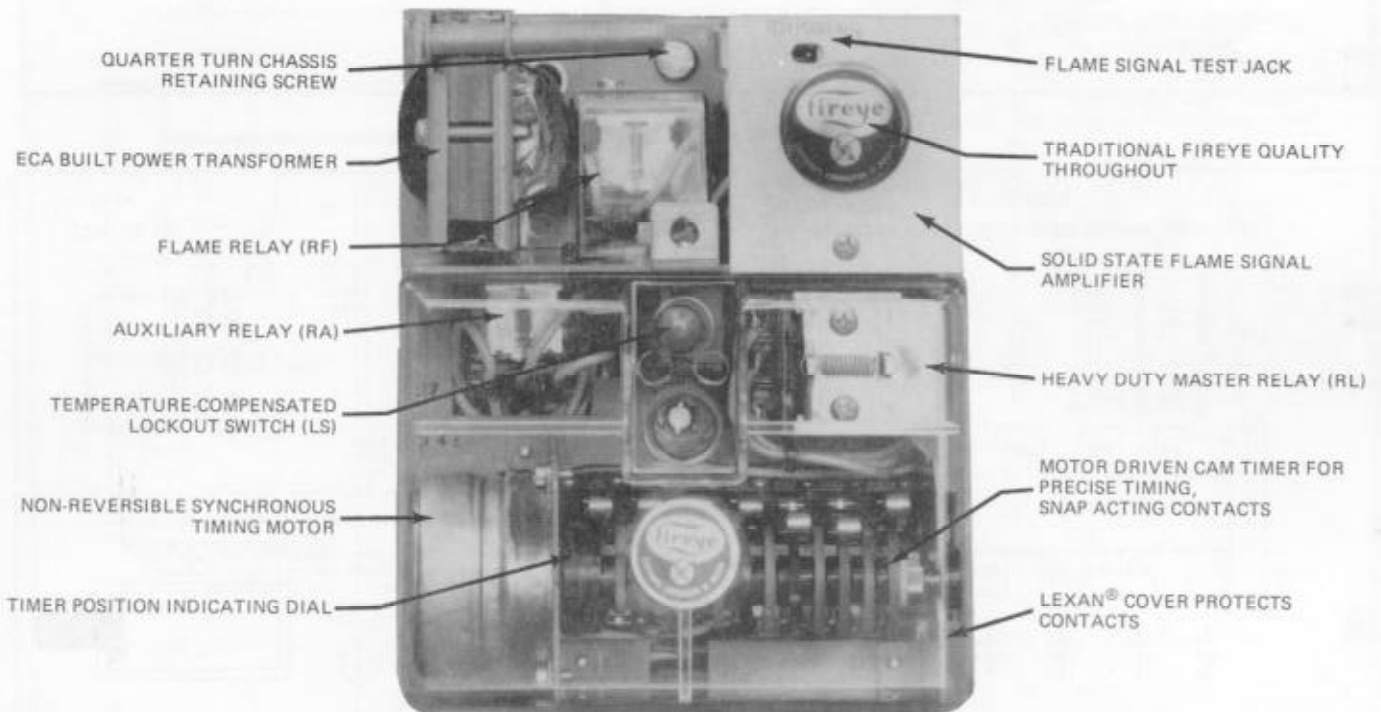




DETAILED OPERATING SEQUENCE

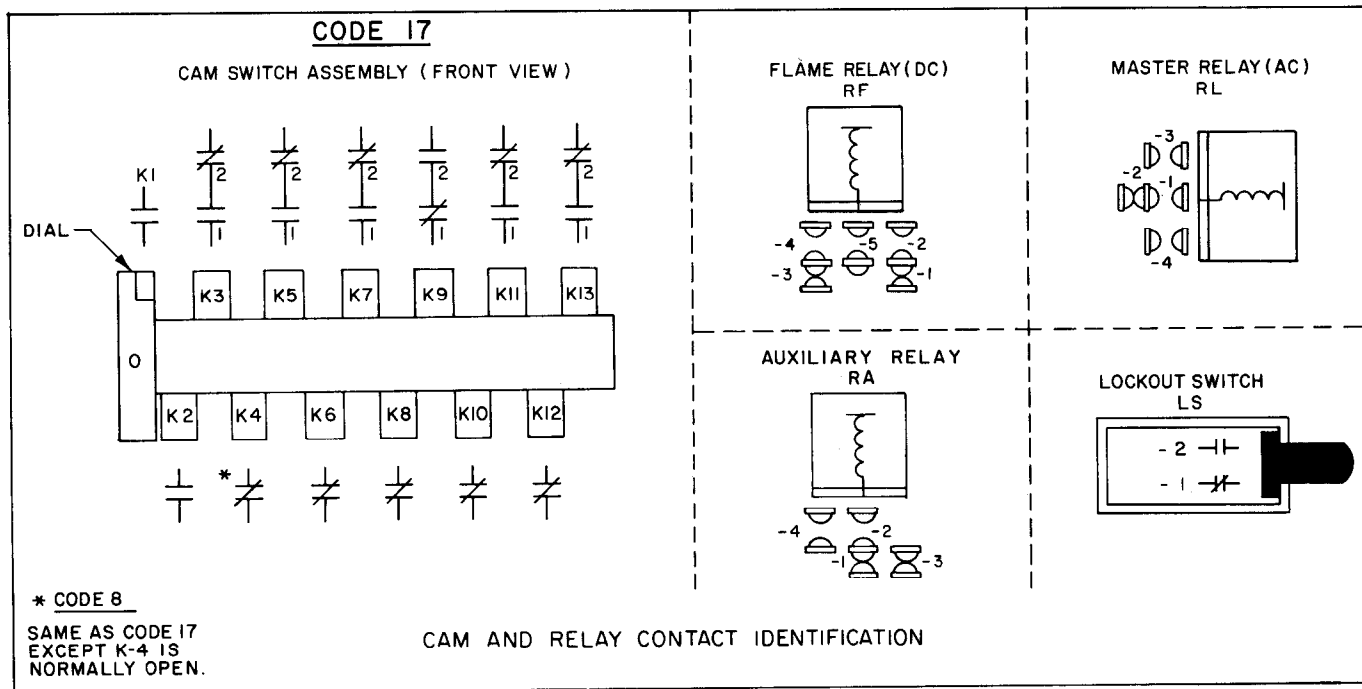
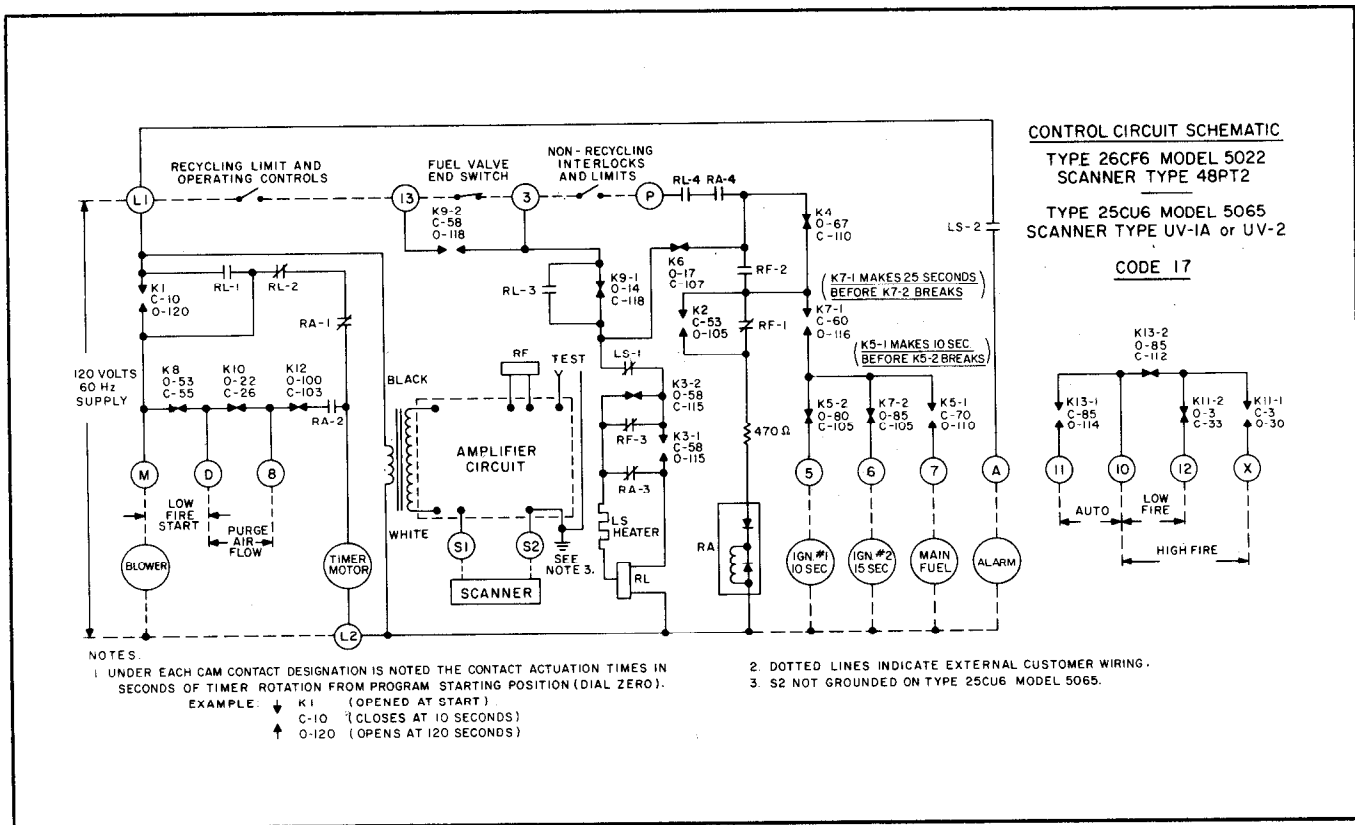
TECHNICAL
INFORMATION

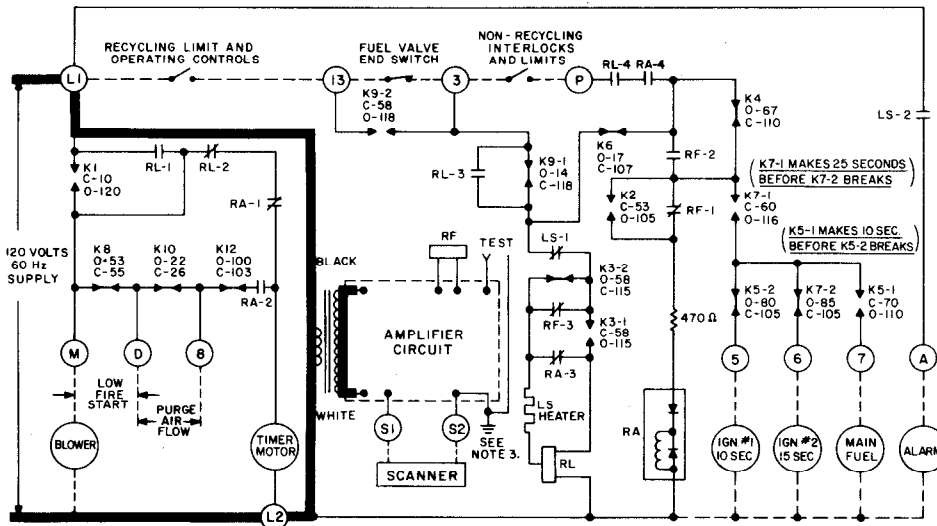
TYPE 26CF6 MODEL 5022
TYPE 25CU6 MODEL 5065



CONTENTS

Chassis Details	Front Cover
Schematic Diagram	Page 2
Cam & Relay Contact Identification	Page 2
Operating Sequence Schematics	Pages 3 through 11
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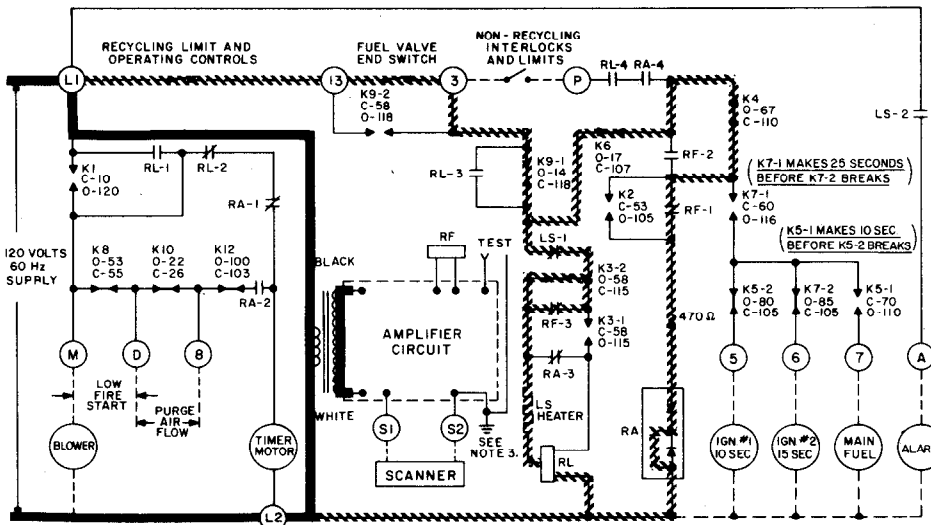


CONTROL CIRCUIT SCHEMATIC
 TYPE 26CF6 MODEL 5022
 SCANNER TYPE 48PT2
 TYPE 25CU6 MODEL 5065
 SCANNER TYPE UV-1A or UV-2
 CODE 17

NOTES:
 1 UNDER EACH CAM CONTACT DESIGNATION IS NOTED THE CONTACT ACTUATION TIMES IN SECONDS OF TIMER ROTATION FROM PROGRAM STARTING POSITION (DIAL ZERO).
 EXAMPLE: ↓ K1 (OPENED AT START)
 C-10 (CLOSES AT 10 SECONDS)
 ↑ O-120 (OPENS AT 120 SECONDS)

2 DOTTED LINES INDICATE EXTERNAL CUSTOMER WIRING.
 3 S2 NOT GROUNDED ON TYPE 25CU6 MODEL 5065.

① TIME: 0 SECONDS DIAL INDICATION: 0
 POWER ON TRANSFORMER ENERGIZED
 MODULATOR AT LOW FIRE



CONTROL CIRCUIT SCHEMATIC
 TYPE 26CF6 MODEL 5022
 SCANNER TYPE 48PT2
 TYPE 25CU6 MODEL 5065
 SCANNER TYPE UV-1A or UV-2
 CODE 17

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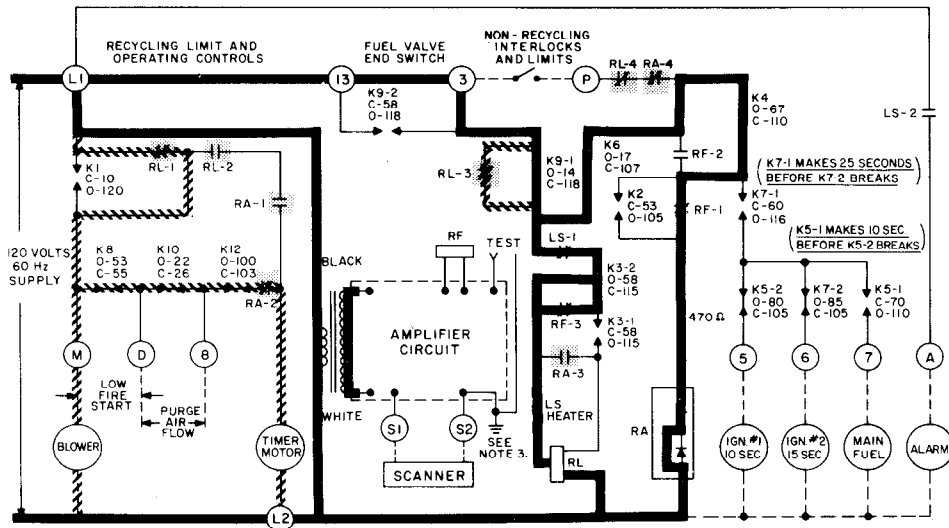
2 DOTTED LINES INDICATE EXTERNAL CUSTOMER WIRING.
 3 S2 NOT GROUNDED ON TYPE 25CU6 MODEL 5065.

② TIME: 0 SECONDS DIAL INDICATION: 0
 LIMIT AND OPERATING CONTROL CIRCUITS CLOSE
 RELAYS RL AND RA ARE ENERGIZED



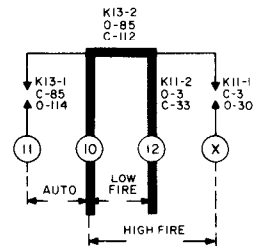
CIRCUITS ENERGIZED

CIRCUITS PREVIOUSLY ENERGIZED



CONTROL CIRCUIT SCHEMATIC
 TYPE 26CF6 MODEL 5022
 SCANNER TYPE 48PT2
 TYPE 25CU6 MODEL 5065
 SCANNER TYPE UV-1A or UV-2

CODE 17



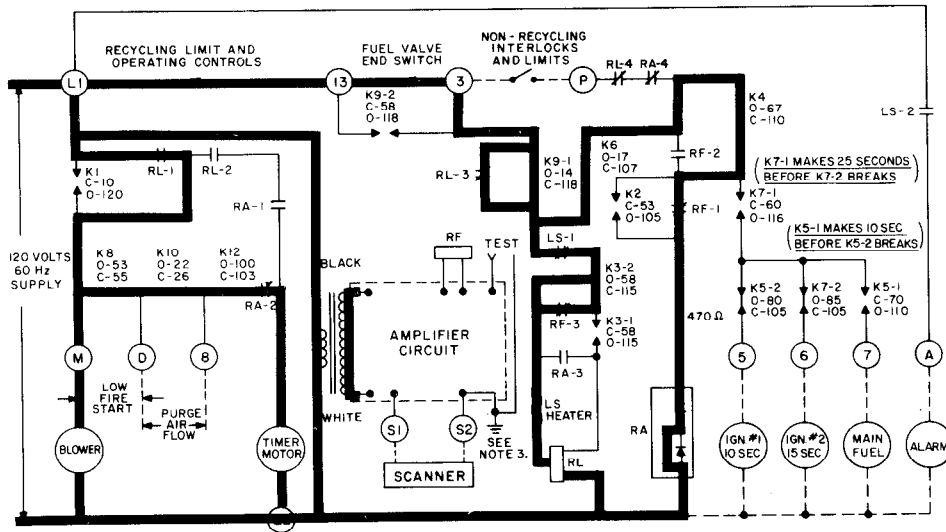
NOTES

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EXAMPLE: ↓ K1 (OPENED AT START)
 C-10 (CLOSES AT 10 SECONDS)
 ↑ O-120 (OPENS AT 120 SECONDS)

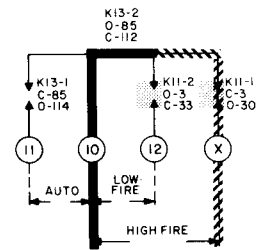
2. DOTTED LINES INDICATE EXTERNAL CUSTOMER WIRING.
 3. S2 NOT GROUNDED ON TYPE 25CU6 MODEL 5065

3 TIME: 0 SECONDS DIAL INDICATION: 0
 CONTACTS RA-1, RA-3, RL-2 OPEN
 RA-2, RA-4, RL-1, RL-3, RL-4 CLOSE
 TIMER MOTOR AND BLOWER ARE ENERGIZED



CONTROL CIRCUIT SCHEMATIC
 TYPE 26CF6 MODEL 5022
 SCANNER TYPE 48PT2
 TYPE 25CU6 MODEL 5065
 SCANNER TYPE UV-1A or UV-2

CODE 17



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 ↑ O-120 (OPENS AT 120 SECONDS)

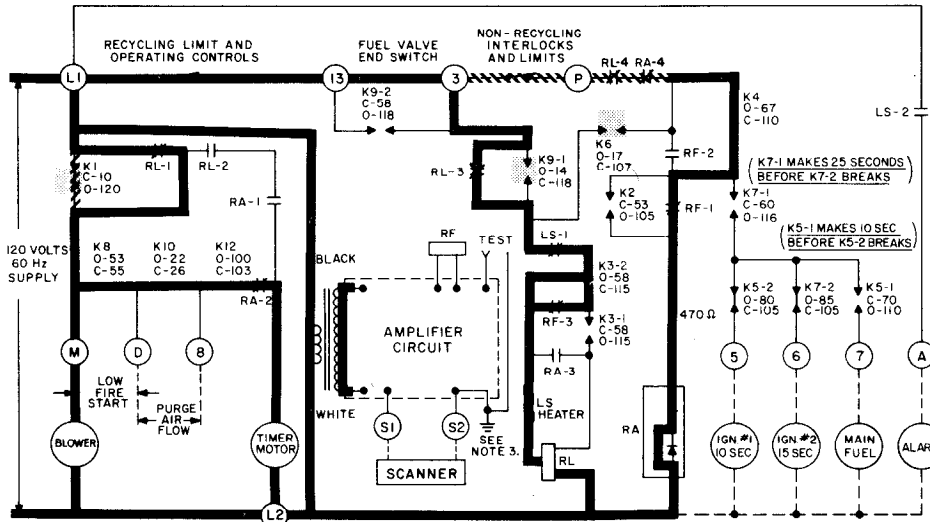
2. DOTTED LINES INDICATE EXTERNAL CUSTOMER WIRING.
 3. S2 NOT GROUNDED ON TYPE 25CU6 MODEL 5065.

4 TIME: 3 SECONDS DIAL INDICATION: BLANK
 CONTACT KII-2 OPENS
 KII-1 CLOSSES
 MODULATOR GOES TO HIGH FIRE



CIRCUITS ENERGIZED

CIRCUITS PREVIOUSLY ENERGIZED



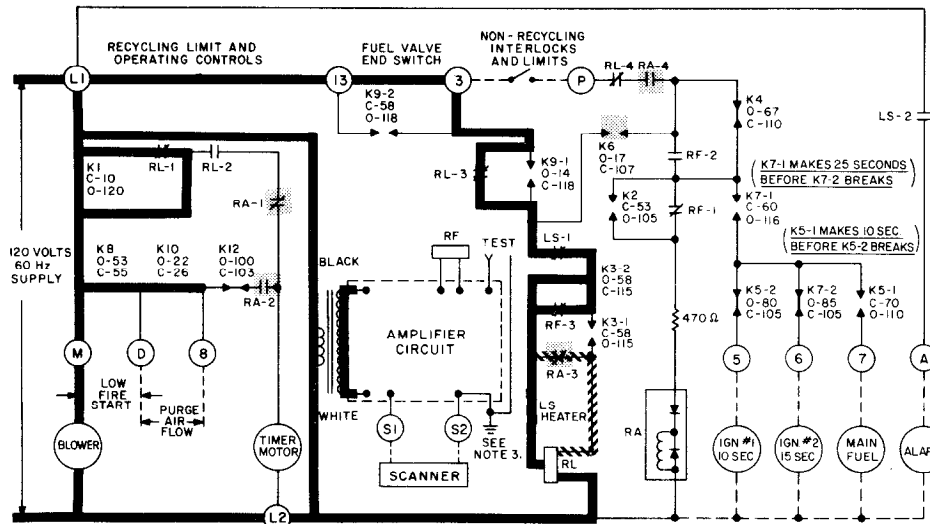
CONTROL CIRCUIT SCHEMATIC
 TYPE 26CF6 MODEL 5022
 SCANNER TYPE 48PT2
 TYPE 25CU6 MODEL 5065
 SCANNER TYPE UV-1A or UV-2

CODE 17

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 EXAMPLE: ↓ K1 (OPENED AT START)
 ↑ C-10 (CLOSES AT 10 SECONDS)
 ↑ O-120 (OPENS AT 120 SECONDS)

2 DOTTED LINES INDICATE EXTERNAL CUSTOMER WIRING.
 3 S2 NOT GROUNDED ON TYPE 25CU6 MODEL 5065.

5 TIME: 17 SECONDS DIAL INDICATION: BLANK
CONTACT K6 OPENS, NON-RECYCLING CIRCUIT MUST BE CLOSED
K9-1 OPENS
K1 CLOSSES



CONTROL CIRCUIT SCHEMATIC
 TYPE 26CF6 MODEL 5022
 SCANNER TYPE 48PT2
 TYPE 25CU6 MODEL 5065
 SCANNER TYPE UV-1A or UV-2

CODE 17

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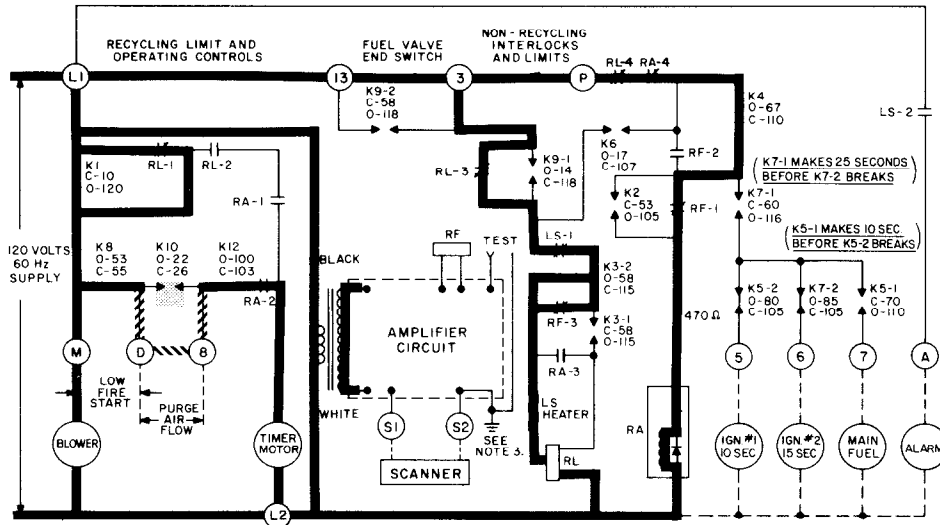
2 DOTTED LINES INDICATE EXTERNAL CUSTOMER WIRING.
 3 S2 NOT GROUNDED ON TYPE 25CU6 MODEL 5065.

5A NOTE: IF NON-RECYCLING INTERLOCK BETWEEN 3 AND P OPENS AFTER 17 SEC. ON TIMER, A SAFETY LOCKOUT WILL OCCUR



CIRCUITS ENERGIZED

CIRCUITS PREVIOUSLY ENERGIZED

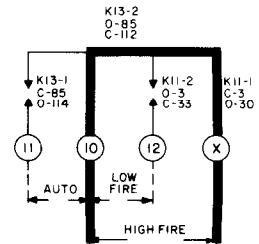


CONTROL CIRCUIT SCHEMATIC

TYPE 26CF6 MODEL 5022
SCANNER TYPE 48PT2

TYPE 25CU6 MODEL 5065
SCANNER TYPE UV-1A or UV-2

CODE 17



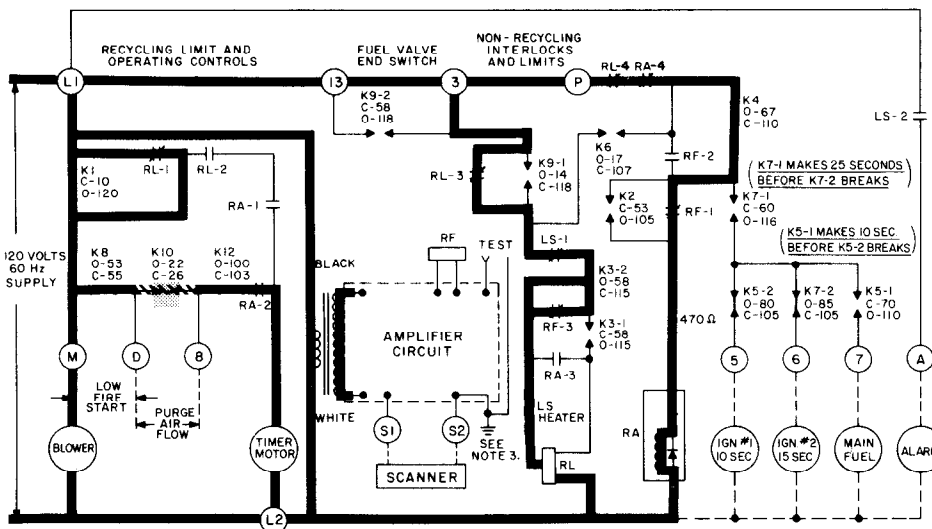
NOTES

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EXAMPLE: ↓ K1 (OPENED AT START)
C-10 (CLOSES AT 10 SECONDS)
↑ 0-120 (OPENS AT 120 SECONDS)

2 DOTTED LINES INDICATE EXTERNAL CUSTOMER WIRING.
3 S2 NOT GROUNDED ON TYPE 25CU6 MODEL 5065.

6 TIME: 22 SECONDS DIAL INDICATION: BLANK
CONTACT K10 OPENS, PURGE AIR FLOW
CIRCUIT MUST BE CLOSED. IF NOT, TIMER WILL PAUSE.

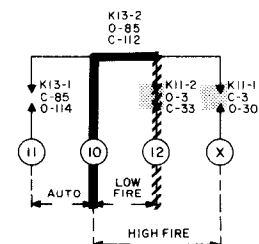


CONTROL CIRCUIT SCHEMATIC

TYPE 26CF6 MODEL 5022
SCANNER TYPE 48PT2

TYPE 25CU6 MODEL 5065
SCANNER TYPE UV-1A or UV-2

CODE 17



NOTES

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C-10 (CLOSES AT 10 SECONDS)
↑ 0-120 (OPENS AT 120 SECONDS)

2 DOTTED LINES INDICATE EXTERNAL CUSTOMER WIRING.
3 S2 NOT GROUNDED ON TYPE 25CU6 MODEL 5065.

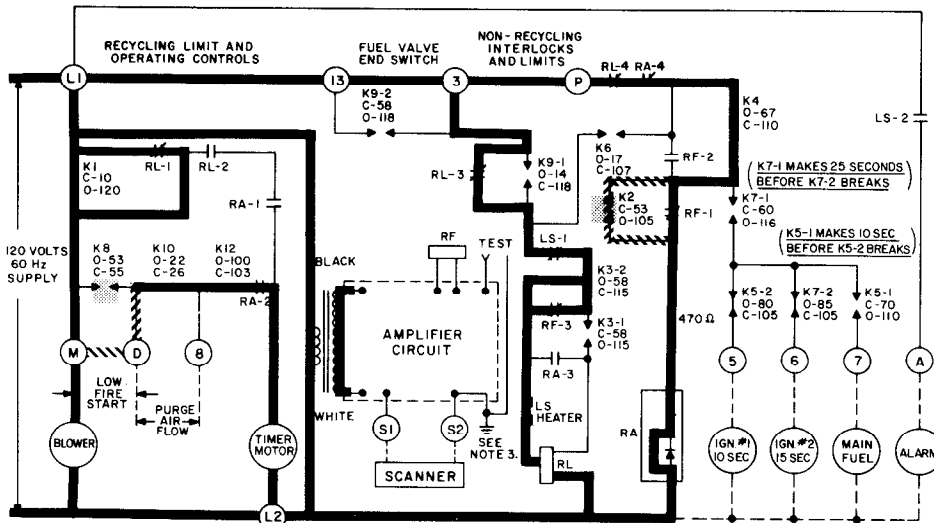
7 TIME: 33 SECONDS DIAL INDICATION: BLANK
CONTACT K11-1 OPENS
K11-2 CLOSES, MODULATOR GOES TO LOW FIRE
K10 CLOSES, BY-PASSING PURGE AIR FLOW CIRCUIT



CIRCUITS ENERGIZED



CIRCUITS PREVIOUSLY ENERGIZED



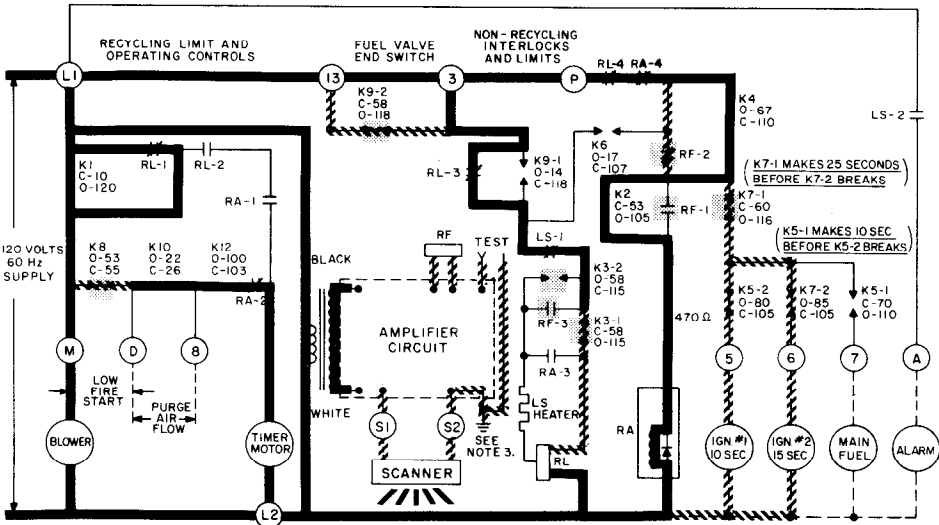
CONTROL CIRCUIT SCHEMATIC
 TYPE 26CF6 MODEL 5022
 SCANNER TYPE 48PT2
 TYPE 25CU6 MODEL 5065
 SCANNER TYPE UV-1A or UV-2

CODE 17

NOTES:
 1. UNDER EACH CAM CONTACT DESIGNATION IS NOTED THE CONTACT ACTUATION TIMES IN SECONDS OF TIMER ROTATION FROM PROGRAM STARTING POSITION (DIAL ZERO).
 EXAMPLE: ↓ K1 (OPENED AT START)
 C-10 (CLOSES AT 10 SECONDS)
 ↑ O-120 (OPENS AT 120 SECONDS)

2. DOTTED LINES INDICATE EXTERNAL CUSTOMER WIRING.
 3. S2 NOT GROUNDED ON TYPE 25CU6 MODEL 5065.

8 TIME: 53 SECONDS DIAL INDICATION: BLANK
 CONTACT K8 OPENS, LOW FIRE SWITCH MUST BE CLOSED. IF NOT, TIMER WILL PAUSE.
 K2 CLOSES



CONTROL CIRCUIT SCHEMATIC
 TYPE 26CF6 MODEL 5022
 SCANNER TYPE 48PT2
 TYPE 25CU6 MODEL 5065
 SCANNER TYPE UV-1A or UV-2

CODE 17

NOTES:
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 C-10 (CLOSES AT 10 SECONDS)
 ↑ O-120 (OPENS AT 120 SECONDS)

2. DOTTED LINES INDICATE EXTERNAL CUSTOMER WIRING.
 3. S2 NOT GROUNDED ON TYPE 25CU6 MODEL 5065.

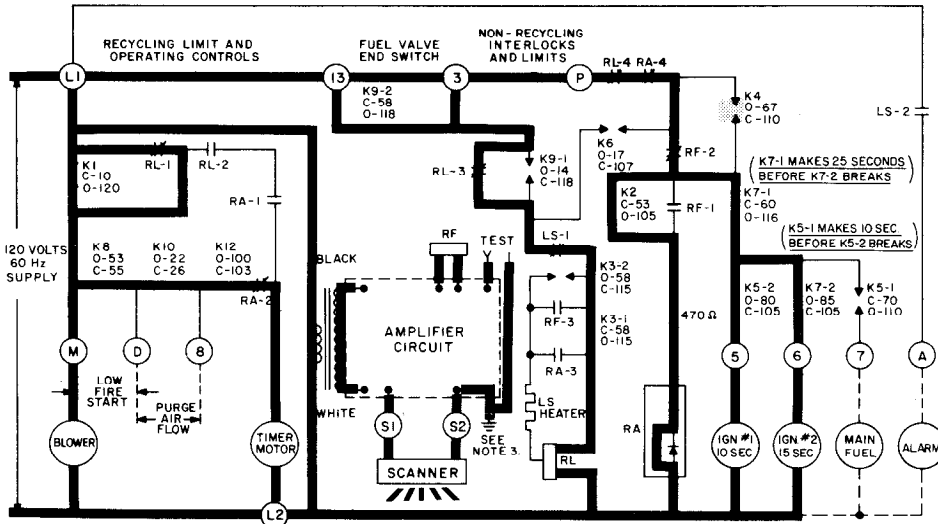
9 TIME: 60 SECONDS DIAL INDICATION: 1
 CONTACT K7-1 CLOSES, TERMINALS 5 AND 6 (IGNITION) ENERGIZED, PILOT DETECTED
 RF-2 CLOSES
 RF-1, RF-3 OPEN
 K9-2 CLOSES, BY-PASSING FUEL VALVE END SWITCH
 K8, K3-1 CLOSE
 K3-2 OPENS



CIRCUITS ENERGIZED

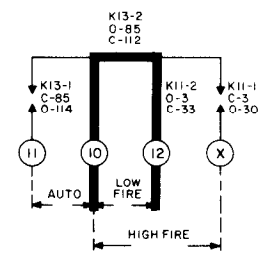


CIRCUITS PREVIOUSLY ENERGIZED



CONTROL CIRCUIT SCHEMATIC
 TYPE 26CF6 MODEL 5022
 SCANNER TYPE 48PT2
 TYPE 25CU6 MODEL 5065
 SCANNER TYPE UV-1A or UV-2

CODE 17

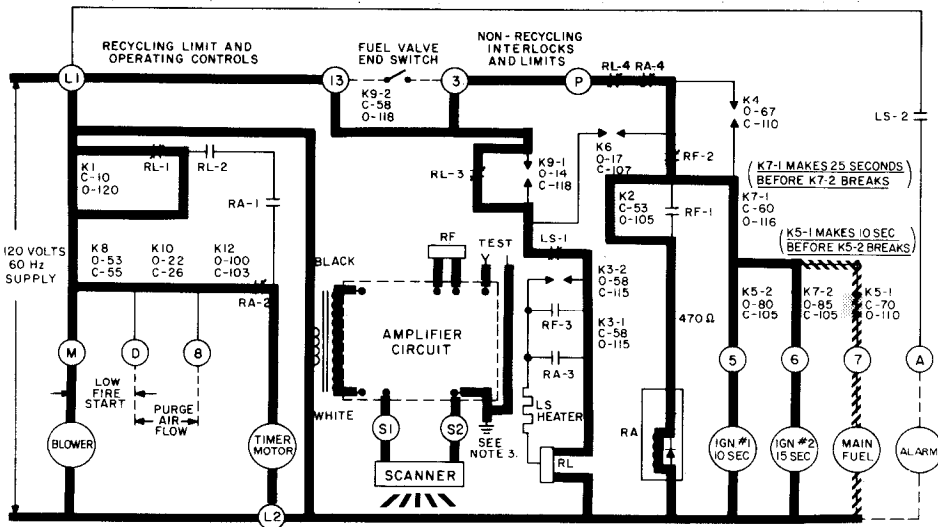


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 EXAMPLE: ↓ K1 (OPENED AT START)
 C-10 (CLOSES AT 10 SECONDS)
 ↑ O-120 (OPENS AT 120 SECONDS)

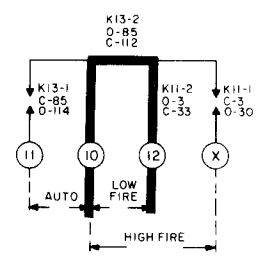
2 DOTTED LINES INDICATE EXTERNAL CUSTOMER WIRING.
 3 S2 NOT GROUNDED ON TYPE 25CU6 MODEL 5065.

10 TIME: 67 SECONDS DIAL INDICATION: BLANK
CONTACT K4 OPENS, END OF PILOT TRIAL FOR IGNITION, FLAME MUST BE PROVED



CONTROL CIRCUIT SCHEMATIC
 TYPE 26CF6 MODEL 5022
 SCANNER TYPE 48PT2
 TYPE 25CU6 MODEL 5065
 SCANNER TYPE UV-1A or UV-2

CODE 17



NOTES:

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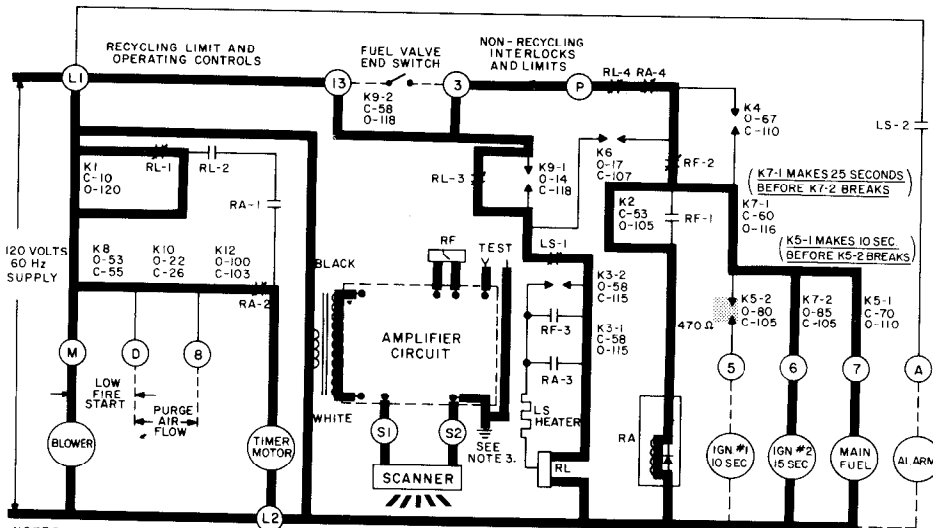
2 DOTTED LINES INDICATE EXTERNAL CUSTOMER WIRING.
 3 S2 NOT GROUNDED ON TYPE 25CU6 MODEL 5065.

11 TIME: 70 SECONDS DIAL INDICATION: 2
CONTACT K5-1 CLOSES, TERMINAL 7 (MAIN FUEL) ENERGIZED



CIRCUITS ENERGIZED

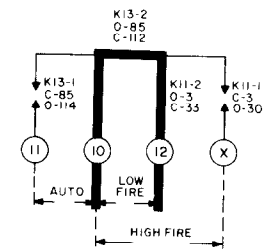
CIRCUITS PREVIOUSLY ENERGIZED



CONTROL CIRCUIT SCHEMATIC

TYPE 26CF6 MODEL 5022
SCANNER TYPE 48PT2
TYPE 25CU6 MODEL 5065
SCANNER TYPE UV-1A or UV-2

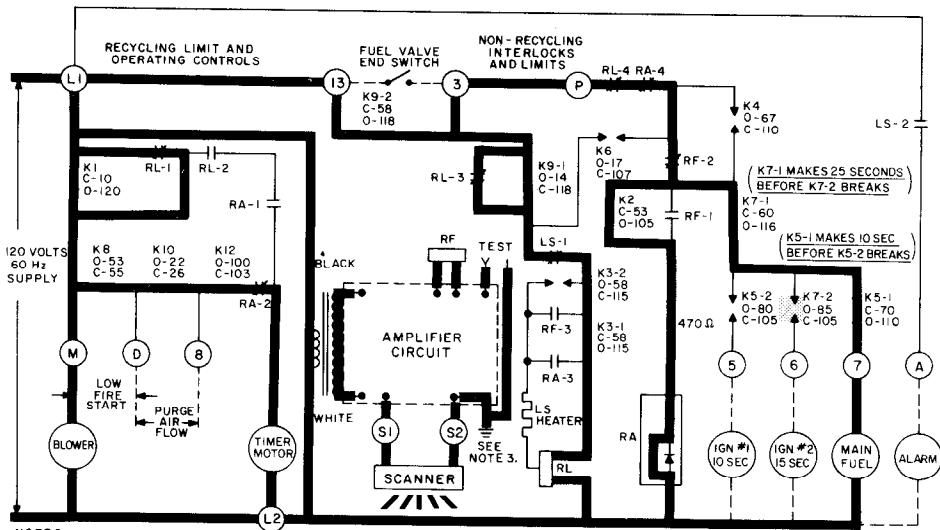
CODE 17



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EXAMPLE: ↓ K1 (OPENED AT START)
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- 2 DOTTED LINES INDICATE EXTERNAL CUSTOMER WIRING.
- 3 S2 NOT GROUNDED ON TYPE 25CU6 MODEL 5065.

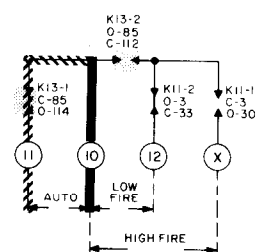
12 TIME: 80 SECONDS DIAL INDICATION: 3
CONTACT K5-2 OPENS, IGNITION OFF TERMINAL 5,
10 SECOND TRIAL FOR IGNITION OF MAIN FLAME ENDS



CONTROL CIRCUIT SCHEMATIC

TYPE 26CF6 MODEL 5022
SCANNER TYPE 48PT2
TYPE 25CU6 MODEL 5065
SCANNER TYPE UV-1A or UV-2

CODE 17



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 C-10 (CLOSES AT 10 SECONDS)
 ↑ 0-120 (OPENS AT 120 SECONDS)
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- 3 S2 NOT GROUNDED ON TYPE 25CU6 MODEL 5065.

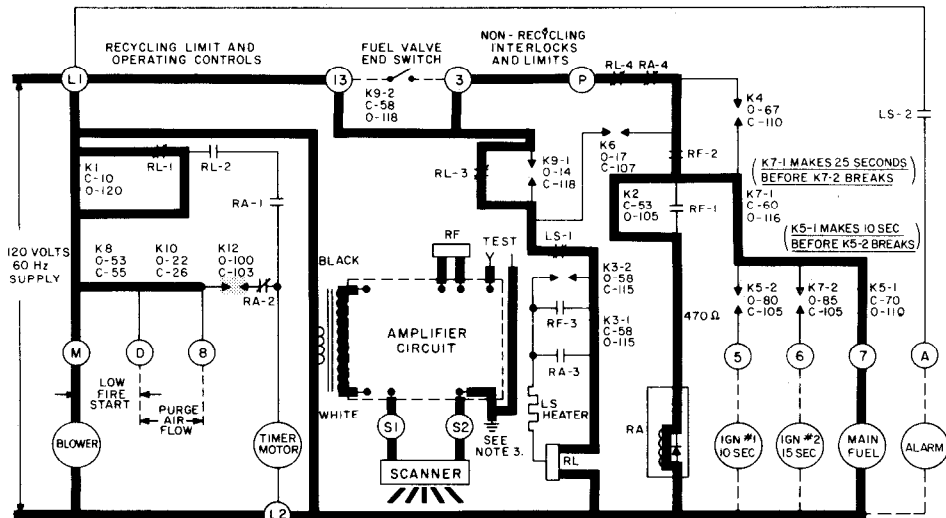
13 TIME: 85 SECONDS DIAL INDICATION: 4
CONTACT K7-2 OPENS, IGNITION OFF TERMINAL 6,
15 SECOND TRIAL FOR IGNITION OF MAIN FLAME ENDS
K13-1 CLOSES
K13-2 OPENS, MODULATOR RELEASED TO AUTOMATIC
POSITION



CIRCUITS ENERGIZED

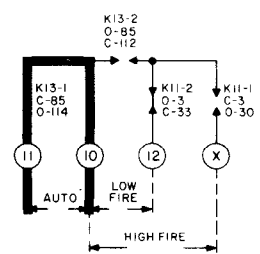


CIRCUITS PREVIOUSLY ENERGIZED



CONTROL CIRCUIT SCHEMATIC
 TYPE 26CF6 MODEL 5022
 SCANNER TYPE 4BPT2
 TYPE 25CU6 MODEL 5065
 SCANNER TYPE UV-1A or UV-2

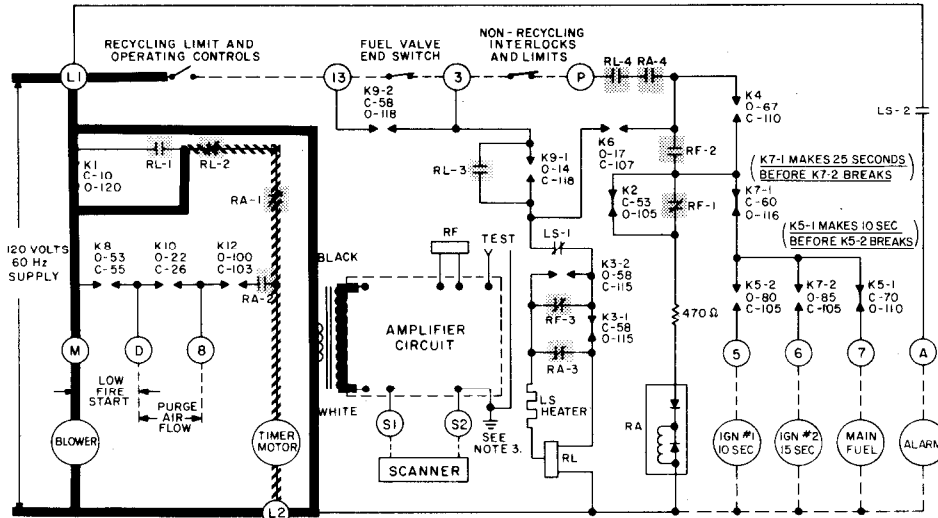
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 C-10 (CLOSES AT 10 SECONDS)
 ↑ O-120 (OPENS AT 120 SECONDS)

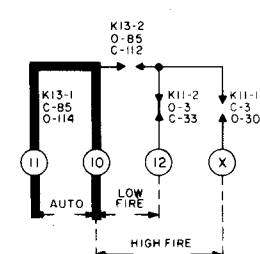
2 DOTTED LINES INDICATE EXTERNAL CUSTOMER WIRING.
 3 S2 NOT GROUNDDED ON TYPE 25CU6 MODEL 5065.

14 TIME: 100 SECONDS DIAL INDICATION: DOT
CONTACT K12 OPENS, PROGRAMMING TIMER STOPS, BURNER LIGHT OFF COMPLETED



CONTROL CIRCUIT SCHEMATIC
 TYPE 26CF6 MODEL 5022
 SCANNER TYPE 4BPT2
 TYPE 25CU6 MODEL 5065
 SCANNER TYPE UV-1A or UV-2

CODE 17



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 C-10 (CLOSES AT 10 SECONDS)
 ↑ O-120 (OPENS AT 120 SECONDS)

2 DOTTED LINES INDICATE EXTERNAL CUSTOMER WIRING.
 3 S2 NOT GROUNDDED ON TYPE 25CU6 MODEL 5065.

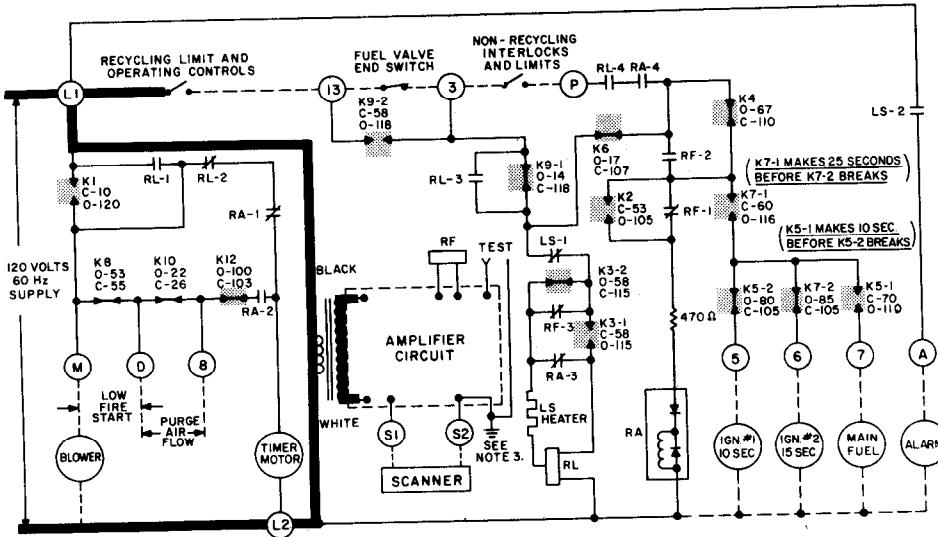
15 TIME: 100 SECONDS DIAL INDICATION: DOT
LIMIT OR OPERATING CONTROL OPENS
TERMINAL 13 UNPOWERED
RELAYS RF, RL AND RA DE-ENERGIZED
CONTACTS RL-2 AND RA-1 CLOSE, TIMER MOTOR STARTS
RL-1, RL-3, RL-4, RA-2, RA-4, RF-2 OPEN
RA-3, RF-1, RF-3 CLOSE



CIRCUITS ENERGIZED

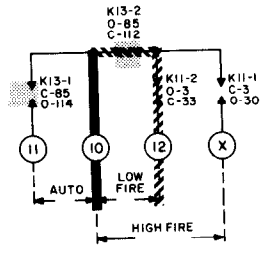


CIRCUITS PREVIOUSLY ENERGIZED



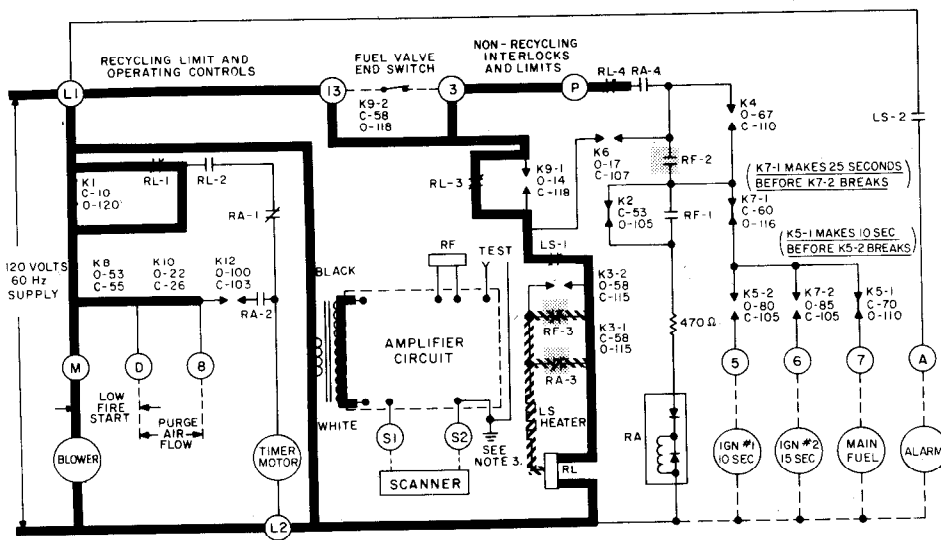
CONTROL CIRCUIT SCHEMATIC
 TYPE 26CF6 MODEL 5022
 SCANNER TYPE 48PT2
 TYPE 25CU6 MODEL 5065
 SCANNER TYPE UV-1A or UV-2

CODE 17



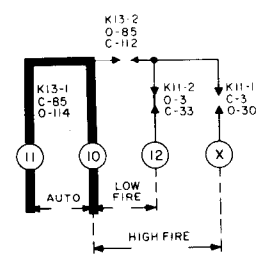
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 EXAMPLE: ↓ K1 (OPENED AT START)
 ↑ C-10 (CLOSES AT 10 SECONDS)
 ↓ O-120 (OPENS AT 120 SECONDS)
 2 DOTTED LINES INDICATE EXTERNAL CUSTOMER WIRING.
 3 S2 NOT GROUNDED ON TYPE 25CU6 MODEL 5065.

16 TIME: 120 SECONDS DIAL INDICATION: 0
 CONTACT K1 OPENS, TIMER MOTOR STOPS,
 TERMINAL M UNPOWERED - BLOWER STOPS
 K13-1 OPENS
 K13-2 CLOSES, MODULATOR GOES TO LOW FIRE
 K2, K3-1, K5-1, K7-1, K9-2 OPEN
 K3-2, K4, K5-2, K6, K7-2, K9-1, K12 CLOSE



CONTROL CIRCUIT SCHEMATIC
 TYPE 26CF6 MODEL 5022
 SCANNER TYPE 48PT2
 TYPE 25CU6 MODEL 5065
 SCANNER TYPE UV-1A or UV-2

CODE 17

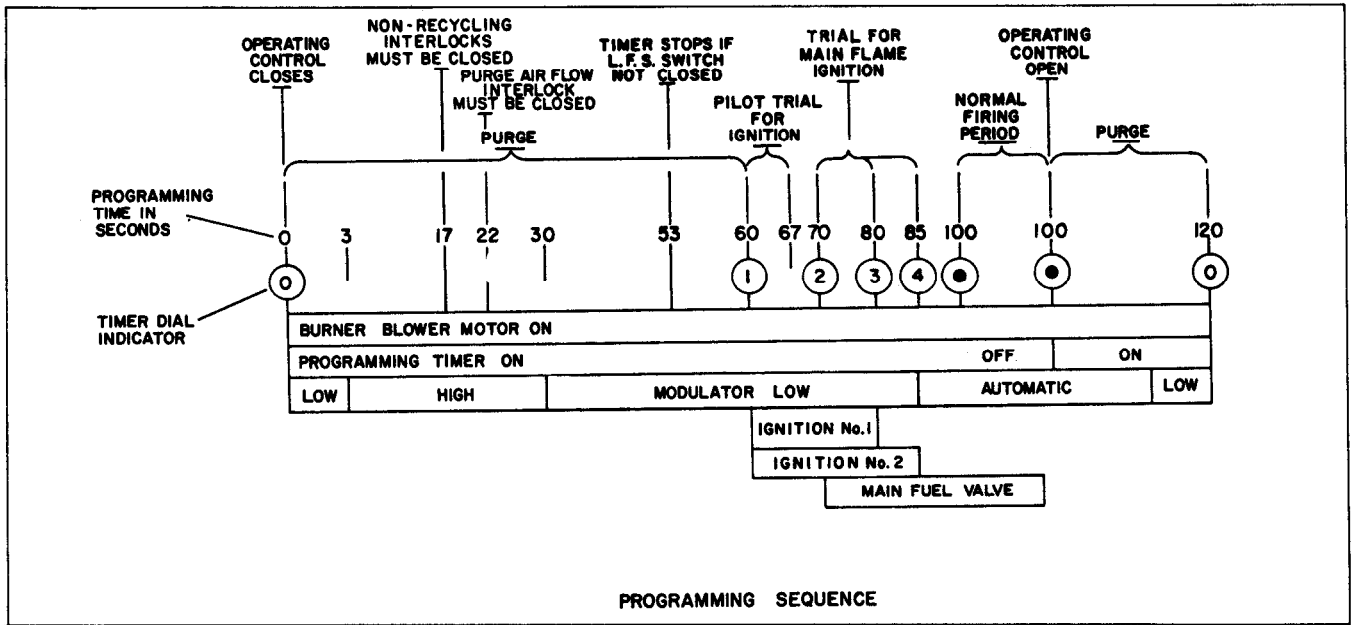


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 EXAMPLE: ↓ K1 (OPENED AT START)
 ↑ C-10 (CLOSES AT 10 SECONDS)
 ↓ O-120 (OPENS AT 120 SECONDS)
 2 DOTTED LINES INDICATE EXTERNAL CUSTOMER WIRING.
 3 S2 NOT GROUNDED ON TYPE 25CU6 MODEL 5065.

17 TIME: 100 SECONDS DIAL INDICATION: DOT
 MAIN FLAME FAILURE; RA AND RF FLAME RELAYS DE-ENERGIZED
 CONTACT RF-2 OPENS, FUEL VALVES ARE UNPOWERED
 RF-3, RA-3 CLOSE; LOCK OUT SWITCH HEATS AND TRIPS



CIRCUITS ENERGIZED
CIRCUITS PREVIOUSLY ENERGIZED



AUTOMATIC PRIMARY SAFETY CONTROL 55-1796 B

TYPE 26CF6 MODEL 5022 U.S. PATENT NO. 2,811,711; 3,651,327 SEE BULLETIN C-14

L1	120 VOLT SUPPLY (HOT)	M-D	LOW FIRE INTERLOCK	D-8	PURGE INTERLOCK	X	HIGH	MODULATOR (125 VA PILOT DUTY AT 120 VAC OR 2 AMP AT 30 VAC)
L2	120 VOLT SUPPLY (COMMON)	3-13	FUEL VALVE INTERLOCK	7	MAIN FUEL (250 VA PILOT DUTY)	12	LOW	
L1-13	LIMIT AND OPER. SWITCHES	M	BURNER MOTOR (250 VA PILOT DUTY OR 9.8 FLA 58.8 LRA)	A	ALARM (50 VA PILOT DUTY)	11	AUTO	
3-P	AIRFLOW INTERLOCKS			S1	← FLAME DETECTOR →	S2	10	

IGNITION CONNECTIONS COMBINED RATING: 500 VA TRANSFORMER AND 50 VA PILOT DUTY				
TRANS.	PILOT	JUMPER	FUEL	TRIAL - FOR - IGNITION PERIOD
5	5	—	OIL OR GAS	10 SEC. SUPERVISED
6	6	—	OIL ONLY	15 SEC. SUPERVISED
5	NONE	6 & 7	OIL ONLY	7 SEC. UNSUPERVISED

ALL RATINGS 120V 60 HZ EXCEPT AS NOTED — ALL WIRING MUST BE N.E.C. CLASS 1. — TOTAL CONNECTED LOADS NOT TO EXCEED 2000 VA.

AUTOMATIC PRIMARY SAFETY CONTROL 55-1796 B

TYPE 25CU6 MODEL 5065 U.S. PATENT NO. 3,283,154 SEE BULLETIN C-13

L1	120 VOLT SUPPLY (HOT)	M-D	LOW FIRE INTERLOCK	D-8	PURGE INTERLOCK	X	HIGH	MODULATOR (125 VA PILOT DUTY AT 120 VAC OR 2 AMP AT 30 VAC)
L2	120 VOLT SUPPLY (COMMON)	3-13	FUEL VALVE INTERLOCK	7	MAIN FUEL (250 VA PILOT DUTY)	12	LOW	
L1-13	LIMIT AND OPER. SWITCHES	M	BURNER MOTOR (250 VA PILOT DUTY OR 9.8 FLA 58.8 LRA)	A	ALARM (50 VA PILOT DUTY)	11	AUTO	
3-P	NON-RECYCLE INTERLOCKS			S1	← FLAME DETECTOR →	S2	10	

IGNITION CONNECTIONS COMBINED RATING: 500 VA TRANSFORMER AND 50 VA PILOT DUTY				
TRANS.	PILOT	JUMPER	FUEL	TRIAL - FOR - IGNITION PERIOD
5	5	—	OIL OR GAS	10 SEC. SUPERVISED
6	6	—	OIL ONLY	15 SEC. SUPERVISED
5	NONE	6 & 7	OIL ONLY	7 SEC. UNSUPERVISED

ALL RATINGS 120V 60 HZ EXCEPT AS NOTED — ALL WIRING MUST BE N.E.C. CLASS 1. — TOTAL CONNECTED LOADS NOT TO EXCEED 2000 VA.



ELECTRONICS CORPORATION OF AMERICA
FIREYE DIVISION

One Memorial Drive - Cambridge, Massachusetts 02142

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