

5:02:09:01.02. Test of tabulating equipment. The person in charge of the election shall conduct tests of the automatic tabulating equipment as required in SDCL [12-17B-5](#) and [12-17B-12](#). The tests shall be conducted by processing a preaudited group of ballots in a test deck marked to record a predetermined number of valid votes for each candidate and each measure. A tally sheet shall be created prior to the machine count to fully show how the sample of ballots is marked and what the machine vote totals must be to prove an errorless count. If more than one ballot is used in the election, a test deck shall be made for each ballot that is unique in any way. The test deck(s) shall include for each office and ballot question:

- (1) One or more ballots with a vote for each candidate and each side of a ballot question;
- (2) One or more ballots which have votes in excess of the number allowed by law for each office and question; and
- (3) One or more ballots which contain an undervote.
- (4) All candidates and ballot questions must have a unique number of votes used, and must not be repeated or used again anywhere on the ballot. Each race must utilize a unique prime number within the race that is unique and not repeated or used again anywhere on the ballot.

At least twenty-five test ballots shall be included in the total of all test decks. Individual test decks for individual ballots shall be of sufficient size to prove the accuracy of the system. If absentee ballots are to be received folded, at least ten percent of the test ballots in any individual test deck shall be similarly folded. The person conducting the test of the tabulating equipment shall date and sign the printout, verifying that the results of the machine's printed paper vote totals exactly match the tally sheet from which the sample of ballots was marked. The test deck(s), tally sheet, and signed printout must be secured and retained with the official ballots.

The test procedure shall include the processing of at least one ballot completely blank to verify that the machine is correctly configured according to SDCL [12-17B-13.1](#).

If more than one tabulating machine is to be used in the election, each machine shall be fully tested according to the ballot(s) which each machine will be used to count in the election.

In addition to these tests, any test deck may be processed any time before or after completion of the official count.

See Below for Prime Number Chart:

Chart of Prime Number Guide for Ballots

	Prime Number Test Deck							
Race	Candidate Issue A	Candidate Issue B	Candidate Issue C	Candidate Issue D	Candidate Issue E		Max Ballots Used	
	Prime Number Required to be used in each race on ballot	Numbers can only be used once on the ballot						
1	23	11	12	13	14		37	
2	29	16	17	18	19		48	
3	31	20	21	24	25		56	
4	37	26	27	28	30		67	
5	41	32	33	34	35		76	
6	43	36	38	39	40		83	
7	47	42	44	45	46		93	
8	53	48	49	50	51		104	
9	59	52	54	55	56		115	
10	61	57	58	60	62		123	
11	67	63	64	65	66		133	
12	71	68	69	70	72		143	
13	73	74	75	76	77		150	
14	79	78	80	81	82		161	
15	83	84	85	86	87		170	
16	89	88	90	91	92		181	
17	97	93	94	95	96		193	
18	101	98	99	100	102		203	
19	103	104	105	106	108		211	
20	107	110	111	112	114		221	
21	109	115	116	117	118		227	
22	113	119	120	121	123		236	
23	127	124	125	126	128		255	
24	131	129	130	132	133		264	
25	137	134	135	136	138		275	
26	139	140	142	143	144		283	
27	149	145	146	147	148		297	
28	151	150	152	153	154		305	
29	157	155	156	158	159		316	
30	163	160	161	162	163		326	
31	167	165	166	167	168		335	
32	173	169	170	171	172		345	

33	179	174	175	176	177		356
34	181	180	182	183	184		365
35	191	185	186	187	188		379
36	193	189	190	192	193		386
37	197	194	195	196	198		395
38	199	200	201	202	203		402
39	211	204	205	206	207		418
40	223	208	209	210	212		435
41	239	213	214	215	216		455
42	241	217	218	219	220		461
43	251	221	224	225	226		477
44	257	227	228	229	230		487
45	263	231	232	233	234		497
46	269	235	236	237	238		507
47	271	240	242	243	244		515
48	277	245	246	247	248		525
49	281	249	250	252	253		534
50	283	254	255	256	258		541
51	293	259	260	261	262		555

For Extra candidates for a race the following unique numbers may be used.

		Candidate Issue F	Candidate Issue G	Candidate Issue H	Candidate Issue I		
		1	2	3	4		
		5	6	7	8		
		9	10	264	265		
		266	267	268	270		
		272	273	274	275		
		276	278	279	280		