GT Series Main Boiler Control Components Part Numbers



	S3NA Panel Main Components	
Item	Decription	DDT Part #
1	Safety Hi Limit (MR) 120°C [248°F]	9536 5605
2	Breaker 10A	9534 0286
3	Eluminated ON/OFF Main switch	9532 5027
4	Operating Limit 40-100°C [104-212°F]	9536 5604
5	2nd Stage Limit 40-100°C [104-212°F]	9536 5604
6	Man/Auto/STB switch	9532 5362
7	Aux switch (non safety)	9532 5050

S2NA =	Used on GT120-220 Series boilers only - see GT 120-220 parts section
S3NA =	Used on GT330-430-530 Series boiler only





: 	ING DIAGRAM)												
ontroller External control sensor wiring										ng			
26	27	28	29	30	31	32	33	34	35	36	37	38	
		•											•



11	٩G	G C	DIA	٩G	iR.		A)					
ontroller External control sensor wiring]		
26	27	28	29	30	31	32	33	34	35	36	37	38
	•					•						

ATTENTION - WARNING 🖄

FAILURE TO FOLLOWING THIS WIRING DIAGRAM MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY INCLUDING DEATH.

Wiring must be in strict compliance with CSA C22.2 and NEC/NFPA 70.

All wiring shown supplied and wired by others.

Optional 2nd stage relay supplied by others or ordered loose, relay can be mounted in panel or directly on burner.

This equipment must be earth bonded or grounded.

All wiring (field or replacement) must be min 18AWG type CSA TEW/ UL 1015 rated 105°C or an approved equivalent.

All wiring and panels must be shielded from spray or ingestion of water.

Any portion of the control which has been subject to spray or ingestion of water, the entire control must be replaced.

It is the responsibility of the installer/owner to verify the controls are functioning correctly and are adjusted correctly.

Suitable wire protection and strain relief's are required (upstream & downstream) of the control panel.

Line voltage wiring and low voltage sensor wiring must use separate wire

LABEL ALL WIRES PRIOR TO DISCONNECTING THEM FOR SERVICE.



е	e Dietrich factory)												
ar® trol Connections				[Tekmar® DBC-001 & 002 Sensor Connections								
26	27	28	29	30	31	32	33	34	35	36	37	38	
	I							I					

All wiring (field or replacement) must be min 18AWG type CSA TEW/ UL 1015 rated 105°C or an approved

Any portion of the control which has been subject to spray or ingestion of water, the entire control must be

It is the responsibility of the installer/owner to verify the controls are functioning correctly and are adjusted



2-	-De Dietrich factory)												
ar® trol Connections				ſ	Tekmar® DBC-001 & 002 Sensor Connections								
26	27	28	29	30	31	32	33	34	35	36	37	38	
	•	•	•			•							

FAILURE TO FOLLOWING THESE PROCEDURES OR WARNING COULD RESULT IN

PERSONAL INJURY INCLUDING DEATH MAY RESULT IN WIRING MISTAKES.

Wiring must be in strict compliance with CSA C22.2 and NEC/NFPA 70.

All wiring (field or replacement) must be min 18AWG type CSA TEW/ UL 1015 rated 105°C or

All wiring and panels must be shielded from spray or ingestion of water.

Any portion of the control which has been subject to spray or ingestion of water, the entire

It is the responsibility of the installer/owner to verify the controls are functioning correctly and

Suitable wire protection and strain relief's are required (upstream & downstream) of the control

Line voltage wiring and low voltage sensor wiring must use separate wire conduits.

LABEL ALL WIRES PRIOR TO DISCONNECTING THEM FOR SERVICE.





S2NA OR S3NA **PANEL APPLICATION WIRING FULL MODULATING OPERATION**

26 27 28 29 30 31 32 33 34 35 36 37 38	ntrol	l Con	nectio	ons	[DBC-	001 8	k 002	Sens	sor C	onne	ctions	6
	26	27	28	29	30	31	32	33	34	35	36	37	38

- WARNING:
- FAILURE TO FOLLOWING THESE PROCEDURES OR WARNING COULD RESULT IN PROPERTY DAMAGE.
- PERSONAL INJURY INCLUDING DEATH MAY RESULT IN WIRING MISTAKES.
- Wiring must be in strict compliance with CSA C22.2 and NEC/NFPA 70.
- All wiring shown supplied and wired by others
- This equipment must be earth bonded or grounded.
- All wiring (field or replacement) must be min 18AWG type CSA TEW/ UL 1015 rated 105°C or an approved equivalent.
- All wiring and panels must be shielded from spray or ingestion of water.
- Any portion of the control which has been subject to spray or ingestion of water, the entire control must be replaced.
- It is the responsibility of the installer/owner to verify the controls are functioning correctly and are adjusted correctly.
- Suitable wire protection and strain relief's are required (upstream & downstream) of the control panel.
- Line voltage wiring and low voltage sensor wiring must use separate wire conduits.
- LABEL ALL WIRES PRIOR TO DISCONNECTING THEM FOR SERVICE.

All field wiring shown by others

Burner terminals

1

1

Boiler panel terminals



ontr	oller			External control sensor wiring										
26	27	28	29	30	31	32	33	34	35	36	37	38		
)		

Standard De Dietrich GT Series Boilers Control Panel Internal Factory and optional status wiring

S2NA (ME50) or S3NA (MD5) Control Panels



	Revisions				Y							
e Dietrich 📀	Date	Description	Initial	Description	Standard DDR Americas MD5 (S3NA) & ME50 S2NA - boiler panel shown							
OILERS		Ļ	X	<u>}</u>	<u> </u>							
DDR Americas Inc.	<u> </u>	<u>}</u>	<u>}</u>	Creator	Craig H.	Tolerances ±	none	Material				
ridge, Ontario N3E 1A3 – Canada		¥		Approved		Scale	NTS	File Name				
800.943.6275 Fax: 519.650.1709 www.dedietrichboilers.com				Revision	0	Units	none	Date [mm				

ate

0

