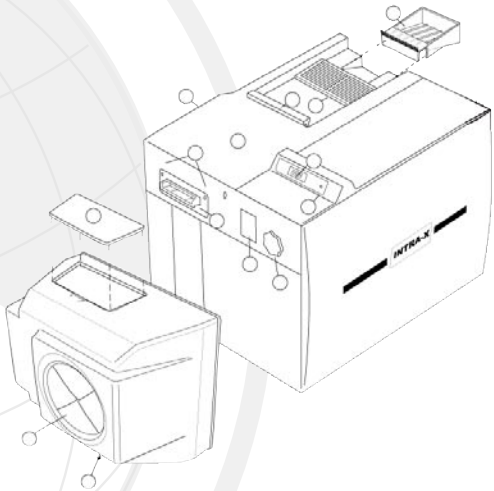
VELOPEX®

Automatic X-ray Film Processor

Intra - X MK5



FOR TRAINED TECHNICAL PERSONNEL

Technical manual

CAUTION:
This Document is for use by a qualified technical representative ONLY.
Any use by unqualified personnel will void the VELOPEX warranty.

VELOPEX® INTERNATIONAL

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NOTE: On completion of any servicing work ensure that electrical earth continuity is established and that all components are in place.

Issue 3 OM13 I/LIT3601M

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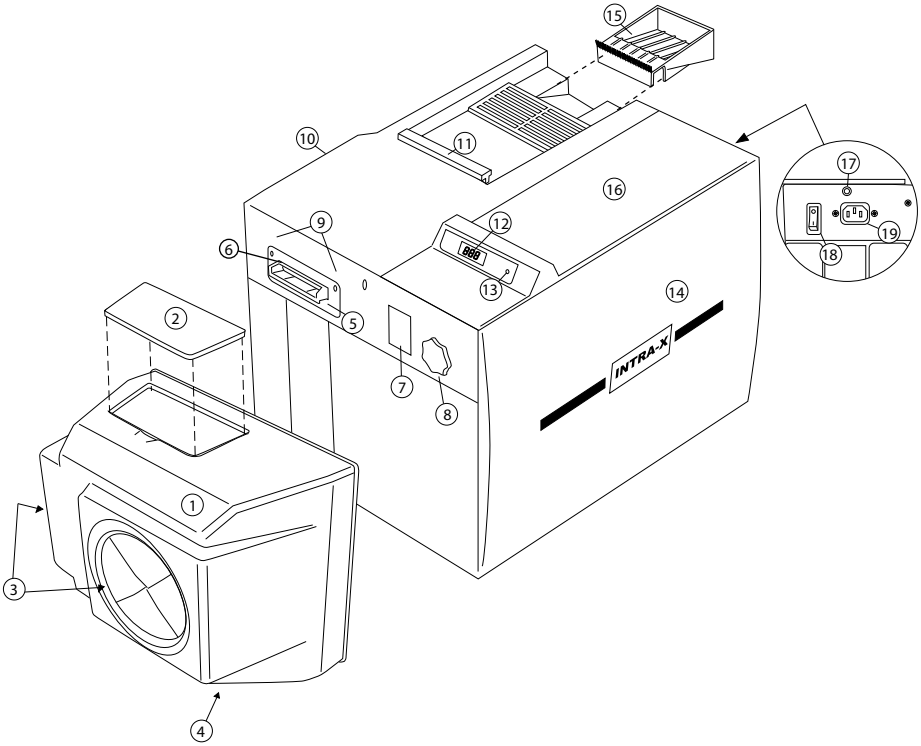
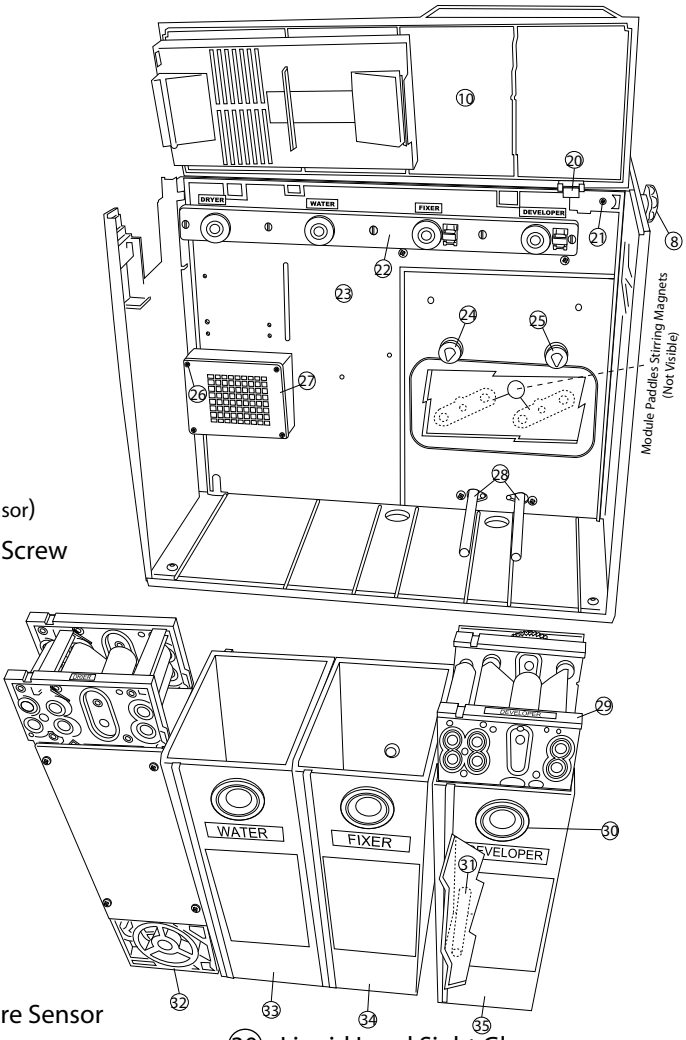
DIAGRAMS

External Components



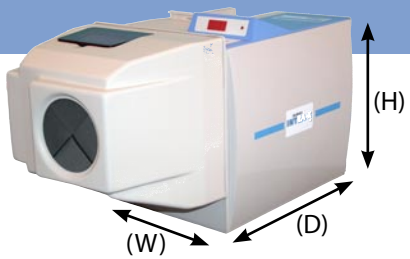
1. Day Light Loader
2. Loader Lens
3. Hand Entry Ports
4. Waste Removal Hatch
5. Film Entry Tray/Guide
6. Beak Sensor
7. Initiation Sensor
8. Loader Locking Nut
9. Loader Retaining Screw-holes
10. Machine Lid
11. ENDO Slide
12. Digital Display
13. NOT IN USE
14. Side Panel (Controls Cover)
15. Film Catcher
16. Control Panel
17. Control Panel Retaining Screw
18. Main Switch
19. Power Inlet Socket

Internal Features



- (8) Loader Securing Nut
- (10) Lid
- (20) Lid Magnet (for Lid Sensor)
- (21) Lid Sensor Retaining Screw
- (22) Gear Train Assy.
- (23) Motor Board
- (24) Fixer Temperature Sensor
- (25) Developer Temperature Sensor
- (26) Dryer Grille Retaining Screw
- (27) Dryer Grille
- (28) Chemical Heaters
- (29) Developer Module
- (30) Liquid Level Sight Glass
- (31) In-tank Heater Sheath
- (32) Dryer Module
- (33) Water Tank
- (34) Fixer Tank
- (35) Developer Tank

Specification



Width (W)	290mm / 11½"
Depth (D) Inc. Loader	435mm / 17" 635mm / 25"
Height (H)	315mm / 12½"
Weight: Empty Full Tanks	9.5Kg / 21lb 13.7Kg / 30lb
Tank Capacity	1.4litres / 2½Imp Pints each
Operating Temperatures: Developer Fixer	*Water- should not exceed 28^{0}C (82.4^{0}F)* 25^{0}C (77^{0}F) 30^{0}C (86^{0}F)
Electric Supply	100-120V, 200-240V, 50/60Hz
Warm-up Time	10 min. approx.
Film Feed Speed	470mm / 18½" per min.
Max. Film Width	65mm / 2½"
Processing time*: Dry Wet-Endodontic	4.5 min. approx. 2.5 min. approx.
Input Power	1000W
Environmental Conditions:	Indoor use Only
Environment Temperature	5^{0}C-26^{0}C (41^{0}F-78.8^{0}F)
Maximum Relative Humidity	80%

* in the unit's first few cycles, processing time can vary between four and five minutes. Then the process time will stabilise around four and a half minutes.

Pre Installation Instructions

- **Siting of the VELOPEX**

When using the machine in daylight or a darkroom, avoid sources of intense light. Do not mount the unit under a window, fluorescent light or flood lamp.

IMPORTANT NOTE: A well ventilated position is mandatory.

The ambient temperature must be below 26°C (78.8°F).

Prevent siting the machine above or near other electrical or mechanical equipment. Surfaces susceptible to water or chemical damage should be avoided, such as carpeted areas.

1. COUNTER
   a. Use a stable and level counter that will support a weight of at least 50 Kg. (100 lbs.).
   b. When the machine is filled with chemicals, make sure the stand does not rock or shake. NEVER move the machine with chemicals in the tanks.
2. ELECTRICAL SUPPLY
   a. See Spec. Table (page 4).
   b. The power source must be within 1m (3 feet) of the machine.It should be easily accessible for operation and maintenance.

- **Unpacking the VELOPEX**

NOTE: For unpacking and lifting the machine into position it is important to have assistance.

The machine comes in a single carton containing:

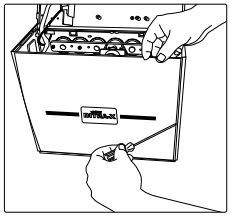
Machine, Operator's Manual, Film Catcher, Silicone Grease, Electrical Cord, Transport Modules Turning Tool, Cleaning Brush, Chemical Change Chart and a box of Cleaning Tablets (UK only).

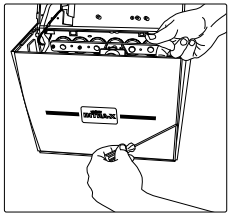
1. Familiarise yourself with the layout of the machine by referring to illustrations at the front of this manual. It is useful to refer to these illustrations as you progress through the manual.
2. Lift the machine from the carton and position on counter top. Remove outer and inner packaging. The transport modules are protected by internal packing pieces: these must be discarded.

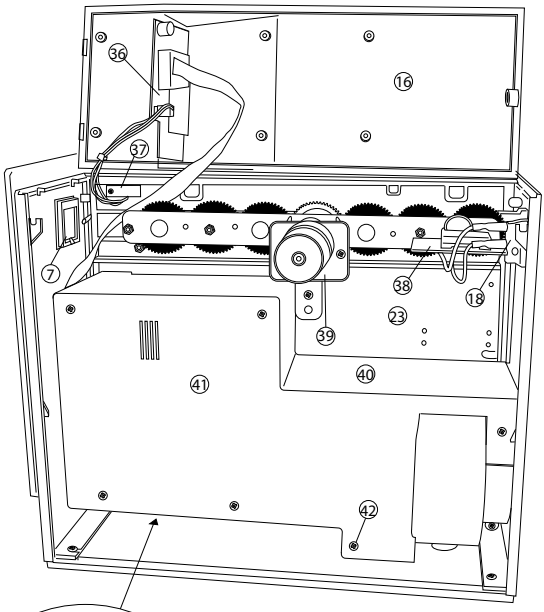
Internal Layout

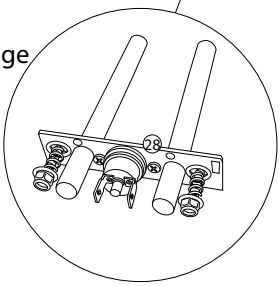
WARNING: X-ray radiation can be harmful to patient, technician and dentist. Inadequate lead shielding of the darkroom or film storage area will also cause fogging from exposure of films to stray x-ray radiation. Consult your local codes, Health Department or Dental Equipment Dealer for proper construction of darkroom or placement of film processing equipment in the vicinity of x-ray radiation sources.

NOTE: Always Switch off Mains Power and Remove Electricity Plug before beginning any work or inspection procedure.









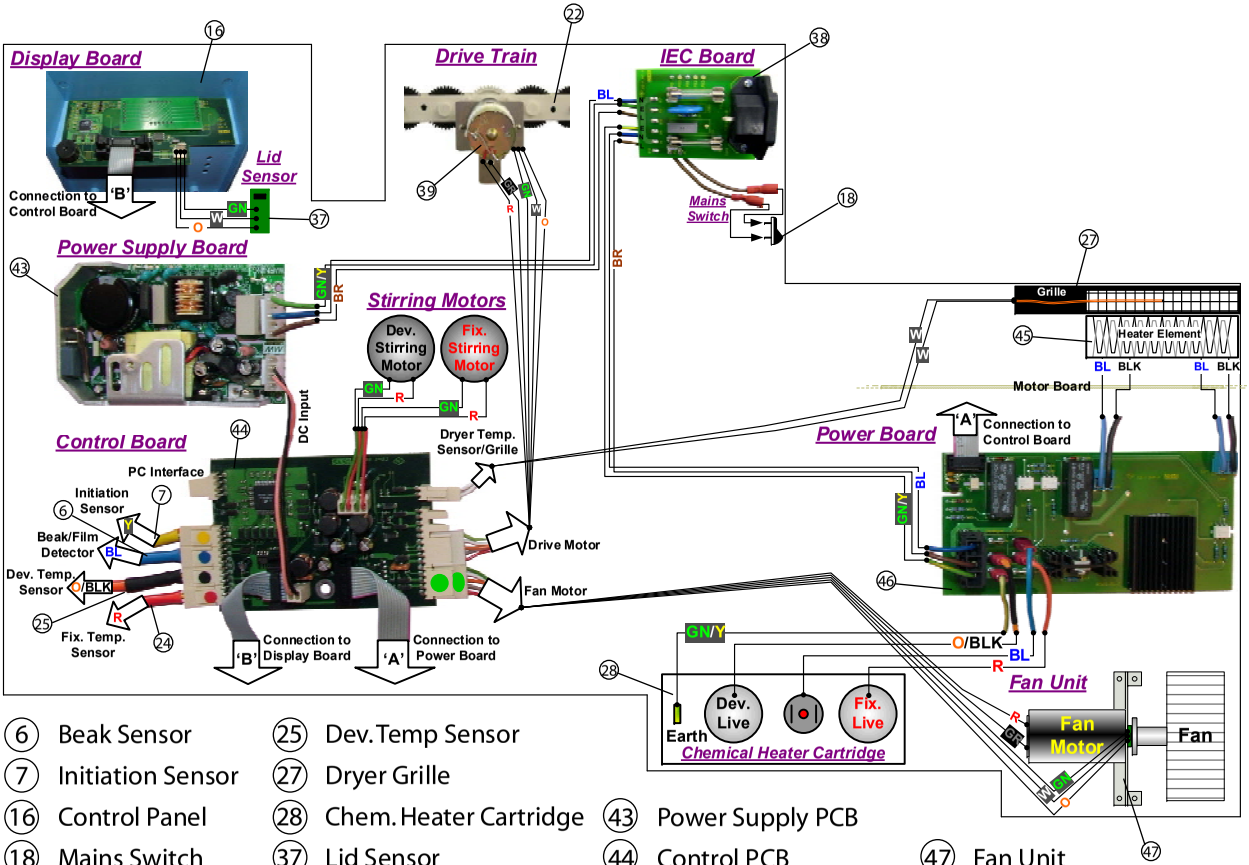
(7) Initiation Sensor
(16) Control Panel
(18) Mains Switch
(23) Motor Board
(28) Chemical Heater Cartridge
(36) Display PCB
(37) Lid Sensor
(38) IEC PCB
(39) Drive Motor
(40) Cassette
(41) Cassette Lid
(42) Cassette Lid Retaining Screw

Replacing Components

- **Access to Internal Components**
  1. To access internal workings of the machine unscrew control Panel retaining screw (item 17, page 2).
  2. The control panel may then be hinged upwards and lifted away if needed.
  3. The side panel may then be removed by releasing one side of the panel at a time and by pushing out the front and back to disengage the barbs (see diagrams on page 6).

- **Replacing Cassette**
  1. Remove Control Panel – Unscrew Retaining Screw.
  2. Remove Control's Side Panel.
  3. Remove Cassette Lid – Unscrew Seven retaining Screws.
  4. Unplug all External Components – Four Sensors (Coloured Sleeves), Drive Motor, IEC Wires, Chemical Heaters, and Display.
  5. Slide Power PCB out – Enough to Reach the Screw hidden underneath.
  6. Unscrew Four Cassette Retaining Screws and Remove Cassette.
  7. To Insert New Cassette Reverse Procedure.

- **Replacing Motor Board**
  1. Remove Control Panel – Unscrew Retaining Screw.
  2. Remove Control's Side Panel.
  3. Remove Cassette Lid – Unscrew Seven retaining Screws.
  4. Unplug all External Components – Beak Sensor, Initiation Sensor, Display and IEC Wires.
  5. Unscrew Eight Motor Boards Retaining Screws – Three on External Back Panel, Three on Bottom Base Panel, One on External Front Panel, and One on Internal Front Panel.
  6. Lift Motor Board Out.
  7. To Insert New Motor Board Reverse Procedure.



6	Beak Sensor	25	Dev.Temp Sensor	43	Power Supply PCB
7	Initiation Sensor	27	Dryer Grille	44	Control PCB
16	Control Panel	28	Chem. Heater Cartridge	45	Dryer Heater Element
18	Mains Switch	37	Lid Sensor	46	Power PCB
22	Gear Train Assy.	38	IEC PCB	47	Fan Unit
24	Fix.Temp. Sensor	39	Drive Motor		

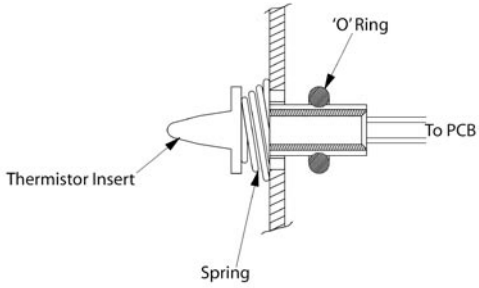
Replacing Components (Cont.)

- **Replacing Heater Element & Grille**
  1. Heater Element -
     a. Remove Control Panel – Unscrew Retaining Screw.
     b. Remove Control's Side Panel.
     c. Remove Cassette Lid – Unscrew Seven retaining Screws.
     d. Release Heater Element Wires (2 x Blue & 2 x Black) from Power PCB.
     e. Remove Lid, Side Panel, Tanks, and Dryer Module.
     f. Unscrew Four Grille Retaining Screws & Carefully Pull away the Grille.
     g. Slide the Heater Element Out.
     h. To Insert New Heater Element Reverse Procedure.
  2. Grille –
     a. Remove Control Panel – Unscrew Retaining Screw.
     b. Remove Control's Side Panel.
     c. Remove Cassette Lid – Unscrew Seven retaining Screws.
     d. Remove Dryer Temperature Sensor from Control PCB.
     e. Release the Crimps from the Molex Connector Shell.
     f. Remove Lid, Tanks Side Plate, and Dryer Module.
     g. Unscrew Four Grille Retaining Screws & Carefully Pull away the Grille.
     h. To Insert New Grille Reverse Procedure.

- **Replacing Sensors**
  1. Initiation Sensor –
     a. Remove Control Panel – Unscrew Retaining Screw.
     b. Remove Control's Side Panel.
     c. Remove Cassette Lid – Unscrew Seven retaining Screws.
     d. Unplug Sensor (Yellow) from Control PCB.
     e. Remove Sensor from Inner side of Front Panel (it is held by Double-Sided Tape).
     f. Locate New Sensor in same location – Strip off the Double-sided Tape on back of Sensor and Press against Panel.
     g. Plug into Control PCB.

Replacing Components (Cont.)

2. Beak Sensor –
   a. Remove Control Panel – Unscrew Retaining Screw.
   b. Remove Control's Side Panel.
   c. Remove Cassette Lid – Unscrew Seven retaining Screws.
   d. Unplug Sensor (Blue) from Control PCB.
   e. Unscrew Retaining Screw on External Side of Front Panel.
   f. Remove Bottom Film Entry Guide, then Remove Top Beak.
   g. To Insert New Beak Reverse Procedure.
3. Chemical Temp. Sensor/s –
   a. Remove Control Panel – Unscrew Retaining Screw.
   b. Remove Control's Side Panel.
   c. Remove Cassette Lid – Unscrew Seven retaining Screws.
   d. Unplug Temp. Sensor from Control PCB.
   e. Unscrew Four Cassette Retaining Screws.
   f. Shift Cassette Back Away from the Motor Board.
   g. Slide 'O' Ring off the Sensor.
   h. Pull Sensor Out of Motor Board Through the Hole.
   i. To Insert New Temp. Sensor Reverse Procedure.



- **Replacing PCBs**
  1. **DC Power Supply** –
     a. Remove Control Panel – Unscrew Retaining Screw.
     b. Remove Control's Side Panel.
     c. Remove Cassette Lid – Unscrew Seven retaining Screws.
     d. Unplug IEC Wire and DC Input Wire.

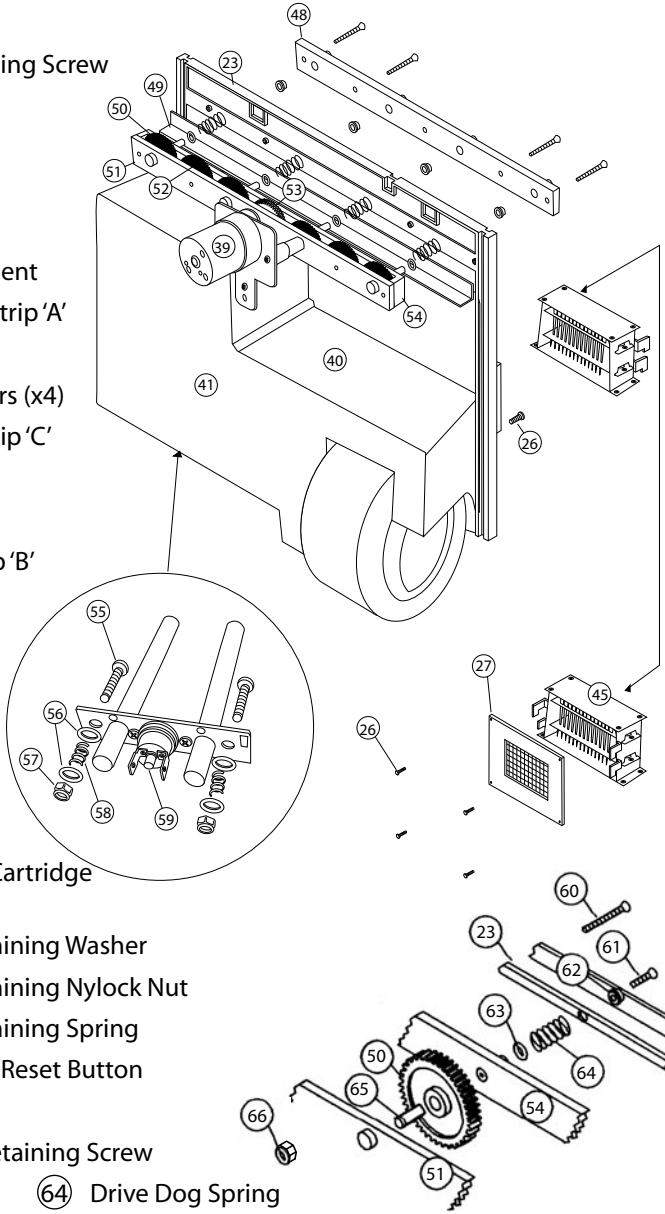
Replacing Components (Cont.)

e. Unscrew Four Retaining Screws and Pillars/Feet.
f. To Insert New DC Power Supply PCB, Reverse Procedure.

2. **Control** –
   a. Remove Control Panel – Unscrew Retaining Screw.
   b. Remove Control's Side Panel.
   c. Remove Cassette Lid – Unscrew Seven retaining Screws.
   d. Unplug Four Sensors, Display, DC Input, Stirring Motors, Power Board, Fan Motor, Drive Motor, and Dryer Temp. Sensor.
   e. Unscrew Nylon Retaining Screw and Remove PCB.
   f. To Insert New Control PCB, Reverse Procedure.
3. **Power** –
   a. Remove Control Panel – Unscrew Retaining Screw.
   b. Remove Control's Side Panel.
   c. Remove Cassette Lid – Unscrew Seven retaining Screws.
   d. Unplug Chemical Heaters, IEC, Control, and Unscrew Dryer Heater Element Connections.
   e. Slide Power PCB Out.
   f. To Insert New Power PCB, Reverse Procedure.
4. **IEC** –
   a. Remove Control Panel – Unscrew Retaining Screw.
   b. Remove Control's Side Panel.
   c. Remove Cassette Lid – Unscrew Seven retaining Screws.
   d. Unplug IEC Wires from DC Power Supply & Power PCBs.
   e. Unplug Wires from Switch.
   f. Unscrew Two Retaining Screws.
   g. Remove IEC PCB.
   h. To Insert New IEC PCB, Reverse Procedure.

- **Replacing Heater Cartridge**
  1. Remove Control Panel – Unscrew Retaining Screw.
  2. Remove Control's Side Panel.
  3. Remove Cassette Lid – Unscrew Seven retaining Screws.
  4. Unplug Chemical Heater Wires from Power PCB.

Motor Board and Gear Train Assembly



(23) Motor Board
(26) Dryer Grille Retaining Screw
(27) Dryer Grille
(39) Drive Motor
(40) Cassette
(41) Cassette Lid
(45) Dryer Heater Element
(48) Drive Dog Cover Strip 'A'
(49) Support Bar
(50) Module Drive Gears (x4)
(51) Motor Support Strip 'C'
(52) Idler Gears (x2)
(53) Main Drive Gear
(54) Gear Support Strip 'B'

(55) Chemical Heater Cartridge Retaining Screw
(56) Chem. Heater Retaining Washer
(57) Chem. Heater Retaining Nylock Nut
(58) Chem. Heater Retaining Spring
(59) Chem. Heater Trip Reset Button
(60) Gear Strip Screw
(61) Drive Dog Strip Retaining Screw
(62) Drive Dog
(63) Thrust Washer
(64) Drive Dog Spring
(65) Drive Dog Shaft
(66) Clamping Nut

Replacing Components (Cont.)

5. Unscrew Both Retaining Screws and springs on Heater Cartridge.
6. Pull Cartridge Out.
7. To Insert New Cartridge, Reverse Procedure.

- **Replacing Drive Mechanism**
  1. Drive Motor –
     a. Remove Control Panel – Unscrew Retaining Screw.
     b. Remove Control's Side Panel.
     c. Remove Cassette Lid – Unscrew Seven retaining Screws.
     d. Unplug Drive Motor from Control PCB.
     e. Unscrew Two Retaining Screws on Motor.
     f. Remove Motor & Unscrew Third Retaining Screw from Stud/Foot.
     g. To Insert New Drive Motor Reverse Procedure.
  2. Gear Train –
     a. Remove Control Panel – Unscrew Retaining Screw.
     b. Remove Control's Side Panel.
     c. Follow Instructions:
        i. The assembly consists of three strips (items 51, 54 and 48) and the motor board (item 23) which is clamped between gear strips 54 and 48. It is essential to maintain this assembly order. To replace the main drive gear (item 53) on the motor shaft, do not dismantle the gear strip assembly. Simply remove the motor (item 39) by referring to Drive Motor Replacing section above. Withdraw the main drive gear upwards from the gear strip assembly and replace with the new gear. Finally refer to Drive Motor Replacing section and replace the motor. To replace the other gears (items 50 and item 53) follow the procedure as for replacing the drive dogs:
  3. Drive Dogs –
     a. Remove Control Panel – Unscrew Retaining Screw.
     b. Remove Control's Side Panel.
     c. Follow Instructions:
        i. Remove the four clamping nuts (item 66).
        ii. Remove the motor support strip 'C' (item 51) and the gear support

Replacing Components (Cont.)

strip 'B' (item 54 along with the drive dog shaft (item 65).

iii. Remove the gears (item 53 and 50), the drive dog springs (item 64) and the thrust washers (item 63).

iv. Now dismantle the assembly for cleaning. Be careful not to lose any of the components.

v. Wipe away the old grease from the springs, thrust washers and the drive dog shafts.

vi. Assemble the module drive gears (item 50) onto the drive dog shafts (item 65).

vii. Feed the shafts through the gear support strip 'B' (item 54) and apply a little silicone grease to the shafts before fitting the thrust washers (item 63) and the drive dog springs (item 64). The grease will hold the springs in place during re-assembly.

viii. Fit the module drive gears (item 50) onto their spigots on the gear support strip 'B' (item 54) and assemble the motor support strip 'C' (item 51) into place.

ix. Remove the old drive dogs (item 62) from the motor side of the motor board (item 23) and wipe clean the holes in the drive dog cover strip 'A' (item 48).

d. Insert new Drive Dogs; smear the outside with silicone grease.

e. Offer up the above assembly to its position on the motor board (item 23) taking care that the motor mounting holes are at the bottom of the motor support strip 'C' (item 51).

f. Starting at one end, align and centre the drive dog shaft (item 65) into the drive dog (item 62).

g. Hold the assembly in position and fit the end clamping nut (item 66) loosely to its gear strip assembly screw (item 60).

h. Work along the other three drive dog shafts (item 65) aligning and entering them into their drive dogs (item 62) and fitting the clamping nut (item 61) loosely to each gear strip assembly screw (item 60), as you go.

i. Finally tighten all four clamping nuts (item 66). Check that all the gears

Replacing Components (Cont.)

turn freely and the drive dogs return freely to their outer position after being compressed.

j. Slip the main drive gear (item 53) into place in the centre of the gear train and refit the motor as described in Motor Mounting section.

- **Replacing Fan**
  1. Remove Control Panel – Unscrew Retaining Screw.
  2. Remove Control's Side Panel.
  3. Remove Cassette Lid – Unscrew Seven retaining Screws.
  4. Unplug Fan from Control PCB.
  5. Unscrew Two (or Four in an earlier Version) Retaining Screws.
  6. Remove Fan Unit.
  7. To Insert New Fan Reverse Procedure – ***Make Sure to Align the Fan's Shaft with the Centre of the Round Slot in the cassette***.

- **Replacing Lid Sensor**
  1. Remove Control Panel – Unscrew Retaining Screw.
  2. Remove Control's Side Panel.
  3. Unplug Lid Sensor from Display.
  4. Unscrew Lid Sensor Retaining Screw.
  5. Remove Lid Sensor.
  6. To Insert New Sensor Reverse Procedure.

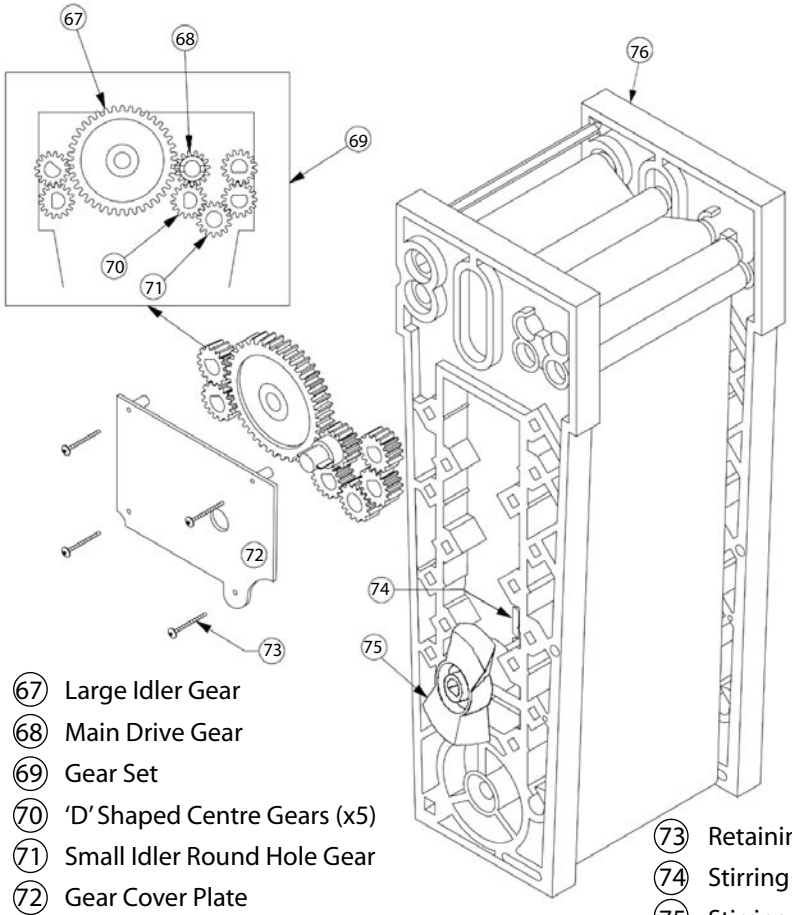
- **Replacing Display**
  1. Remove Control Panel – Unscrew Retaining Screw.
  2. Unplug Control Cable and Lid Sensor Wire from Display.
  3. Pull Display away from Control Panel, Held by Double-Sided Tape.
  4. To Insert New Display – Remove Coating from Double-Sided Tape on New Display PCB.
  5. Stick Display PCB onto Control Panel – Make Sure the Digits are Central in Label Aperture.
  6. Reconnect Wires – ***Make Sure Lid Sensor Wire is wrapped around Control Cable and Positioned Away from Drive Gear Train***.

Module Gear

- **Replacing Module Gear**

NOTE: *Only Gears and Tension Springs are replaceable on the Transport Module. For any other fault, replace complete Module.*

1. Remove retaining screws on gear cover plate (item 72).
2. The gear cover plate can now be gently eased off; remove old gears, and replace with new gears to their correct positions.
3. To ensure smooth running, ALWAYS replace complete gear set - not individual gears.
4. Replace gear cover plate and retaining screws.



67 Large Idler Gear
68 Main Drive Gear
69 Gear Set
70 'D' Shaped Centre Gears (x5)
71 Small Idler Round Hole Gear
72 Gear Cover Plate
73 Retaining Screw (x4)
74 Stirring Paddle
75 Stirring Paddle Rotor
76 Module

Replacing Components (Cont.)

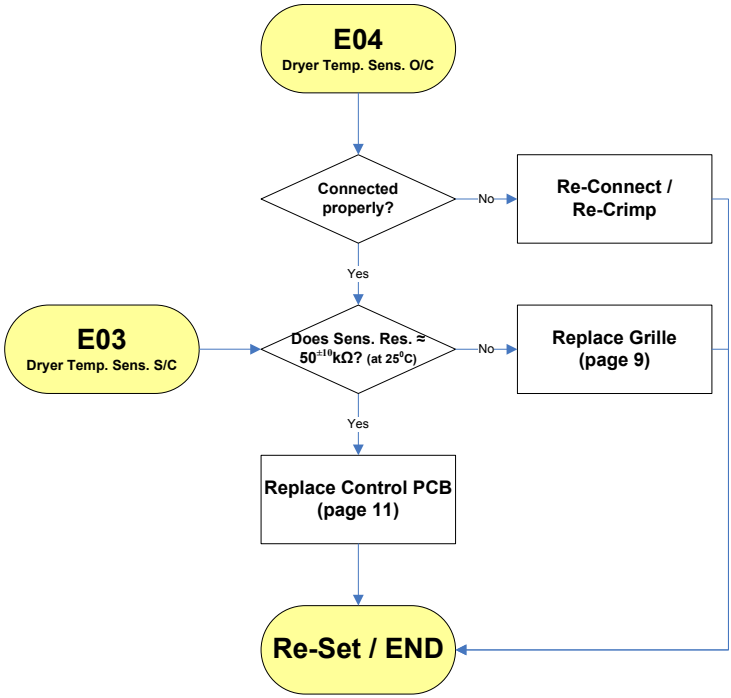
- **Re-Setting Machine**
  1. Make Sure that the Fault is Fixed Before Re-Setting the Machine.
  2. Disconnect Mains Lead.
  3. Remove Control Panel – Unscrew Retaining Screw.
  4. Unplug Control Cable from Display.
  5. Close Control Panel.
  6. Reconnect Machine's Main Cord.
  7. Switch Machine On – ***Caution: Live Electric Elements are Reachable.***
  8. Wait for a Minimum of Two Minutes.
  9. Switch Machine off.
  10. Unplug the Main Cord.
  11. Remove Control Panel.
  12. Re-Connect Control Cable to display.
  13. Close Control Panel and Screw with Tamper Resistant Screw.
  14. Re-Connect the Main Cord.
  15. Switch Machine on.
  16. Run through an Initiation Cycle and at Least One More Normal Cycle to test the Functionality of the Machine.

- **Re-Programming**
  1. Control Software –
     a. Remove Control Panel – Unscrew Retaining Screw.
     b. Unplug Control Cable and Lid Sensor Wire from Display.
     c. Plug Control Cable into Key Fob Board – Middle Socket.
     d. Switch M/C on – LED will flash for a Part of a Sec.
     e. Press Button on Key Fob – LED will Flash for 30 Sec. Approx.
     f. When Light Goes Out, Switch M/C off.
     g. Re-Connect Control Cable to Display – Make Sure that the Clips "Click" on Connection.
     h. Locate Control Panel and Secure with Tamper Proof Screw.
  2. Display Software –

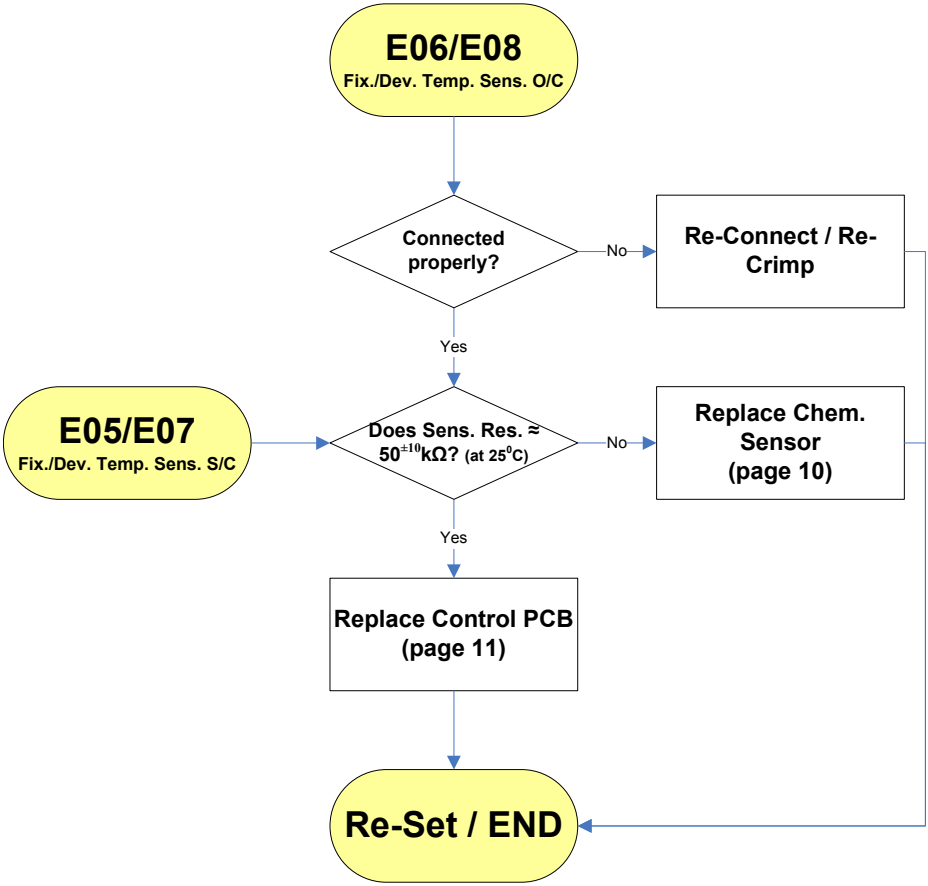
Errors - Cause and Action

a. Remove Control Panel – Unscrew Retaining Screw.
b. Unplug Control Cable and Lid Sensor Wire from Display.
c. Plug Control Cable into Key Fob Board – Top Smaller Socket.
d. Plug Loose Grey Cable into the Middle Socket on Key Fob Board.
e. Plug the Other End of the Cable into the Display Board.
f. Switch M/C on – LED will flash for a Part of a Sec.
g. Press Button on Key Fob – LED will Flash for 20 Sec. Approx.
h. When Light Goes Out, Switch M/C off.
i. Re-Connect Control Cable to Display – Make Sure that the Clips "Click" on Connection.
j. Locate Control Panel and Secure with Tamper Proof Screw.

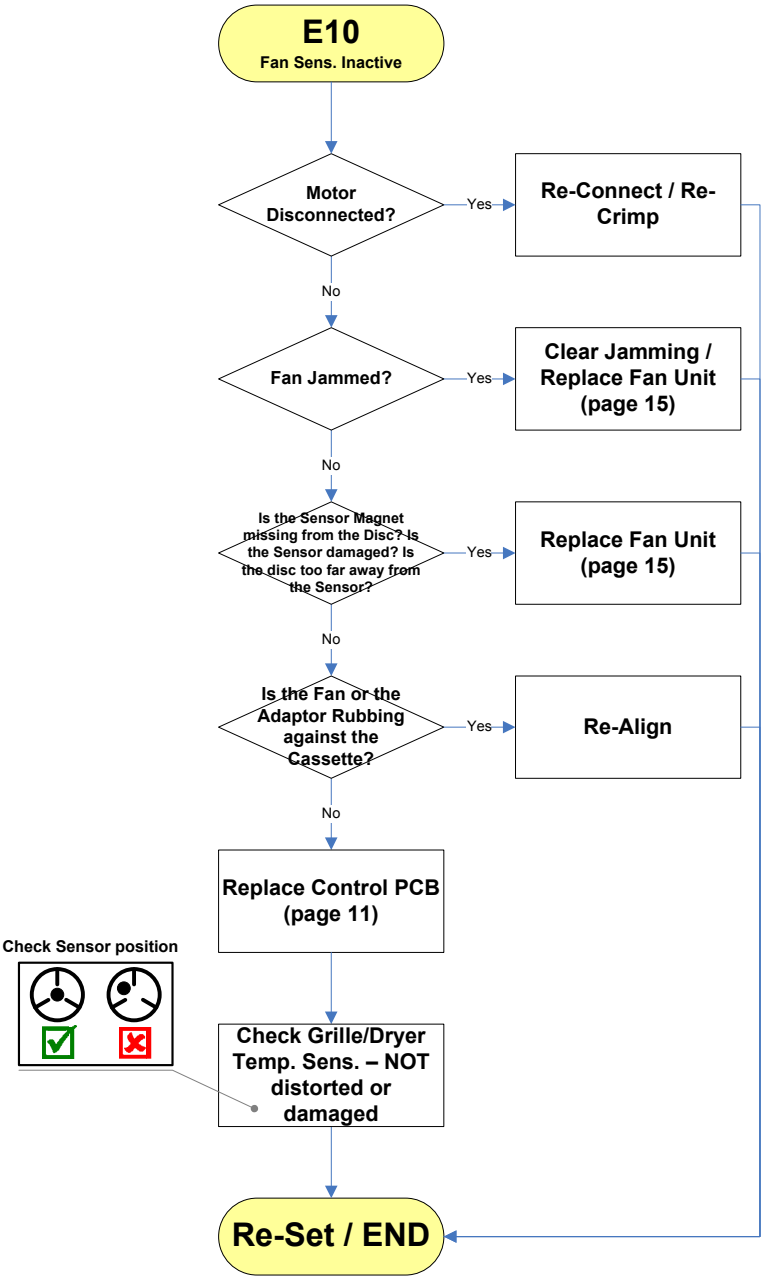
- **Error Codes – Cause and Action**



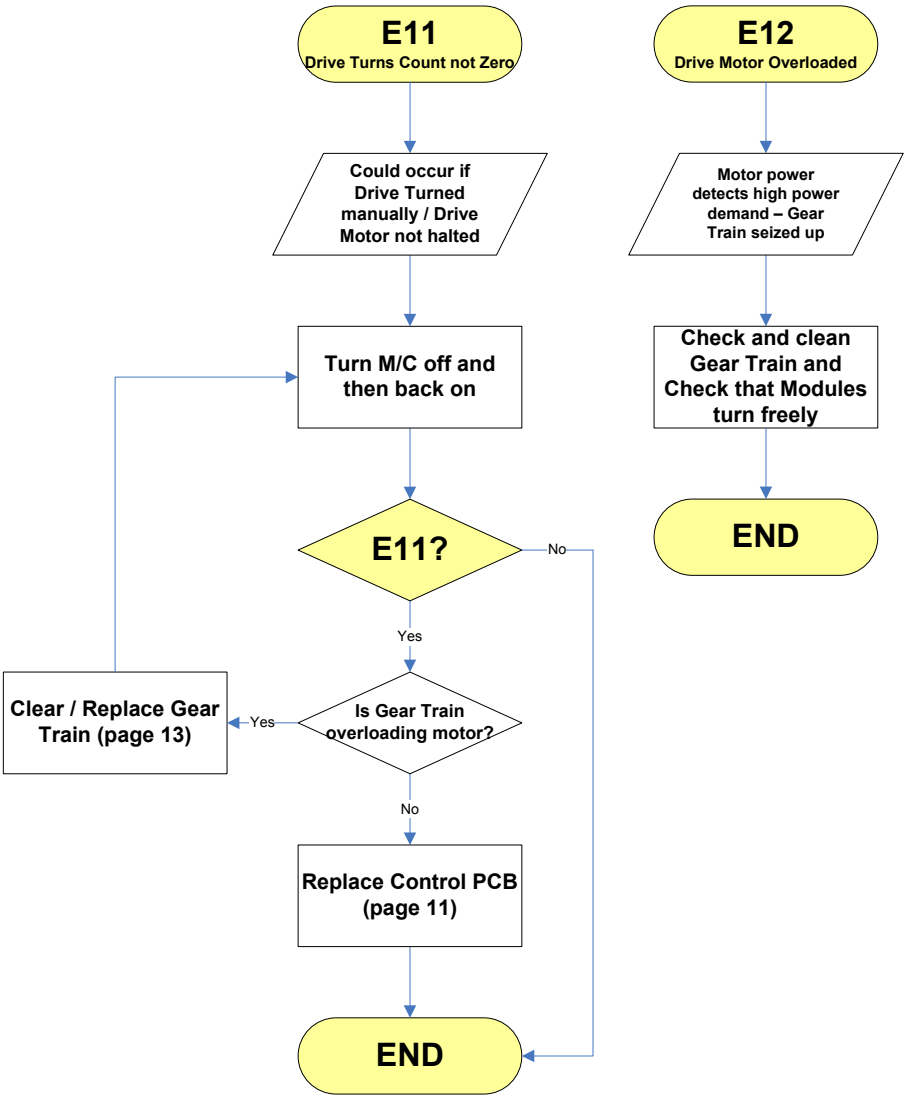
Errors - Cause and Action (Cont.)



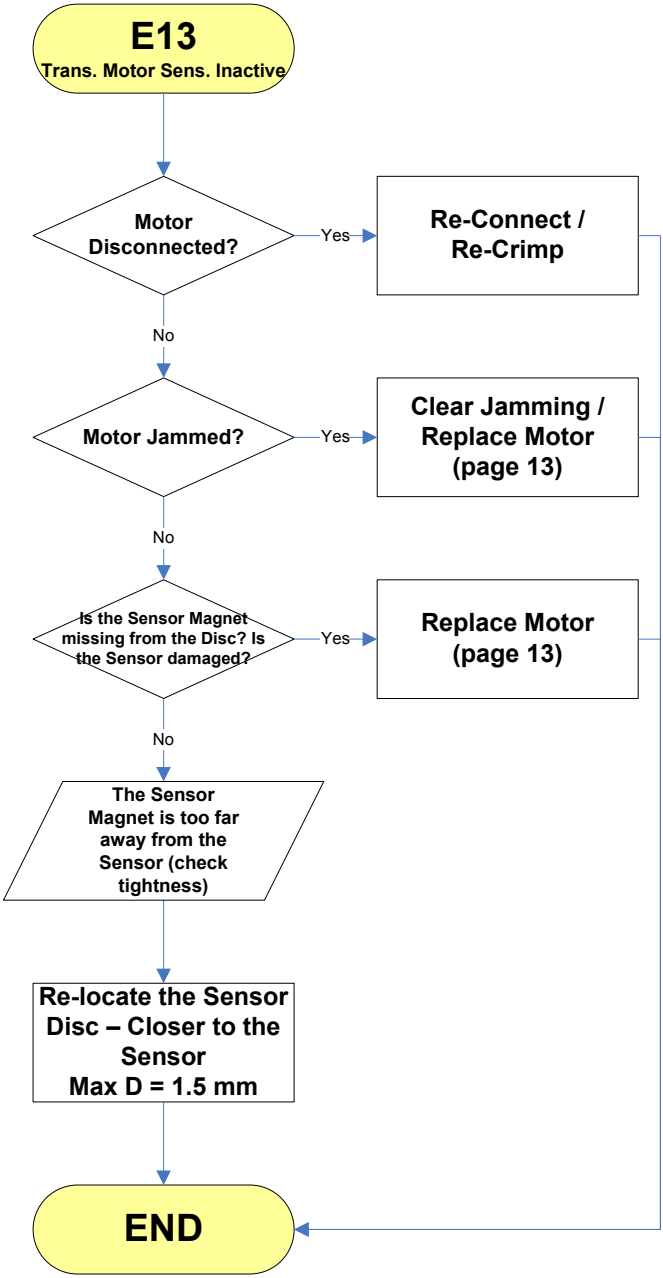
Errors - Cause and Action (Cont.)



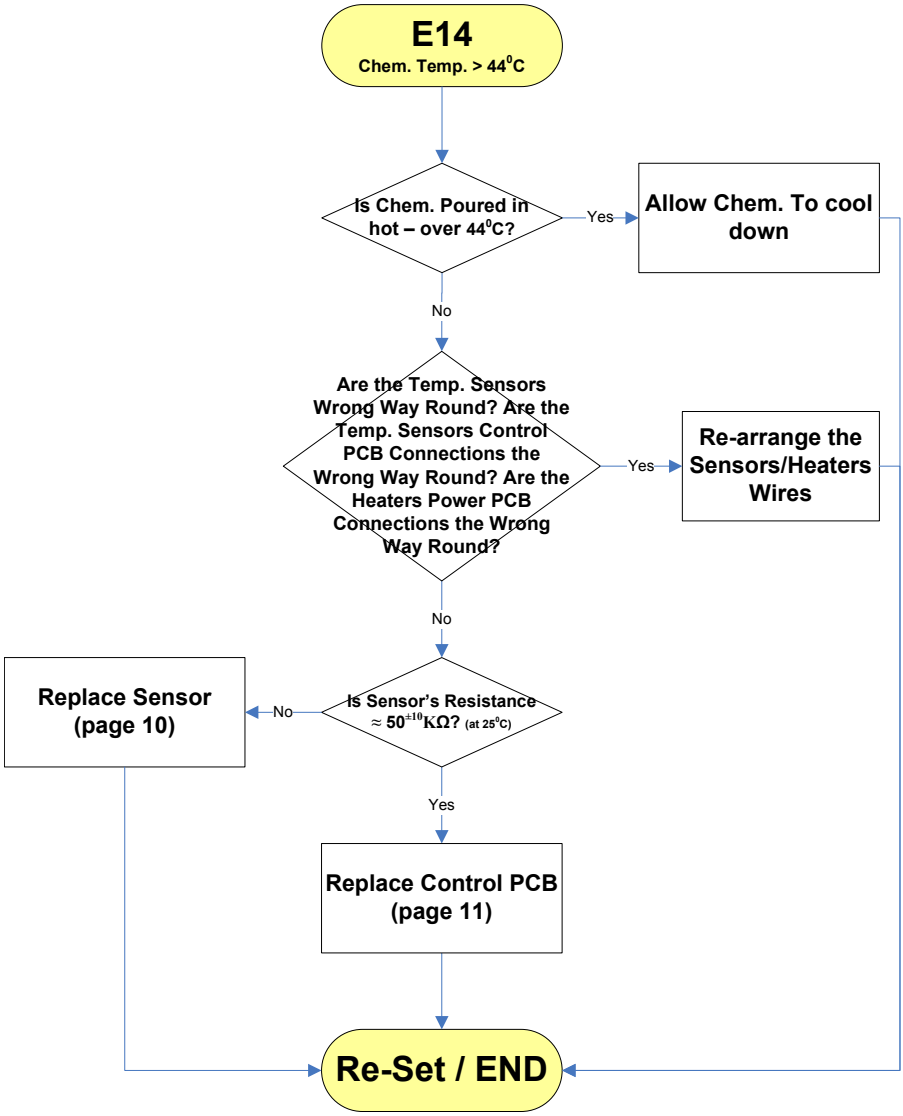
Errors - Cause and Action (Cont.)



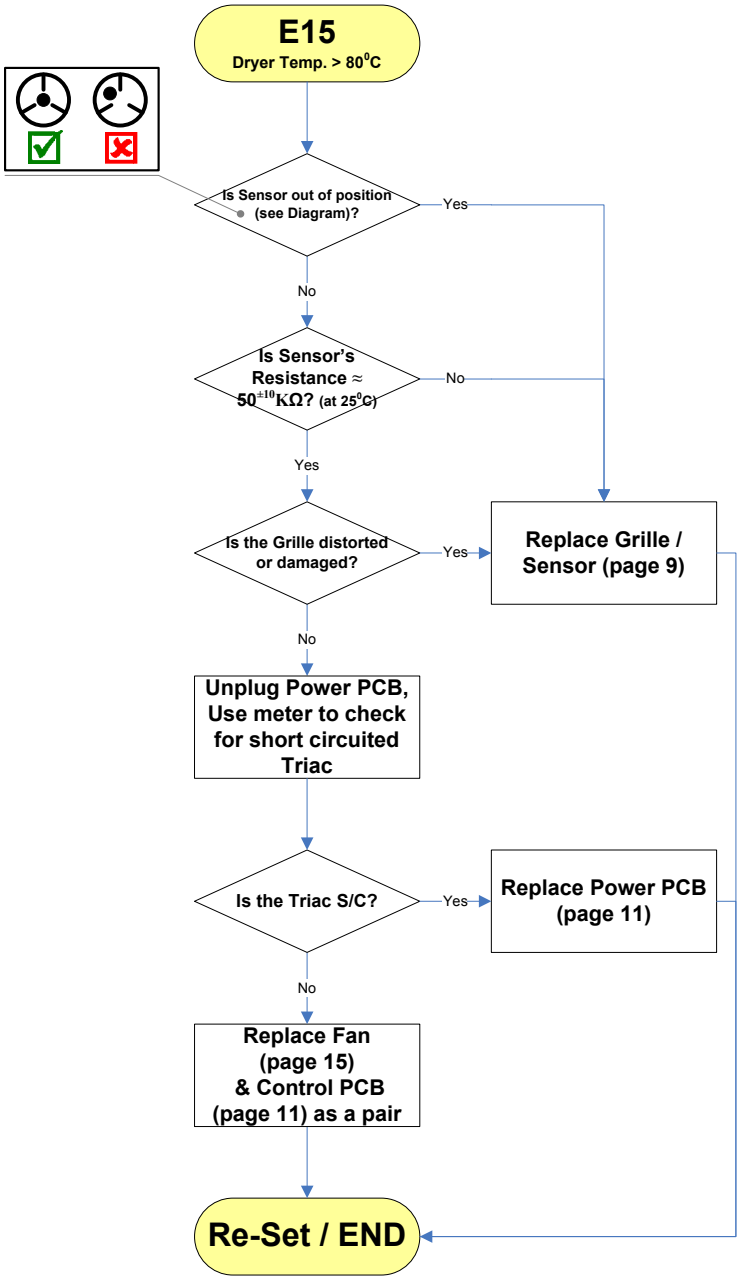
Errors - Cause and Action (Cont.)



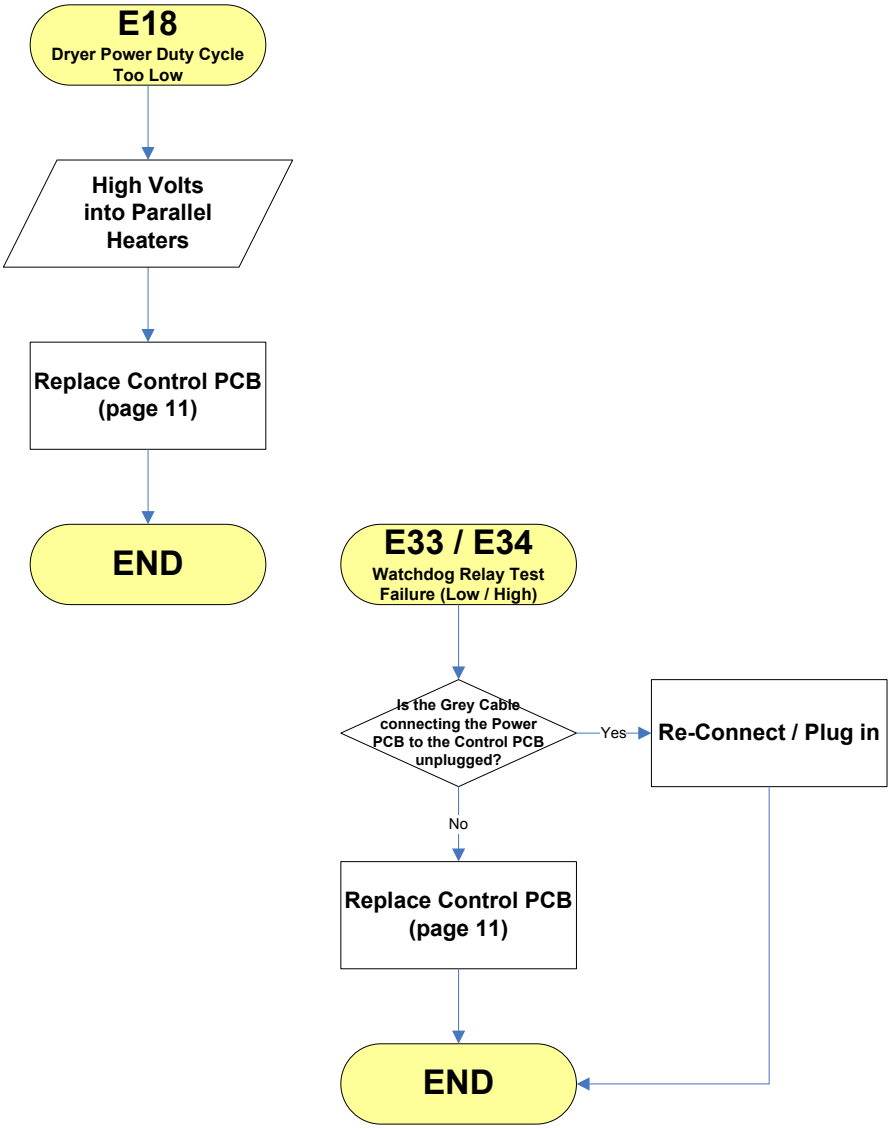
Errors - Cause and Action (Cont.)



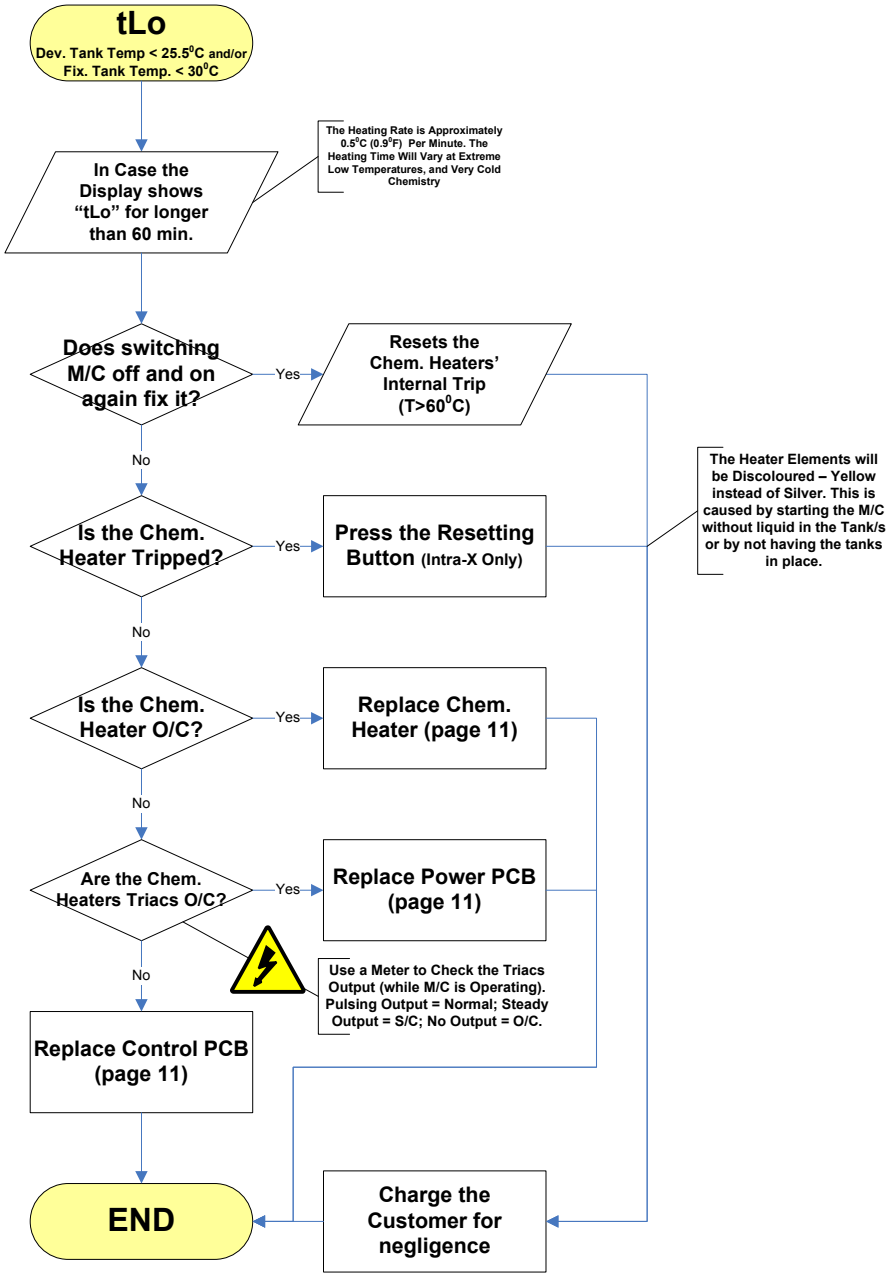
Errors - Cause and Action (Cont.)



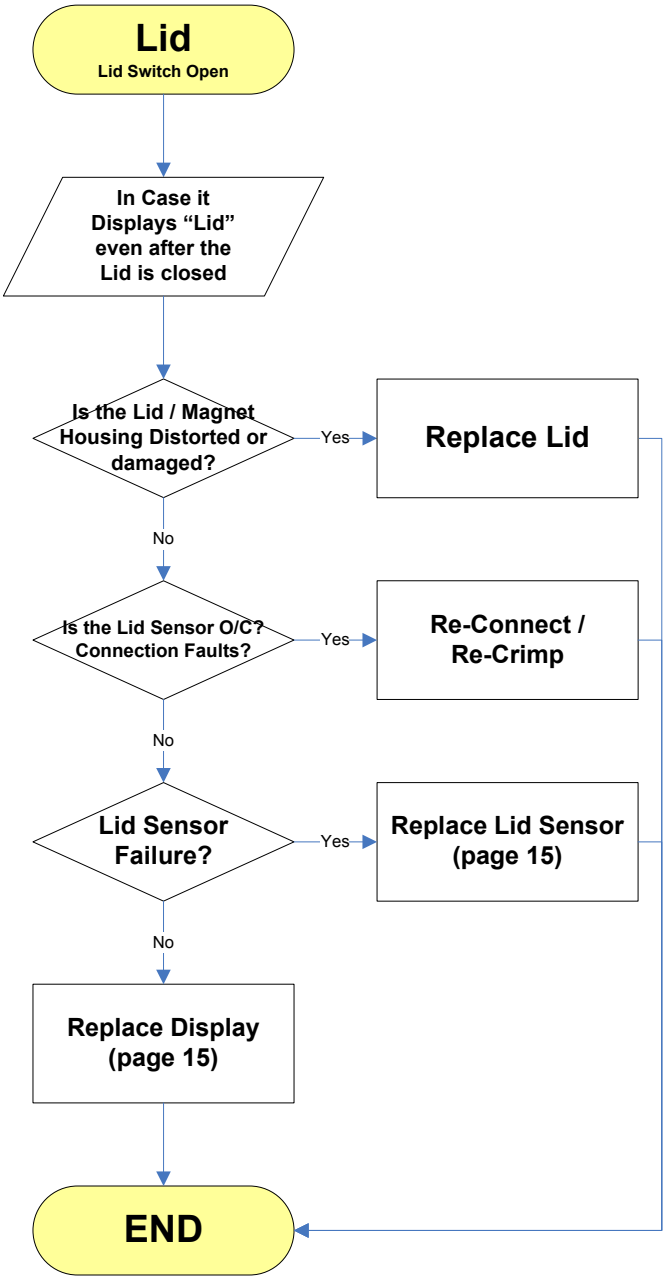
Errors - Cause and Action (Cont.)



Errors - Cause and Action (Cont.)



Errors - Cause and Action (Cont.)



Component Part Numbers

Balloon Number	Part Description	Part Cat. Number
1	Day Light Loader	I/MAC6100F
3	Hand Entry Ports / Iris Glove Assy.	I/ASS0010F
6	Beak Sensor	I/ASS7208F
7	Initiation Sensor	I/ELC7200F
8	Loader Securing Nut	I/FIT2035F
10	Machine Lid	I/ASS2017F
11	ENDO Slide (Blue Label)	I/MDG2055F
12	Side Panel	I/MDG2061F
13	Film Catcher (with Static Strip)	I/MDG2060F
16	**Control Panel** (only supplied complete):	I/ASS2059F
36	Display PCB	
17	Control Panel Retaining Screw (T25 M5x10)	I/FIX5002F
18	Main Switch	I/ELC7201F
22	**Gear Train Assy.** (only supplied complete):	I/ASS5206F
50	Module Drive Gears (x4 - Black 'D')	
51	Idler Gears (x2 - Black 'O')	
52	Main Drive Gear (White 'D')	
23	Motor Board	I/MDG2016F
24	Fixer Temperature Sensor	I/ASS7202F
25	Developer Temperature Sensor	I/ASS7203F
27	Dryer Grille/Temperature Sensor	I/ELC7204F
29	Developer Module	I/MOD0080F
32	Dryer Module	I/MOD0083F
33	Water Tank	I/MOD2179F
34	Fixer Tank	I/MOD2177F
35	Developer Tank	I/MOD2176F
37	Lid Sensor	I/ELC7205F
38	IEC PCB	I/ELC7206F
39	Drive Motor	I/ELC7207F
40	Cassette	I/ELC7213F

Component Part Numbers (cont.)

Balloon Number	Part Description	Part Cat. Number
41	Cassette Lid	I/ELC7214F
43	Power Supply PCB	I/ELC7211F
44	Control PCB	I/ELC7209F
45	Dryer Heater Element	I/ELC2700F
46	Power PCB	I/ELC7210F
47	Fan Unit	I/ELC7212F
48	Drive Dog Cover Strip 'A'	I/MDG2135F
51	Motor Support Strip 'C'	I/MDG2137F
54	Gear Support Strip 'B'	I/MDG2136F
28	**Chemical Heater Cartridge** (only supplied complete):	I/ELC2098F
55	Chemical Heater Cartridge Retaining Screw	
56	Chem. Heater Retaining Washer	
57	Chem. Heater Retaining Nylock Nut	
58	Chem. Heater Retaining Spring	
59	Chem. Heater Trip Reset Button	
	Drive Dog Kit (only supplied complete):	I/ASS5205F
62	Drive Dog	
63	Thrust Washer	
64	Drive Dog Spring	
65	Drive Dog Shaft	
69	**Gear Set** (only supplied complete):	I/MOD0100F
67	Large Idler Gear	
68	Main Drive Gear	
70	'D' Shaped Centre Gears (x5)	
71	Small Idler Round Hole Gear	
72	Gear Cover Plate	
73	Retaining Screw (x4)	
76	Fixer Module	I/MOD0081F
--	Water Module	I/MOD0082F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