

Spares

CHECKWEIGHER MACHINE RECORD SHEET

Company BASKIN ROBBINS Job No. 940072

Address SOUTHBURY, CT Date Shipped 05/23/94

Machine Model No. CM6500SH-CM Serial No. 11428 Paint *

Drive Chain: P/N A85XX3500 Length 10'

Scale Chain/Belt: P/N B31MC0000 Qty. 4 Length 54"

Open Ended X Endless * Splice *

Belts: Fast Infeed P/N 2D-01C-0056 FPM 52 Qty 1

Finished Length 41" Splice LAMINATED ENDLESS

Slow Infeed P/N * FPM * Qty *

Finished Length * Splice *

Discharge Belt P/N 2D-01C-0056 FPM 52 Qty 1

Finished Length 46" Splice LAMINATED ENDLESS

Side Transports: Infeed Belt P/N * FPM * Qty *

Finished Length *

Discharge Belt P/N * FPM * Qty *

Finished Length *

Rejector: Type PUSH PLOW Valves P/N M82VA4232 Qty 2

Cylinders P/N 2H-01C-0048 Qty 2

Scale Specs: HI-SPEED S/N DS-14 Load Cell P/N 1C-02T-0001

Load Cell S/N 1442 & 1443 Scale Assy. Print No. *

Max. Capacity 50# Set-up Weight 1 LB Total Travel ±.009"

Spring & Flexure: Transducer P/N * Spring P/N *

Flexure P/N * Lockplates *

Balanced Gross Weight * Total Net Weight *

Total Travel * Orifice *

Fluid * Enclosure P/N *

Scale Platform Length 8" Conveyor FPM 52 Pkg./Min. 80

Sprocket/Roller P/N B47MC0000 Qty. 4 Bore .75"

Motor: P/N A40RE3900 Volts 230/460 Phase 3 Cycle 60 HP .5
ducer: P/N A60BG7201

Control Specs: Model No. CHECKMATE Serial No. CM-11428

Machine To Control Length 6'

Photoeyes: Type RETRO P/N F73XX0201 (X2)

Logic Module F74XX0223 (X2) Power Block F74XX0233 (X2)

Transformer: Type * P/N *

Product Specifications: Actual X Facsimile *

Product ICE CREAM Container CLOSED CONTAINER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

Size:	BOTTOM L/DIA.	TOP DIA	HT	WT	PKG/MIN
1)	<u>3.00</u>	<u>3.88</u>	<u>4.00</u>	<u>8 oz</u>	<u>80</u>
2)	<u>3.50</u>	<u>4.50</u>	<u>5.25</u>	<u>16 oz</u>	<u>80</u>
3)	<u>*</u>	<u>*</u>	<u>*</u>	<u>*</u>	<u>*</u>
4)	<u>*</u>	<u>*</u>	<u>*</u>	<u>*</u>	<u>*</u>

ALL WEIGHTS ARE IN GRAMS UNLESS OTHERWISE NOTE

	LINE 1	LINE 1	LINE 2	LINE 2	
Test Package Weight	1) <u>500.0</u>	2) <u>253.0</u>	3) <u>500.0</u>	4) <u>253.0</u>	
Average Displayed WT	1) <u>500.074</u>	2) <u>252.9</u>	3) <u>500.125</u>	4) <u>252.96</u>	
Standard Deviation	1) <u>.19</u>	2) <u>0.28</u>	3) <u>0.22</u>	4) <u>0.22</u>	
Accuracy at 2 Sigma \pm	1) <u>0.38</u>	2) <u>0.56</u>	3) <u>0.44</u>	4) <u>0.44</u>	
Quoted Accuracy \pm	1) <u>1.5</u>	2) <u>1.0</u>	3) <u>1.5</u>	4) <u>1.0</u>	

Assembled By JUSTIN CHAFFIN Tested By JUSTIN CHAFFIN

REV 12/11

See FRO 321004 for update

* CHECKMATE CONTROL RECORD SHEET *

D R A W I N G S

CheckMate Main Wiring	D2-81-265
SSR Wiring	D2-81-292
Power Supply-Digital	B2-81-102
Power Supply-Analog	B2-81-103
Leg Panel Wiring	B2-81-110
MultiScale Serial Out	A2-81-353

CUSTOMER Baskin Robbins

JOB NUMBER 940072 QTY 1

MACH MODEL CM6500SH-CM BY EAR

S/N CM- 11428 DATE 03/10/94

E N C L O S U R E

PART NUMBER	QTY TOT	DESCRIPTION	
CODE CNA		CRS ENCLOSURE	
		PAINT: Version 2	
CODE CNS	1	1	STAINLESS STEEL
			ENCLOSURE
6B-01F-0042	2	2	27C256
			BIOS EPROM
6B-01F-0039	3	3	SOFTWARE: 5500
27C010 PROM			

- O P T I O N S
- *****
- [*] 1A -- SCALE EYE: RETRO OR PROX
 - [] 1B -- SCALE EYE: THROUGH BEAM
 - [] 1C -- SCALE EYE: PHOTO CAM
 - [] 1D -- LIMIT SWITCH(ES)
 - [] 1E -- SCALE EYE: ULTRSNC/LT SCR
 - [] 1F -- TIMING EYE: RETRO OR PROX
 - [*] 2A -- LOAD CELL SCALE: CHAN A
 - [] 2B -- LOAD CELL SCALE: CHAN B
 - [] 2C -- DCDT SCALE: CHANNEL A
 - [] 2D -- DCDT SCALE: CHANNEL B
 - [*] 3A -- THREE ZONE LIGHT OUTPUTS
 - [] 3B -- FIVE ZONE LIGHT OUTPUTS
 - [*] 4A -- SOLENOID AIR VALVE-REJECT
 - [] 4B -- SOLENOID AIR VALVE-DSCHRG
 - [] 4C -- SOLENOID AIR VALVE-ACCEPT
 - [] 4D -- SOLENOID AIR VALVE-UNDER
 - [] 4E -- SOLENOID AIR VALVE-OVER
 - [] 4F -- CONTROL SIG.-INFEEED CONVEY
 - [] 4G -- CONTROL SIG.-SCALE CONVEY
 - [] 5A -- ALARM OUTPUT: SCALE NOISE
 - [] 5B -- ALARM OUTPUT: NEEDS REZERO
 - [] 5C -- ALARM OUTPUT: STD DEVIATN
 - [] 5D -- ALARM OUTPUT: AVERAGE
 - [] 6A -- SERIAL I/O A -- RS232
 - [] 6B -- SERIAL I/O A -- RS422/EZW
 - [*] 6C -- SERIAL I/O B -- RS232/WTS
 - [] 6D -- SERIAL I/O B -- RS422
 - [] 6E -- SERIAL I/O C -- RS232/AUX
 - [] 6F -- SERIAL I/O C -- RS422
 - [] 6G -- SERIAL I/O C -- 20mA
 - [] 7A -- PARALLEL PRINTER
 - [] 7B -- SERIAL PRINTER
 - SECOND SCALE EYE [] 8A - RET
 - [] 8B-THRU [] 8C-CAM [] 8D-SCRN
 - [] 9A - ACC ENA [] 9B - AUTO REJ
 - [*] 9C - KEYSWITCH [] 9D - REZERO
 - [] 10A - FEEDBACK CHAN 1 - TIMED
 - [] 10B - FEEDBACK CHAN 1 - PULSED
 - [] 10C - FEEDBACK CHAN 2 - TIMED
 - [] 10D - FEEDBACK CHAN 2 - PULSED
 - [] 11A - D/A OUTPUT - VSD
 - [] 11B - D/A OUTPUT - FEEDER
- *****

SSR	FUNCTION	USE	SSR	FUNCTION	USE
1	ZONE 1	*	11	SCALE CONV	
2	ZONE 2	*	12	SCALE NOISE	
3	ZONE 3	*	13	NEED REZERO	
4	ZONE 4		14	STD DEV ALM	
5	ZONE 5		15	AVERAGE ALM	
6	REJ/UNDER	*	16	SERVO INHIB	
7	2nd REJ/OV		17	SERVO UP	
8	ACCEPT		18	SERVO DOWN	
9	DISCHARGE		19	XofY ALARM	
10	INFEEED CON		20	CONSEC REJ	

T I M E R S

DESCRIPTION	VALUE
Delay to Reject	2.3 2.3
Reject Duration	.25 .25
Zone Light Duration	.10 .10
Delay to Reject Under	
Delay to Reject Over	

UL LISTED [] NO

[*] YES -- UL # AB-754058

Smart Analog PCB # 1 Assembly: P2-80-130
 Program: 6000 Hardware Configuration

Load Cell # <u>1</u> Wiring						JMPR1	JMPR2	JMPR3	JMPR4
Load Cell Type: <u>DS-14</u>	Cap: <u>50#</u>					[] 1-2	[*] 1-2	[] 1-2	[] 1-2
						[] 2-3	[*] 3-4	[] 2-3	[*] 2-3
							[] 5-6		
							[] 7-8		
SIG	L.C.	To	EXT.	To	TS4	JMPR5	JMPR6	JMPR7	
+LC	WHT	<-->	WHT	<-->	1	[] 1-2	[*] 1-2	[*] 1-2	
-LC	RED	<-->	RED	<-->	2	[] 2-3	[*] 3-4	[*] 3-4	
EGND	SHLD	<-->	SHLD	<-->	7		[*] 5-6	[*] 5-6	
							[*] 7-8	[*] 7-8	
+EX	GRN	<-->	GRN	<-->	4	JMPR8	JMPR9	JMPR10	JMPR11
+S	---	<-->	---	<-->	3	[*] 1-2	[] 1-2	[] 1-2	[*] 1-2
-S	---	<-->	---	<-->	6	[] 2-3		[*] 2-3	[] 2-3
-EX	BLK	<-->	BLK	<-->	5	JMPR12	JMPR13	JMPR14	
						[] 1-2	[] 1-2	[] 1-2	
						[*] 2-3	[*] 2-3	[*] 3-4	
Jmpr TS4-3 to TS4-4 & TS4-5 to TS4-6								[*] 5-6	

 SOFTWARE CONFIGURATION DATA

Program: 5500

[940072] Job Number	[Std] Reject Type
[2] Number of Scales	[] Speed Control by CheckMate
[50] Number of Products per Scale	[] Average Alarm Out
[3] Number of Zones [0] Pivot Zone	[] Standard Deviation Alarm Out
[] Fast System	[] Scale Noise Alarm Out
[] Narrow Range Scale	[] Needs Rezero Alarm Out
[None][SANone] EZWay Interfaces	[] X of Y Alarm Out
[Full] Statistics Level	[] Consecutive Reject Alarm Out
[None] Feedback Type	[] Fault Indicator
[*] Serial Netweights Out	[] Accept Enable Input
[] Inkjet Printer Interface	[] IMSU / Camswitch Interrogate
[] Report Output	[] _____
[] MultiHead Statistics	[] _____

| Smart Analog PCB # 2 | Assembly: P2-80-130 |
 | Program: 6000 | Hardware Configuration |
 =====

Load Cell # <u>2</u> Wiring	JMPR1	JMPR2	JMPR3	JMPR4
[] 1-2	[*] 1-2	[] 1-2	[] 1-2	[] 1-2
Load Cell Type: <u>DS-14</u> Cap: <u>50#</u>	[*] 2-3	[*] 3-4	[*] 2-3	[] 2-3
		[] 5-6		
		[] 7-8		

SIG	L.C.	To	EXT.	To	TS4	JMPR5	JMPR6	JMPR7	
+LC	WHT	<-->	WHT	<-->	1	[] 1-2	[*] 1-2	[*] 1-2	
-LC	RED	<-->	RED	<-->	2	[] 2-3	[*] 3-4	[*] 3-4	
EGND	SHLD	<-->	SHLD	<-->	7		[*] 5-6	[*] 5-6	
							[*] 7-8	[*] 7-8	
+EX	GRN	<-->	GRN	<-->	4	JMPR8	JMPR9	JMPR10	JMPR11
						[*] 1-2	[] 1-2	[] 1-2	[*] 1-2
+S	---	<-->	---	<-->	3	[] 2-3		[*] 2-3	[] 2-3
-S	---	<-->	---	<-->	6				
-EX	BLK	<-->	BLK	<-->	5	JMPR12	JMPR13	JMPR14	
						[] 1-2	[] 1-2	[*] 1-2	
						[*] 2-3	[*] 2-3	[] 3-4	
Jmpr TS4-3 to TS4-4 & TS4-5 to TS4-6								[*] 5-6	

CHECKMATE CONTROL CALIBRATION RECORD SHEET

CUSTOMER BASKIN ROBBINS DATE 05/18/94
JOB NUMBER 940072 MODEL CM6500SH-CM
SERIAL NUMBER 11428 BUILT BY JUSTIN CHAFFIN

PRODUCT NUMBER 1 THRU 10 SPEED 52 FPM, 80 FPM
SPEED CONTROL N/A PACKAGE WEIGHT 80 oz & 16 oz

(MENU 6-3)

DTW THRESHOLD % 85 DTW ADJUSTMENT 0.125
RST THRESHOLD % 75 RST ADJUSTMENT 0.135
DTR THRESHOLD % 5 DTR ADJUSTMENT 0.250
NUMBER OF SAMPLES TO AVERAGE 5

RANGE AROUND REZERO IN PERCENTAGE OF WEIGHT 20
PERCENT CHANGE ALLOWED FOR REZERO WITHIN RANGE 25
PERCENT OF TARGET WEIGHT ABOVE WHICH REZERO IS PREVENTED 35
SLOPE TOLERANCE OF REZERO ATTEMPT IN PERCENT OF TARGET 15.00
SCALE NOISE LIMITS IN PERCENT OF TARGET WEIGHT 30.00

(MENU 6-4)

GAIN SETTING 7 OFFSET SETTING 425
DTR TIMER 0.413 DTR TIMER 1.344
R 0.302 FILTER CUTOFF 2.65 HZ
LOCKOUT TIMER 0.400

(MENU 2-1-1)

DELAY TO REJECT 2.300 AUX DELAY TO REJECT *
REJECT DURATION 0.250 ZONE LIGHT DURATION 0.10

(MENU 2-4-4)

AUTO SPEED VSD SETTING N/A

(MENU 2-4-5)

TIMING EYE DIVIDER VALUE N/A

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RANGE AROUND REZERO IN PERCENTAGE OF WEIGHT 20
 PERCENT CHANGE ALLOWED FOR REZERO WITHIN RANGE 25
 PERCENT OF TARGET WEIGHT ABOVE WHICH REZERO IS PREVENTED 35
 SLOPE TOLERANCE OF REZERO ATTEMPT IN PERCENT OF TARGET 15.00
 SCALE NOISE LIMITS IN PERCENT OF TARGET WEIGHT 30.00

(MENU 6-4)

GAIN SETTING 7 OFFSET SETTING 444
 DTW TIMER 0.429 DTR TIMER 1.354
0.310 FILTER CUTOFF 2.58 HZ
 LOCKOUT TIMER 0.400

(MENU 2-1-1)

DELAY TO REJECT 2.300 AUX DELAY TO REJECT *
 REJECT DURATION 0.250 ZONE LIGHT DURATION 0.10

(MENU 2-4-4)

AUTO SPEED VSD SETTING N/A

(MENU 2-4-5)

TIMING EYE DIVIDER VALUE N/A

10/96 FRO 321004

Analog PCB # 1 Assembly: P2-80-130
Program: 6333 Hardware Configuration

Load Cell #	Wiring	JMPR1	JMPR2	JMPR3	JMPR4
1		[] 1-2	[*] 1-2	[] 1-2	[] 1-2
	Load Cell Type: DS-14 Cap: 50#	[] 2-3	[*] 3-4	[] 2-3	[*] 2-3
			[] 5-6		
			[] 7-8		

SIG	L.C.	To	EXT.	To	TS4	JMPR5	JMPR6	JMPR7
+LC	WHT	<-->	WHT	<-->	1	[] 1-2	[*] 1-2	[*] 1-2
-LC	RED	<-->	RED	<-->	2	[] 2-3	[*] 3-4	[*] 3-4
							[*] 5-6	[*] 5-6
							[*] 7-8	[*] 7-8
EGND	SHLD	<-->	SHLD	<-->	7			

					JMPR8	JMPR9	JMPR10	JMPR11
+EX	GRN	<-->	GRN	<-->	4	[*] 1-2	[] 1-2	[] 1-2
+S		<-->		<-->	3	[] 2-3	[*] 2-3	[] 2-3
-S		<-->		<-->	6			

					JMPR12	JMPR13	JMPR14
-EX	BLK	<-->	BLK	<-->	5	[] 1-2	[] 1-2
					[*] 2-3	[*] 2-3	[*] 3-4
							[*] 5-6

Jmpr TS4-3 to TS4-4 & TS4-5 to TS4-6

SOFTWARE CONFIGURATION DATA

Program: 5500
[940072] Job Number [Std] Reject Type
[2] Number of Scales [] Speed Control by CheckMate
[50] Number of Products per Scale [] Average Alarm Out
[3] Number of Zones [0] Pivot Zone [] Standard Deviation Alarm Out
[] Fast System [] Scale Noise Alarm Out
[] Narrow Range Scale [] Needs Rezero Alarm Out
[None][SANone] EZWay Interfaces [] X of Y Alarm Out
[Full] Statistics Level [] Consecutive Reject Alarm Out
[None] Feedback Type [] Fault Indicator
[*] Serial Netweights Out [] Accept Enable Input
[] Inkjet Printer Interface [] IMSU / Camswitch Interrogate
[*] Report Output *parallel printer output* [] _____
[] MultiHead Statistics [] _____
