

TrainBossTM Defect Detector

SV Worksheet for Talking Detector

Model Nos. TB-23F & TB-23M

SV 1 – 6: Defect Probabilities

SV	1	2	3	4	5	6
Value						

SV 7: Axle Sensor Separation or Axle Sensor Time Out

SDO Only
CZO Only

SV	7
Value	

SV 8: Engine Axles

SV	8
Value	

SV 9: Temperature

SV	9
Value	

SV 10: Speed Limit SDO Only

SV	10
Value	

SV 11: LED Output 1 Behavior

Bit 7	6	5	4	3	2	1	Bit 0
Rsrvd	Clr Rpt	ClrTime	DbITime	Dir Sense*	Invert	Output Action	

* Valid in SDO and CZO Only

SV 12: LED Output 2 Behavior

Bit 7	6	5	4	3	2	1	Bit 0
Opp 1*	Clr Rpt	ClrTime	Reserved	Invert	Output Action		

* Valid in SDO and CZO Only

SV 13: LED Output 1 Flash Pattern

Bit 7	6	5	4	3	2	1	Bit 0
8th	7th	6th	5th	4th	3rd	2nd	1st

SV 14: LED Output 2 Flash Pattern

Bit 7	6	5	4	3	2	1	Bit 0
8th	7th	6th	5th	4th	3rd	2nd	1st

SV 15: Control 1

Bit 7	6	5	4	3	2	1	Bit 0
Install Options*	Max Defects	No Eng	Display	Round	Rnd Up		

* Selects SDO/DDO/CZO

SV 16: OK Message Control

Bit 7	6	5	4	3	2	1	Bit 0
OK Msg	Rsrvd	Dir Sense*	Axle	Speed*	Length*	Temp	Close

* Valid in SDO Only

SV 17: Defect Message Control

Bit 7	6	5	4	3	2	1	Bit 0
Reserved	Dir Sense*	First	Repeat	EOT	Temp	Close	

* Valid in SDO Only

SV 18: Control 2

Bit 7	6	5	4	3	2	1	Bit 0
Mute Err	Malfunc	Static	Greet	Short	Slang	RR Dir	Mute

SV 20 – 39: OK Header 1

SVs	Message Type	Segment	Number of Values
20 – 39	OK	Header	20

SV	20	21	22	23	24	25	26	27	28	29
Value										
SV	30	31	32	33	34	35	36	37	38	39
Value										

SV 40 – 69: Defect Header 1

SVs	Message Type	Segment	Number of Values
40 – 69	Defect	Header	30

SV	40	41	42	43	44	45	46	47	48	49
Value										
SV	50	51	52	53	54	55	56	57	58	59
Value										
SV	60	61	62	63	64	65	66	67	68	69
Value										

SV 70 – 74: OK Body

SVs	Message Type	Segment	Number of Values
70 – 74	OK	Body	5

SV	70	71	72	73	74
Value					

SV 75 – 77: Axle

SVs	Message Type	Segment	Number of Values
75 – 77	OK	Trailer	3

SV	75	76	77
Value			

SV 78 – 79: Speed – Lead*SDO Only*

SVs	Message Type	Segment	Number of Values
78 – 79	OK	Trailer	2

SV	78	79
Value		

SV 80 – 82: Speed – Follow*SDO Only*

SVs	Message Type	Segment	Number of Values
80 – 82	OK	Header	3

SV	80	81	82
Value			

SV 83 – 84: Length*SDO Only*

SVs	Message Type	Segment	Number of Values
83 – 84	OK	Trailer	2

SV	83	84
Value		

SV 85 – 89: Close 1

SVs	Message Type	Segment	Number of Values
85 – 89	Both	Trailer	5

SV	85	86	87	88	89
Value					

SV 90: Defect Ending

SVs	Message Type	Segment	Number of Values
90	Defect	Trailer	1

SV	90
Value	

SV 91 – 99: Short Greeting 1

SVs	Message Type	Segment	Number of Values
91 – 99	Greeting	Greeting	9

SV	91	92	93	94	95	96	97	98	99
Value									

SV A0 – B9: OK Header 2*(Enabled in SDO by SV16, Bit 5)*

SVs	Message Type	Segment	Number of Values
A0 – B9	OK	Header	20

SV	A0	A1	A2	A3	A4	A5	A6	A7	A8	A9
Value										
SV	B0	B1	B2	B3	B4	B5	B6	B7	B8	B9
Value										

SV C0 – E9: Defect Header 2*(Enabled in SDO by SV17, Bit 5)*

SVs	Message Type	Segment	Number of Values
C0 – E9	Defect	Header	30

SV	C0	C1	C2	C3	C4	C5	C6	C7	C8	C9
Value										
SV	D0	D1	D2	D3	D4	D5	D6	D7	D8	D9
Value										
SV	E0	E1	E2	E3	E4	E5	E6	E7	E8	E9
Value										

SV F1 – F8: Short Greeting 2*(Enabled in SDO by SV16, Bit 5)*

SVs	Message Type	Segment	Number of Values
F0 – F8	Greeting	Greeting	9

SV	F0	F1	F2	F3	F4	F5	F6	F7	F8
Value									

SV F9 – G3: Close 2

SVs	Message Type	Segment	Number of Values
F9 – G3	Both	Trailer	5

SV	F9	G0	G1	G2	G3
Value					