

# PROGRAMMING THE OLIVETTI MLU 600 MAGNETIC TAPE CARTRIDGE

## SEARCH BLOCK

CS Direct Address (In Manual Mode addresses block 0)

/S Indirect Address  
CS

## READ INSTRUCTIONS

/↓ Read into Zone 1  
r↓ Read into Zone 2  
a↓ Read into Zone 3

## RECORD INSTRUCTIONS

/↑ Record from Zone 1  
r↑ Record from Zone 2  
a↑ Record from Zone 3

## ZONES

C	D	E	F
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Zone 3

RC	RD	RE	RF
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Zone 2

P4	P3	P2	P1
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Zone 1

## BLOCK ADDRESS CODES

	(M)	R	A	B	C	D	E	F
S	0	1	2	3	4	5	6	7
↓	8	9	10	11	12	13	14	15
↑	16	17	18	19	20	21	22	23
↓	24	25	26	27	28	29	30	31
+	32	33	34	35	36	37	38	39
-	40	41	42	43	44	45	46	47
×	48	49	50	51	52	53	54	55
÷	56	57	58	59	60	61	62	63
◇	64	65	66	67	68	69	70	71
*	72	73	74	75	76	77	78	79
←	80	81	82	83	84	85	86	87
√	88	89	90	91	92	93	94	95
V	96	97	98	99	100	101	102	103
W	104	105	106	107	108	109	110	111
Y	112	113	114	115	116	117	118	119
Z	120	121	122	123	124	125	126	127
/S	128	129	130	131	132	133	134	135
/↓	136	137	138	139	140	141	142	143
/↑	144	145	146	147	148	149	150	151
/↓	152	153	154	155	156	157	158	159
/+	160	161	162	163	164	165	166	167
/-	168	169	170	171	172	173	174	175
/X	176	177	178	179	180	181	182	183
/÷	184	185	186	187	188	189	190	191
/◇	192	193	194	195	196	197	198	199
/*	200	201	202	203	204	205	206	207
/←	208	209	210	211	212	213	214	215

## ADDRESS SCHEMES FOR 8, 16, 32 BLOCKS/TRACK

### Address Scheme for 32 Blocks/Track

Track 1	255- 15- 0- 16- 1- 17- 2- 18- 3- 19- 4- 20- 5- 21- 6- 22- 7- 23- 8- 24- 9- 25- 10- 26- 11- 27- 12- 28- 13- 29- 14- 30
Track 2	31- 47- 32- 48- 33- 49- 34- 50- 35- 51- 36- 52- 37- 53- 38- 54- 39- 55- 40- 56- 41- 57- 42- 58- 43- 59- 44- 60- 45- 61- 46- 62
Track 3	63- 79- 64- 80- 65- 81- 66- 82- 67- 83- 68- 84- 69- 85- 70- 86- 71- 87- 72- 88- 83- 89- 74- 90- 75- 91- 76- 92- 77- 93- 78- 94
Track 4	95-111- 96-112- 97-113- 98-114- 99-115-100-116-101-117-102-118-103-119-104-120-105-121-106-122-107-123-108-124-109-125-110-126
Track 5	127-143-128-144-129-145-130-146-131-147-132-148-133-149-134-150-135-151-136-152-137-153-138-154-139-155-140-156-141-157-142-158
Track 6	159-175-160-176-161-177-162-178-163-179-164-180-165-181-166-182-167-183-168-184-169-185-170-186-171-187-172-188-173-189-174-190
Track 7	191-207-192-208-193-209-194-210-195-211-196-212-197-213-198-214-199-215-200-216-201-217-202-218-203-219-204-220-205-221-206-222

### Address Scheme for 16 Blocks/Track

Track 1	255- 7- 0- 8- 1- 9- 2- 10- 3- 11- 4- 12- 5- 13- 6- 14
Track 2	15- 23- 16- 24- 17- 25- 18- 26- 19- 27- 20- 28- 21- 29- 22- 30
Track 3	31- 39- 32- 40- 33- 41- 34- 42- 35- 43- 36- 44- 37- 45- 38- 46
Track 4	47- 55- 48- 56- 49- 57- 50- 58- 51- 59- 52- 60- 53- 61- 54- 62
Track 5	63- 71- 64- 72- 65- 73- 66- 74- 67- 75- 68- 76- 69- 77- 70- 78
Track 6	79- 87- 80- 88- 81- 89- 82- 90- 83- 91- 84- 92- 85- 93- 86- 94
Track 7	95-103- 96-104- 97-105- 98-106- 99-107-100-108-101-109-102-110

### Address Scheme for 8 Blocks/Track

Track 1	255- 3- 0- 4- 1- 5- 2- 6
Track 2	7- 11- 8- 12- 9- 13- 10- 14
Track 3	15- 19- 16- 20- 17- 21- 18- 22
Track 4	23- 27- 24- 28- 25- 29- 26- 30
Track 5	31- 35- 32- 36- 33- 37- 34- 38
Track 6	39- 43- 40- 44- 41- 45- 42- 46
Track 7	47- 51- 48- 52- 49- 53- 50- 54

### TAPE CARTRIDGE CAPACITY

Blocks/Track	8	16	32
Total Blocks	56	112	224
Total Full Registers (Data words of 30 digits)	224	448	896
Total Half Registers (Data words of 15 digits)	448	896	1,782
Total Quarter Registers (Data words of 7 digits)	896	1,792	3,584
Total Characters (32 instructions or characters per register)	7,168	14,336	28,672

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