7.1 DESCRIPTION

The Scope Amplifier board contains the horizontal and vertical deflection amplifiers, the horizontal timebase generator, control circuitry for focus and intensity, and miscellaneous CRT bias adjustments.

The Scope Amplifier operates in an auto or normal mode. When a triggerable vertical signal is present, a sweep is developed in both auto and normal modes. When a triggerable signal is not present, the sweep is blanked in the normal mode and free-running in the auto mode. An external horizontal input is available at the front panel.

A block diagram of the Scope Amplifier board is shown in Figure 7-1, a schematic in Figure 7-2, and the printed wiring board assembly and parts list in Figure 7-3.

7.2 THEORY OF OPERATION

7.2.1 DEFLECTION AMPLIFIERS

The vertical and horizontal deflection amplifiers are identical. The input signal is initially amplified and split into two signals, 180 degrees out of phase. Each of these signals is then further amplified to become a CRT deflection-plate signal. The amplifiers provide 200V peak-to-peak signal capability with a frequency bandwidth of 1 MHz.

7.2.2 HORIZONTAL TIMEBASE GENERATOR

7.2.2.1 General

The horizontal timebase generator provides calibrated sweep rates over a six-decade range from 1 µsec to 100 msec per division. Sweep-rate selection originates from the processor via the signal lines for the SCOPE SWEEP CONTROL 0-3. Vernier control over the sweep rate is generated by the sweep-vernier voltage input from the front panel.

7.2.2.2 Ramp Generator

The ramp signal is developed using an integrator (U3) with a constant voltage. The sweep rate is determined by R5, R6, R7 and C3, C4, and C5. The combination of the RC network produces the six sweep rates.

7.2.2.3 Blanking and Trigger Hold-Off Circuitry

When the ramp voltage reaches +2.7V, the output

of U11B produces a blanking pulse which is used to short-circuit the ramp integrator and trigger the holdoff integrator (U5). The hold-off rate is determined by R19, C14, and C15. The combination of the RC network produces two hold-off times, one for msec and one for μ sec. When the hold-off ramp reaches +2.7V, the output of U11A short-circuits the hold-off integrator, and the sweep generator awaits a sweep trigger.

Sweep trigger is either in auto or normal mode as selected by the AUTO/NORMAL trigger-select via the front panel. In the normal mode, U11B is always disabled, thus keeping the blanking signal high and preventing the ramp from starting until a trigger pulse is present. In the auto mode, if the SYNC PRESENT input is high, indicating no sync, the scope sweep is self-triggered. If there is a sync, the sweep will wait for a pulse on the TRIG PULSE line to start the sweep.

NOTE

The entry of a scope trigger delay will prevent operation of scope triggering as long as the unit is set on "MODULATION, Tone Seq."

7.2.3 HORIZONTAL SWITCHING

The input to the horizontal deflection amplifier is selected between two sources. The first source is the INT HORIZ IN signal line, which provides the horizontal character sweep and the horizontal spectrumanalyzer sweep. The other source is the scope-mode signal path from the horizontal positioning-summing amplifier. The scope-mode signal is the output of either the horizontal timebase generator or the EXT HORIZ INPUT from the front panel. The SCOPE MODE EN line from the processor selects either internal horizontal or scope-mode horizontal inputs. The EXT HORIZ EN line selects one of the two scope-mode signals.

7.2.4 Z-AXIS MODULATOR

A crossover network provides CRT Z-AXIS modulation from dc to 1 MHz. A high-pass and low-pass network on the High-Voltage Power Supply board (A1) produces a crossover frequency of 16 Hz. The Z-AXIS modulator circuit is the high-frequency modulation path, 16 Hz to 1 MHz.

The resulting CRT Z-AXIS signal is capacitively coupled on the High-Voltage Power Supply board (A1) to the CRT grid. The low-frequency path, dc to 16 Hz, is through the intensity-control circuit.

7.2.5 INTENSITY CONTROL

The INTENSITY LEVEL signal from the front panel control is gated with the SCOPE Z-AXIS signal by the intensity-level gate (Q6). The gated signal is summed (U25) with the HIGH VOLTAGE REF and INTENSITY SAMPLE VOLTAGE signals, to provide the INTENSITY TRACKING VOLTAGE (TV) signal. The INTENSITY TV is the low-frequency control path which drives the intensity opto-isolator in the High-Voltage Supply.

7.2.6 FOCUS CONTROL

The FOCUS TRACKING VOLTAGE (TV) signal is obtained by comparing the FOCUS LEVEL control line to the FOCUS SAMPLE VOLT signal. The TV signal drives an opto-isolator circuit in the High-Voltage Supply which controls the CRT focus voltage.

7.2.7 ASTIGMATISM, GEOMETRY, AND TRACE ROTATION

The CRT alignment controls for astigmatism, geometry and trace rotation are obtained from the respective wipers of three potentiometers. Each potentiometer is connected between supply voltages equal to the required adjustment range.



SCOPE AMPLIFIER BOARD (A2)

(RTC-1005A) Figure 7-1. Block Diagram

.

SCOPE AMPLIFIER BOARD (A2)

(RTC-1005A) Figure 7-2a. Schematic (Sheet 1 of 2)

1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATIONS PREFIX WITH A2.

- 2. FOR REFERENCE DRAWINGS REFER TO 01-P22020E.
- 3. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE IN OHWS ± 5% PCT, 1/4 WATTS. ALL CAPACITORS ARE IN UF. ALL INDUCTORS ARE IN MH. ALL VOLTAGES ARE IN MH.
- 4. RESISTOR VALUE MAY BE SELECTED IN TEST, VALUE SHOWN IS NOMINAL

WARNING: STATIC-SENSITIVE PARTS HANDLE APPROPRIATELY

LAST USED	NOT USED
C109	27.35.48.49,50,51,55.57,60,69,80.
CR38	4,21,26,27,28
G37	
R190	817,18,38,44,63-69
	75,82-85,112,113,
	122,172
UZB	UE.UI5-U23.26
TPIO	



UZ4 LM324

U27 CASIBSE

UZ8 CABIOSE

U25 CA3240 3

4 11

8 4





.

SCOPE AMPLIFIER BOARD (A2)

(RTC-1005A) Figure 7-2b. Schematic (Sheet 2 of 2)



COMPONENTS AND COMPONENT SIDE TRACK SHOWN IN BLACK. SOLDER-SIDE TRACK SHOWN IN ORANGE

SCOPE AMPLIFIER BOARD (A2) RTC-1005A

SCOPE AMPLIFIER BOARD (A2)

(RTC-1005A) Figure 7-3. Printed Wiring Board Assembly

and Parts List

Find No.	Qty. Req.	Part No.	Nomenclature	Part Value
014	1	45-80339B28	CARD EJECTOR	
015	1	45-80339B35	CARD EJECTOR	MARKED
C 001	1	08-82789H01	CAPACITOR	.0022UF-5-50
C 002	1	21-80342809	CAPACITOR	.01UF-20-50
C 003	1	08-83445868	CAPACITOR	180PE 5 500
C 005	1	20-82399D07	CAPACITOR, VARIABLE	15-60PF
C 006	1	21-80342B10	CAPACITOR	.1UF-20-50
C 007	1	21-80342B10	CAPACITOR	.1UF-20-50
C 008	1	21-80342B10	CAPACITOR	1UF-20-50
C 009	1	21-80342B10 21 80342B10	CAPACITOR	1UF-20-50
C 011	1	21-80342B10	CAPACITOR	1UF-20-50
C 012	1	21-80342B10	CAPACITOR	.1UF-20-50
C 013	1	21-80342B10	CAPACITOR	.1UF-20-50
C 014	1	08-82096J08	CAPACITOR	.022UF-10-250
C 015	1	21-80339B26 21-80342B10	CAPACITOR	220PF-5-500
C 017	1	21-80342B10	CAPACITOR	1UF-20-50
C 018	1	21-80342B09	CAPACITOR	.01UF-20-50
C 019	1	21-80342B09	CAPACITOR	.01UF-20-50
C 020	1	21-80342B10	CAPACITOR	.1UF-20-50
C 021	1	21-80339816	CAPACITOR	51PF-5-500
C 022	1	21-80342B10	CAPACITOR	1UF-20-50
C 024	1	21-80342B10	CAPACITOR	.1UF-20-50
C 025	1	21-80369A94	CAPACITOR	150PF-5-500
C 026	1	21-80396A52	CAPACITOR, CERAMIC DISC	.01UF-20+80-200
C 028	1	21-80342B10	CAPACITOR	1UF-20-50
C 029	1	21-80342B10 21-80342B10	CAPACITOR	1UF-20-50
C 031	1	23-80341B15	CAPACITOR	10UF-20-50
C 032	1	23-80341B15	CAPACITOR	10UF-20-50
C 033	1	21-80342B09	CAPACITOR	.01UF-20-50
C 034	1	23-80341815	CAPACITOR	10UF-20-50
C 037	1	21-80396A52	CAPACITOR CERAMIC DISC	01UE-20+80-200
C 038	1	21-80396A52	CAPACITOR, CERAMIC DISC	.01UF-20+80-200
C 039	1	23-80341B15	CAPACITOR	10UF-20-50
C 040	1	23-80341B15	CAPACITOR	10UF-20-50
C 041	1	23-80341B17	CAPACITOR	22UF-20-50
C 042	1	21-80342B10 21-80342B10	CAPACITOR	1UE-20-50
C 044	1	21-80342809	CAPACITOR	.01UF-20-50
C 045	1	21-80342B13	CAPACITOR	.047UF-20-50
C 046	1	21-80396A52	CAPACITOR, CERAMIC DISC	.01UF-20 + 80-200
C 047	1	21-80396A52	CAPACITOR	.01UF-20+80-200
C 052	1	21-80396A52	CAPACITOR CERAMIC DISC	01UF-20+80-200
C 054	1	21-80396A52	CAPACITOR, CERAMIC DISC	.01UF-20+80-200
C 056	1	21-80342B10	CAPACITOR	.1UF-20-50
C 058	1	21-80342B09	CAPACITOR	.01UF-20-50
C 059	1	21-80342B09 21-80341B95	CAPACITOR	01UF-20-50
C 062	1	21-80342B09	CAPACITOR	.01UF-20-50
C 063	1	21-80396A52	CAPACITOR, CERAMIC DISC	.01UF-20+80-200
C 064	1	21-80396A52	CAPACITOR, CERAMIC DISC	.01UF-20+80-200
C 065	1	21-80396A52	CAPACITOR, CERAMIC DISC	.01UF-20+80-200
C 067	1	21-80396A52 21-80396A50	CAPACITOR MODIFIED	560PF-10-500
C 068	1	21-80396A50	CAPACITOR, MODIFIED	560PF-10-500
C 070	1	21-80342B09	CAPACITOR	.01UF-20-50
C 071	1	21-80396A52	CAPACITOR, CERAMIC DISC	.01UF-20+80-200
C 072	1	21-80396A52	CAPACITOR, CERAMIC DISC	.01UF-20+80-200
C 073	1	21-80396A52	CAPACITOR CERAMIC DISC	01UF-20+8C-200
C 075	1	21-80339B10	CAPACITOR	2PF5PF-500
C 076	1	21-80339B10	CAPACITOR	2PF5PF-500
C 077	1	21-80342B10	CAPACITOR	.1UF-20-50
C 078	1	21-80342B10 21-80342B10	CAPACITOR	1UE-20-50
C 081	1	21-80342B09	CAPACITOR	.01UF-20-50
C 082	1	21-80342B09	CAPACITOR	.01UF-20-50
C 084	1	21-80342B09	CAPACITOR	.01UF-20-50
C 086	1	21-80396A52	CAPACITOR, CERAMIC DISC	.01UF-20 + 80-200
C 08/	1	21-80396A52 21-80396A50	CAPACITOR, CERAMIC DISC	.010F-20 + 80-200 560PE-10-500
C 090	1	21-80396A50	CAPACITOR.MODIFIED	560PF-10-500
C 091	1	21-80341B95	CAPACITOR	.01UF-20-100
C 092	1	21-80342B09	CAPACITOR	.01UF-20-50
C 094	1	21-80396A52	CAPACITOR, CERAMIC DISC	.01UF-20 + 80-200
C 095	1	21-80396A52 21-80396A50	CAPACITOR, CERAMIC DISC	560PF-10-500
C 098	1	21-80396A50	CAPACITOR, MODIFIED	560PF-10-500

SCOPE AMPLIFIER BOARD (A2) (Cont) RTC-1005A

Find No.	Qty. Req.	Part No.	Nomenclature	Part Value	Find No.	Qty. Req.	Part No.	Nomenclature	Part Value	Find No.	Qty. Req.	Part No.
099		21-80396450	CAPACITOR MODIFIED	560PF-10-500	R 009	1	06-10621C82	RESISTOR	8.06K-1-1/4		1	06-10621B62
C 100	1	21-80396A50	CAPACITOR,MODIFIED	560PF-10-500	R 010	1	06-10621C60	RESISTOR	4.75K-1-1/4	R 111	1	06-10621C24
C 101	1	21-80339B10	CAPACITOR	2PF5PF-500	R 011	1	18-83452F11	RESISTOR, VARIABLE	5K	R 114	1	06-10621C35
0 102	1	21-80339B10	CAPACITOR	2PF- 5PF-500	R 012	1	06-11009C86	RESISTOR	36K-5-1/4	R 116	1	06-10621A01
C 107	1	21-80342B09	CAPACITOR	.01UF-20-50	R 013	1	06-11009D04	RESISTOR	180K-5-1/4	R 117	1	06-10621A01
0 108	1	21-80342B91	CAPACITOR	1UF-20-100 22000F5 20 100	R 014	1	06-11009089	RESISTOR	4/K-3-1/4 10K 5 1/4	H 118	1	06 10621862
2 109	1	21-80341899	CAPACITOR	10PE 5PE 500	R 015	1	06-11009073	RESISTOR	10K-5-1/4	B 120	1	06-10621063
CR001	1	48-80345A85	DIODE ZENER	75V-55	R 019	1	06-11009C95	RESISTOR	82K-5-1/4	R 121	1	06-10621C91
CR002	1	48-84463K02	DIODE		R 020	1	06-11009C65	RESISTOR	4.7K-5-1/4	R 122	1	06-10621C91
CR003	1	48-80345A95	DIODE		R 021	1	06-11009C49	RESISTOR	1K-5-1/4	R 123	1	06-10621C19
CR005	1	48-84463K02	DIODE		R 022	1	06-11009C73	RESISTOR	10K-5-1/4	R 124	1	06-10621C19
CR006	1	48-84463K02	DIODE		R 023	1	06-11009073	RESISTOR	10K-5-1/4	R 125	1	06-10621068
CR007	1	48-84463KU2	DIODE		R 024	1	06-10621079	RESISTOR	7.5K-1-1/4 3.92K-1-1/4	R 120	S01	06-10621033
CR000	1	48-80345482		33V-5- 5	B 026	1	06-11009C65	RESISTOR	4.7K-5-1/4	R 126	S01	06-10621C35
CR010	1	48-80345A83	DIODEZENER	39V-55	R 027	1	06-11009C65	RESISTOR	4.7K-5-1/4	R 126	S01	06-10621C39
CR011	1	48-80345A83	DIODE, ZENER	39V-55	R 028	1	06-11009C43	RESISTOR	560-5-1/4	R 126	S01	06-10621C42
CR012	1	48-80345A84	DIODE,ZENER	68V-55	R 029	1	06-11009C73	RESISTOR	10K-5-1/4	R 126	S01	06-10621C43
CR013	1	48-84463K02	DIODE		R 030	1	06-11009C73	RESISTOR	10K-5-1/4	R 126	1	06-10621C47
CR014	1	48-80345A82	DIODE,ZENER	33V-55	R 031	1	06-11009C25	RESISTOR	100-5-1/4	R 126	501	06-10621051
R015	1	48-80345A83		397-2-2	R 032	1	18-83452F17	RESISTOR VARIABLE	50K	R 120 R 126	S01	06-10621056
B017	1	48-80345484		68V-55	R 034	1	06-11009C73	RESISTOR	10K-5-1/4	R 126	S01	06-10621C63
R018	1	48-84463K02	DIODE		R 035	1	06-11009C73	RESISTOR	10K-5-1/4	R 127	1	06-10621C35
R019	1	48-80345A82	DIODE,ZENER	33V-55	R 036	1	06-11009C73	RESISTOR	10K-5-1/4	R 129	1	06-10621A01
R020	1	48-80345A83	DIODE,ZENER	39V-55	R 037	1	06-11009C73	RESISTOR	10K-5-1/4	R 130	1	06-10621A01
R022	1	48-80345A83	DIODE,ZENER	39V-55	R 039	1	06-11009C97	RESISTOR	100K-5-1/4	R 131	1	06-10621B62
R023	1	48-84463K02	DIODE	221/ 5 5	R 040	1	06-11009C61	RESISTOR	3.3K-5-1/4	R 132	1	06-10621059
R024	1	48-80345482		391/-5-5	R 041	1	06-10621C67	BESISTOR	5 62K-1-1/4	R 134	1	06-10621C91
CR023	1	48-80345483	DIODE ZENER	39V-5-5	R 043	i	06-10621C31	RESISTOR	2.37K-1-1/4	R 135	1	06-10621C91
R030	1	48-80345A84	DIODE,ZENER	68V-55	R 045	1	06-11009C70	RESISTOR	7.5K-5-1/4	R 136	1	06-10621C19
R031	1	48-80345A84	DIODE,ZENER	68V-55	R 046	1	06-10621E17	RESISTOR	196K-1-1/4	R 137	1	06-10621C19
R032	1	48-84463K02	DIODE		R 047	1	06-10621D14	RESISTOR	16.9K-1-1/4	R 138	1	06-10621D68
R033	1	48-84463K02	DIODE		H 048	1	06-11009C73	RESISTOR	10K-5-1/4	R 139	501	06-10621055
H034	1	48-84463K02	DIODE		R 049 R 050	1	06-11009029	RESISTOR	8 2K-5-1/4	R 139 R 139	501	06-10621031
8036	1	40-04403KU2 48-84463K02	DIODE		R 050	1	06-11009C70	RESISTOR	7.5K-5-1/4	R 139	S01	06-10621C39
R037	i	48-84463K02	DIODE		R 052	1	06-10621E17	RESISTOR	196K-1-1/4	R 139	S01	06-10621C42
CR038	1	48-84463K02	DIODE		R 053	1	06-10621D14	RESISTOR	16.9K-1-1/4	R 139	S01	06-10621C43
001 (1	48-80340B87	TRANSISTOR	MPSD01	R 054	1	06-11009C73	RESISTOR	10K-5-1/4	R 139	1	06-10621C47
1002	1	48-80345A51	TRANSISTOR		R 055	1	06-11009C29	RESISTOR	150-5-1/4	R 139	S01	06-10621C51
1003	1	48-80345A51	TRANSISTOR		H 056	1	06-11009071	RESISTOR	8.2K-3-1/4 6.24K 1 1/4	H 139	501	06-10621058
2 004	1	48-80345452	TRANSISTOR		R 058	1	06-10621012	BESISTOR	1 47K-1-1/4	R 139	S01	06-10621053
2 005	1	48-80340B85	TRANSISTOR	MPS6519	R 059	1	06-11009C25	RESISTOR	100-5-1/4	R 140	1	06-10621B82
007 (1	48-80340B85	TRANSISTOR	MPS6519	R 060	1	06-11009C65	RESISTOR	4.7K-5-1/4	R 141	1	06-10621B82
2008	1	48-80340B85	TRANSISTOR	MPS6519	R 061	1	06-11009C49	RESISTOR	1K-5-1/4	R 142	1	06-10621B94
1 009 I	1	48-80345A51	TRANSISTOR		R 062	1	18-83452F07	RESISTOR.VARIABLE	500	R 143	1	06-10621B94
2010	1	48-80345A51	TRANSISTOR	1000500	R 070	1	06-11009D14	RESISTOR	4/0K-5-1/4	R 144	1	18-83452F11
1011	1	48-80340886	TRANSISTOR	MPS0520	R 0/1	1	06-11009006	RESISTOR	220R-5-1/4 470K-5-1/4	H 145 D 146	1	06 10621870
1012	1	48-80341440	TRANSISTOR	MPS-UID SCREENED	B 074	1	06-10621D52	RESISTOR	42.2K-1-1/4	R 140 R 147	1	06-10621A85
2014	1	48-80345A51	TRANSISTOR	AN G-GTO GOMEENED	R 075	1	06-11009C89	RESISTOR	47K-5-1/4	R 148	1	06-10621A85
015	1	48-80345A51	TRANSISTOR		R 076	1	06-00124B26	RESISTOR	1.5M-5-1/4	R 149	1	06-10621C07
016	1	48-80340B86	TRANSISTOR	MPS6520	R 077	1	06-10621E85	RESISTOR	1M-1-1/4	R 150	1	06-10621C07
017	1	48-80341A48	TRANSISTOR	MPS-U60 SCREENED	R 078	1	06-10621E85	RESISTOR	1M-1-1/4	R 151	1	06-11009C49
018	1	48-80341A47	TRANSISTOR	MPS-U10 SCREENED	H U/9	1	06-10021036	RESISTOR	20./K-1-1/4 470K-5 1/4	R 152	1	06-11009073
019	1	48-80340885	TRANSISTOR	MPS0519	R 081	1	06-11009014	RESISTOR	1 5K-5-1/4	R 153	1	18-83452E09
) 020	1	48-80345451	TRANSISTOR	WI 30313	R 086	1	06-11009C49	RESISTOR	1K-5-1/4	R 155	1	06-11009C65
022	1	48-80345A51	TRANSISTOR		R 087	1	06-11009C25	RESISTOR	100-5-1/4	R 156	1	06-10621B62
023	1	48-80340B86	TRANSISTOR	MPS6520	R 088	1	18-83452F01	RESISTOR, VARIABLE	2K	R 157	1	06-10621C24
024	1	48-80341A48	TRANSISTOR	MPS-U60 SCREENED	R 089	1	06-11009C25	RESISTOR	100-5-1/4	R 158	1	06-10621C24
025	1	48-80341A47	TRANSISTOR	MPS-U10 SCREENED	R 090	1	06-11009C89	RESISTOR	47K-5-1/4	R 159	1	06-10621B62
026	1	48-80345A51	TRANSISTOR		R 091	1	18-83452F23	RESISTOR,VARIABLE	500K	R 160	1	06-10621C35
027	1	48-80345A51	TRANSISTOR	MDS6520	R 092	1	06-11009089	RESISTOR	47K-5-1/4 47K-5-1/4	H 162	1	06 10621A01
020	1	40-00340000	TRANSISTOR	MPS-U60 SCREENED	R 094	1	18-83452E23	RESISTOR VARIABLE	500K	B 164	1	06-10621B62
030	1	48-80341A47	TRANSISTOR	MPS-U10 SCREENED	R 095	1	06-11009C89	RESISTOR	47K-5-1/4	R 165	1	06-10621C59
031	1	48-80340B87	TRANSISTOR	MPSD01	R 096	1	06-10621B82	RESISTOR	750-1-1/4	R 166	1	06-10621C63
032	1	48-80345A14	TRANSISTOR		R 097	1	06-10621B82	RESISTOR	750-1-1/4	R 167	1	06-10621C91
033	1	48-80340B88	TRANSISTOR	MPSD51	R 098	1	06-10621B94	RESISTOR	1K-1-1/4	R 168	1	06-10621C91
034	1	48-80345A15	TRANSISTOR	MDCDO	R 099	1	06-10621894	RESISTOR	1K-1-1/4	R 169	1	06-10621C19
1035	1	48-80340B87	TRANSISTOR	MPSD01	H 100	1	18-83452111	RESISTOP	562 1 1/4	R 170	1	06-10621019
036	1	48-80340B8/ 48-80340B86	TRANSISTOR	MPS6520	R 101	1	06-10621B70	RESISTOR	562-1-1/4	H 1/1 R 173	1	06-10621035
1001	1	06-10621076	RESISTOR	6.98K-1-1/4	R 103	1	06-10621A85	RESISTOR	75-1-1/4	R 174	1	06-10621A01
002	1	06-10621B70	RESISTOR	562-1-1/4	R 104	1	06-10621A85	RESISTOR	75-1-1/4	R 175	1	06-10621B62
003	1	06-10621D88	RESISTOR	100K-1-1/4	R 105	1	06-11009C49	RESISTOR	1K-5-1/4	R 176	1	06-10621C59
004	1	06-10621D88	RESISTOR	100K-1-1/4	R 106	1	06-11009C73	RESISTOR	10K-5-1/4	R 177	1	06-10621C63
005	1	06-10621E77	RESISTOR	825K-1-1/4	R 107	1	06-11009C65	RESISTOR	4.7K-5-1/4	R 178	1	06-10621C91
006	1	06-10621D80	RESISTOR	82.5K-1-1/4	R 108	1	18-83452F09	RESISTOR	1K 47K 5 1/4	R 179	1	06-10621C91
A 007	1	06-10621C83	RESISTOR	0.25K-1-1/4	H 109	1	00-11009000	REDIDIUR	4./N-J-1/4	H 180	1	00-10021019

Part Value Find Oty- Reg Part No. Nomenciature Part Value Con 464-114 Fill 06-00710 RESCTOR 178-114 Con 240-114 Fill 06-00710 RESCTOR 250-114 Con 10-144 Fill 06-00710 RESCTOR 250-114 Con 464-114 Fill 06-00710 RESCTOR 250-114 Con 106-114 Fill 06-00710 260-114 260-114 Con 106-114 Fill 06-00710 260-114 260-114 Con 106-00710 260-									
No. Reg. Part No. Reg. Part No. Reg. Part No. Com 464-114 F183 04-1080-C00 F185-114 F185-114 Com 244-114 F183 04-1080-C00 F185-114 F185-114 Com 04-114 F183 04-1080-C00 F185-114 F185-114 Com 04-114 F184 04-1080-C00 F185-114 F185-114 Com 04-114 F184 04-1080-C00 F185-114 F185-114 Com 04-114 F184 04-1080-C00 F185-114 F185-114 Com 106-114 F187 04-1080-C00 F185-114 F187 F185-114 F187 F185-114 F185-114 F186-114 F186-114 <td< th=""><th></th><th>Dert Velue</th><th>Find</th><th>Qty.</th><th>Denthic</th><th>Nemerolature</th><th colspan="2">Dent Malue</th></td<>		Dert Velue	Find	Qty.	Denthic	Nemerolature	Dent Malue		
DO Solution R18 1 06-102110 RESISTOR 0.176.114 CO 2.814.114 R183 0.6102105 RESISTOR 2.814.114 CO 1.01.14 R183 0.6102105 RESISTOR 2.814.114 CO 1.01.14 R183 0.6102105 RESISTOR 2.814.114 CO 4.64.114 R183 0.6102102 RESISTOR 2.814.114 CO 4.64.114 R183 0.6102102 RESISTOR 2.81.114 CO 4.64.114 R183 0.6102021 RESISTOR 2.81.114 CO 0.61.114 R183 0.6102021 RESISTOR 2.81.114 CO 0.61.114 R183 0.6102021 RESISTOR 2.81.14 CO 0.61.114 R183 0.6102021 RESISTOR 2.81.14 CO 0.61.10211 RESISTOR 2.81.14 2.81.14 2.81.14 CO 0.61.10211 RESISTOR 2.81.14 2.81.14 2.81.14 CO	vomenciature	Part value	No.	Req.	Part No.	Nomenciature	Part value		
DDD DDD <td>-</td> <td>464 4 4 4</td> <td>— <u> </u></td> <td></td> <td>06 10601010</td> <td>DESIGTOR</td> <td>1 701/ 1 1/4</td>	-	464 4 4 4	— <u> </u>		06 10601010	DESIGTOR	1 701/ 1 1/4		
DOD DOD DOD PARSE NO Description Section Section <thsection< th=""> Section <thsection< th=""></thsection<></thsection<>	SISTOR	464-1-1/4 2K 1 1/4	H 181	1	06-10621019	RESISTOR	1./8K-1-1/4 61.9K 1.1/4		
COM CON CON <thcon< th=""> <thcon< th=""> <thcon< th=""></thcon<></thcon<></thcon<>	SISTOR	2 61K-1-1/4	R 183	1	06-10621035	BESISTOR	2 61K-1-1/4		
TOP 10.1.1.4 R185 1 06.1021C25 RESISTON 2.61K-1.1.4 COP 4.4.1.1.4 R185 1 06.1021C25 RESISTON 2.4.1.4.1.4 COP 4.51K-1.1.4 R185 1 06.1020C25 RESISTON 2.4.7.4.1.4 COP 10.51.1.4 R185 1 06.1020C25 RESISTON 2.4.7.4.1.4 COP 17.5K-1.1.4 R185 1 06.1020C25 RESISTON 2.4.7.4.1 COP 17.5K-1.1.4 TOO 1 06.80331.48 JACK WHTE COP 2.3.5K-1.1.4 TOOS 1 06.80331.48 JACK WHTE </td <td>SISTOR</td> <td>10-1-1/4</td> <td>R 184</td> <td>1</td> <td>06-10621D68</td> <td>RESISTOR</td> <td>61.9K-1-1/4</td>	SISTOR	10-1-1/4	R 184	1	06-10621D68	RESISTOR	61.9K-1-1/4		
CGN 64.1.1.1.4 R 16 1 06.05212.4 RESISTON 24.1.1.4 CGN 53.116.1.1.4 R 188 1 06.1100C55 RESISTON 24.5.1.4 CGN 104.1.1.4 R 188 1 06.1100C55 RESISTON 24.5.1.4 CGN 104.1.1.4 R 180 1 06.1100C55 RESISTON 24.5.1.4 CGN 126.1.1.4 TP002 1 06.4100C55 RESISTON 24.5.1.4 CGN 126.1.1.4 TP002 1 06.40031A85 JACK WHTE CGN 2376.1.1.4 TP002 1 06.40031A85 JACK WHTE CGN 2376.1.1.4 TP002 1 06.40031A85 JACK WHTE CGN 3.464.1.1.4 TP002 1 06.40031A85 JACK WHTE CGN 3.464.1.1.4 TP002 1 06.40031A85 JACK WHTE CGN 3.464.1.4 U0.02 1 3.40054.00 MEGATEO CICUUT JACK	SISTOR	10-1-1/4	R 185	1	06-10621C35	RESISTOR	2.61K-1-1/4		
GOD 444.1-14 FL FT 1 GOD GOD 444.1-14 GOD 106.1-14 FL FT 1 GOD FESSITOR 24.5-14 GOD 106.1-14 FL FT 1 GOD FESSITOR 24.5-14 GOD 107.1-14 FT FT 1 GOD FESSITOR 24.5-14 GOD 107.1-14 FT FT GOD 1 GOD GOD ACK WHTE GOD 218.1-14 FT FT GOD 1 GOD GOD ACK WHTE GOD 218.1-14 FT FT GOD 1 GOD GOD ACK WHTE GOD 218.1-14 FT FT GOD GOD GOD ACK WHTE GOD 218.1-14 FT FT GOD GOD GOD ACK WHTE GOD 218.1-14 U GOD 1 S1.4004.5001 ACK WHTE GOD 218.1-14 U GOD 1 S1.4004.5001 ACK CAST MOS GOD	SISTOR	464-1-1/4	R 186	1	06-10621C24	RESISTOR	2K-1-1/4		
CON 5 11.1.1.4 F1 BB 1 06 1000050 FESSITOR 3.4.7.8.1.4 COR 106.1.1.4 F1 BB 1 06.1.1000051 FESSITOR 3.8.5.1.4 COR 106.1.1.4 FP COR 1 06.1.000051 FESSITOR 3.8.5.1.4 COR 2.8.5.1.1.4 FP COR 1 08.4.000151 FESSITOR 3.8.5.1.4 COR 4.2.8.1.1.4 FP COR 1 08.4.0331.88 JACK WHTE COR 2.2.76.1.1.4 FP COR 1 08.4.0331.88 JACK WHTE COR 2.2.76.1.1.4 FP COR 1 08.4.0331.88 JACK WHTE COR 2.2.76.1.1.4 FP COR 1 08.4.0331.88 JACK WHTE COR 3.3.86.1.1.4 FP COR 1 08.4.0331.88 JACK WHTE COR 3.3.86.1.1.4 U OD 1 3.4.0343.18 JACK WHTE COR 3.3.86.1.1.4 <thu od<="" th=""> 1 3.4.034.1</thu>	SISTOR	4.64K-1-1/4	R 187	1	06-10621B62	RESISTOR	464-1-1/4		
DDD DDD <td>SISTOR</td> <td>5.11K-1-1/4</td> <td>R 188</td> <td>1</td> <td>06-11009C65</td> <td>RESISTOR</td> <td>4.7K-5-1/4</td>	SISTOR	5.11K-1-1/4	R 188	1	06-11009C65	RESISTOR	4.7K-5-1/4		
CODE 1 286-1-14 1 PRO2 1 08-8331488 JACK WHTE CODE 1 286-1-14 1 PRO2 1 08-8331488 JACK WHTE CODE 2 387-1-14 1 PRO2 1 08-8331488 JACK WHTE CODE 2 387-1-14 1 PRO2 1 08-8331488 JACK WHTE CODE 2 387-1-14 1 PRO2 1 08-8331488 JACK WHTE CODE 2 387-1-14 1 PRO2 1 08-8331488 JACK WHTE CODE 2 387-1-14 1 PRO2 1 08-8331488 JACK WHTE CODE 3 386-1-14 1 PRO2 1 08-8331488 JACK WHTE CODE 3 386-1-14 1 U DQ 1 81-83484-05 INTEGATE DIRUUT JACK WHTE CODE 3 386-1-14 1 U DQ 1 81-8348-05 INTEGATE DIRUUT JACK WHTE CODE 3 4834-14 1 U DQ 1 81-8348-05 INTEGATE DIRUUT JACK JACK WHTE CODE 3 4834-14 1 U DQ	SISTOR	10K-1-1/4	R 109	1	06-11009050	RESISTOR	2N-0-1/4 39-5-1/4		
TOP 1286-1-14 TPOOD 1 0643031A88 JACK WHTE TOP 2376-1-14 TPOOD 0643031A88 JACK WHTE TOP 3461-134 TPOOD 0643031A88 JACK WHTE TOP 3461-134 U001 1 0643031A88 JACK WHTE TOP 3461-134 U003 1 9143031A88 JACK WHTE TOP 3461-134 U003 1 9143031A88 JACK WHTE TOP 3461-134 U033 1 914304491 MTEGATED CIRCUT CA3146 SOREM TOP 101-134 U037 1 914304491 MTEGATED CIRCUT CA3146 SOREM TOP 101-134 U037 91430450491 MTEGAT	SISTOR	1.78K-1-1/4	TP001	1	09-80331A88	JACK	WHITE		
OPD 6196-114 TPO3 1 09-80331488 JACK WHTE DR0 2261-114 TPO3 1 09-80331488 JACK WHTE DR0 2664-114 TPO3 1 09-80331488 JACK WHTE DR0 309-114 TPO3 1 09-80331488 JACK WHTE DR0 309-114 TPO3 1 09-80331488 JACK WHTE DR0 309-114 U001 1 31-803484 JACK WHTE DR0 31845-114 U001 1 31-8034840 MTGDATED CIRCUT CA31462 SCREEM DR0 31851-114 U002 1 31-80345401 MTGDATED CIRCUT CA31462 SCREEM DR0 31851-114 U003 1 31-80345401 MTGDATED CIRCUT CA31462 SCREEM DR0 31641-14 U003 1 31-80345401 MTGDATED CIRCUT CA31462 SCREEM DR0 30641-14 U003 1 31-8034510 MTGDATED CIRCUT <	SISTOR	1.78K-1-1/4	TP002	1	09-80331A88	JACK	WHITE		
CDF 4 225-114 TPO04 1 09-83331485 JACK WHTE CDF 2374-114 TPO07 1 09-83331485 JACK WHTE CDF 2374-114 TPO07 1 09-83331485 JACK WHTE CDF 2374-114 TPO07 1 09-83331485 JACK WHTE CDF 3 184-114 TPO07 1 09-83331485 JACK WHTE CDF 3 184-114 U 001 1 31-8345415 MTEGRATED CIRCUT CA1465 SCREEN CDF 4 264-114 U 005 1 31-8345459 MTEGRATED CIRCUT CA1465 SCREEN CDF 2 564-114 U 005 1 31-83454501 MTEGRATED CIRCUT CA1465 SCREEN CDF 2 564-114 U 005 1 31-83454501 MTEGRATED CIRCUT CA1465 SCREEN CDF 2 564-114 U 005 1 31-83454501 MTEGRATED CIRCUT CA1465 SCREEN CDF 1 51-14 U 005 1 31-834564171 <td>SISTOR</td> <td>61.9K-1-1/4</td> <td>TP003</td> <td>1</td> <td>09-80331A88</td> <td>JACK</td> <td>WHITE</td>	SISTOR	61.9K-1-1/4	TP003	1	09-80331A88	JACK	WHITE		
CDP 2 378-114 TPOS 1 0 40031488 JACK WHTE TDR 2 367-114 TPOS 1 0 4003148 JACK WHTE TDR 3 084-114 TPOS 1 0 4033148 JACK WHTE TDR 3 084-114 TPOS 1 0 4033148 JACK WHTE TDR 3 084-114 TPOS 0 4033148 JACK WHTE TDR 4 044-114 U 002 1 3 033148 JACK WHTE TDR 4 044-114 U 002 1 3 033148 JACK WHTE MACK WHTE TDR 4 044-114 U 002 1 3 033440 MTEGATED CRCUT CA3146E SCREEN TDR 10-114 U 005 1 3 1003440 MTEGATED CRCUT CA3146E SCREEN TDR 10-114 U 007 1 3 1003440 MTEGATED CRCUT LA3148 SCREEN TDR 10-114 U 007 1 3 1003440 MTEGATED CRCUT LA3248	SISTOR	4.22K-1-1/4	TP004	1	09-80331A88	JACK	WHITE		
CDI 2 Bit-114 TPOD 1 054001108 JACK WHTE CDI 2 Bit-114 TPOD 1 054001108 JACK WHTE CDI 3 Bit-114 TPOD 1 054001108 JACK WHTE CDI 3 Bit-114 TPOD 1 054001108 JACK WHTE CDI 3 Bit-114 U.D2 1 3 Statestance WHTE WHTE CDI 4 Got-114 U.D2 1 3 Statestance WHTEGATED CIRCUT CA3146E SCREEN CDI 5 Statestance 1 3 Statestance WTEGATED CIRCUT CA3146E SCREEN CDI 14.114 U.D06 1 3 Statestance WTEGATED CIRCUT CA3146E SCREEN CDI 14.114 U.D07 1 3 Statestance WTEGATED CIRCUT CA3146E SCREEN CDI 14.114 U.D08 1 3 Statestance WTEGATED CIRCUT CA3146E SCREEN CDI 104.114 U.D08 1 3 Statestance WTEGATED	ISTOR	2.37K-1-1/4	TP005	1	09-80331A88	JACK	WHITE		
DOB SOME 11-14 IPOD0 1 DEBAB31A8B JACK WHTE TORP 3.16K-11-14 TPOD0 1 DEBAB31A8D JACK WHTE TORP 3.16K-11-14 TPOD0 1 DEBAB31A8D JACK WHTE TOR 3.85K-11-14 U.003 1 S1-8031A8D JACK WHTE TOR 4.64K-11-4 U.003 1 S1-8034A01 WTEGATED CINCUT CA3140E SCREEN TOR 2.81K-11-4 U.003 1 S1-8034A01 WTEGATED CINCUT CA3140E SCREEN TOR 2.81K-11-4 U.003 1 S1-8034A01 WTEGATED CINCUT CA3140E SCREEN TOR 10-1-14 U.007 1 S1-8034A01 WTEGATED CINCUT CA3140E SCREEN TOR 10-1-14 U.012 1 S1-8034A01 WTEGATED CINCUT LA3140E SCREEN TOR 10-1-14 U.012 1 S1-8034A01 WTEGATED CINCUT LA3140E SCREEN TOR 10-1-14 U.028 1	ISTOR	2.61K-1-1/4	TP006	1	09-80331A88	JACK	WHITE		
COMP COMP <thcomp< th=""> COMP COMP <thc< td=""><td>STOR</td><td>2.0/ N-1-1/4 3.09K.1 1/4</td><td>19007</td><td>1</td><td>09-00331 400</td><td></td><td>WHITE</td></thc<></thcomp<>	STOR	2.0/ N-1-1/4 3.09K.1 1/4	19007	1	09-00331 400		WHITE		
TOP 3 #881-11-14 1 P100 1 0 54 00331A88 JACK WHTE TOR 4 084-11-14 U 001 1 51 42044.05 NITEGARTED CIRCUIT LASAR SCHEENE TOR 4 084-11-14 U 002 1 51 42044.05 NITEGARTED CIRCUIT CA3140E SCREEN TOR 5 084-11-14 U 003 1 51 42044.01 NITEGARTED CIRCUIT CA3140E SCREEN TOR 10-11-14 U 003 1 51 42044.01 NITEGARTED CIRCUIT CA3140E SCREEN TOR 10-11-14 U 007 1 51 450544.01 NITEGARTED CIRCUIT CA3140E SCREEN TOR 10-11-14 U 007 1 51 450544.01 NITEGARTED CIRCUIT CA3140E SCREEN TOR 10-11-14 U 007 1 51 45054.01 NITEGARTED CIRCUIT CA3140E SCREEN TOR 10-11-14 U 007 1 51 45054.01 NITEGARTED CIRCUIT CA3140E SCREEN TOR 10-11-14 U 011 1 51 45054.04 NITEGARTED CIRCUIT CA3240E SCREEN TOR 10-11-14 U 025 1 51 45054.04 NITEGARTED CIRCUIT	STOR	3.16K-1-1/4	1008	1	09-00331488	JACK	WHITE		
TOR 35.857.11/4 U007 1 51.80584.18 INTEGARTED CRCUT UX32A SCREEN TOR 4.64K-11/4 U003 1 51.8024.00 INTEGARTED CRCUT CA3140E SCREEN TOR 51.4K.11/4 U006 1 51.8024.00 INTEGARTED CRCUT CA3140E SCREEN TOR 51.4K.11/4 U006 1 51.8024.01 INTEGARTED CRCUT CA3140E SCREEN TOR 10-1.1/4 U007 1 51.5058646 INTEGARTED CRCUT CA3140E SCREEN TOR 10-1.1/4 U007 1 51.8058646 INTEGARTED CRCUT CA3140E SCREEN TOR 10-1.1/4 U007 1 51.80584.01 INTEGARTED CRCUT CA3140E SCREEN TOR 10-1.1/4 U012 1 51.80584.01 INTEGARTED CRCUT LA324N SCREEN TOR 10-1.1/4 U012 1 51.8034.02 INTEGARTED CRCUT LA324N SCREEN TOR 10-1.1/4 U012 1 51.8034.02 INTEGARTED CRCUT LA324N SCREEN TOR <td>TOR</td> <td>3.48K-1-1/4</td> <td>TP010</td> <td>1</td> <td>09-80331A88</td> <td>JACK</td> <td>WHITE</td>	TOR	3.48K-1-1/4	TP010	1	09-80331A88	JACK	WHITE		
COR 4.08x-1:14 U.002 1 51.82841.50 INTEGANTED CIRCUIT CALINE SCREEN COR 5.11K-1:14 U.003 1 51.80247A3 INTEGANTED CIRCUIT CASIARE SCREEN COR 5.11K-1:14 U.004 1 51.80247A3 INTEGANTED CIRCUIT CASIARE SCREEN TOR 10-1:14 U.007 1 51.65588640 INTEGANTED CIRCUIT CASIARE SCREEN TOR 464.1:14 U.007 1 51.65588640 INTEGANTED CIRCUIT CASIARE SCREEN TOR 464.1:14 U.007 1 51.65588640 INTEGANTED CIRCUIT CASIARE SCREEN TOR 464.1:14 U.001 1 51.825846.71 INTEGANTED CIRCUIT CASIARE SCREEN TOR 100-1:14 U.002 1 51.80345A0 INTEGANTED CIRCUIT CASIARE SCREEN TOR 100-1:14 U.023 1 51.80345A0 INTEGANTED CIRCUIT CASIARE SCREEN TOR 100-1:16 ASIARE SCREEN INTEGANTED CIRCUIT CASIARE SCREEN TOR	STOR	3.83K-1-1/4	U 001	i	51-80396A16	INTEGRATED CIRCUIT	LM324N SCREENE		
TOR 4444-1-14 U003 1 51-80-34A01 INTEGRATED CIRCUIT CA31-06 SCREEN TOR 2.514-1-14 U004 1 51-80-34A01 INTEGRATED CIRCUIT CA31-06 SCREEN TOR 2.514-1-14 U007 1 51-80-34A01 INTEGRATED CIRCUIT CA31-06 SCREEN TOR 4.64-1-14 U007 1 51-80-34A01 INTEGRATED CIRCUIT CA31-06 SCREEN TOR 4.64-1-14 U010 1 51-80-34A01 INTEGRATED CIRCUIT CA31-06 SCREEN TOR 4.64-1-14 U010 1 51-80-34A01 INTEGRATED CIRCUIT LA32-08 CREEN TOR 1.78-1-14 U012 1 51-80-34A08 INTEGRATED CIRCUIT LA32-08 CREEN TOR 1.78-1-14 U022 1 51-80-34A08 INTEGRATED CIRCUIT LA32-08 CREEN TOR 1.78-1-14 U022 1 51-80-34A08 INTEGRATED CIRCUIT LA32-08 CREEN TOR 1.78-1-14 U028 1 51-80-34A08 INTEGRATED CIRCUIT CA3-808 SCREEN </td <td>TOR</td> <td>4.02K-1-1/4</td> <td>U 002</td> <td>1</td> <td>51-82884L59</td> <td>INTEGRATED CIRCUIT</td> <td></td>	TOR	4.02K-1-1/4	U 002	1	51-82884L59	INTEGRATED CIRCUIT			
TOR 511k1-11/4 U004 1 51-80347.03 INTEGRATED CIRCUIT CA140E SCREEN TOR 101-14 U005 1 51-80347.01 INTEGRATED CIRCUIT C.A140E SCREEN TOR 484.1-14 U005 1 51-8284.171 INTEGRATED CIRCUIT C.A140E SCREEN TOR 484.1-14 U010 1 51-8284.171 INTEGRATED CIRCUIT C.A140E SCREEN TOR 484.1-14 U010 1 51-8284.171 INTEGRATED CIRCUIT LM324N SCREEN TOR 51-114 U012 1 51-8284.171 INTEGRATED CIRCUIT LM324N SCREEN TOR 178-1-14 U012 1 51-80347.88 INTEGRATED CIRCUIT LM324N SCREEN TOR 178-1-14 U022 1 51-80347.88 INTEGRATED CIRCUIT C.A3188 SCREEN TOR 61 9K-1-14 U023 1 51-80347.88 INTEGRATED CIRCUIT C.A3188 SCREEN TOR 61 9K-1-14 U027 1 51-8034.92 INTEGRATED CIRCUIT C.A3188 SCREEN <tr< td=""><td>STOR</td><td>4.64K-1-1/4</td><td>U 003</td><td>1</td><td>51-80345A01</td><td>INTEGRATED CIRCUIT</td><td>CA3140E SCREEN</td></tr<>	STOR	4.64K-1-1/4	U 003	1	51-80345A01	INTEGRATED CIRCUIT	CA3140E SCREEN		
TOR 281x1-11/4 U005 1 51-8034-301 INTEGRATED CIRCUIT CA31-06 SCREEN TOR 10-11/4 U000 1 51-8034-801 INTEGRATED CIRCUIT CA31-06 SCREEN TOR 45-84-11/4 U010 1 51-80384-171 INTEGRATED CIRCUIT CA31-06 SCREEN TOR 45-84-11/4 U011 1 51-8284-171 INTEGRATED CIRCUIT CA31-06 SCREEN TOR 10-61-14 U012 1 51-8284-10 INTEGRATED CIRCUIT LM32-N SCREENC TOR 10-61-14 U012 1 51-80343-08 INTEGRATED CIRCUIT LM32-N SCREENC TOR 10-61-14 U022 1 51-80343-08 INTEGRATED CIRCUIT CA31-08 SCREEN TOR 2-37-11/4 U022 1 51-80343-08 INTEGRATED CIRCUIT CA31-08 SCREEN TOR 2-37-11/4 U028 1 51-80343-08 INTEGRATED CIRCUIT CA31-08 SCREEN TOR 2-37-11/4 U028 1 51-80343-08 INTEGRATED CIRCUIT CA31-08 SCREEN </td <td>STOR</td> <td>5.11K-1-1/4</td> <td>U 004</td> <td>1</td> <td>51-80347A38</td> <td>INTEGRATED CIRCUIT</td> <td></td>	STOR	5.11K-1-1/4	U 004	1	51-80347A38	INTEGRATED CIRCUIT			
TOR 10.1-1/4 U 006 1 51-822841.71 INTEGRATED CIRCUIT TOR 10.1-1.4 U 000 1 51-05896246 INTEGRATED CIRCUIT CA31 40E SCREEN TOR 4451-14 U 000 1 51-05896246 INTEGRATED CIRCUIT CA31 40E SCREEN TOR 51-116-1-14 U 012 1 51-05896416 INTEGRATED CIRCUIT LM32-M SCREENE TOR 106k-1-14 U 012 1 51-00596416 INTEGRATED CIRCUIT LM32-M SCREENE TOR 1078-1-14 U 022 1 51-00596416 INTEGRATED CIRCUIT LA32 M SCREENE TOR 1278-1-14 U 028 1 51-00596316 INTEGRATED CIRCUIT CA3188 SCREEN TOR 228-1-14 U 028 1 51-00543825 INTEGRATED CIRCUIT CA3188 SCREEN TOR 228-1-14 U 028 1 51-00543825 INTEGRATED CIRCUIT CA3188 SCREEN TOR 238-1-14 U 028 1 51-00543825 INTEGRATED CIRCUIT CA3188 SCREEN T	ISTOR	2.61K-1-1/4	U 005	1	51-80345A01	INTEGRATED CIRCUIT	CA3140E SCREEN		
Up+1 1-1/4 U007 1 51-659646 NTEGRATED CRCUTT CA3140E SCREEN CDR 444.11/4 U001 1 51-6396470 NTEGRATED CRCUTT CA3140E SCREEN TOR 51/K1-11/4 U011 1 51-63844.00 NTEGRATED CRCUTT LM324AN SCREENE TOR 10K-1.1/4 U012 1 51-6334A06 NTEGRATED CRCUT LM324N SCREENE TOR 178K-1.1/4 U013 1 51-6034A06 NTEGRATED CRCUT LM324N SCREENE TOR 178K-1.1/4 U024 1 51-6034205 NTEGRATED CRCUT LM324N SCREENE TOR 178K-1.1/4 U025 1 51-60343825 NTEGRATED CRCUT CA3163E SCREEN TOR 237K-1.1/4 U028 1 51-60343825 NTEGRATED CRCUT CA3163E SCREEN TOR 237K-1.1/4 U028 1 51-60343825 NTEGRATED CRCUT CA3163E SCREEN TOR 237K-1.1/4 U028 1 51-60343825 NTEGRATED CRCUT CA3163E SCREEN TO	STOR	10-1-1/4	U 006	1	51-82884L71	INTEGRATED CIRCUIT			
Unit Tem. 1:14 U.007 1 1-8.043AUT INTEGRATED CIRCUIT CA3106 SCHEEM TOR 411K:114 U.010 1 5142884.17 INTEGRATED CIRCUIT LA3228 SCHEEM TOR 10K-1.14 U.012 1 5143884.16 INTEGRATED CIRCUIT LA328 SCHEEM TOR 10K-1.14 U.012 1 5143084.06 INTEGRATED CIRCUIT LA328 SCHEEM TOR 178K:1.14 U.024 1 5140345.08 INTEGRATED CIRCUIT LA328 SCHEEM TOR 178K:1.14 U.025 1 5140345.08 INTEGRATED CIRCUIT LA328 SCHEEM TOR 2.37K:1.14 U.028 1 5140345.08 INTEGRATED CIRCUIT CA3188 SCHEEM TOR 2.37K:1.14 U.028 1 5140345.08 INTEGRATED CIRCUIT CA3188 SCHEEM TOR 2.37K:1.14 U.028 1 5140345.08 INTEGRATED CIRCUIT CA3188 SCHEEM TOR 2.37K:1.14 U.028 1 5140345.08 INTEGRATED CIRCUIT CA3188 SCHEEM <t< td=""><td>STOR</td><td>10-1-1/4</td><td>U 007</td><td>1</td><td>51-05596E46</td><td>IN FEGRATED CIRCUIT</td><td>CA21405 CODE5-</td></t<>	STOR	10-1-1/4	U 007	1	51-05596E46	IN FEGRATED CIRCUIT	CA21405 CODE5-		
UND PATCH 114 U010 I D124000110 UND UND UND I D12400110 INTEGRATED CROUT UND UND I D1240010 INTEGRATED CROUT LM3200 SCREENE UND I D54.033400 INTEGRATED CROUT LM3200 SCREENE UND I D51.0337430 INTEGRATED CROUT LM3200 SCREENE UND I D51.0337430 INTEGRATED CROUT LM3200 SCREENE UND I D1203016 INTEGRATED CROUT LM3200 SCREENE UND I D1203016 INTEGRATED CROUT LM3240 SCREENE UND I D1204016 INTEGRATED CROUT CA3188 SCREENE UND I D1204016 INTEGRATED CROUT CA3188 SCREENE UND I	STOR	404-1-1/4 A BAK 1 1/A	U 009	1	51-00345AU1		CA314UE SCREEN		
TOR TOK:1:14 U012 1 51:40006-410 WTEDATTED CIRCUIT LAX24W SCREEME TOR 178k:1:14 U014 1 51:40036-A06 WTEGATED CIRCUIT LM319M SCREEME TOR 178k:1:14 U014 1 51:40037-A03 WTEGATED CIRCUIT LM324M SCREEME TOR 61 9k:1:14 U022 1 51:40034-A04 WTEGATED CIRCUIT CA3240 ESCREEME TOR 61 9k:1:14 U022 1 51:40034-A04 WTEGATED CIRCUIT CA3188E SCREEME TOR 42 2k:1:14 U022 1 51:40034-025 WTEGATED CIRCUIT CA3188E SCREEME TOR 23 7k:1:14 U023 1 51:40034-025 WTEGATED CIRCUIT CA3188E SCREEME TOR 23 0k:1:14 U023 1 51:40034-025 WTEGATED CIRCUIT CA3188E SCREEME TOR 30 0k:1:14 U023 1 51:40034-025 WTEGATED CIRCUIT CA3188E SCREEME TOR 30 0k:1:14 U023 1 51:40034-025 WTEGATED CIRCUIT CA3188E SCREEME	TOR	4.04K-1-1/4 5 11K-1-1/4	0 010	1	51-02004L/1				
TOR 10k:1:1/4 U 013 1 5:30345.066 INTEGRATED CIRCUIT UM319N SCREENE TOR 1.78K:1.1/4 U 024 1 51:80374.388 INTEGRATED CIRCUIT LM324N SCREENE TOR 61:8K:1.1/4 U 024 1 51:80374.388 INTEGRATED CIRCUIT LM324N SCREENE TOR 61:8K:1.1/4 U 027 1 51:80345.804 INTEGRATED CIRCUIT CA3988 SCREENE TOR 22:K1:1.1/4 U 027 1 51:80343.825 INTEGRATED CIRCUIT CA3988 SCREENE TOR 23:K1:1.1/4 U 027 1 51:80343.825 INTEGRATED CIRCUIT CA3988 SCREENE TOR 23:K1:1.1/4 U 027 1 51:80343.825 INTEGRATED CIRCUIT CA3988 SCREENE TOR 30:K1:1.1/4 U 027 1 51:8034.825 INTEGRATED CIRCUIT CA3988 SCREENE TOR 30:K1:1.1/4 U 027 1 51:8034.825 INTEGRATED CIRCUIT CA3988 SCREENE TOR 30:K1:1.1/4 U 027 1 51:803.126 INTEGRATED CIRCUIT	STOR	10K-1-1/4	1012	1	51-80396A16	INTEGRATED CIRCUIT	LM324N SCREENF		
TOR 178K-1-1/4 U 014 1 51-60347A38 INTEGRATED CIRCUIT LM324N SCREENE 178K-1-1/4 U 025 1 51-80346A04 INTEGRATED CIRCUIT C.43240 SCREENE TOR 61 5K-1-1/4 U 025 1 51-80345A04 INTEGRATED CIRCUIT C.43240 SCREENE TOR 2.37K-1.1/4 U 025 1 51-80343825 INTEGRATED CIRCUIT C.43240 SCREENE TOR 2.37K-1.1/4 U 028 1 51-80343825 INTEGRATED CIRCUIT C.43182 SCREENE TOR 2.37K-1.1/4 U 028 1 51-80343825 INTEGRATED CIRCUIT C.43182 SCREENE TOR 2.37K-1.1/4 U 028 1 51-80343825 INTEGRATED CIRCUIT C.43182 SCREENE TOR 3.05K-1.1/4 U 028 1 51-80343825 INTEGRATED CIRCUIT C.43182 SCREENE TOR 3.05K-1.1/4 U 028 1 51-80343825 INTEGRATED CIRCUIT C.43182 SCREENE TOR 3.05K-1.1/4 U 028 1 51-80343825 INTEGRATED CIRCUIT C.43182 SCREENE TOR 3.05K-1.1/4 U 028 1 51-80343825 INTEGRATED CIRCUIT C.43182 SCREENE TOR 3.05K-1.1/4 U 028 1 51-8044 1 <td>STOR</td> <td>10K-1-1/4</td> <td>U 013</td> <td>1</td> <td>51-80345A06</td> <td>INTEGRATED CIRCUIT</td> <td>LM319N SCREENE</td>	STOR	10K-1-1/4	U 013	1	51-80345A06	INTEGRATED CIRCUIT	LM319N SCREENE		
TOR 1.78K-1.1/4 U 024 1 51.80349.016 INTEGRATED CIRCUIT LM324N SCREEM TOR 4.22K-1.1/4 U 027 1 51.8034.3025 INTEGRATED CIRCUIT C.A3182E SCREEN TOR 2.37K-1.1/4 U 027 1 51.8034.3025 INTEGRATED CIRCUIT C.A3183E SCREEN TOR 2.37K-1.1/4 U 027 1 51.8034.3025 INTEGRATED CIRCUIT C.A3183E SCREEN TOR 2.37K-1.1/4 U 027 1 51.8034.3025 INTEGRATED CIRCUIT C.A3183E SCREEN TOR 2.37K-1.1/4 U 027 1 51.8034.3025 INTEGRATED CIRCUIT C.A3183E SCREEN TOR 3.37K-1.1/4 U 027 1 51.8034.3025 INTEGRATED CIRCUIT C.A3183E SCREEN TOR 3.37K-1.1/4 U 027 1 51.8034.3025 INTEGRATED CIRCUIT C.A3183E SCREEN TOR 3.37K-1.1/4 U 027 1 51.804.3025 INTEGRATED CIRCUIT C.A3183E SCREEN TOR 51.71.1/4 U 027 1 51.804.3025 INTEGRATED CIRCUI	STOR	1.78K-1-1/4	U 014	1	51-80347A38	INTEGRATED CIRCUIT			
TOR 61 9K-1-14 U 025 1 51-8034504 INTEGRATED CIRCUIT CA3206 SCREEN TOR 2.37K-1-14 U 027 1 51-80343825 INTEGRATED CIRCUIT CA3188 SCREEN TOR 2.37K-1-14 U 028 1 51-80343825 INTEGRATED CIRCUIT CA3188 SCREEN TOR 2.01K-1-14 U 028 1 51-80343825 INTEGRATED CIRCUIT CA3188 SCREEN TOR 2.01K-1-14 U 028 1 51-80343825 INTEGRATED CIRCUIT CA3188 SCREEN TOR 2.01K-1-14 U 028 1 51-80343825 INTEGRATED CIRCUIT CA3188 SCREEN TOR 3.01K-1-14 U 028 1 51-80343825 INTEGRATED CIRCUIT CA3188 SCREEN TOR 3.01K-1-14 U 028 1 51-80343825 INTEGRATED CIRCUIT CA3188 SCREEN TOR 3.01K-1-14 U 028 1 51-80343825 INTEGRATED CIRCUIT CA3188 SCREEN TOR 3.01K-1-14 U 028 1 1 1 1 1 1 </td <td>STOR</td> <td>1.78K-1-1/4</td> <td>U 024</td> <td>1</td> <td>51-80396A16</td> <td>INTEGRATED CIRCUIT</td> <td>LM324N SCREENE</td>	STOR	1.78K-1-1/4	U 024	1	51-80396A16	INTEGRATED CIRCUIT	LM324N SCREENE		
LUH 4.22K-1-14 U 027 1 51-80343825 INTEGRATED CIRCUIT CA3188E SCREENI TOR 2.37K-1-14 U 028 1 31-80343825 INTEGRATED CIRCUIT CA3188E SCREENI TOR 2.30K-1-14 U 028 1 31-80343825 INTEGRATED CIRCUIT CA3188E SCREENI TOR 2.30K-1-14 U 028 1 31-80343825 INTEGRATED CIRCUIT CA3188E SCREENI TOR 3.30K-1-14 U 028 1 31-80343825 INTEGRATED CIRCUIT CA3188E SCREENI TOR 3.30K-1-14 U 028 1 31-80343825 INTEGRATED CIRCUIT CA3188E SCREENI TOR 3.30K-1-14 U 028 1 31-80343825 INTEGRATED CIRCUIT CA3188E SCREENI TOR 3.30K-1-14 U 028 1 31-80343825 INTEGRATED CIRCUIT CA3188E SCREENI TOR 4.50K-1-14 U 028 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1<	TOR	61.9K-1-1/4	U 025	1	51-80345A04	INTEGRATED CIRCUIT	CA3240E SCREENE		
Lun 23/K-1-14 U.22 1.30343525 INTEGRATED CINCUIT CASIBLE SCREENT TOR 2015.1-14 1.40343525 INTEGRATED CINCUIT CASIBLE SCREENT TOR 3056.1-14 1.40343525 INTEGRATED CINCUIT CASIBLE SCREENT TOR 520-1-14 1.40343525 INTEGRATED CINCUIT CASIBLE SCREENT TOR 520-1-14 1.40343525 INTEGRATED CINCUIT CASIBLE SCREENT TOR 520-1-14 1.40343525 INTEGRATED CINCUIT CASIBLE SCREENT TOR 1520-114	JUR	4.22K-1-1/4	U 027	1	51-80343B25		CA3183E SCREENE		
Lun 2 010-11/4 TOR 2 020-11/4 TOR 3 048-11/4 TOR 4 028-11/4 TOR 4 028-11/4 TOR 5 11K-11/4 TOR 5 01-1/4 TOR 7 50-1-1/4 TOR 5 22-1.1/4 TOR 5 22-1.1/4 TOR 5 22-1.1/4 TOR 5 22-1.1/4 TOR 1 330-1-1/4 TOR 1 330-1-1/4 TOR 1 330-1-1/4 TOR 4 7 7-5-1/4 TOR 4 7 7-5-1/4 TOR 4 7 7-5-1/4 TOR 4 5 4-1.1/4	TOP	2.3/K-1-1/4 2.61K 1 1/4	U 028	1	51-80343B25	IN LEGHATED CIRCUIT	CA3183E SCREENE		
TOP 508.1.14 TOR 318.1.14 TOR 348.1.14 TOR 348.1.14 TOR 402.1.14 TOR 402.1.14 TOR 402.1.14 TOR 404.1.14 TOR 511.14 TOR 750.1.14 TOR 750.1.14 TOR 750.1.14 TOR 52.1.14 TOR 52.1.14 TOR 52.1.14 TOR 52.1.14 TOR 52.1.14 TOR 53.1.14 TOR 75.1.14 TOR 75.1.14 TOR 75.1.14 TOR 75.1.14 TOR 75.1.14 TOR 1330.1.14 TOR 1330.1.14 TOR 1330.1.14 TOR 454.1.14 TOR 454.1.14 TOR 454.1.14 TOR 454.1.14 TOR 454.1.14	TOR	2.01K-1-1/4 2.87K-1-1/4							
TOR3 16k-1-14TOR34k-1-14TOR42k-1-14TOR42k-1-14TOR511k-1-14TOR750-1-14TOR750-1-14TOR750-1-14TOR750-1-14TOR750-1-14TOR11k-1-14TOR11k-1-14TOR11k-1-14TOR11k-1-14TOR11k-1-14TOR11k-1-14TOR12k-1-14TOR1330-1-14TOR1330-1-14TOR1330-1-14TOR1330-1-14TOR1330-1-14TOR1330-1-14TOR1330-1-14TOR1330-1-14TOR14k-1-14TOR14k-1-14TOR14k-1-14TOR44k-1-14TOR2k-1-14TOR2k-1-14TOR2k-1-14TOR2k-1-14TOR2k-1-14TOR44k-1-14TOR4k-1-14TOR4k-1-14TOR10k-1-14TOR10k-1-14TOR10k-1-14TOR10k-1-14TOR10k-1-14TOR10k-1-14TOR10k-1-14TOR10k-1-14TOR10k-1-14TOR10k-1-14TOR10k-1-14TOR10k-1-14TOR10k-1-14TOR10k-1-14TOR10k-1-14TOR10k-1-14TOR	TOR	3.09K-1-1/4							
TOR 3.48K-1-14 TOR 3.68K-1-14 TOR 4.02K-1-14 TOR 4.02K-1-14 TOR 5.11K-1-14 TOR 750-1-14 TOR 750-1-14 TOR 750-1-14 TOR 750-1-14 TOR 750-1-14 TOR 562-1-14 TOR 562-1-14 TOR 562-1-14 TOR 562-1-14 TOR 562-1-14 TOR 562-1-14 TOR 75-1-14 TOR 75-1-14 TOR 75-1-14 TOR 1330-1-14 TOR 1330-1-14 TOR 14 TOR 46-1-14	FOR	3.16K-1-1/4							
TOR 3.83K-1-14 TOR 4.64K-1-14 TOR 5.11K-1-14 TOR 750-1-14 TOR 750-1-14 TOR 750-1-14 TOR 750-1-14 TOR 1K-1-1/4 TOR 1K-1-1/4 TOR 562-1-14 TOR 562-1-14 TOR 562-1-14 TOR 562-1-14 TOR 75-1-1/4 TOR 1330-1-1/4 TOR 1330-1-1/4 TOR 4/5/5-1/4 TOR 4/5/	TOR	3.48K-1-1/4							
TOR4 02K-1.14TOR5.11K-1.14TOR750.1.14TOR750.1.14TOR750.1.14TOR1K.1.14TOR1K.1.14TOR522.1.14TOR522.1.14TOR75.1.14TOR75.1.14TOR75.1.14TOR75.1.14TOR1330.1.14TOR1330.1.14TOR1330.1.14TOR14.5.14TOR14.5.14TOR14.5.14TOR14.5.14TOR14.5.14TOR14.5.14TOR14.5.14TOR14.5.14TOR14.5.14TOR14.5.14TOR14.5.14TOR14.5.14TOR14.1.14TOR47.5.14TOR46.1.14TOR26.1.14TOR26.1.14TOR10.1.14TOR10.1.14TOR10.1.14TOR11.5.1.14TOR11.5.1.14TOR11.5.1.14TOR12.5.1.14TOR13.5.1.14TOR14.5.1.14TOR14.5.1.14TOR14.5.1.14TOR14.5.1.14TOR14.5.1.14TOR14.5.1.14TOR14.5.1.14TOR14.5.1.14TOR14.5.1.14TOR14.5.1.14TOR14.5.1.14TOR14.5.1.14TOR14.5.1	STOR	3.83K-1-1/4							
TOR 4 64K-11/4 TOR 51K-11/4 TOR 750-1-1/4 TOR 750-1-1/4 TOR 1K-1-1/4 TOR 1K-1-1/4 TOR 1K-1-1/4 TOR 552-1-1/4 TOR 1330-1-1/4 TOR 1330-1-1/4 TOR 1330-1-1/4 TOR 1330-1-1/4 TOR 17K-5-1/4 TOR 17K-5-1/4 TOR 47K-5-1/4 TOR 464-1-1/4 TOR 2K-1-1/4 TOR 464-1-1/4 TOR 2K-1-1/4 TOR 464-1-1/4 TOR 464-1-1/4 TOR 261K-1-1/4 TOR 16-1-1/4 TOR	STOR	4.02K-1-1/4							
IUH 5.11K-11/4 TOR 750-11/4 TOR 750-11/4 TOR 1K-11/4 TOR 1K-11/4 TOR 1K-11/4 TOR 562-11/4 TOR 75.11/4 TOR 75.11/4 TOR 1330-11/4 TOR 4.7K-5.11/4 TOR 4.7K-5.11/4 TOR 4.7K-5.11/4 TOR 4.7K-5.11/4 TOR 4.7K-5.11/4 TOR 4.6K-1.11/4 TOR 4.6K-1.11/4 TOR 4.6K-1.11/4 TOR 4.6K-1.14 TOR 5.11K-1.14 TOR 5.11K-1.14 TOR	ISTOR	4.64K-1-1/4							
IVN FOU-1-1/4 TOR 750-1-1/4 TOR 1K-1-1/4 TOR 1K-1-1/4 TOR 552-1-1/4 TOR 552-1-1/4 TOR 552-1-1/4 TOR 552-1-1/4 TOR 552-1-1/4 TOR 552-1-1/4 TOR 75-1-1/4 TOR 1330-1-1/4 TOR 1330-1-1/4 TOR 1330-1-1/4 TOR 1330-1-1/4 TOR 10K-5-1/4 TOR 47K-5-1/4 TOR 47K-5-1/4 TOR 47K-5-1/4 TOR 47K-5-1/4 TOR 47K-5-1/4 TOR 464-1-1/4 TOR 10K-1-1/4 TOR 10K-1-1/4 TOR	TOR	5.11K-1-1/4							
Image: Second	STOR	750-1-1/4							
TOP TOP TOP, VARIABLE SK TOP, VARIABLE SK TOP S62-1-1/4 TOP TOP TOP TOP TOP TOP TOP TOP TOP TOP TOP TOP TOP K-5-1/4 TOP 464-1-1/4 TOP 261-1-1/4 TOP 464-1-1/4 TOP 261-1-1/4 TOP 178-1-1/4 TOP 178-1-1/4 TOP 178-1-1/4 <	TOR	1K-1-1/4							
TOR SK TOR 562.1.14 TOR 562.1.14 TOR 562.1.14 TOR 7.5.1.14 TOR 7.5.1.14 TOR 1330.1.14 TOR 1330.1.14 TOR 1330.1.14 TOR 1330.1.14 TOR 1330.1.14 TOR 1350.1.14 TOR 1350.1.14 TOR 186.5.14 TOR 478.5.14 TOR,VARIABLE 1 TOR 478.5.14 TOR,VARIABLE 1 TOR 478.5.14 TOR 24.1.14 TOR 44.1.14 TOR 11.14 TOR 44.1.14 TOR 11.14 TOR 14.1.14	STOR	1K-1-1/4							
TOR 562-1:14 TOR 562-1:14 TOR 75-1:14 TOR 75-1:14 TOR 75-1:14 TOR 1300-1:14 TOR 1300-1:14 TOR 1300-1:14 TOR 1300-1:14 TOR 10K-5:14 TOR 10K-5:14 TOR 47K-5:14 TOR 47K-5:14 TOR 47K-5:14 TOR 464-1:14 TOR 11K-1:14 TOR 11K-1:14 TOR 11K-1:14 TOR 11K-1:14 TOR 11K-1:14 TOR 11K-1:14 <td>TOR, VARIABLE</td> <td>5K</td> <td></td> <td></td> <td></td> <td></td> <td></td>	TOR, VARIABLE	5K							
TOR 562-1.1/4 TOR 75-1.1/4 TOR 75-1.1/4 TOR 1330-1.1/4 TOR 1330-1.1/4 TOR 1330-1.1/4 TOR 1330-1.1/4 TOR 1330-1.1/4 TOR 10K-5.1/4 TOR 4/K-5.1/4 TOR,VARIABLE K TOR 4/K-5.1/4 TOR 4/K-5.1/4 TOR 4/K-1.1/4 TOR 4/K-1.1/4 TOR 2/K-1.1/4 TOR 4/K-1.1/4 TOR 2/K-1.1/4 TOR 4/G-1.1/4 TOR 10-1.1/4 TOR 10-1.1/4 TOR 4/G-1.1/4 TOR 10/K-1.1/4 TOR 10/K-1.1/4 TOR 2/G/K-1.1/4 TOR 10/K-1.1/4 TOR 10/K-1.1/4 TOR 2/G/K-1.1/4 TOR 10/K-1.1/4 TOR 10/K-1.1/4 T	STOR	562-1-1/4							
TOR 75-1-1/4 TOR 1330-1-1/4 TOR 1330-1-1/4 TOR 1330-1-1/4 TOR 1K-5-1/4 TOR 1K-5-1/4 TOR 1K-5-1/4 TOR 4/K-5-1/4 TOR 4/K-5-1/4 TOR 4/K-5-1/4 TOR 4/K-5-1/4 TOR 4/K-1/4 TOR 4/K-1/4 TOR 2K-1.1/4 TOR 2K-1.1/4 TOR 2K-1.1/4 TOR 2K-1.1/4 TOR 4/G-1.1/4 TOR 4/G-1.1/4 TOR 10-1.1/4 TOR 10-1.1/4 TOR 10K-1.1/4 TOR 10K-1.1/4 TOR 10K-1.1/4 TOR 10K-1.1/4 TOR 10K-1.1/4 TOR 10K-1.1/4 TOR 261K-1.1/4 TOR 10-1.1/4 TOR 10-1.1/4 TOR 10-1.1/4 TOR 10-1.1/4 TOR	STOR	562-1-1/4							
IOH /5-1-1/4 TOR 1330-1-1/4 TOR 1330-1-1/4 TOR 1330-1-1/4 TOR K-5-1/4 TOR 4/K-5-1/4 TOR 4/K-5-1/4 TOR 4/K-5-1/4 TOR 4/K-5-1/4 TOR 4/K-5-1/4 TOR 4/K-1/4 TOR 4/K-1/4 TOR 2/K-1.1/4 TOR 10-1.1/4 TOR 4/K-1.1/4 TOR 1/K-1.1/4 TOR <	TOR	75-1-1/4							
IIUH I3JU-1/4 TOR I3SU-1/4 TOR IK-5.1/4 TOR 4.7K-5.1/4 TOR 4.7K-5.1/4 TOR,VARIABLE 1K TOR,VARIABLE 1K TOR 4.7K-5.1/4 TOR 4.7K-5.1/4 TOR 4.7K-5.1/4 TOR 4.64.1.1/4 TOR 2.61K-1.1/4 TOR 2.61K-1.1/4 TOR 2.61K-1.1/4 TOR 0.1.1/4 TOR 0.1.1/4 TOR 4.64K-1.1/4 TOR 4.64K-1.1/4 TOR 5.11K-1.1/4 TOR 1.78K-1.1/4 TOR 1.78K-1.1/4 TOR 1.78K-1.1/4 TOR 1.78K-1.1/4 TOR 1.0.1.1/4	TOR	75-1-1/4							
IOOM IOOM-11/4 TOR IOM-51/4 TOR IOK-51/4 TOR ATK-5-1/4 TOR,VARIABLE IK TOR 4.7K-5-1/4 TOR 4.7K-5-1/4 TOR 4.64-1.1/4 TOR 4.64-1.1/4 TOR 2.K-1.1/4 TOR 4.64-1.1/4 TOR 1.0-1.1/4 TOR 4.64-1.1/4 TOR 4.64-1.1/4 TOR 4.64-1.1/4 TOR 4.64-1.1/4 TOR 5.11K-1.1/4 TOR 1.0K-1.1/4	STOR	1330-1-1/4							
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Ston Stor Stor 4.64x-1.74 Stor 5.11K-1.74 Stor 10K-1.74 Stor 10K-1.74 Stor 1.78k-1.74	TOR	10-1-1/4							
Instruction Instruction IOR 5.11K-1-1/4 IOR 10K-1-1/4 IOR 10K-1-1/4 IOR 1.78K-1-1/4	IOR	404-1-1/4 4 64K-1-1/4							
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1.78K-1-1/4		10K-1-1/4							
	R	1.78K-1-1/4							