450	CYCLONE
TORNADO MIXER	20010-D	IM-10	53092	AWT WORLD TRADE INC.
EXPOSER FLIP-TOP	20011	FT26V3UP	KMC98-003	NUARC
LPI SOLDERMASK COATER	20012-09	SP1500-2X V3.3	51114	CIRCUIT AUTOMATION
OVEN #5 (SMALL BLUE)	20013	333	57846	GRIEVE
SCREEN GENERAL	20014			
OVEN #1 (BIG GRAY)	20015	40D-350MM	13607	PRECISION QUINCY

HYGROTHERMOGRAPH				OMEGA
CCI 2 Pump System	20003			Chemical Consiltants, Inc.

IMAGE & PHOTO				
WATER HEATER (IN-LINE) (DARK ROOM)	30002	PS16-5		ARISTON
FILM PUNCH	30003	83VMSA	540	SPARTANICS
HOT ROLL LAMINATOR #1	30005	HRL	1973+D189	DUPONT
TEKNEK PRECLEANER	30005-1	PC600DM300	9302	TEKNEK ELECELECTRONICS LTD. SCOTLAND, UK
INNER LAYER PUNCH #1 (IN STORAGE)	30007-1			J&D ENGINEERING
INNER LAYER PUNCH #2	30007-2			J&D ENGINEERING
HAND PUNCHES (TOOLING HOLES)	30007-3			GENERIC
FILM CUTTER	30007-4			GENERIC
INNER LAYER PUNCH #3	30007-5			J&D ENGINEERING
DEVELOPER	30008-09	W6141	ACO9109	IPS
TEKTROLLER	30009	AQ-80	970226080VA50000	SURFACE TEK
EXPOSER #1 (5KW)	30010	HMW-201B-5K-1	30471	ORC
EXPOSER #2 (5KW)	30011	HMW-201B-5K-2	34092	ORC
DRY DEVELOPER (STORAGE)	30012	6000	2826	TECHNIFAX
DRY DEVELOPER	30012-1	6000	3240	TECHNIFAX
LIGHT TABLE	30013-A			
MAG. HALO LIGHT	30013-C			
EXPOSER (FLIP-TOP)	30014	FT40V60UPKT	KTF95-002	NUARC
FILM COATER LAMINATOR (IN STORAGE)	30015	PROTECTOR JR.	PT-25-133	MTH (IN STORAGE)
FILM COATER LAMINATOR	30015-1	PROTECTOR JR.	PT-25-108	MTH
ION BLOWER	30016-1	4002612	V211832	SIMCO
ION BLOWER	30016-2	4002612	U202546	SIMCO
MICROKLEAN (IN STORAGE)	30018	MICROKLEAN 24	2494-1-007	SDI
HUMIDIFIER (PHOTO)	30019-A	MA 315		ADAMS/HUMIDAIRE
HUMIDIFIER (DRY-FILM)	30019-B	MA 315		ADAMS/HUMIDAIRE
HUMIDIFIER (PORTABLE)	30019-C	W-9		BIONAIRE
RECORDER (CHART)	30020	CT485RS	016323	WHITE BOX INC.
PHOTO GENERAL	30022			
DRY-FILM GENERAL	30023			
HOT ROLL LAMINATOR (IN STORAGE)	30024	HRL	2148	DUPONT
EXPOSER #3 (5KW)	30025	EXP 2805 (B 02)	42918	OAC/ORC
HOT ROLL LAMINATOR #2	30026	HRL	3009	ELECTROMATIC
TEKNEK PRECLEANER #2	30026-1	PC600 DT	9114	TEKNEK ELEC LTD. - SCOTLASD, UK
DENSITOMETER		339		X-RITE

HOT AIR SOLDER LEVEL

SOLDER LEVELER (VERTICAL)	40000-1	AVTEC 4000		AVALON
PRE-CLEAN LINE	40001	PC5520		ARGUS
POST-CLEAN LINE	40001-1	HL2420		ARGUS

WET PROCESSING

DEBURRER	40002 - 07	604		CHEMCUT (ADVANCED WEST)
DRYER (OXIDE)	40003-1	MOJAVE 24	3023	CHRISTOPHER
RESIST STRIP (OUTER LAYERS) (PURCH 07)	40004-07	547-XL		CHEMCUT (ADVANCED WEST)
CHEM CLEAN	40007-08	547-XLi		CHEMCUT (ADVANCED WEST)
ELECTROLESS COPPER LINE (AUTO) (NEW FEB 07)	40008	6034	DE 06003	IPS
ALTERNATIVE OXIDE LINE	40010			VCM INC.
WASTE TREATMENT	40011			
FILTRATOR (NORTH)	40014	CPF 24 FILTER	881202	TSC
AIRBLOWER - 3 PROCESSES- SILV-OXIDE-RELIA	40017	R2103		GAST
TABMASTER	40018			SELREX
TAPE PRESS	40018-A	WST I	103	WESTERN MAGNUM
PLATE SHOP GENERAL	40019			
TRENCHES (WASTE)	40019-A			GENERIC
RELIAVIA LINE (ELECTROLESS NI-IMMERSION AU)	40028-2	1000	NEW 12/06/06	CUSTOM
RELIAVIA DRYER	40028-1	24"	890727	TSC
EIDSHUN AUTO ELECTROPLATING LINE (NEW 04/01)	40030	MODEL E220		EIDSHUN
ETCHER (OUTER LAYERS)	40041-09	W6101	AF 08002	IPS - WESTERN TECHNOLOGY
TIN STRIP LINE	40044-09	W6101	AF 08002	IPS - WESTERN TECHNOLOGY
ETCHER (INNER LAYERS)	40048-09	W6100	AF 08001	IPS - WESTERN TECHNOLOGY
RESIST STRIP (INNER LAYERS)	40050-09	W6100	AF 08001	IPS - WESTERN TECHNOLOGY
SILVER IMMERSION	40082			
DRYER - SILVER	40083	MOJAVE 24	30057	CHRISTOPHER
CHILLER - EIDSHUN	40031	RTS201 AWC	505097220	RITE TEM CHILLER

MATERIAL HANDLING

FORKTRUCK - PROPANE	50001	GLP050TFNUAE084	E177B156684	YALE
ELECTRIC FORKLIFT	50002	MC305071	S205053	YALE
ELECTRIC FORKLIFT CHARGER	50002	YRC5-865	32724-YMK	YALE
MATERIAL HANDLING (GENERAL) / W-Carts	50003			
PALLETJACK - RED	50006	44X96		DAYTON (GRAINGER) NEW 10/20/06

QUALITY & TEST

ELECTRICAL TESTER #1 (MILE HIGH TEST)	60000	948	818	TRACE
ELECTRICAL TESTER #2 (MILE HIGH TEST)	60001	948	720	TRACE
CORDAX MEASUREMENT SYS. (CMM)	60002	1805MEA MP-4	C-5641	SHEFFIELD - GIDDINGS & LEWIS

TRACE WELDER WITH STEREO MICROSCOPE	60003	TX250	7807176	TEKEX
LIGHT TABLES & HALO LAMPS	60004			GENERIC
ET FAULT VERIFIER (MILE HIGH TEST)	60007	EPC 4400		EPC
QC GENERAL	60008			
COPPER MEASUREMENT SYSTEM NON-DESTRUCT	60010	MFx-M (MR-4000)	98729	CMI INT'L (SERVICE CONTRACT)
TIME DOMAIN REFLECTOMETER (TDR)	60012	CITS 500	013247	POLAR
ELECTROMIGRATION TESTER - DC POWER SUPPLY	60015 (STORAGE)	E3610A	KR72917947	HEWLETT PACK (STORAGE - RON'S CLOSET)
X-RAY REAL TIME (IN DRILL DEPT.)	60020	9906-549S	RTX-113	GLENBROOK TECHNOLOGIES
OVEN - LAB SIZE	60025			GRIEVE
X-RAY FLUORESCENCE (NEW MAR 2001)	60030	XRX S/N		CMI INT'L (SERVICE CONTRACT)
AUTOMATED OPTICAL TESTER (AOT) NEW 3/11/02	60040	EXCALIBUR 5000X ²	DC-LD1030260	LLOYD-DOYLE
CALIPERS 6" & 12" DIAL & DIGITAL				MITITUYO
MICROMETERS				MITITUYO
PIN GAGE SETS				MEYER
EYE LOUPES & HAND HELD SCOPES				PEAK
GRANITE SURFACE PLATE 18"X18"		538-2		
DUAL TABLE AOI (NEW 11/27/06)		TITAN T8000		MANIA

4840 BLDG. GENERAL

RTU-7 DRY-FILM ROOF TOP UNIT	80010	GCS1606012054	560SF01772	LENNOX NEW 08/2005
RTU-8 LUNCH ROOM ROOF TOP UNIT	80011	YSC090A3EHA2T00	7261015762	AMERICAN STANDARD
RTU-9 QA & MAINTENANCE ROOF TOP UNIT	80012-09	TGA090H2BM1Y	5609A07518	LENNOX
RTU-11 PLATE ROOF TOP UNIT	80013	QD122C	96-6923	IND. AIR SYSTEMS
RTU-15 LAB ROOF TOP UNIT	80014	RKKA-A036CL12E	1XG5289ADAAF319	RHEEM
RTU-12 HASL ROOF TOP UNIT	80015	HRPB175S2J	EAUB66H5N13004	REZNOR
RTU-10 SCREEN ROOF TOP UNIT	80016	TGA12052BH	5605D07552	LENNOX
RTU-16 OFFICES ROOF TOP UNIT	80017	RKKA-A036CL12E	1XG5289ADAAF319	RHEEM
RTU-14 AUTOPLATE ROOF TOP UNIT	80020-09	TGA090H2BM1Y	5609E04711	LENNOX
EX VENT 4840 BLDG	80021	VCB-1133-BD-PVC	N/A	VIRON
EX BLOW #C BASSI	80023	JOB 0843		CAT BLOWER
LAWN SPRINKLERS (4840 ELECT ROOM)	90001	RC-7A		RAINBIRD
4840 BLDG. GENERAL	90003			
G-D COMPRESSOR (STORAGE)		ECHQJD	MO5126	GARDNER DENVER
IR COMPRESSOR (4840 COMP SHED)	90007-09	IRN40-H-TASLV	BN14131U09194	INGERSOL-RAND (INSTALLED 10/14/09)
FIRE ALARM SYSTEM (4840 ELECT ROOM)	90010	6000		NAPCO

4820 BLDG. GENERAL

RTU-1 MAT/CUT ROOF TOP UNIT (STE 100)	80027	48DJE00500	0989G30041	CARRIER
RTU-2 DRILL ROOF TOP UNIT (STE 100)	80028	YSC120A3RH0000	527100411L	TRANE
RTU-4 ENG ROOF TOP UNIT (STE 100)	80029-09	48TCEA04A2A5A0B0A0	2409G40223 - 3 TON	CARRIER

RTU-6 OFF/CONF ROOF TOP UNIT (STE 100)	80030-09	48TCFA06A2A5A0A0A0	2609G60162 - 5 TON	CARRIER
RTU-5 PURCH OFFICE ROOF TOP UNIT (STE 100)	80031-09	48TCEA04A2A5A0B0A0	2409G40206 - 3 TON	CARRIER
EX BLOW #EX COMP ROOM (STE 100)	80032			
INTAKE ASSY #IN COMP ROOM (STE 100)	80033			
RTU-3 HAMTEK and Mile High Test (STE 102)	80034-09	48TCEA04A2A5A0B0A0	2409G40207 - 3 TON	CARRIER
RTU-7 EH OFFICE (STE 102)	80035-09	48TCEA04A2A5A0B0A0	2409G40205 - 3 TON	CARRIER
RTU-8 DAVE'S OFFICE (STE 102)	80036-09	48TCEA04A2A5A0B0A0	2409G40197 - 3 TON	CARRIER
RTU-9 BIG BAY AREA (STE 102)	80037-09	48TCFA07A2A5A0A0A0	5809G50320 - 6 TON	CARRIER
RTU-10 (STE 104)	80038-09	48TCEA04A2A5A0B0A0	2409G40192 - 3 TON	CARRIER
RTU-11 (STE 104)	80039-09	48TCEA04A2A5A0A0A0	1809G30203 - 3 TON	CARRIER
RTU-12 (STE 104)	80040-09	48TCEA04A2A5A0A0A0	1809G30200 - 3 TON	CARRIER
RTU-13 (STE 104)	80041-09	48TCEA04A2A5A0A0A0	1809G30202 - 3 TON	CARRIER
RTU-14 (STE 104)	80042-09	48TCEA04A2A5A0A0A0	1509G10277 - 3 TON	CARRIER
RTU-15 (GARAGE BAY - UH)	80043	?????	?????	LENNOX
LAWN SPRINKLERS (4820 BLDG)	90000			
4820 BLDG. GENERAL	90002			
G-D COMPRESSOR (IN STORAGE) (4820 BLDG)	90008	EDEQJH	U74788	GARDNER DENVER (IN STORAGE)
IR COMPRESSOR	90009	IRN 60H-CC	NV2375404349	INGERSOLL RAND

MISCELLANEOUS

FORD TRUCK	90011	F150 1998	1FTZF1723WKC21107	FORD MOTOR CO
CHEVROLET IMPALA	90013	IMPALA 2001		CHEVROLET
MAINT DEPT. & TOOLS	90020			
SAFETY & ENVIRONMENTAL	90050			
SNOW BLOWER		536.887992	9472635431P593	CRAFTSMAN
PC POWER SUPPLY (RECTIFIER) (STORAGE)			798228	RAPID

WASTE TREATMENT

AQUA GUARD W/W TREATMENT SYSTEM #1	40011A	SUPER 25	401104	OPTIMUM WATER TECH
AQUA GUARD W/W TREATMENT SYSTEM #2	40011B	SUPER 25	109106	OPTIMUM WATER TECH
CUPOSIT RECLAIM	40011D	1 & 2		SAE
ELECTROWIN	40011E			GENERIC SYSTEM
METAL BEARING PUMP ASSY	40011F			SAE
pH ADJUSTMENT ASSY	40011G			SAE
R.O. DEIONIZED WATER SYSTEM - NEW JUNE 2007	40011H	PFD-15		TRIONETICS
SCANAWAY FILTER	40011I			AINIAD FILTER SYTEMS
SLUDGE PRESS 470 SERIES	40011J	P470E138-2N	458	PACIFIC PRESS CO.
WATER REMEDIATION	40011K	1	1	