

SERVICE

Option Programming
and D2400 Settings
for Wayne Enhanced
Duplex II Pump
Computers Equipped
with A.T.C./F.T.B.
and P.O.B.



INDEX

1/VISTA 387 AND 2/VISTA 387	1
CONTROL SYSTEM PROGRAMMING.....	3
1/VISTA 389 AND 2/VISTA 389	4
CONTROL SYSTEM PROGRAMMING.....	6
1/VISTA 390 AND 2/VISTA 390	7
CONTROL SYSTEM PROGRAMMING.....	10
1/VISTA 390U AND 2/VISTA 390U	11
CONTROL SYSTEM PROGRAMMING.....	14
1/VISTA 395 AND 2/VISTA 395	15
CONTROL SYSTEM PROGRAMMING.....	19
1/VISTA 580 AND 2/VISTA 580	20
CONTROL SYSTEM PROGRAMMING.....	23
1/VISTA 585 AND 2/V585	24
CONTROL SYSTEM PROGRAMMING.....	27
1/VISTA 590 AND 2/VISTA 590	28
CONTROL SYSTEM PROGRAMMING.....	31
HIGH SPEED 1/VISTA 387	33
CONTROL SYSTEM PROGRAMMING.....	35
HIGH SPEED 1/VISTA 387 EXPORT	36
CONTROL SYSTEM PROGRAMMING.....	39
1/L361 G2001 G2201 G2007R G2207R	40
CONTROL SYSTEM PROGRAMMING.....	43
1/L362 G2002 G2202 G2007 G2207	44
CONTROL SYSTEM PROGRAMMING.....	47
1/L363 G2003 G2203	48
CONTROL SYSTEM PROGRAMMING.....	51
HS1/L361 G2031 G2037R	52
CONTROL SYSTEM PROGRAMMING.....	55
HS1/L362 G2032 G2037 G2077	56
CONTROL SYSTEM PROGRAMMING.....	59
HS1/L363 G2033	60
CONTROL SYSTEM PROGRAMMING.....	63
APPENDIX A FAULT CODES	64
ATC ERROR CODE DESCRIPTIONS	69
APPENDIX B ATC DRAWINGS	71

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 387 AND 2/VISTA 387

<u>OPTION</u>	<u>SETTING</u>	<u>DESCRIPTION</u>
01	READ ONLY	CODE HISTORY
02*	02	MACRO SETTING
04*	02 = 1/VISTA	05 = 2/VISTA LITRES
05	01	NOZZLE CONFIGURATION (ONE NOZZLE PER FUELING POINT)
06	02	NUMBER OF FUELING POINTS
07	01	UNIT PRICES PER GRADE
08	02	SINGLE PRICING ONLY
09	02	CASH/CREDIT SELECTION LOCKED IN
10	02	TOTALS FORMAT
11	3.0	VALVE ON DELAY
12	600	TIME OUT WITH NO PULSES
13	02	NOZZLE ON DELAY
14	02	XXX.XX MONEY DISPLAY
15	02	XXX.XXX VOLUME DISPLAY
16	03	X.XXX UNIT PRICE DISPLAY
19	01	CASH DIGITS
23	02	FLOW VALVE SEQUENCE
24	01	UNIT PRICE ORDER
25	01	LIFT TO START

1

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**
14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 387 AND 2/VISTA 387

25	02	PUSH TO START
26	01	TOTALIZER ERROR CODE DISPLAY
28	01	CASH/CREDIT SWITCHES
29	03	FLASH UNIT PRICE UNTIL FLOW
30	01	DASHES IN NON SELECTED U.P.
31	02	BEEP UNTIL AUTHORIZED
34	01	CALL ON NOZZLE UP (SELF SERVE)
34	02	CALL ON NOZZLE UP (FULL SERVE)
35	01	CASH/CREDIT CONFIRM
36	02	SUBMERSIBLE ON AT NOZZLE UP
37	01	L.E.D. FLASH ON NOZZLE UP
38	01	ONE ELECTRO-MECANICAL TOTALIZER PER PRODUCT
38	02	ONE ELECTRO-MECANICAL TOTALIZER PER METER
40	01	PRESET - DEFAULT TO MONEY
41	01	PRESET - MONEY OR VOLUME ONLY
42	01	PRESET - FILL IS DISPLAYED
42	02	PRESET - DASHES DISPLAYED (QUEBEC)
43	01	PRESET - ENTRY NOT REQUIRED

2

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**
14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 387 AND 2/VISTA 387

44	04	PRESET - FIRST ENTRY POINT FOR MONEY
45	03	PRESET - FIRST ENTRY POINT FOR VOLUME
46	.30	PRESET - VOLUME PRE-CUTOFF
80*	01	ATC PROBE 0 SET FOR GASOLINE
80*	02	ATC PROBE 0 SET FOR DIESEL
81*	00	ATC PROBE 1 NOT USED
82*	00	ATC PROBE 2 NOT USED
83*	00	ATC PROBE 3 NOT USED
84*	01	ATC CONFIG. 1 PROBE
88*	00	PULSE OUTPUT BOARD NOT INSTALLED
88*	01	PULSE OUTPUT BOARD INSTALLED
97*		RAM CLEAR
98		FAULT CODE ALLOCATION
99	03	EXIT OPTIONS, SAVE CHANGES

CONTROL SYSTEM PROGRAMMING

<u>PRIME MODE</u>	<u>SUB MODE</u>	<u>DATA</u>	
MODE 03	01 TO MAX F. P.* NUMBER	0001	
MODE 18	01 TO MAX F. P.* NUMBER	POS. 01	1 (GRADE 1)
		POS. 02 TO 07	0 NOT USED

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 389 AND 2/VISTA 389

<u>OPTION</u>	<u>SETTING</u>	<u>DESCRIPTION</u>
01	READ ONLY	CODE HISTORY
02*	02	MACRO SETTING
04*	02 = 1/VISTA	05 = 2/VISTA LITRES
05	02	NOZZLE CONFIGURATION (TWO NOZZLES PER FUELING POINT)
06	02	NUMBER OF FUELING POINTS
07	01	UNIT PRICES PER GRADE
08	02	SINGLE PRICING ONLY
09	02	CASH/CREDIT SELECTION LOCKED IN
10	02	TOTALS FORMAT
11	3.0	VALVE ON DELAY
12	600	TIME OUT WITH NO PULSES
13	02	NOZZLE ON DELAY
14	02	XXX.XX MONEY DISPLAY
15	02	XXX.XXX VOLUME DISPLAY
16	03	X.XXX UNIT PRICE DISPLAY
19	01	CASH DIGITS
23	02	FLOW VALVE SEQUENCE
24	03	UNIT PRICE ORDER
25	01	LIFT TO START

4

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**

14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 389 AND 2/VISTA 389

25	02	PUSH TO START
26	01	TOTALIZER ERROR CODE DISPLAY
28	01	CASH/CREDIT SWITCHES
29	03	FLASH UNIT PRICE UNTIL FLOW
30	01	DASHES IN NON SELECTED U.P.
31	02	BEEP UNTIL AUTHORIZED
34	01	CALL ON NOZZLE UP (SELF SERVE)
34	02	CALL ON NOZZLE UP (FULL SERVE)
35	01	CASH/CREDIT CONFIRM
36	02	SUBMERSIBLE ON AT NOZZLE UP
37	01	L.E.D. FLASH ON NOZZLE UP
38	01	ONE ELECTRO-MECANICAL TOTALIZER PER PRODUCT
38	02	ONE ELECTRO-MECANICAL TOTALIZER PER METER
40	01	PRESET - DEFAULT TO MONEY
41	01	PRESET - MONEY OR VOLUME ONLY
42	01	PRESET - FILL IS DISPLAYED
42	02	PRESET - DASHES DISPLAYED (QUEBEC)
43	01	PRESET - ENTRY NOT REQUIRED

5

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED
14/08/02**

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 389 AND 2/VISTA 389

45	03	PRESET - FIRST ENTRY POINT FOR VOLUME
46	.30	PRESET - VOLUME PRE-CUTOFF
80*	01	ATC PROBE 0 SET FOR GASOLINE
80*	02	ATC PROBE 0 SET FOR DIESEL
81*	01	ATC PROBE 1 SET FOR GASOLINE
81*	02	ATC PROBE 1 SET FOR DIESEL
82*	00	ATC PROBE NOT USED
83*	00	ATC PROBE 3 NOT USED
84*	03	ATC CONFIG. 2 PROBES
88*	00	PULSE OUTPUT BOARD NOT INSTALLED
88*	01	PULSE OUTPUT BOARD INSTALLED
97*		RAM CLEAR
98		FAULT CODE ALLOCATION
99	03	EXIT OPTIONS, SAVE CHANGES

CONTROL SYSTEM PROGRAMMING

<u>PRIME MODE</u>	<u>SUB MODE</u>	<u>DATA</u>	
MODE 03	01 TO MAX F. P.* NUMBER	0012	
MODE 18	01 TO MAX F. P.* NUMBER	POS 01	2 (GRADE 2)
		POS 02	1 (GRADE 1)
		POS 03 TO 07	0 NOT USED

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD**
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 390 AND 2/V390

<u>OPTION</u>	<u>SETTING</u>	<u>DESCRIPTION</u>
01	READ ONLY	CODE HISTORY
02*	02	MACRO SETTING
04*	02 = 1/VISTA	05 = 2/VISTA LITRES
05	03	NOZZLE CONFIGURATION (THREE NOZZLES PER FUELING POINT)
06	02	NUMBER OF FUELING POINTS
07	01	UNIT PRICES PER GRADE
08	02	SINGLE PRICING ONLY
09	02	CASH/CREDIT SELECTION LOCKED IN
10	02	TOTALS FORMAT
11	3.0	VALVE ON DELAY
12	600	TIME OUT WITH NO PULSES
13	02	NOZZLE ON DELAY
14	02	XXX.XX MONEY DISPLAY
15	02	XXX.XXX VOLUME DISPLAY
16	03	X.XXX UNIT PRICE DISPLAY
19	01	CASH DIGITS
23	02	FLOW VALVE SEQUENCE
24	03	UNIT PRICE ORDER
25	01	LIFT TO START

7

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**
14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 390 AND 2/VISTA 390

25	02	PUSH TO START
26	01	TOTALIZER ERROR CODE DISPLAY
28	01	CASH/CREDIT SWITCHES
29	03	FLASH UNIT PRICE UNTIL FLOW
30	01	DASHES IN NON SELECTED U.P.
31	02	BEEP UNTIL AUTHORIZED
34	01	CALL ON NOZZLE UP (SELF SERVE)
34	02	CALL ON NOZZLE UP (FULL SERVE)
35	01	CASH/CREDIT CONFIRM
36	02	SUBMERSIBLE ON AT NOZZLE UP
37	01	L.E.D. FLASH ON NOZZLE UP
38	01	ONE ELECTRO-MECANICAL TOTALIZER PER PRODUCT
38	02	ONE ELECTRO-MECANICAL TOTALIZER PER METER
40	01	PRESET - DEFAULT TO MONEY
41	01	PRESET - MONEY OR VOLUME ONLY
42	01	PRESET - FILL IS DISPLAYED
42	02	PRESET - DASHES DISPLAYED (QUEBEC)
43	01	PRESET - ENTRY NOT REQUIRED

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 390 AND 2/VISTA 390

44	04	PRESET - FIRST ENTRY POINT FOR MONEY
45	03	PRESET - FIRST ENTRY POINT FOR VOLUME
46	.30	PRESET - VOLUME PRE-CUTOFF
80*	01	ATC PROBE 0 SET FOR GASOLINE
80*	02	ATC PROBE 0 SET FOR DIESEL
81*	01	ATC PROBE 1 SET FOR GASOLINE
81*	02	ATC PROBE 1 SET FOR DIESEL
82*	01	ATC PROBE 2 SET FOR GASOLINE
82*	02	ATC PROBE 2 SET FOR DIESEL
83*	00	ATC PROBE 3 NOT USED
84*	04	ATC CONFIG. 3 PROBES
88*	00	PULSE OUTPUT BOARD NOT INSTALLED
88*	01	PULSE OUTPUT BOARD INSTALLED
97*		RAM CLEAR
98		FAULT CODE ALLOCATION
99	03	EXIT OPTIONS, SAVE CHANGES

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 390 AND 2/VISTA 390

CONTROL SYSTEM PROGRAMMING

<u>PRIME MODE</u>	<u>SUB MODE</u>	<u>DATA</u>	
MODE 03	01 TO MAX F. P.* NUMBER	0123	
MODE 18	01 TO MAX F. P.* NUMBER	POS 01	3 (GRADE 3)
		POS 02	2 (GRADE 2)
		POS 03	1 (GRADE 1)
		POS 04 TO 07	0 NOT USED

10

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**

14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 390U AND 2/VISTA 390U

***NOTE: JUMPERS JP2 AND JP3 MUST BE THE 2 PINS CLOSEST TO THE OUTSIDE OF THE BOARD FOR THE VISTA 390 UNIHOSE MODELS**

<u>OPTION</u>	<u>SETTING</u>	<u>DESCRIPTION</u>
01	READ ONLY	CODE HISTORY
02*	13	MACRO SETTING
04*	02 = 1/VISTA	05 = 2/VISTA LITRES
05	03	NOZZLE CONFIGURATION (THREE NOZZLES PER FUELING POINT)
06	02	NUMBER OF FUELING POINTS
07	01	UNIT PRICES PER GRADE
08	02	SINGLE PRICING ONLY
09	02	CASH/CREDIT SELECTION LOCKED IN
10	02	TOTALS FORMAT
11	3.0	VALVE ON DELAY
12	600	TIME OUT WITH NO PULSES
13	02	NOZZLE ON DELAY
14	02	XXX.XX MONEY DISPLAY
15	02	XXX.XXX VOLUME DISPLAY
16	03	X.XXX UNIT PRICE DISPLAY
19	01	CASH DIGITS
23	02	FLOW VALVE SEQUENCE
24	03	UNIT PRICE ORDER

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 390U AND 2/VISTA 390U

25	03	PUSH TO START
26	01	TOTALIZER ERROR CODE DISPLAY
28	01	CASH/CREDIT SWITCHES
29	03	FLASH UNIT PRICE UNTIL FLOW
30	01	DASHES IN NON SELECTED U.P.
31	02	BEEP UNTIL AUTHORIZED
34	01	CALL ON NOZZLE UP (SELF SERVE)
34	02	CALL ON NOZZLE UP (FULL SERVE)
35	01	CASH/CREDIT CONFIRM
36	02	SUBMERSIBLE ON AT NOZZLE UP
37	01	L.E.D. FLASH ON NOZZLE UP
38	01	ONE ELECTRO-MECANICAL TOTALIZER PER PRODUCT
38	02	ONE ELECTRO-MECANICAL TOTALIZER PER METER
40	01	PRESET - DEFAULT TO MONEY
41	01	PRESET - MONEY OR VOLUME ONLY
42	01	PRESET - FILL IS DISPLAYED
42	02	PRESET - DASHES DISPLAYED (QUEBEC)
43	01	PRESET - ENTRY NOT REQUIRED

12

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**

14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 390U AND 2/VISTA 390U

44	04	PRESET - FIRST ENTRY POINT FOR MONEY
45	03	PRESET - FIRST ENTRY POINT FOR VOLUME
46	.30	PRESET - VOLUME PRE-CUTOFF
80*	01	ATC PROBE 0 SET FOR GASOLINE
81*	01	ATC PROBE 1 SET FOR GASOLINE
82*	01	ATC PROBE 2 SET FOR GASOLINE
83*	00	ATC PROBE 3 NOT USED
84*	04	ATC CONFIG. 3 PROBES
88*	00	PULSE OUTPUT BOARD NOT INSTALLED
88*	01	PULSE OUTPUT BOARD INSTALLED
97*		RAM CLEAR
98		FAULT CODE ALLOCATION
99	03	EXIT OPTIONS, SAVE CHANGES

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 390U AND 2/VISTA 390U

CONTROL SYSTEM PROGRAMMING

<u>PRIME MODE</u>	<u>SUB MODE</u>	<u>DATA</u>	
MODE 03	01 TO MAX F. P.* NUMBER	0123	
MODE 18	01 TO MAX F. P.* NUMBER	POS 01	3 (GRADE 3)
		POS 02	2 (GRADE 2)
		POS 03	1 (GRADE 1)
		POS 04 TO 07	0 NOT USED

14

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**

14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 395 AND 2/VISTA 595

<u>OPTION</u>	<u>SETTING</u>	<u>DESCRIPTION</u>
01	READ ONLY	CODE HISTORY
02*	10	MACRO SETTING
04*	02 = 1/VISTA	05 = 2/VISTA LITRES
05	02	NOZZLE CONFIGURATION (TWO NOZZLES PER FUELING POINT)
06	02	NUMBER OF FUELING POINTS
07	01	UNIT PRICES PER GRADE
08	02	SINGLE PRICING ONLY
09	02	CASH/CREDIT SELECTION LOCKED IN
10	02	TOTALS FORMAT
11	3.0	VALVE ON DELAY
12	600	TIME OUT WITH NO PULSES
13	02	NOZZLE ON DELAY
14	02	XXX.XX MONEY DISPLAY
15	02	XXX.XXX VOLUME DISPLAY
16	03	X.XXX UNIT PRICE DISPLAY
19	01	CASH DIGITS
23	02	FLOW VALVE SEQUENCE
24	01	UNIT PRICE ORDER
25	03	PUSH TO START ENABLE

15

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**
14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 395 AND 2/VISTA 595

26	01	TOTALIZER ERROR CODE DISPLAY
28	01	CASH/CREDIT SWITCHES
29	03	FLASH UNIT PRICE UNTIL FLOW
30	01	DASHES IN NON-SELECTED U.P.
31	02	BEEP UNTIL AUTHORIZED
32	01	LAST SALE LED INDICATION
34	01	CALL ON NOZZLE UP (SELF SERVE)
34	02	CALL ON NOZZLE UP (FULL SERVE)
35	01	CASH/CREDIT CONFIRM
36	02	SUBMERSIBLE ON AT NOZZLE UP
37	01	L.E.D. FLASH ON NOZZLE UP
38	01	ONE ELECTRO-MECANICAL TOTALIZER PER PRODUCT
38	02	ONE ELECTRO-MECANICAL TOTALIZER PER METER
40	01	PRESET - DEFAULT TO MONEY
41	01	PRESET - MONEY OR VOLUME ONLY
42	01	PRESET - FILL IS DISPLAYED
42	02	PRESET - DASHES DISPLAYED (QUEBEC)
43	01	PRESET - ENTRY NOT REQUIRED

16

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**

14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 395 AND 2/VISTA 595

44	04	PRESET - FIRST ENTRY POINT FOR MONEY
45	03	PRESET - FIRST ENTRY POINT FOR VOLUME
46	.50	PRESET - VOLUME PRE-CUTOFF
51*		BLEND RATIOS

SUNOCO

POSITION 1 = GRADE 1	---	---
POSITION 2 = GRADE 2	---	---
POSITION 3 = GRADE 5	---	100
POSITION 4 = GRADE 8	---	072
POSITION 5 = GRADE 6	---	036
POSITION 6 = GRADE 4 - 000		000
POSITION 7 = NOT USED	---	---

GENERIC/PIONEER/FEDERATED CO-OP

POSITION 1 = GRADE 1		---
POSITION 2 = NOT USED		---
POSITION 3 = NOT USED		---
POSITION 4 = GRADE 5		100
POSITION 5 = GRADE 6 -		050
POSITION 6 = GRADE 4 -		000
POSITION 7 = NOT USED	---	---

52	05	PERCENTAGE BLEND ERROR
53	5.0	FIRST BLEND CHECK

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 395 AN 2/VISTA 595

WARNING OPTIONS 80, 81 AND 82 ARE FOR A.T.C.
PROBE SETTINGS
80 AND 81 MUST BE SET FOR GASOLINE
80 IS THE LOW FEEDSTOCK AND 81 IS THE HIGH
FEEDSTOCK

80*	01	ATC PROBE 0 SET FOR GASOLINE
81*	01	ATC PROBE 1 SET FOR GASOLINE
82*	01	ATC PROBE 2 SET FOR GASOLINE
82*	02	ATC PROBE 2 SET FOR DIESEL
83*	00	ATC PROBE 3 NOT USED
84*	02	ATC CONFIG. 3 PROBES BLEND
88*	00	PULSE OUTPUT BOARD NOT INSTALLED
97*		RAM CLEAR
98		FAULT CODE ALLOCATION
99	03	EXIT OPTIONS, SAVE CHANGES

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 395 AND 2/VISTA 595

CONTROL SYSTEM PROGRAMMING

<u>PRIME MODE</u>	<u>SUB MODE</u>	<u>DATA</u>	
MODE 03	01 TO MAX F. P.* NUMBER	0541	
<u>SUNOCO</u>			
MODE 18	01 TO MAX F. P.* NUMBER	POS 01	1 (GRADE 1)
		POS 02	0 NOT USED
		POS 03	5 (GRADE 5)
		POS 04	8 (GRADE 8)
		POS 05	6 (GRADE 6)
		POS 0	4 (GRADE 4)
		POS 07	0 NOT USED
MODE 17	6	36	
	7	101 NOT USED	
	8	72	
	9	101 NOT USED	
	10		

GENERIC/PIONEER/FEDERATED CO-OP

MODE 18	01 TO MAX F. P.* NUMBER	POS 01	1 (GRADE 1)
		POS 02	0 NOT USED
		POS 03	0 NOT USED
		POS 04	5 (GRADE 5)
		POS 05	6 (GRADE 6)
		POS 06	4 (GRADE 4)
		POS 07	0 NOT USED
MODE 17	6	50	
	7	101 NOT USED	
	8	101 NOT USED	
	9	101 NOT USED	

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 580 1/VISTA 590U 2/VISTA 580 AND 2/VISTA 590U

<u>OPTION</u>	<u>SETTING</u>	<u>DESCRIPTION</u>
01	READ ONLY	CODE HISTORY
02*	10	MACRO SETTING
04*	02 = 1/VISTA	05 = 2/VISTA LITRES
05	05	NOZZLE CONFIGURATION (ONE NOZZLE PER FUELING POINT)
06	02	NUMBER OF FUELING POINTS
07	01	UNIT PRICES PER GRADE
08	02	SINGLE PRICING ONLY
09	02	CASH/CREDIT SELECTION LOCKED IN
10	02	TOTALS FORMAT
11	3.0	VALVE ON DELAY
12	600	TIME OUT WITH NO PULSES
13	02	NOZZLE ON DELAY
14	02	XXX.XX MONEY DISPLAY
15	02	XXX.XXX VOLUME DISPLAY
16	03	X.XXX UNIT PRICE DISPLAY
19	01	CASH DIGITS
23	02	FLOW VALVE SEQUENCE
24	01	UNIT PRICE ORDER
25	03	PUSH TO START ENABLE

20

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**
14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 580 1/VISTA 590U 2/VISTA 580 AND 2/VISTA 590U

26	01	TOTALIZER ERROR CODE DISPLAY
28	01	CASH/CREDIT SWITCHES
29	03	FLASH UNIT PRICE UNTIL FLOW
30	01	DASHES IN NON SELECTED U.P.
31	02	BEEP UNTIL AUTHORIZED
32	01	LAST SALE LED INDICATION
34	01	CALL ON NOZZLE UP (SELF SERVE)
34	02	CALL ON NOZZLE UP (FULL SERVE)
35	01	CASH/CREDIT CONFIRM
36	02	SUBMERSIBLE ON AT NOZZLE UP
37	01	L.E.D. FLASH ON NOZZLE UP
38	01	ONE ELECTRO-MECANICAL TOTALIZER PER PRODUCT
38	02	ONE ELECTRO-MECANICAL TOTALIZER PER METER
40	01	PRESET - DEFAULT TO MONEY
41	01	PRESET - MONEY OR VOLUME ONLY
42	01	PRESET - FILL IS DISPLAYED
42	02	PRESET - DASHES DISPLAYED (QUEBEC)
43	01	PRESET - ENTRY NOT REQUIRED

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 580 1/VISTA 590U 2/VISTA 580 AND 2/VISTA 590U

44	04	PRESET - FIRST ENTRY POINT FOR MONEY
45	03	PRESET - FIRST ENTRY POINT FOR VOLUME
46	.50	PRESET - VOLUME PRE-CUTOFF
51*		BLEND RATIOS
		POSITION 1 = NOT USED ---
		POSITION 2 = NOT USED ---
		POSITION 3 = GRADE 5 - 100
		POSITION 4 = NOT USED ---
		POSITION 5 = GRADE 6 - 050
		POSITION 6 = NOT USED ---
		POSITION 7 = GRADE 4 - 000
52	05	PERCENTAGE BLEND ERROR
53	5.0	FIRST BLEND CHECK

WARNING OPTIONS 80, 81 AND 82 ARE FOR A.T.C.
PROBE SETTINGS
80 AND 81 MUST BE SET FOR GASOLINE
80 IS THE LOW FEEDSTOCK AND
81 IS THE HIGH FEEDSTOCK

80*	01	ATC PROBE 0 SET FOR GASOLINE
81*	01	ATC PROBE 1 SET FOR GASOLINE
82*	00	ATC PROBE 2 NOT USED
83*	00	ATC PROBE 3 NOT USED

22

NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED
14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 580 AND 2/VISTA 580

84*	06	ATC CONFIG. 2 PROBES BLEND
88*	00	PULSE OUTPUT BOARD NOT INSTALLED
97*		RAM CLEAR
98		FAULT CODE ALLOCATION
99	03	EXIT OPTIONS, SAVE CHANGES

CONTROL SYSTEM PROGRAMMING

<u>PRIME MODE</u>	<u>SUB MODE</u>	<u>DATA</u>
MODE 03	01 TO MAX F. P.* NUMBER	0540
MODE 18	01 TO MAX F. P.* NUMBER	POS 0 0 NOT USED POS 02 0 NOT USED POS 03 5 (GRADE 5) POS 04 0 NOT USED POS 05 6 (GRADE 6) POS 06 0 NOT USED POS 07 4 (GRADE 4)
MODE 17	6	50 OR CUSTOMER SPECIFICATION
	7	101 NOT USED
	8	101 NOT USED
	9	101 NOT USED

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 585 AND 2/V585

<u>OPTION</u>	<u>SETTING</u>	<u>DESCRIPTION</u>
01	READ ONLY	CODE HISTORY
02*	10	MACRO SETTING
04*	02 = 1/VISTA	05 = 2/VISTA LITRES
05	05	NOZZLE CONFIGURATION (ONE NOZZLE PER FUELING POINT)
06	02	NUMBER OF FUELING POINTS
07	01	UNIT PRICES PER GRADE
08	02	SINGLE PRICING ONLY
09	02	CASH/CREDIT SELECTION LOCKED IN
10	02	TOTALS FORMAT
11	3.0	VALVE ON DELAY
12	600	TIME OUT WITH NO PULSES
13	02	NOZZLE ON DELAY
14	02	XXX.XX MONEY DISPLAY
15	02	XXX.XXX VOLUME DISPLAY
16	03	X.XXX UNIT PRICE DISPLAY
19	01	CASH DIGITS
23	02	FLOW VALVE SEQUENCE
24	01	UNIT PRICE ORDER
25	03	PUSH TO START ENABLE

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 585 AND 2/VISTA 585

26	01	TOTALIZER ERROR CODE DISPLAY
28	01	CASH/CREDIT SWITCHES
29	03	FLASH UNIT PRICE UNTIL FLOW
30	01	DASHES IN NON-SELECTED U.P.
31	02	BEEP UNTIL AUTHORIZED
32	01	LAST SALE LED INDICATION
34	01	CALL ON NOZZLE UP (SELF SERVE)
34	02	CALL ON NOZZLE UP (FULL SERVE)
35	01	CASH/CREDIT CONFIRM
36	02	SUBMERSIBLE ON AT NOZZLE UP
37	01	L.E.D. FLASH ON NOZZLE UP
38	01	ONE ELECTRO-MECANICAL TOTALIZER PER PRODUCT
38	02	ONE ELECTRO-MECANICAL TOTALIZER PER METER
40	01	PRESET - DEFAULT TO MONEY
41	01	PRESET - MONEY OR VOLUME ONLY
42	01	PRESET - FILL IS DISPLAYED
42	02	PRESET - DASHES DISPLAYED (QUEBEC)
43	01	PRESET - ENTRY NOT REQUIRED

25

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**
14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 585 AND 2/VISTA 585

44	04	PRESET - FIRST ENTRY POINT FOR MONEY
45	03	PRESET - FIRST ENTRY POINT FOR VOLUME
46	.60	PRESET - VOLUME PRE-CUTOFF
51*		BLEND RATIOS SUNOCO
		POSITION 1 = NOT USED --- ---
		POSITION 2 = NOT USED --- ---
		POSITION 3 = GRADE 5 - 100 100
		POSITION 4 = GRADE 8 - 075 ---
		POSITION 5 = GRADE 7 - 050 072
		POSITION 6 = GRADE 6 - 025 036
		POSITION 7 = GRADE 4 - 000 000
52	05	PERCENTAGE BLEND ERROR
53	5.0	FIRST BLEND CHECK

WARNING OPTIONS 80, 81 AND 82 ARE FOR A.T.C. PROBE
SETTINGS

80 AND 81 MUST BE SET FOR GASOLINE
80 IS THE LOW FEEDSTOCK AND
81 IS THE HIGH FEEDSTOCK

80*	01	ATC PROBE 0 SET FOR GASOLINE
81*	01	ATC PROBE 1 SET FOR GASOLINE
82*	00	ATC PROBE 2 NOT USED
83*	00	ATC PROBE 3 NOT USED
84*	07	ATC CONFIG. 2 PROBES BLEND

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 585 AND 2/VISTA 585

88*	00	PULSE OUTPUT BOARD NOT INSTALLED
97*		RAM CLEAR
98		FAULT CODE ALLOCATION
99	03	EXIT OPTIONS, SAVE CHANGES

CONTROL SYSTEM PROGRAMMING

<u>PRIME MODE</u>	<u>SUB MODE</u>	<u>DATA</u>
MODE 03	01 TO MAX F. P.* NUMBER	0540
MODE 18	01 TO MAX F. P.* NUMBER	POS 01 0 NOT USED POS 0 0 NOT USED POS 03 5 (GRADE 5) POS 04 8 (GRADE 8) POS 05 7 (GRADE 7) POS 06 6 (GRADE 6) POS 07 4 (GRADE 4)
MODE 17	6 7 8 9	25 OR CUSTOMER SPECIFICATION 50 OR CUSTOMER SPECIFICATION 75 OR CUSTOMER SPECIFICATION 101 NOT USED

SUNOCO

MODE 18	01 TO MAX F. P.* NUMBER	POS 01 0 NOT USED POS 0 0 NOT USED POS 03 5 (GRADE 5) POS 04 0 NOT USED POS 05 7 (GRADE 7) POS 06 6 (GRADE 6) POS 07 4 (GRADE 4)
MODE 17	6 7 8 9	36 72 101 NOT USED 101 NOT USED

27

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**
14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 590 AND 2/VISTA 590

<u>OPTION</u>	<u>SETTING</u>	<u>DESCRIPTION</u>
01	READ ONLY	CODE HISTORY
02*	10	MACRO SETTING
04*	02	LITRES 1072 PULSES PER LITRE
05	07	NOZZLE CONFIGURATION (THREE NOZZLES PER FUELING POINT)
06	02	NUMBER OF FUELING POINTS
07	01	UNIT PRICES PER GRADE
08	02	SINGLE PRICING ONLY
09	02	CASH/CREDIT SELECTION LOCKED IN
10	02	TOTALS FORMAT
11	3.0	VALVE ON DELAY
12	600	TIME OUT WITH NO PULSES
13	02	NOZZLE ON DELAY
14	02	XXX.XX MONEY DISPLAY
15	02	XXX.XXX VOLUME DISPLAY
16	03	X.XXX UNIT PRICE DISPLAY
19	01	CASH DIGITS
23	02	FLOW VALVE SEQUENCE
24	01	UNIT PRICE ORDER
25	02	PUSH TO START ENABLE

28

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD**

FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED

14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 590 AND 2/VISTA 590

26	01	TOTALIZER ERROR CODE DISPLAY
28	01	CASH/CREDIT SWITCHES
29	03	FLASH UNIT PRICE UNTIL FLOW
30	01	DASHES IN NON-SELECTED U.P.
31	02	BEEP UNTIL AUTHORIZED
32	01	LAST SALE LED INDICATION
34	01	CALL ON NOZZLE UP (SELF SERVE)
34	02	CALL ON NOZZLE UP (FULL SERVE)
35	01	CASH/CREDIT CONFIRM
36	02	SUBMERSIBLE ON AT NOZZLE UP
37	01	L.E.D. FLASH ON NOZZLE UP
38	01	ONE ELECTRO-MECANICAL TOTALIZER PER PRODUCT
38	02	ONE ELECTRO-MECANICAL TOTALIZER PER METER
40	01	PRESET - DEFAULT TO MONEY
41	01	PRESET - MONEY OR VOLUME ONLY
42	01	PRESET - FILL IS DISPLAYED
42	02	PRESET - DASHES DISPLAYED (QUEBEC)
43	01	PRESET - ENTRY NOT REQUIRED

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 590 AND 2/VISTA 590

44	04	PRESET - FIRST ENTRY POINT FOR MONEY
45	03	PRESET - FIRST ENTRY POINT FOR VOLUME
46	.50	PRESET - VOLUME PRE-CUTOFF
51*		BLEND RATIOS
		POSITION 1 = NOT USED ---
		POSITION 2 = GRADE 4 - 000
		POSITION 3 = GRADE 6 - 050
		POSITION 4 = GRADE 5 - 100
		POSITION 5 = NOT USED ---
		POSITION 6 = NOT USED ---
		POSITION 7 = NOT USED ---
52	05	PERCENTAGE BLEND ERROR
53	5.0	FIRST BLEND CHECK

WARNING OPTIONS 80, 81 AND 82 ARE FOR A.T.C.
PROBE SETTINGS
80 AND 81 MUST BE SET FOR GASOLINE
80 IS THE LOW FEEDSTOCK AND
81 IS THE HIGH FEEDSTOCK

80*	01	ATC PROBE 0 SET FOR GASOLINE
81*	01	ATC PROBE 1 SET FOR GASOLINE
82*	00	ATC PROBE 2 NOT USED
83*	00	ATC PROBE 3 NOT USED
84*	08	ATC CONFIG. 2 PROBES BLEND

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/VISTA 590 AND 2/VISTA 590

88*	00	PULSE OUTPUT BOARD NOT INSTALLED
97*		RAM CLEAR
98		FAULT CODE ALLOCATION
99	03	EXIT OPTIONS, SAVE CHANGES

CONTROL SYSTEM PROGRAMMING

<u>PRIME MODE</u>	<u>SUB MODE</u>	<u>DATA</u>
MODE 03	01 TO MAX F. P.* NUMBER	0540
MODE 18	01 TO MAX F. P.* NUMBER	POS 01 0 NOT USED POS 02 4 (GRADE 4) POS 03 6 (GRADE 6) POS 04 5 (GRADE 5) POS 05 TO 07 0 NOT USED
MODE 17	6	50 OR CUSTOMER SPECIFICATION
	7	101 NOT USED
	8	101 NOT USED
	9	101 NOT USED

- **NOTE FOR 1/VISTA MODELS WITH REVISION 45 SOFTWARE AND ABOVE**
MODE 17 SETTINGS MUST AGREE WITH OPTION 51 SETTINGS ON THE
DISPENSER OR COMMUNICATIONS WILL NOT BE MAINTAINED

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HIGH SPEED 1/VISTA 387

<u>OPTION</u>	<u>SETTING</u>	<u>DESCRIPTION</u>
01	READ ONLY	CODE HISTORY
02*	02	MACRO SETTING
04*	03	LITRES 283 PULSES PER LITRE
05	01	NOZZLE CONFIGURATION (ONE NOZZLE PER FUELING POINT)
06	02	NUMBER OF FUELING POINTS
07	01	UNIT PRICES PER GRADE
08	02	SINGLE PRICING ONLY
09	02	CASH/CREDIT SELECTION LOCKED IN
10	02	TOTALS FORMAT
11	3.0	VALVE ON DELAY
12	600	TIME OUT WITH NO PULSES
13	02	NOZZLE ON DELAY
14	02	XXX.XX MONEY DISPLAY
15	02	XXX.XXX VOLUME DISPLAY
16	03	X.XXX UNIT PRICE DISPLAY
17	01	TOTALS DECIMAL
18	01	CASH FACTOR
19	01	CASH DIGITS
20	01	EXPORT ROUNDING

32

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD**

FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED

14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HIGH SPEED 1/VISTA 387

21	01	DISPLAY ON AUTHORIZE
22	01	PREPAY OVERRUN
23	02	FLOW VALVE SEQUENCE
24	01	UNIT PRICE ORDER
25	02	PUSH TO START ENABLE
26	01	TOTALIZER ERROR CODE DISPLAY
28	01	CASH/CREDIT SWITCHES
29	03	FLASH UNIT PRICE UNTIL FLOW
30	01	DASHES IN NON SELECTED U.P.
31	02	BEEP UNTIL AUTHORIZED
34	01	CALL ON NOZZLE UP (SELF SERVE)
34	02	CALL ON NOZZLE UP (FULL SERVE)
35	01	CASH/CREDIT CONFIRM
36	02	SUBMERSIBLE ON AT NOZZLE UP
37	01	L.E.D. FLASH ON NOZZLE UP
38	01	ONE ELECTRO-MECANICAL TOTALIZER PER PRODUCT
38	02	ONE ELECTRO-MECANICAL TOTALIZER PER METER
40	01	PRESET - DEFAULT TO MONEY
41	01	PRESET - MONEY OR VOLUME ONLY

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HIGH SPEED 1/VISTA 387

42	01	PRESET - FILL IS DISPLAYED
42	02	PRESET - DASHES DISPLAYED (QUEBEC)
43	01	PRESET - ENTRY NOT REQUIRED
44	04	PRESET - FIRST ENTRY POINT FOR MONEY
45	03	PRESET - FIRST ENTRY POINT FOR VOLUME
46	.80	PRESET - VOLUME PRE-CUTOFF
80	01	ATC PROBE 0 SET FOR GASOLINE
80	02	ATC PROBE 0 SET FOR DIESEL
81*	00	ATC PROBE 1 NOT USED
82*	00	ATC PROBE 2 NOT USED
83*	00	ATC PROBE 3 NOT USED
84*	01	ATC CONFIG. 1 PROBE
88*	00	PULSE OUTPUT BOARD NOT INSTALLED
88*	01	PULSE OUTPUT BOARD INSTALLED
97*		RAM CLEAR
98		FAULT CODE ALLOCATION
99	03	EXIT OPTIONS, SAVE CHANGES

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HIGH SPEED 1/VISTA 387

CONTROL SYSTEM PROGRAMMING

<u>PRIME MODE</u>	<u>SUB MODE</u>	<u>DATA</u>	
MODE 03	01 TO MAX F. P.* NUMBER	0001	
MODE 18	01 TO MAX F. P.* NUMBER	POS. 01	1 (GRADE 1)
		POS. 02 TO 07	0 NOT USED

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HIGH SPEED 1/VISTA 387 EXPORT

<u>OPTION</u>	<u>SETTING</u>	<u>DESCRIPTION</u>
01	READ ONLY	CODE HISTORY
02*	09	MACRO SETTING
04*	03	LITRES 283 PULSES PER LITRE
05	01	NOZZLE CONFIGURATION (ONE NOZZLE PER FUELING POINT)
06	02	NUMBER OF FUELING POINTS
07	01	UNIT PRICES PER GRADE
08	02	SINGLE PRICING ONLY
09	02	CASH/CREDIT SELECTION LOCKED IN
10	02	TOTALS FORMAT
11	3.0	VALVE ON DELAY
12	600	TIME OUT WITH NO PULSES
13	02	NOZZLE ON DELAY
14	02	XXX.XX MONEY DISPLAY
15	02	XXX.XXX VOLUME DISPLAY
16	03	X.XXX UNIT PRICE DISPLAY
17	01	TOTALS DECIMAL
18	01	CASH FACTOR
19	01	CASH DIGITS
20	01	EXPORT ROUNDING

36

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**

14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HIGH SPEED 1/VISTA 387 EXPORT

21	01	DISPLAY ON AUTHORIZE
22	01	PREPAY OVERRUN
23	02	FLOW VALVE SEQUENCE
24	01	UNIT PRICE ORDER
25	02	PUSH TO START ENABLE
26	01	TOTALIZER ERROR CODE DISPLAY
27	01	TOTALS DIGIT DISPLAY FORMAT
28	01	CASH/CREDIT SWITCHES
29	03	FLASH UNIT PRICE UNTIL FLOW
30	01	DASHES IN NON-SELECTED U.P.
31	02	BEEP UNTIL AUTHORIZED
32	01	N/A UNIT PRICE LED's
33	00	VOLUME RATION LIMIT
34	01	CALL ON NOZZLE UP (SELF SERVE)
34	02	CALL ON NOZZLE UP (FULL SERVE)
35	01	CASH/CREDIT CONFIRM
36	02	SUBMERSIBLE ON AT NOZZLE UP
37	01	L.E.D. FLASH ON NOZZLE UP
38	01	ONE ELECTRO-MECANICAL TOTALIZER PER PRODUCT

37

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**
14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HIGH SPEED 1/VISTA 387 EXPORT

38	02	ONE ELECTRO-MECANICAL TOTALIZER PER METER
40	01	PRESET - DEFAULT TO MONEY
41	01	PRESET - MONEY OR VOLUME ONLY
42	01	PRESET - FILL IS DISPLAYED
42	02	PRESET - DASHES DISPLAYED (NON-ENGLISH)
43	01	PRESET - ENTRY NOT REQUIRED
44	04	PRESET - FIRST ENTRY POINT FOR MONEY
45	03	PRESET - FIRST ENTRY POINT FOR VOLUME
46	.80	PRESET - VOLUME PRE-CUTOFF
80	01	ATC PROBE 0 SET FOR GASOLINE
80	02	ATC PROBE 0 SET FOR DIESEL
81*	00	ATC PROBE 1 NOT USED
82*	00	ATC PROBE 2 NOT USED
83*	00	ATC PROBE 3 NOT USED
84*	01	ATC CONFIG. 1 PROBE
88*	00	PULSE OUTPUT BOARD NOT INSTALLED
88*	01	PULSE OUTPUT BOARD INSTALLED
97*		RAM CLEAR

38

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**

14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/L361 G2001 G2201 G2007R G2207R

<u>OPTION</u>	<u>SETTING</u>	<u>DESCRIPTION</u>
01	READ ONLY	CODE HISTORY
02*	09	MACRO SETTING
04*	02	LITRES 1072 PULSES PER LITRE
05	01	NOZZLE CONFIGURATION (ONE NOZZLE PER FUELING POINT)
06	01	NUMBER OF FUELING POINTS
07	01	UNIT PRICES PER GRADE
08	02	SINGLE PRICING ONLY
09	02	CASH/CREDIT SELECTION LOCKED (N/A)
10	02	TOTALS FORMAT
11	3.0	VALVE ON DELAY
12	600	TIME OUT WITH NO PULSES
13	02	NOZZLE ON DELAY
14	02	XXX.XX MONEY DISPLAY
15	02	XXX.XXX VOLUME DISPLAY
16	03	X.XXX UNIT PRICE DISPLAY
17	01	TOTALS DECIMAL
18	01	CASH FACTOR (N/A)
19	01	CASH DIGITS
20	01	EXPORT ROUNDING (N/A)

40

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**

14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/L361 G2001 G2201 G2007R G2207R

21	01	DISPLAY ON AUTHORIZE (N/A)
22	01	PREPAY OVERRUN
23	02	FLOW VALVE SEQUENCE (N/A)
24	01	UNIT PRICE ORDER (N/A)
25	01	PUSH TO START DISABLE
26	01	TOTALIZER ERROR CODE DISPLAY
27	01	TOTALS DIGIT DISPLAY FORMAT
28	01	CASH/CREDIT SWITCHES (N/A)
29	03	FLASH UNIT PRICE UNTIL FLOW
30	01	DASHES IN NON SELECTED U.P (N/A).
31	02	BEEP UNTIL AUTHORIZED (N/A)
32	01	UNIT PRICE LED's (N/A)
33	00	VOLUME RATION LIMIT
34	01	CALL ON NOZZLE UP (SELF SERVE)
35	01	CASH/CREDIT CONFIRM
36	02	SUBMERSIBLE ON AT NOZZLE UP
37	01	L.E.D. FLASH ON NOZZLE UP
38	01	ONE ELECTRO-MECANICAL TOTALIZER PER PRODUCT
38	02	ONE ELECTRO-MECANICAL TOTALIZER PER METER

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/L361 G2001 G2201 G2007R G2207R

40	01	PRESET - DEFAULT TO MONEY
41	01	PRESET - MONEY OR VOLUME ONLY
42	01	PRESET - FILL IS DISPLAYED
42	02	PRESET - DASHES DISPLAYED (QUEBEC)
43	01	PRESET - ENTRY NOT REQUIRED
44	04	PRESET - FIRST ENTRY POINT FOR MONEY
45	03	PRESET - FIRST ENTRY POINT FOR VOLUME
46	.30	PRESET - VOLUME PRE-CUTOFF
80*	01	ATC PROBE 0 SET FOR GASOLINE
80*	02	ATC PROBE 0 SET FOR DIESEL
81*	00	ATC PROBE 1 NOT USED
82*	00	ATC PROBE 2 NOT USED
83*	00	ATC PROBE 3 NOT USED
84*	01	ATC CONFIG. 1 PROBE
88*	00	PULSE OUTPUT BOARD NOT INSTALLED
88*	01	PULSE OUTPUT BOARD INSTALLED
97*		RAM CLEAR
98		FAULT CODE ALLOCATION
99	03	EXIT OPTIONS, SAVE CHANGES

42

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**

14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/L361 G2001 G2201 G2007R G2207R

CONTROL SYSTEM PROGRAMMING

<u>PRIME MODE</u>	<u>SUB MODE</u>	<u>DATA</u>	
MODE 03	01 TO MAX F. P.* NUMBER	0001	
MODE 18	01 TO MAX F. P.* NUMBER	POS. 01	1 (GRADE 1)
		POS. 02 TO 07	0 NOT USED

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/L362 G2002 G2202 G2007 G2207

<u>OPTION</u>	<u>SETTING</u>	<u>DESCRIPTION</u>
01	READ ONLY	CODE HISTORY
02*	09	MACRO SETTING
04*	02	LITRES 1072 PULSES PER LITRE
05	01	NOZZLE CONFIGURATION (ONE NOZZLE PER FUELING POINT)
06	02	NUMBER OF FUELING POINTS
07	01	UNIT PRICES PER GRADE
08	02	SINGLE PRICING ONLY
09	02	CASH/CREDIT SELECTION LOCKED (N/A)
10	02	TOTALS FORMAT
11	3.0	VALVE ON DELAY
12	600	TIME OUT WITH NO PULSES
13	02	NOZZLE ON DELAY
14	02	XXX.XX MONEY DISPLAY
15	02	XXX.XXX VOLUME DISPLAY
16	03	X.XXX UNIT PRICE DISPLAY
17	01	TOTALS DECIMAL
18	01	CASH FACTOR (N/A)
19	01	CASH DIGITS
20	01	EXPORT ROUNDING (N/A)

44

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**
14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/L362 G2002 G2202 G2007 G2207

21	01	DISPLAY ON AUTHORIZE (N/A)
22	01	PREPAY OVERRUN
23	02	FLOW VALVE SEQUENCE (N/A)
24	01	UNIT PRICE ORDER (N/A)
25	01	PUSH TO START DISABLE
26	01	TOTALIZER ERROR CODE DISPLAY
27	01	TOTALS DIGIT DISPLAY FORMAT
28	01	CASH/CREDIT SWITCHES (N/A)
29	03	FLASH UNIT PRICE UNTIL FLOW
30	01	DASHES IN NON SELECTED U.P. (N/A)
31	02	BEEP UNTIL AUTHORIZED (N/A)
32	01	UNIT PRICE LED's (N/A)
33	00	VOLUME RATION LIMIT
34	01	CALL ON NOZZLE UP
35	01	CASH/CREDIT CONFIRM
36	02	SUBMERSIBLE ON AT NOZZLE UP
37	01	L.E.D. FLASH ON NOZZLE UP (N/A)
38	01	ONE ELECTRO-MECANICAL TOTALIZER PER PRODUCT
38	02	ONE ELECTRO-MECANICAL TOTALIZER PER METER

45

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED
14/08/02**

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/L362 G2002 G2202 G2007 G2207

40	01	PRESET - DEFAULT TO MONEY
41	01	PRESET - MONEY OR VOLUME ONLY
42	01	PRESET - FILL IS DISPLAYED
42	02	PRESET - DASHES DISPLAYED (QUEBEC)
43	01	PRESET - ENTRY NOT REQUIRED
44	04	PRESET - FIRST ENTRY POINT FOR MONEY
45	03	PRESET - FIRST ENTRY POINT FOR VOLUME
46	.30	PRESET - VOLUME PRE-CUTOFF
80*	01	ATC PROBE 0 SET FOR GASOLINE
80*	02	ATC PROBE 0 SET FOR DIESEL
81*	00	ATC PROBE 1 NOT USED
82*	00	ATC PROBE 2 NOT USED
83*	00	ATC PROBE 3 NOT USED
84*	01	ATC CONFIG. 1 PROBE
88*	00	PULSE OUTPUT BOARD NOT INSTALLED
88*	01	PULSE OUTPUT BOARD INSTALLED
97*		RAM CLEAR
98		FAULT CODE ALLOCATION

46

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**
14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/L363 G2003 G2203

<u>OPTION</u>	<u>SETTING</u>	<u>DESCRIPTION</u>
01	READ ONLY	CODE HISTORY
02*	12	MACRO SETTING
03	02	PUMP CONFIGURATION
04*	02	LITRES 1072 PULSES PER LITRE
05	01	NOZZLE CONFIGURATION (ONE NOZZLE PER FUELING POINT)
06	02	NUMBER OF FUELING POINTS
07	01	UNIT PRICES PER GRADE
08	02	SINGLE PRICING ONLY
09	02	CASH/CREDIT SELECTION LOCKED (N/A)
10	02	TOTALS FORMAT
11	3.0	VALVE ON DELAY
12	600	TIME OUT WITH NO PULSES
13	02	NOZZLE ON DELAY
14	02	XXX.XX MONEY DISPLAY
15	02	XXX.XXX VOLUME DISPLAY
16	03	X.XXX UNIT PRICE DISPLAY
17	01	TOTALS DECIMAL
18	01	CASH FACTOR (N/A)
19	01	CASH DIGITS

48

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD**

FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED

14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/L363 G2003 G2203

20	01	EXPORT ROUNDING (N/A)
21	01	DISPLAY ON AUTHORIZE (N/A)
22	01	PREPAY OVERRUN
23	02	FLOW VALVE SEQUENCE (N/A)
24	03	UNIT PRICE ORDER (N/A)
25	01	PUSH TO START DISABLE
26	01	TOTALIZER ERROR CODE DISPLAY
27	01	TOTALS DIGIT DISPLAY FORMAT
28	01	CASH/CREDIT SWITCHES (N/A)
29	03	FLASH UNIT PRICE UNTIL FLOW
30	01	DASHES IN NON SELECTED U.P (N/A).
31	02	BEEP UNTIL AUTHORIZED (N/A)
32	01	UNIT PRICE LED's (N/A)
33	00	VOLUME RATION LIMIT
34	01	CALL ON NOZZLE UP
35	01	CASH/CREDIT CONFIRM
36	02	SUBMERSIBLE ON AT NOZZLE UP
37	01	L.E.D. FLASH ON NOZZLE UP
38	01	ONE ELECTRO-MECANICAL TOTALIZER PER PRODUCT

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/L363 G2003 G2203

38	02	ONE ELECTRO-MECANICAL TOTALIZER PER METER
40	01	PRESET - DEFAULT TO MONEY
41	01	PRESET - MONEY OR VOLUME ONLY
42	01	PRESET - FILL IS DISPLAYED
42	02	PRESET - DASHES DISPLAYED (QUEBEC)
43	01	PRESET - ENTRY NOT REQUIRED
44	04	PRESET - FIRST ENTRY POINT FOR MONEY
45	03	PRESET - FIRST ENTRY POINT FOR VOLUME
46	.30	PRESET - VOLUME PRE-CUTOFF
80*	01	ATC PROBE 0 SET FOR GASOLINE
80*	02	ATC PROBE 0 SET FOR DIESEL
81*	01	ATC PROBE 1 SET FOR GASOLINE
81*	02	ATC PROBE 1 SET FOR DIESEL
82*	00	ATC PROBE 2 NOT USED
83*	00	ATC PROBE 3 NOT USED
84*	09	ATC CONFIG. 2 PROBES
88*	00	PULSE OUTPUT BOARD NOT INSTALLED
88*	01	PULSE OUTPUT BOARD INSTALLED

50

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**
14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

1/L363 G2003 G2203

97*		RAM CLEAR
98		FAULT CODE ALLOCATION
99	03	EXIT OPTIONS, SAVE CHANGES

CONTROL SYSTEM PROGRAMMING

<u>PRIME MODE</u>	<u>SUB MODE</u>	<u>DATA</u>
MODE 03	01 TO MAX F. P.* NUMBER	0001
MODE 18	01 TO MAX F. P.* NUMBER	POS 01 1 (GRADE 1) POS 02 TO 070 NOT USED

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HS1/L361 G2031 G2037R

<u>OPTION</u>	<u>SETTING</u>	<u>DESCRIPTION</u>
01	READ ONLY	CODE HISTORY
02*	09	MACRO SETTING
04*	03	LITRES 283 PULSES PER LITRE
05	01	NOZZLE CONFIGURATION (ONE NOZZLE PER FUELING POINT)
06	01	NUMBER OF FUELING POINTS
07	01	UNIT PRICES PER GRADE
08	02	SINGLE PRICING ONLY
09	02	CASH/CREDIT SELECTION LOCKED (N/A)
10	02	TOTALS FORMAT
11	3.0	VALVE ON DELAY
12	600	TIME OUT WITH NO PULSES
13	02	NOZZLE ON DELAY
14	02	XXX.XX MONEY DISPLAY
15	01	XXXX.XX VOLUME DISPLAY
16	03	X.XXX UNIT PRICE DISPLAY
17	01	TOTALS DECIMAL
18	01	CASH FACTOR (N/A)
19	01	CASH DIGITS
20	01	EXPORT ROUNDING (N/A)

52

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**

14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HS1/L361 G2031 G2037R

21	01	DISPLAY ON AUTHORIZE (N/A)
22	01	PREPAY OVERRUN
23	02	FLOW VALVE SEQUENCE (N/A)
24	01	UNIT PRICE ORDER (N/A)
25	01	PUSH TO START DISABLE
26	01	TOTALIZER ERROR CODE DISPLAY
27	01	TOTALS DIGIT DISPLAY FORMAT
28	01	CASH/CREDIT SWITCHES (N/A)
29	03	FLASH UNIT PRICE UNTIL FLOW
30	01	DASHES IN NON SELECTED U.P (N/A).
31	02	BEEP UNTIL AUTHORIZED (N/A)
32	01	UNIT PRICE LED's (N/A)
33	00	VOLUME RATION LIMIT
34	01	CALL ON NOZZLE UP
35	01	CASH/CREDIT CONFIRM
36	02	SUBMERSIBLE ON AT NOZZLE UP
37	01	L.E.D. FLASH ON NOZZLE UP (N/A)
38	01	ONE ELECTRO-MECANICAL TOTALIZER PER PRODUCT
38	02	ONE ELECTRO-MECANICAL TOTALIZER PER METER

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HS1/L361 G2031 G2037R

40	01	PRESET - DEFAULT TO MONEY
41	01	PRESET - MONEY OR VOLUME ONLY
42	01	PRESET - FILL IS DISPLAYED
42	02	PRESET - DASHES DISPLAYED (QUEBEC)
43	01	PRESET - ENTRY NOT REQUIRED
44	04	PRESET - FIRST ENTRY POINT FOR MONEY
45	03	PRESET - FIRST ENTRY POINT FOR VOLUME
46	.80	PRESET - VOLUME PRE-CUTOFF
80*	01	ATC PROBE 0 SET FOR GASOLINE
80*	02	ATC PROBE 0 SET FOR DIESEL
81*	00	ATC PROBE 1 NOT USED
82*	00	ATC PROBE 2 NOT USED
83*	00	ATC PROBE 3 NOT USED
84*	01	ATC CONFIG. 1 PROBE
88*	00	PULSE OUTPUT BOARD NOT INSTALLED
88*	01	PULSE OUTPUT BOARD INSTALLED
97*		RAM CLEAR
98		FAULT CODE ALLOCATION
99	03	EXIT OPTIONS, SAVE CHANGES

54

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**

14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HS1/L361 G2031 G2037R

CONTROL SYSTEM PROGRAMMING

<u>PRIME MODE</u>	<u>SUB MODE</u>	<u>DATA</u>	
MODE 03	01 TO MAX F. P.* NUMBER	0001	
MODE 18	01 TO MAX F. P.* NUMBER	POS. 01	1 (GRADE 1)
		POS. 02 TO 07	0 NOT USED

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HS1/L362 G2032 G2037 G2072

<u>OPTION</u>	<u>SETTING</u>	<u>DESCRIPTION</u>
01	READ ONLY	CODE HISTORY
02*	09	MACRO SETTING
04*	03	LITRES 283 PULSES PER LITRE
05	01	NOZZLE CONFIGURATION (ONE NOZZLE PER FUELING POINT)
06	02	NUMBER OF FUELING POINTS
07	01	UNIT PRICES PER GRADE
08	02	SINGLE PRICING ONLY
09	02	CASH/CREDIT SELECTION LOCKED (N/A)
10	02	TOTALS FORMAT
11	3.0	VALVE ON DELAY
12	600	TIME OUT WITH NO PULSES
13	02	NOZZLE ON DELAY
14	02	XXX.XX MONEY DISPLAY
15	01	XXXX.XX VOLUME DISPLAY
16	03	X.XXX UNIT PRICE DISPLAY
17	01	TOTALS DECIMAL
18	01	CASH FACTOR (N/A)
19	01	CASH DIGITS
20	01	EXPORT ROUNDING (N/A)

56

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**

14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HS1/L362 G2032 G2037 G2072

21	01	DISPLAY ON AUTHORIZE (N/A)
22	01	PREPAY OVERRUN
23	02	FLOW VALVE SEQUENCE
24	01	UNIT PRICE ORDER (N/A)
25	01	PUSH TO START DISABLE
26	01	TOTALIZER ERROR CODE DISPLAY
27	01	TOTALS DIGIT DISPLAY FORMAT
28	01	CASH/CREDIT SWITCHES (N/A)
29	03	FLASH UNIT PRICE UNTIL FLOW
30	01	DASHES IN NON SELECTED U.P (N/A).
31	02	BEEP UNTIL AUTHORIZED (N/A)
34	01	CALL ON NOZZLE UP
35	01	CASH/CREDIT CONFIRM
36	02	SUBMERSIBLE ON AT NOZZLE UP
37	01	L.E.D. FLASH ON NOZZLE UP (N/A)
38	01	ONE ELECTRO-MECANICAL TOTALIZER PER PRODUCT
38	02	ONE ELECTRO-MECANICAL TOTALIZER PER METER
40	01	PRESET - DEFAULT TO MONEY
41	01	PRESET - MONEY OR VOLUME ONLY

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HS1/L362 G2032 G2037 G2072

42	01	PRESET - FILL IS DISPLAYED
42	02	PRESET - DASHES DISPLAYED (QUEBEC)
43	01	PRESET - ENTRY NOT REQUIRED
44	04	PRESET - FIRST ENTRY POINT FOR MONEY
45	03	PRESET - FIRST ENTRY POINT FOR VOLUME
46	.80	PRESET - VOLUME PRE-CUTOFF
80*	01	ATC PROBE 0 SET FOR GASOLINE
80*	02	ATC PROBE 0 SET FOR DIESEL
81*	00	ATC PROBE 1 NOT USED
82*	00	ATC PROBE 2 NOT USED
83*	00	ATC PROBE 3 NOT USED
84*	01	ATC CONFIG. 1 PROBE
88*	00	PULSE OUTPUT BOARD NOT INSTALLED
88*	01	PULSE OUTPUT BOARD INSTALLED
97*		RAM CLEAR
98		FAULT CODE ALLOCATION
99	03	EXIT OPTIONS, SAVE CHANGES

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HS1/L362 G2032 G2037 G2072

CONTROL SYSTEM PROGRAMMING

<u>PRIME MODE</u>	<u>SUB MODE</u>	<u>DATA</u>
MODE 03	01 TO MAX F. P.* NUMBER	0001
MODE 18	01 TO MAX F. P.* NUMBER	POS. 01 1 (GRADE 1) POS. 02 TO 07 0 NOT USED

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HS1/L363 G2033

<u>OPTION</u>	<u>SETTING</u>	<u>DESCRIPTION</u>
01	READ ONLY	CODE HISTORY
02*	12	MACRO SETTING
03	02	PUMP CONFIGURATION
04*	03	LITRES 283 PULSES PER LITRE
05	01	NOZZLE CONFIGURATION (ONE NOZZLE PER FUELING POINT)
06	02	NUMBER OF FUELING POINTS
07	01	UNIT PRICES PER GRADE
08	02	SINGLE PRICING ONLY
09	02	CASH/CREDIT SELECTION LOCKED (N/A)
10	02	TOTALS FORMAT
11	3.0	VALVE ON DELAY
12	600	TIME OUT WITH NO PULSES
13	02	NOZZLE ON DELAY
14	02	XXX.XX MONEY DISPLAY
15	01	XXXX.XX VOLUME DISPLAY
16	03	X.XXX UNIT PRICE DISPLAY
17	01	TOTALS DECIMAL
18	01	CASH FACTOR (N/A)
19	01	CASH DIGITS

60

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**

14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HS1/L363 G2033

20	01	EXPORT ROUNDING (N/A)
21	01	DISPLAY ON AUTHORIZE (N/A)
22	01	PREPAY OVERRUN
23	02	FLOW VALVE SEQUENCE (N/A)
24	03	UNIT PRICE ORDER (N/A)
25	01	PUSH TO START DISABLE
26	01	TOTALIZER ERROR CODE DISPLAY
27	01	TOTALS DIGIT DISPLAY FORMAT
28	01	CASH/CREDIT SWITCHES (N/A)
29	03	FLASH UNIT PRICE UNTIL FLOW
30	01	DASHES IN NON SELECTED U.P (N/A).
31	02	BEEP UNTIL AUTHORIZED (N/A)
32	01	UNIT PRICE LED's (N/A)
33	00	VOLUME RATION LIMIT
34	01	CALL ON NOZZLE UP
35	01	CASH/CREDIT CONFIRM
36	02	SUBMERSIBLE ON AT NOZZLE UP
37	01	L.E.D. FLASH ON NOZZLE UP
38	01	ONE ELECTRO-MECANICAL TOTALIZER PER PRODUCT

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HS1/L363 G2033

38	02	ONE ELECTRO-MECANICAL TOTALIZER PER METER
40	01	PRESET - DEFAULT TO MONEY
41	01	PRESET - MONEY OR VOLUME ONLY
42	01	PRESET - FILL IS DISPLAYED
42	02	PRESET - DASHES DISPLAYED (QUEBEC)
43	01	PRESET - ENTRY NOT REQUIRED
44	04	PRESET - FIRST ENTRY POINT FOR MONEY
45	03	PRESET - FIRST ENTRY POINT FOR VOLUME
46	.80	PRESET - VOLUME PRE-CUTOFF
80*	01	ATC PROBE 0 SET FOR GASOLINE
80*	02	ATC PROBE 0 SET FOR DIESEL
81*	01	ATC PROBE 1 SET FOR GASOLINE
81*	02	ATC PROBE 1 SET FOR DIESEL
82*	00	ATC PROBE 2 NOT USED
83*	00	ATC PROBE 3 NOT USED
84*	09	ATC CONFIG. 2 PROBES
88*	00	PULSE OUTPUT BOARD NOT INSTALLED
88*	01	PULSE OUTPUT BOARD INSTALLED

62

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**
14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

HS1/L363 G2033

97*		RAM CLEAR
98		FAULT CODE ALLOCATION
99	03	EXIT OPTIONS, SAVE CHANGES

CONTROL SYSTEM PROGRAMMING

<u>PRIME MODE</u>	<u>SUB MODE</u>	<u>DATA</u>	
MODE 03	01 TO MAX F. P.* NUMBER	0001	
MODE 18	01 TO MAX F. P.* NUMBER	POS 01	1 (GRADE 1)
		POS 02 TO 07	0 NOT USED

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

APPENDIX A FAULT CODES

64

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**
14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00 MODE SETTINGS FOR 2400 OR WAYNE PLUS

FAULT CODES

The fault codes generated by the Duplex II Computer are assigned a “status.”

There are four types or Status as follows: Error codes, Hydraulic codes, Service codes and Disable codes. The definitions of each of these types are as follows:

- Error codes (Status 1) shut down the entire side of the dispenser until cycling power to the computer or entering Option 99 resets the error. (See *the Option Programming manual*, part number 920205, for specific programming functions.)
- Hydraulic codes (Status 2) shut down the nozzle position, which was affected by the error until the computer is reset by cycling power or by entering Option 99.
- Service codes (Status 3) **are** recorded and displayed in Option 01, but do not affect the operation of the dispenser.
- Disable codes (Status 4) are similar to service codes in that they do not affect the operation of the dispenser; however, they **are not** recorded or displayed in Option 01.

Disable Codes are Service Codes that have been disabled by the computer program or by the Option 98 setting in option programming.

Note: Error and Hydraulic fault codes that have not been cleared via Option 99 or a power cycle will continue to be displayed until the problem which caused them is remedied.

Error and Hydraulic codes are displayed every time the affected portion of the dispenser is restarted by removing the nozzle from the nozzle boot and lifting a lever or by pressing a start, grade select or cash/credit switch.

The format of the displayed fault codes is shown in Figure 1., Figure 2.and Figure 3. The fault codes, their status, and descriptions are shown in Table 1. When more than one number is shown in the Fault Code Status column, it indicates that the Fault Code can be assigned either status. An asterisk (*) next to a number in this column indicates the default status.

FAULT REPORTING

When the computer detects a fault, the sale currently in progress may be shut down.

Depending on the fault code status, the sale may not be shut down and, on the next reset, a fault code will be displayed. The fault code is displayed only for the affected side of the dispenser. In addition to the displayed fault code, a transaction counter number is also displayed. The transaction counter number can be used as a troubleshooting aid to determine on which sale an error occurred

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

FAULT REPORTING, continued

and if that particular error is related to the reported problem. This fault code, along with the new transaction counter number, will have a format similar to that in Figure 3-3.

The transaction counter has a range of 00000 - 59999 and then rolls over to 00001. Each side of the dispenser has a transaction counter. When Option 01 is entered the current transaction number for side 1 is shown in the Sale Money Display. The value of side 2 transaction counter (if two fueling points) is shown in the Sale Volume Display. See Figure 1. for an example. Pushing the Totals button while the transaction values are displayed causes entry into the Fault Code History Display Mode. See Figure 2. for an example. As shown the transaction number is displayed for each side along with the fault code for that transaction number. The first fault code displayed is the most recent.

Pushing the Totals button cycles through the fault codes. This mode will display the last 16 fault codes detected by the dispenser's computer since the last RAM clear (not 16 per side but 16 total for that computer).

In order to reset the dispenser after an Error or Hydraulic fault, the initial problem must be corrected and power to the computer cycled or Option 99 is entered. Until these conditions are satisfied the fault code will continue to be displayed at the end of the reset

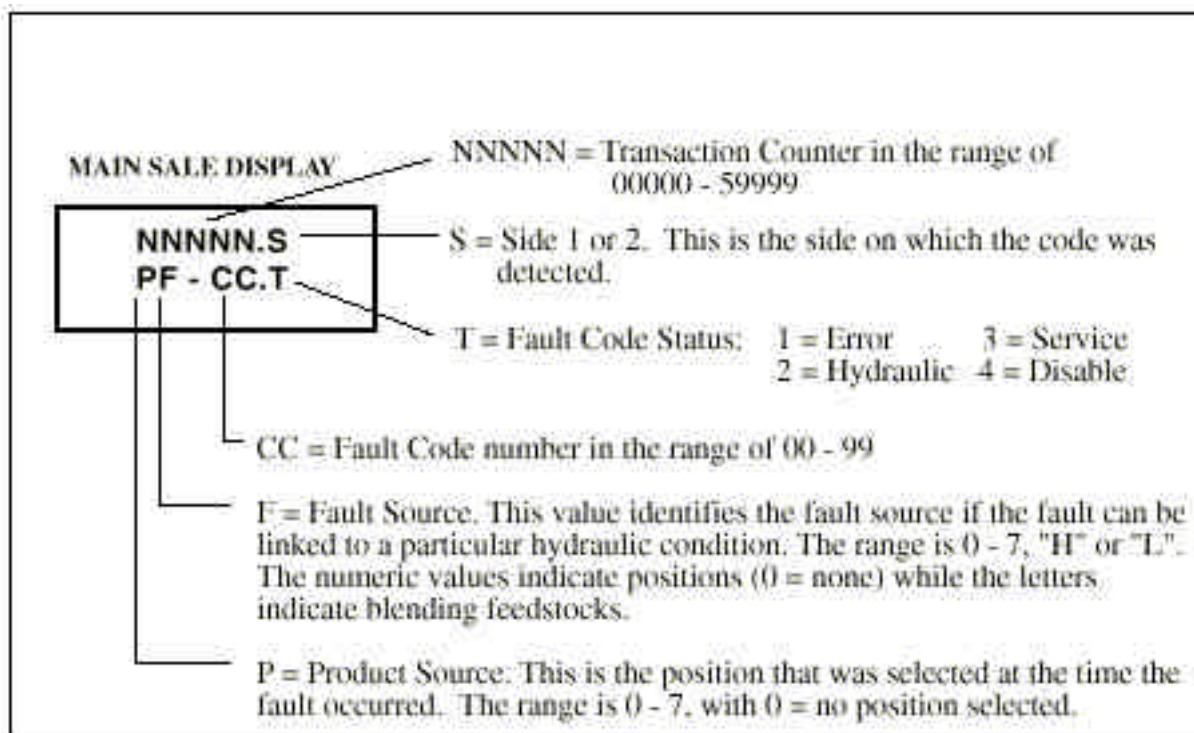


FIGURE A-1. FAULT CODE DISPLAY. The fault code will have a format similar to that shown.

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

FAULT REPORTING, continued

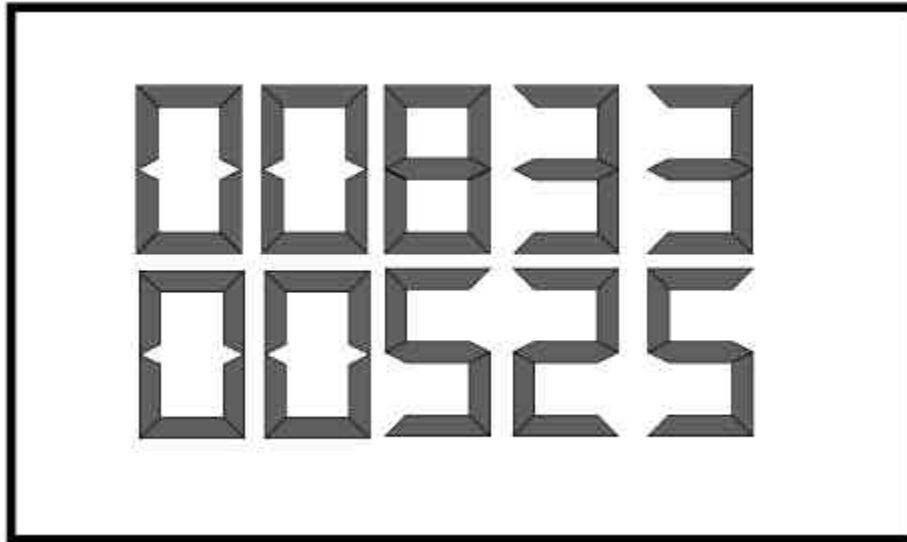


FIGURE A-2 MAIN SALE DISPLAY SHOWING TRANSACTION COUNTERS.
The transaction number for Side 1 of the dispenser is shown in the Money Display and the transaction number for Side 2 is shown in the Volume Display.

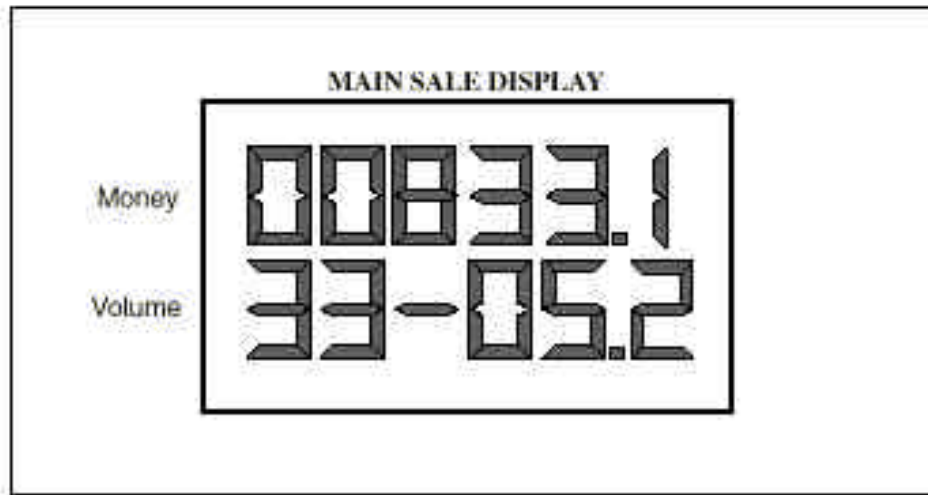


FIGURE 3 MAIN SALE DISPLAY SHOWING TRANSACTION COUNTER AND FAULT CODE. In this example Fault Code 05 occurred on transaction number 00833 on side 1 of the dispenser.

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

FAULT REPORTING, continued

Fault Code	Fault Code Status	Description
01	1/3*	Push-to-start open but configured for push-to-start, or push-to-start switch shorted.
02	1*	Push-to-start jumper shorted but not configured for push-to-start.
03	1/2/3*	Unit has overrun prepay/preset amount.
04	1*	ROM checksum error.
05	1/2/3*	Pulser error or Wayne Vac error. (Set if jitter count exceeds limit)
06	1/3*	Illegal current sensed in valve or relay output circuit.
08	1/2/3*	Time out limit has been exceeded.
09	1*	5 consecutive no pulse timeouts.
10	1/2/3*	Reverse pulse limit has been exceeded.
11	1*	Corrupted option data. The pump will not restart until Option 99 is set to 03. Cycling power will not reset this error.
12	3*	Corrupted totals data; the totals were reset to zero.
13	3*	Corrupted unit price data; the unit prices were reset to zero.
14	1/2/3*	Forward pulses from illegal pulser exceeds limit.**
15	1/2/3*	Jitter pulses from illegal pulser exceeds limit.**
16	1/2/3*	Reverse pulses from illegal pulser exceeds limit.**
20	3/4*	Jitter count exceeds logging limit (blenders only).***
21	3/4*	Reverse count exceeds logging limit (blenders only).***
30	3*	Corrupted Electro-mechanical totalizer data. Totalizer fractional amounts stored in memory after each sale have been reset to 0.
31	3*	Electro-mechanical totalizer overflow. The computer missed incrementing at least one volume unit on the EM totalizer.
51	1/2/3*	Blend ratio has exceeded error limits in Option 52.
54	1/2/3*	Communication failure between computer and blender solenoid drive board.
80	1*	Communication error ATC function timed out waiting for FTB to respond
81	1*	Probe error, probe is open or shorted
82	1*	FTB status error
83:	1*	Temperature error The probe(s) returned a temperature that was outside the FTB's tables
84:	1*	Calibration The FTB is out of calibration (FTB returned a temperature over 42 degC or under -42 degC)
85:	1*	Unknown request: Internal FTB error, generally not used
88	1*	Communication Error; Pulsed output function timed out waiting for POB to respond

Table A-1. FAULT CODES, STATUS, AND DESCRIPTION

* Indicates the default status of the fault code.

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

ATC Error Code Descriptions

**FOR ALL OTHER ERROR CODES SEE STANDARD WAYNE SERVICE
MANUALS**

NNN-S PF.CC.T

NNN: Sequence Number

S: Side 1 or 2

P: See Individual Error Codes

F: See Individual Error Codes

T: 1- Error Code- Shuts down affected side until power is cycled or Option 99 is set to 03. Error codes are displayed in Option 01

3- Service Code- Sale ended and nozzle must be hung up and dispenser re-authorized. Service codes are displayed in Option 01

Fault Code: 80 Communication failure

CC = 80

P = 0

F = 0

T = 1

Check interconnection wiring

Change Fuel Temperature Board - Part Number - ATC-SC86-FTB

For Vista Enhanced (1/V) the Duplex Computer Part Number 883619-R01 for blenders **OR** 883619-002 for non-blend should be used but the E-Prom MUST be changed.

Fault Code 81 Probe Failure

CC = 81

P = Probe Number 0,1 or 2

F = Open or Shorted Probe

T = 1

Replace Probe Part Number 841-3060

Replace Potted harness Part Number ATC-SC86-40

Replace FTB Part Number ATC-SC86-FTB

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

ATC Error Code Descriptions

Fault Code: 83 Probe failures

CC = 83
P = Probe Number 0,1 or 2
F = Subcodes can indicate multiple errors
 1- Over Range
 2- Under Range
 3- Invalid Table
T = 1

Replace Probe Part Number 841-3060

Replace Potted harness Part Number ATC-SC86-40

Replace FTB Part Number ATC-SC86-FTB

Fault Code: 86 No temperature on power up.

CC = 86
P = 0
F = 0
T = 1

Replace FTB Part Number ATC-SC86-FTB

Fault Code: 88 POB Communication timeout

CC= 88
P = 0
F = 0
T = 1

Inspect and confirm all connections to the POB

Replace POB Part Number POB-BOARDREV1

Fault Code: 89 POB Internal error

CC= 89
P = 0
F = 0
T = 1

Replace POB Part Number POB-BOARDREV1

70

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD**

FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED

14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

APPENDIX B ATC DRAWINGS

71

**NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE
EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED**
14/08/02

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00 **MODE SETTINGS FOR 2400 OR WAYNE PLUS**

FTB BOARD CONNECTIONS AND PROBE LAYOUTS

ATC Hardware

The ATC version of the Vista dispenser requires an auxiliary Fuel Temperature Board (FTB) to measure temperature and provide the necessary volume correction factor tables.

The ATC Vista computer handles all volume flow measurements, controls, switches and display processing. The FTB is connected to the Preset port and daisy chained with one or two preset modules.

The FTB has 7 connectors.

J1 – Power Input (from SC-86 DC supply 15 to 25 VDC unregulated)

J2 – ISB ground terminal block

J3 – Thermistor Input connector.

1 & 2 - Probe 0

6 & 7 - Probe 1

8 & 9 - Probe 2

3 & 4 - Probe 3 - future use

5 - ISB ground connected to J2

J4 – Auxiliary Test/Comm port

J5 – Preset Connection

J6 – SC-86 connection

J7 – W&M test mode switch connector (Normally open) Closed switch places ATC in W&M test mode.

There are two LED's which are used to setup test purposes.
(D11 - normal operation, D12 - communications activity).

Configuration Switch SN1

Position 1 – On for normal FTB operation

2 – Off – reserved use

3 – Off – reserved use

4 – Off – for normal FTB operation (RS-485 Terminal only mode)

SC 86 DUPLEX ENHANCED OPTION SETTINGS REV 80.00 AND 81.00
MODE SETTINGS FOR 2400 OR WAYNE PLUS

FTB BOARD CONNECTIONS AND PROBE LAYOUTS

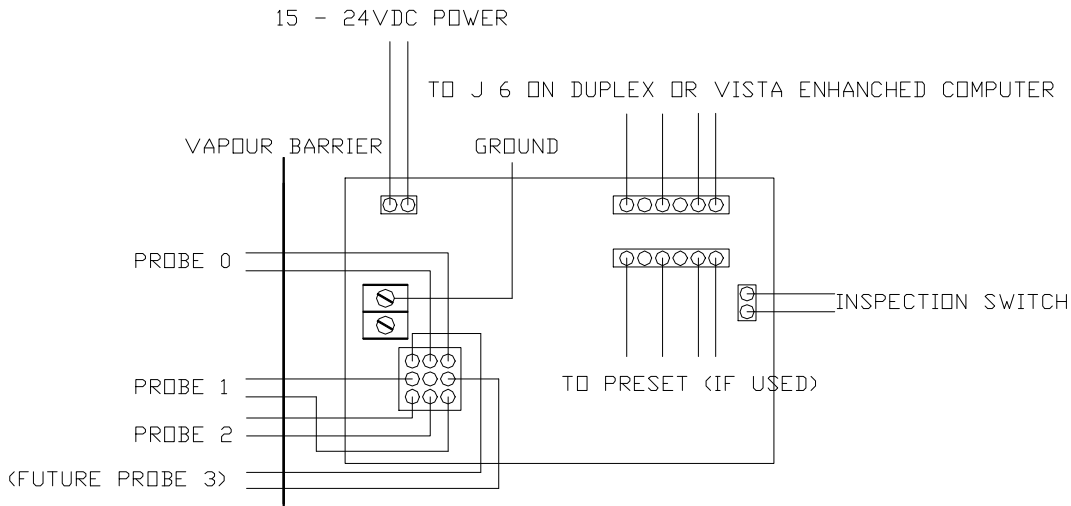


FIGURE B-1 FUEL TEMPERATURE BOARD LAYOUT

Model	Probe "0"	Probe "1"	Probe "2"
V395 1/V395 2/V595	Low Product	High Product	Single
V590, 1/V590, 1/V590U, 2/V590, 2/V590U	Low Product	High Product	Not Used
V580,1/V580,V585, 1/V585	Low Product	High Product	Not Used
V390, 1/V390, 1/V390U, 2/V390U	Centre Strainer / iMeter	Right Strainer / iMeter	Left Strainer / iMeter
V389,1/V389, 2/V389,L363, 1/L363, HS/L363, HS1/L363,	Left Strainer / iMeter	Right Strainer / iMeter	Not Used
V387, 1/V387, 2/V387, L362, 1/L362, L361, 1/L361, HS/L362, HS1/L362, HS/L361, HS1/L361, HS1/V387, HS1/V388, G2031, G2027	Centre Strainer / Manifold Casting / iMeter	Not Used	Not Used
G2001, G2007R, G2002, G2007	Meter support casting	Not Used	Not Used
G2003	Meter support casting	Meter support casting	

* Note 1. As viewed from Side 2 2. 1/ Designates enhanced electronics 3. 2/ Designates iMeter

TABLE B-1 PROBE LOCATIONS

POTTED WIRE HARNESS COLOURS

- PROBE - 0 -Black and Violet
- PROBE - 1 -Red and Brown
- PROBE - 2 -White and Black-White
- Green - Must be connected to sheathing of all probes to prevent RF interference

NOTE: FOR BLENDERS JUMPERS JP 2 and JP3 (1+2) MUST BE ON THE TWO PINS CLOSEST THE EDGE OF THE BOARD
FOR NON-BLENDERS THE TWO PINS (2+3) CLOSEST THE MIDDLE OF THE BOARD MUST BE USED

TERMS AND CONDITIONS

Seller warrants that new product and parts of its own design and manufacture when shipped, will be good quality and will be free from defects in material and workmanship and will conform to applicable specifications. Work, when performed by Seller, will meet applicable work requirements. No warranty is made with respect to used or rebuilt equipment and with respect to products not manufactured by Seller. Seller's only obligation shall be to assign to Buyer, at the time of sale, whatever warranty seller has received from the manufacturer. Items such as but not limited to lamps, electric motors, hoses, nozzles, hose swivels and safety impact valves are included in the category referred to in the previous sentence. Seller's recommendations with respect to the operation of seller's equipment are advisory only and are not warranted. All claims under this warranty must be made in writing immediately upon discovery and, in any event, within twenty-four (24) months from date of start-up, if a product is involved, or from completion of the applicable work, if work is involved, or thirty (30) months from date of invoice (whichever shall occur first). (Provided however, that with respect to the Wayne Plus system, 2400 system, card readers, and ATC equipment, all claims must be made in writing within twelve (12) months from date of start-up. With respect to receipts/totals printers, and any other printers or printing mechanisms, all claims must be made in writing within ninety (90) days from date of start-up. Vista pumps and dispenser external metal panels will be free from defects due to rust and/or corrosion for a period of forty-eight (48) months from date of dispenser start-up). Defective and nonconforming items must be held for Seller's inspection and returned to the original F.O.B. point upon request. Seller's warranty on service parts, whether new or reconditioned, is ninety (90) days from the date of installations, or twelve (12) months from date of invoice, whichever first occurs. THE FOREGOING IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES WHATSOEVER, EXPRESSED, IMPLIED AND STATUTORY, INCLUDING WITHOUT LIMITATIONS, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS.

Upon buyer's submission of a claim as provided above and its substantiation. Seller shall, at its option either (I) repair or replace its products or work at the original f.o.b. point or location of purchase products and/or parts of (II) refund an equitable portion of the purchase price.

THE FOREGOING IS SELLER'S ONLY OBLIGATION AND BUYER'S EXCLUSIVE REMEDY FOR BREACH OF WARRANTY AND, EXCEPT FOR GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, THE FOREGOING IS BUYER'S EXCLUSIVE REMEDY AGAINST SELLER FOR ALL CLAIMS ARISING HEREUNDER OR RELATING HERE TO WHETHER SUCH CLAIMS ARE BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES. BUYER'S FAILURE TO SUBMIT A CLAIM AS PROVIDED ABOVE SHALL SPECIFICALLY WAIVE ALL CLAIMS FOR DAMAGES OR OTHER RELIEF, INCLUDING BUT NOT LIMITED TO CLAIMS BASED ON LATENT DEFECTS. IN NO EVENT SHALL BUYER BE ENTITLED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES. ANY ACTION BY BUYER ARISING HEREUNDER OR RELATING HERETO, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES, MUST BE COMMENCED WITHIN ONE (1) YEAR AFTER THE CAUSE OF ACTION ACCRUES OR IT SHALL BE BARRED.

"NOTE: This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in as commercial environment. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense."

