State	ID	eein	newhit	hold	$\overline{DataValid}$	Maxroad	Opc.	$\overline{Done}$	$\overline{Sel}$	Pop	Push	EE Out	Epackage out	Error reg reset	Next State
Reset	0	x	x	x	x	x	NOP0	1	0	0	0	0	1	0	Init 1
Init 1	1	x	x	x	x	x	NOP0	1	0	0	0	0	1	0	Init 2
Init 2	2	x	x	x	x	x	CLRHIT	1	0	0	0	0	1	0	Init 3
Init 3	3	x	x	x	x	x	RESET	1	0	1	0	0	1	1	Waitforhit
Waitforhit	4	x	1	x	x	x	NOP0	1	0	0	0	0	1	0	Processhit
Waitforhit	4	1	0	x	x	x	NOP0	1	0	0	0	0	1	0	Startcount
Waitforhit	4	0	0	x	x	x	NOP0	1	0	0	0	0	1	0	Waitforhit
Processhit	5	x	1	x	x	x	INPUT	1	0	0	0	0	1	0	Processhit
Processhit	5	1	0	x	x	x	INPUT	1	0	0	0	0	1	0	Startcount
Processhit	5	0	0	x	x	x	INPUT	1	0	0	0	0	1	0	waitforhit
Startcount	64	x	x	x	x	x	CLRCNT	1	0	0	0	0	1	0	Count 0
Count 0	6	x	x	x	x	x	COUNT	1	0	0	0	0	1	0	Count 1
Count 1	7	x	x	x	x	x	COUNT	1	0	0	0	0	1	0	Count 2
Count 2	8	x	x	x	x	x	COUNT	1	0	0	0	0	1	0	Count 3
Count 3	9	x	x	x	x	x	COUNT	1	0	0	0	0	1	0	Count 4
Count 4	10	x	x	x	x	x	COUNT	1	0	0	0	0	1	0	Count 5
Count 5	11	x	x	x	x	x	COUNT	1	0	0	0	0	1	0	Sync Glue
Sync Glue	50	x	x	x	x	x	NOP0	1	0	0	0	0	1	0	Wait 1
Wait 1	12	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 2
Wait 2	13	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 3
Wait 3	14	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 4
Wait 4	15	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 5
Wait 5	30	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 6
Wait 6	31	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 7
Wait 7	32	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 8
Wait 8	33	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 9
Wait 9	34	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 10
Wait 10	35	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 11
Wait 11	36	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 12
Wait 12	37	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 13
Wait 13	38	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 14
Wait 14	39	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 15
Wait 15	40	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 16
Wait 16	41	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 17
Wait 17	42	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 18
Wait 18	43	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Endwait
Endwait	19	x	x	x	x	1	OUTPUT	1	0	0	0	0	1	0	End Output
Endwait	19	x	x	1	x	0	OUTPUT	1	0	0	0	0	1	0	Endwait
Endwait	19	x	x	0	1	0	OUTPUT	1	0	0	0	0	1	0	Process Road
Endwait	19	x	x	0	0	0	OUTPUT	1	0	0	0	0	1	0	No DV 1
No DV 1	20	x	x	x	x	1	OUTPUT	1	0	0	0	0	1	0	End Output
No DV 1	20	x	x	1	x	0	OUTPUT	1	0	0	0	0	1	0	No DV 1
No DV 1	20	x	x	0	1	0	OUTPUT	1	0	0	0	0	1	0	Process Road
No DV 1	20	x	x	0	0	0	OUTPUT	1	0	0	0	0	1	0	No DV 2
No DV 2	21	x	x	x	x	1	OUTPUT	1	0	0	0	0	1	0	End Output
No DV 2	21	x	x	1	x	0	OUTPUT	1	0	0	0	0	1	0	No DV 2
No DV 2	21	x	x	0	1	0	OUTPUT	1	0	0	0	0	1	0	Process Road
No DV 2	21	x	x	0	0	0	OUTPUT	1	0	0	0	0	1	0	End Output
Process Road	22	x	x	x	x	x	OUTPUT	0	0	0	1	0	1	0	Endwait
End Output	23	x	x	1	x	x	NOP0	1	0	0	0	0	1	0	End Output
End Output	23	x	x	0	x	x	NOP0	1	0	0	0	0	1	0	Do Shift
Do Shift	111	x	x	x	x	x	SHIFT	1	0	0	0	0	1	0	Sync Glue s
Sync Glue s	150	x	x	x	x	x	NOP0	1	0	0	0	0	1	0	Wait 1 s
Wait 1 s	112	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 2 s
Wait 2 s	113	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 3 s
Wait 3 s	114	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 4 s
Wait 4 s	115	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 5 s
Wait 5 s	130	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 6 s
Wait 6 s	131	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 7 s
Wait 7 s	132	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 8 s
Wait 8 s	133	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 9 s
Wait 9 s	134	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 10 s
Wait 10 s	135	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 11 s
Wait 11 s	136	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 12 s
Wait 12 s	137	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 13 s
Wait 13 s	138	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 14 s
Wait 14 s	139	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 15 s
Wait 15 s	140	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 16 s
Wait 16 s	141	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 17 s
Wait 17 s	142	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Wait 18 s
Wait 18 s	143	x	x	x	x	x	OUTPUT	1	0	0	0	0	1	0	Endwait s
Endwait s	119	x	x	x	x	1	OUTPUT	1	0	0	0	0	1	0	End Output s
Endwait s	119	x	x	1	x	0	OUTPUT	1	0	0	0	0	1	0	Endwait s
Endwait s	119	x	x	0	1	0	OUTPUT	1	0	0	0	0	1	0	Process Road s
Endwait s	119	x	x	0	0	0	OUTPUT	1	0	0	0	0	1	0	No DV 1 s
No DV 1 s	120	x	x	x	x	1	OUTPUT	1	0	0	0	0	1	0	End Output s
No DV 1 s	120	x	x	1	x	0	OUTPUT	1	0	0	0	0	1	0	No DV 1 s
No DV 1 s	120	x	x	0	1	0	OUTPUT	1	0	0	0	0	1	0	Process Road s
No DV 1 s	120	x	x	0	0	0	OUTPUT	1	0	0	0	0	1	0	No DV 2 s
No DV 2 s	121	x	x	x	x	1	OUTPUT	1	0	0	0	0	1	0	End Output s
No DV 2 s	121	x	x	1	x	0	OUTPUT	1	0	0	0	0	1	0	No DV 2 s
No DV 2 s	121	x	x	0	1	0	OUTPUT	1	0	0	0	0	1	0	Process Road s
No DV 2 s	121	x	x	0	0	0	OUTPUT	1	0	0	0	0	1	0	End Output s
Process Road s	122	x	x	hold	x	x	OUTPUT	0	0	0	1	0	1	0	Endwait s
End Output s	123	x	x	1	x	x	NOP0	1	0	0	0	0	1	0	End Output s
End Output s	123	x	x	0	x	x	NOP0	1	0	0	0	0	1	0	Waitparity
Waitparity	24	x	x	x	x	x	NOP0	1	0	0	0	0	1	0	End Event
End Event	25	x	x	x	x	x	NOP0	1	0	0	0	1	1	0	Init 2

Table 1: AC sequencer state table