ADVANCED TEMPERATURE CONTROL

TRUCK REFRIGERATION SYSTEMS

MASTER WIRING MANUAL

IN-CAB CONTROL (NEW STYLE)

M960303

1416 GRAHAM'S LANE
BURLINGTON, ONTARIO, CANADA. L7S 1W3
TEL: (905) 637-3468 FAX: (905) 637-3363
WWW.ATC.CA

ADVANCED TEMPERATURE CONTROL

MASTER WIRING MANUAL

NEW STYLE CONTROL

INDEX

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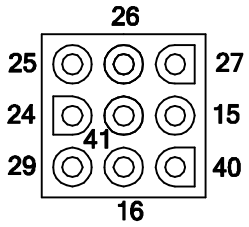
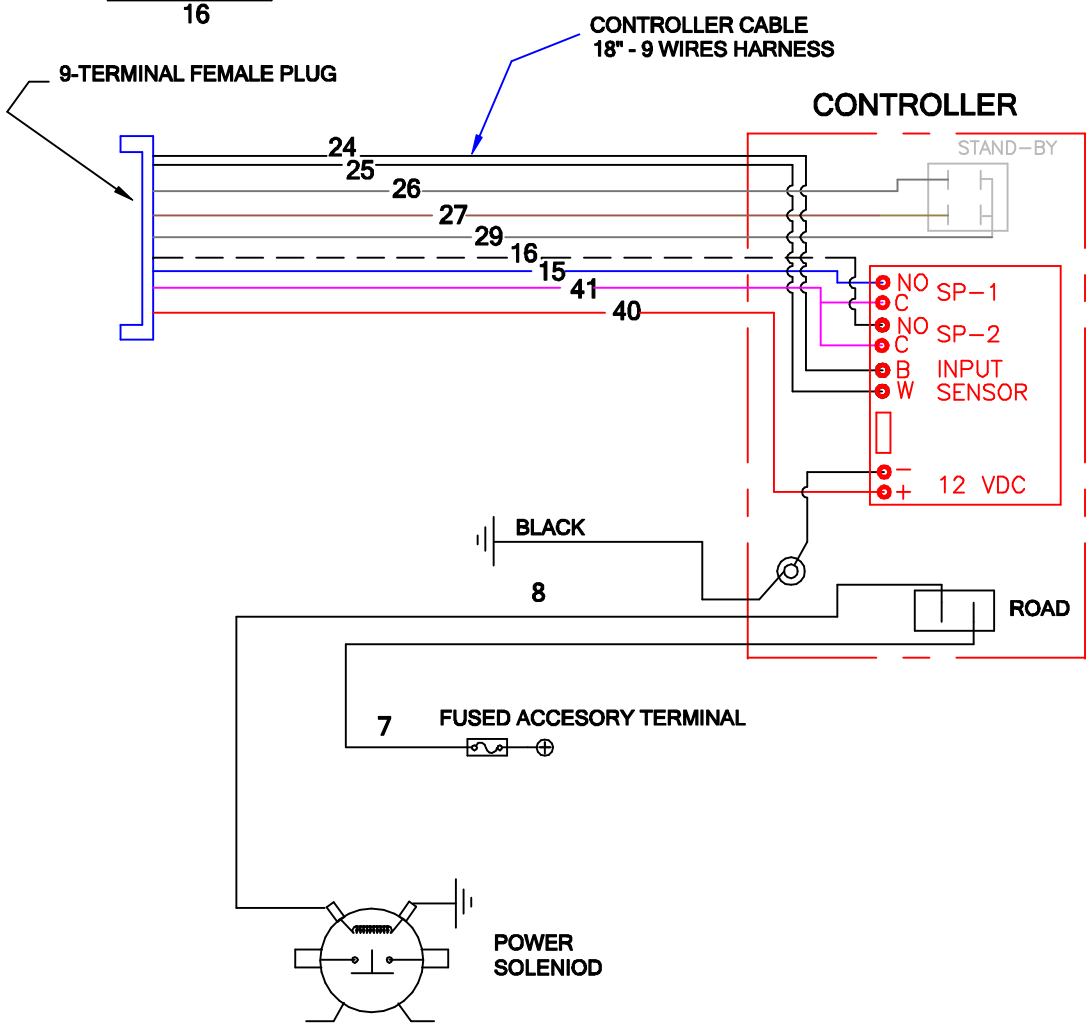
12. CAB CONTROL LOW TEMPERATURE E.S.B
13. RELAY BOX LOW TEMPERATURE E.S.B
14. E.S.B DIAGRAM LOW TEMPERATURE W / WO HEAT

REV.	DATE	DESCRIPTION	BY:
A	25/08/05	14-18g NOW 15-18g	SAM





WIRE COLOURS:

7 PURPLE 14g
8 TAN 14g
15 LIGHT BLUE 18g
16 ORANGE 18g
24 BLACK 18g
25 WHITE 18 g
26 GREEN 18 g
27 BROWN 18 g
29 YELLOW 18g
40 RED 18g
41 PURPLE 18g

ITEM	DESCRIPTION	QTY
1	CONTROLLER UNIT	1

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637–3468
FAX: (905) 637–3363

TITLE	WIRING DIAGRAM MED. TEMP. OVER THE ROAD W/WO HEAT	ENG. REF	DATA14/9012-NEW2
		DRAWN	SAM
		DATE	15-08-05
DWG NO	MRH-42	CHECK	SAM
DWG NO	M920222	DATE	15-08-05

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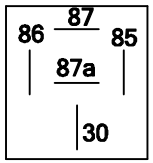
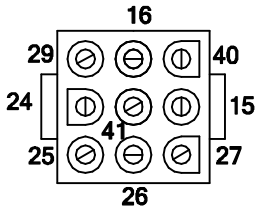
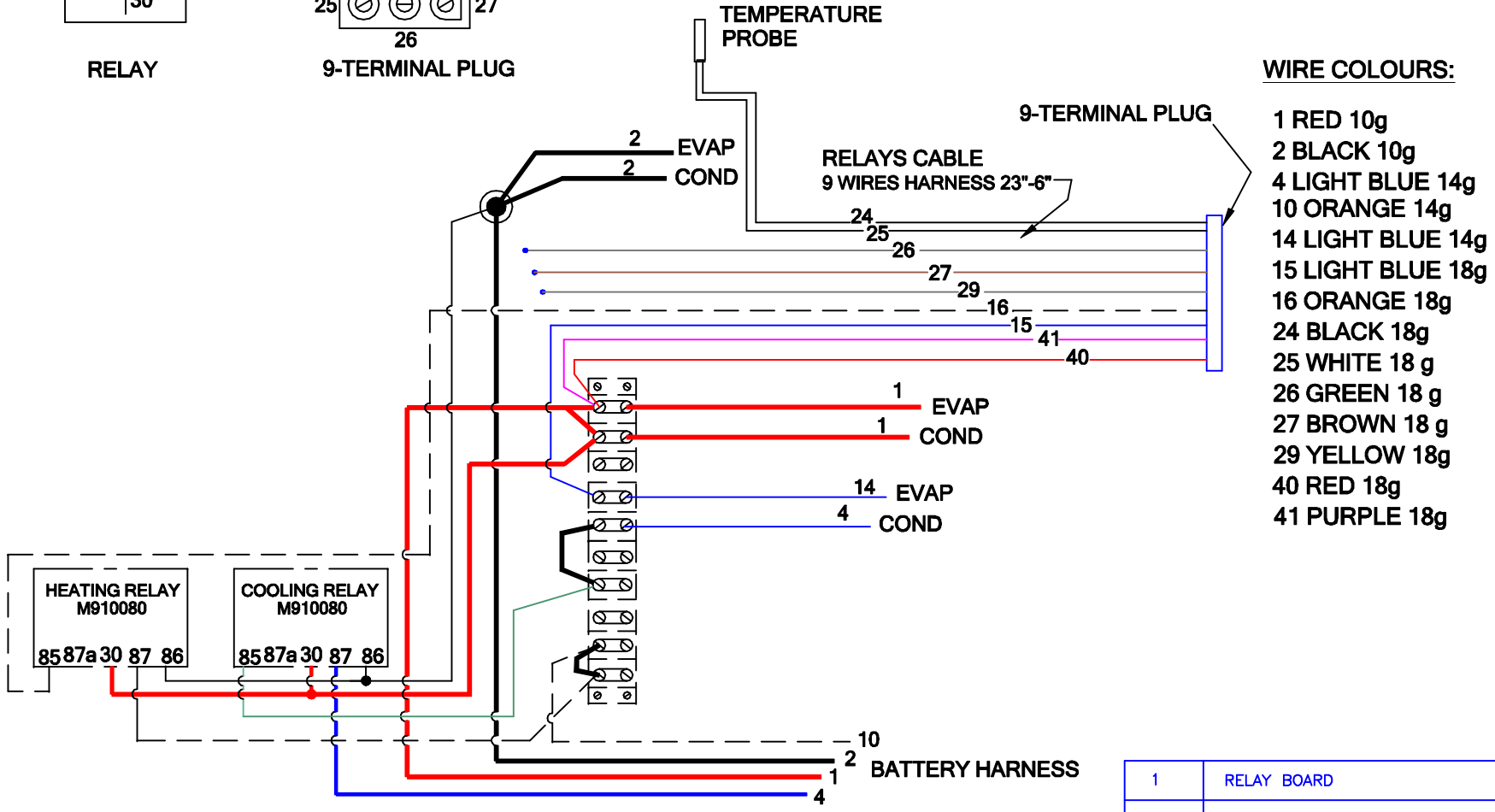
REV.	DATE	DESCRIPTION	BY:
A	14/08/05	ONE SETUP CONTROLLER	SAM
B	25/08/05	14-18g NOW 15-18g	SAM



RELAY



9-TERMINAL PLUG



WIRE COLOURS:

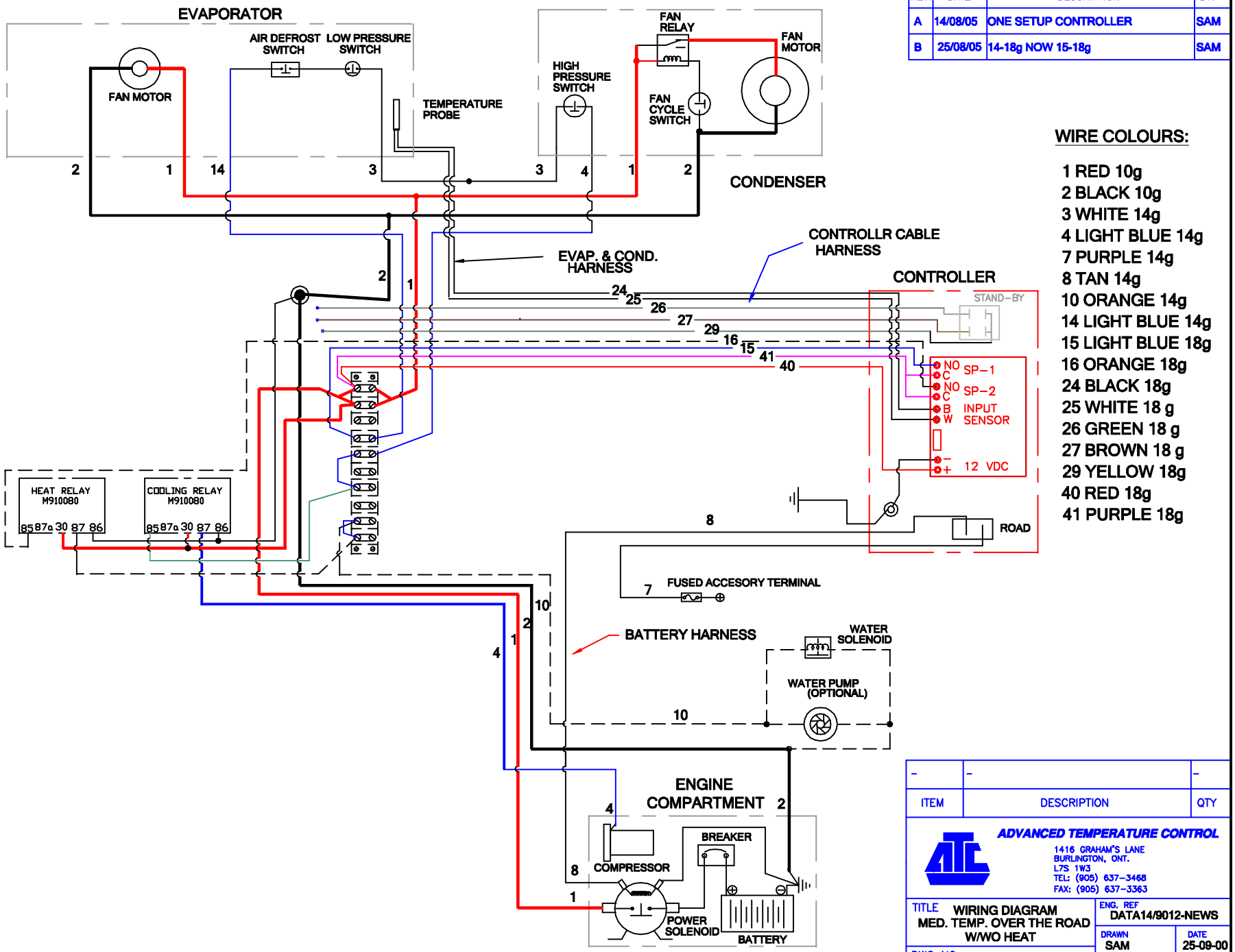
1 RED 10g
2 BLACK 10g
4 LIGHT BLUE 14g
10 ORANGE 14g
14 LIGHT BLUE 14g
15 LIGHT BLUE 18g
16 ORANGE 18g
24 BLACK 18g
25 WHITE 18 g
26 GREEN 18 g
27 BROWN 18 g
29 YELLOW 18g
40 RED 18g
41 PURPLE 18g

1	RELAY BOARD	1
ITEM	DESCRIPTION	QTY

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468
FAX: (905) 637-3363

TITLE: WIRING DIAGRAM MED. TEMP. OVER THE ROAD W/WO HEAT	ENG. REF: DATA14/9012-NEW2	
DWG NO: MRH-3	DRAWN: SAM A.	DATE: 15-08-05
PART NO: M920223	CHECK: SAM A.	DATE: 16-11-05

THIS DRAWING IS THE PROPERTY OF ATC, THE INFORMATION CONTAINED HEREIN MAY NOT BE USED OR DISTRIBUTED BY OTHER PARTIES WITHOUT THE EXPRESS WRITTEN CONSENT OF ATC.



REV.	DATE	DESCRIPTION	BY:
A	14/08/05	ONE SETUP CONTROLLER	SAM
B	25/08/05	14-18g NOW 15-18g	SAM

WIRE COLOURS:

1 RED 10g
2 BLACK 10g
3 WHITE 14g
4 LIGHT BLUE 14g
7 PURPLE 14g
8 TAN 14g
10 ORANGE 14g
14 LIGHT BLUE 14g
15 LIGHT BLUE 18g
16 ORANGE 18g
24 BLACK 18g
25 WHITE 18 g
26 GREEN 18 g
27 BROWN 18 g
29 YELLOW 18g
40 RED 18g
41 PURPLE 18g

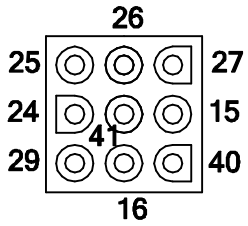
ITEM	DESCRIPTION	QTY
-	-	-

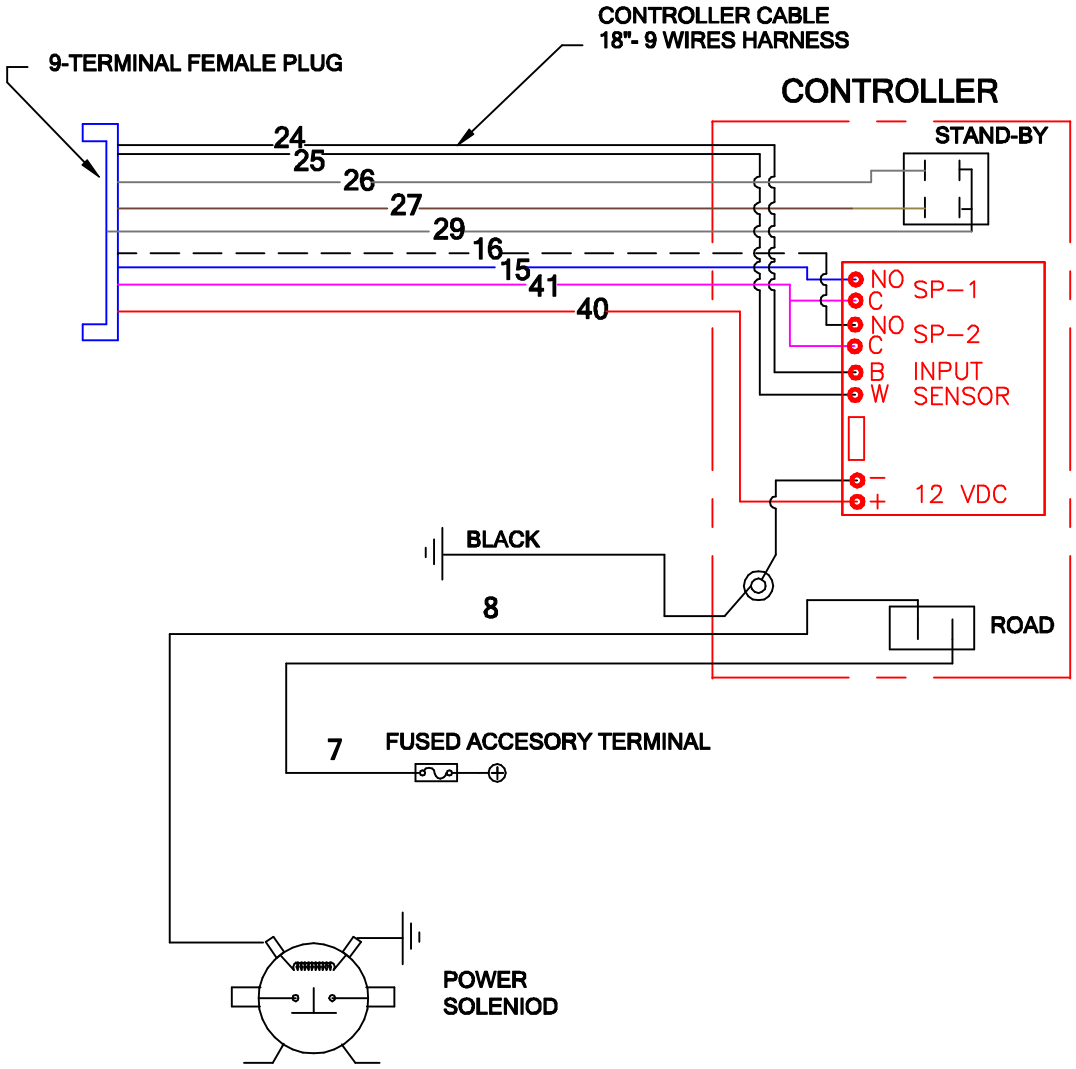
ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468
FAX: (905) 637-3363

TITLE: WIRING DIAGRAM MED. TEMP. OVER THE ROAD W/WO HEAT		ENG. REF: DATA14/9012-NEWS	
DWG NO: MRH-2	DRAWN: SAM	DATE: 25-09-00	
	CHECK: SAM	DATE: 16-11-00	

THIS DRAWING IS THE PROPERTY OF ATC, THE INFORMATION CONTAINED HEREIN MAY NOT BE USED OR DISTRIBUTED BY OTHER PARTIES WITHOUT THE EXPRESS WRITTEN CONSENT OF ATC.

REV.	DATE	DESCRIPTION	BY:
A	25/08/05	14-18g NOW 15-18g	SAM





WIRE COLOURS:

7 PURPLE 14g
8 TAN 14g
15 LIGHT BLUE 18g
16 ORANGE 18g
24 BLACK 18g
25 WHITE 18 g
26 GREEN 18 g
27 BROWN 18 g
29 YELLOW 18g
40 RED 18g
41 PURPLE 18g

ITEM	DESCRIPTION	QTY
1	CONTROLLER UNIT	1

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468
FAX: (905) 637-3363

TITLE	WIRING DIAGRAM MED. TEMP. OVER THE ROAD & ELEC. STANDBY W/WO HEAT	ENG. REF	DATA14/9012-NEW2
DWG NO	MRSH-42	DRAWN SAM	DATE 15-08-05
PART NO	M920224	CHECK SAM	DATE 15-08-05

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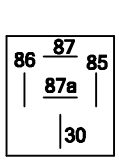
REV.	DATE	DESCRIPTION	BY:
A	14/08/05	ONE SETUP CONTROLLER	SAM
B	25/08/05	14-18g NOW 15-18g	SAM



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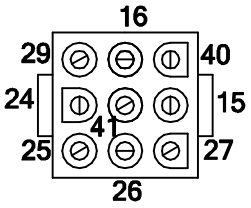
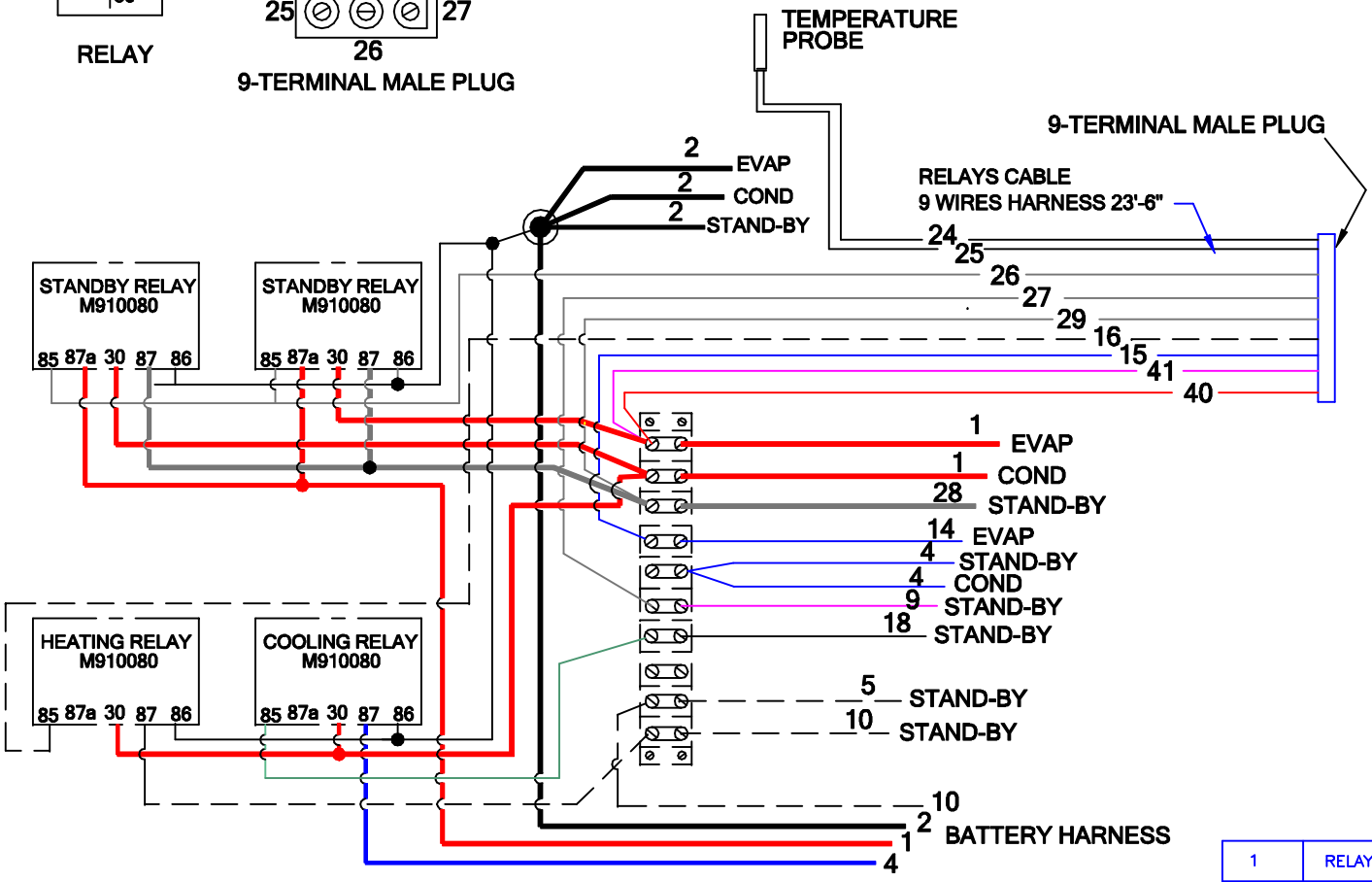


9-TERMINAL MALE PLUG



WIRE COLOURS:

1 RED 10g
2 BLACK 10g
4 LIGHT BLUE 14g
5 YELLOW 14g
10 ORANGE 14g
14 LIGHT BLUE 14g
15 LIGHT BLUE 18g
16 ORANGE 18g
24 BLACK 18g
25 WHITE 18 g
26 GREEN 18 g
27 BROWN 18 g
28 GREY 10 g
29 YELLOW 18g
40 RED 18g
41 PURPLE 18g

1	RELAY BOARD	1
ITEM	DESCRIPTION	QTY

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468
FAX: (905) 637-3383

TITLE: WIRING DIAGRAM MED. TEMP. OVER THE ROAD W. ELEC. STANDBY W/WO HEAT	ENG. REF: DATA14/9012-NEW2	
DWG NO: MRSH-3 PART NO: M920225	DRAWN: SAM A.	DATE: 2-10-00
	CHECK: SAM A.	DATE

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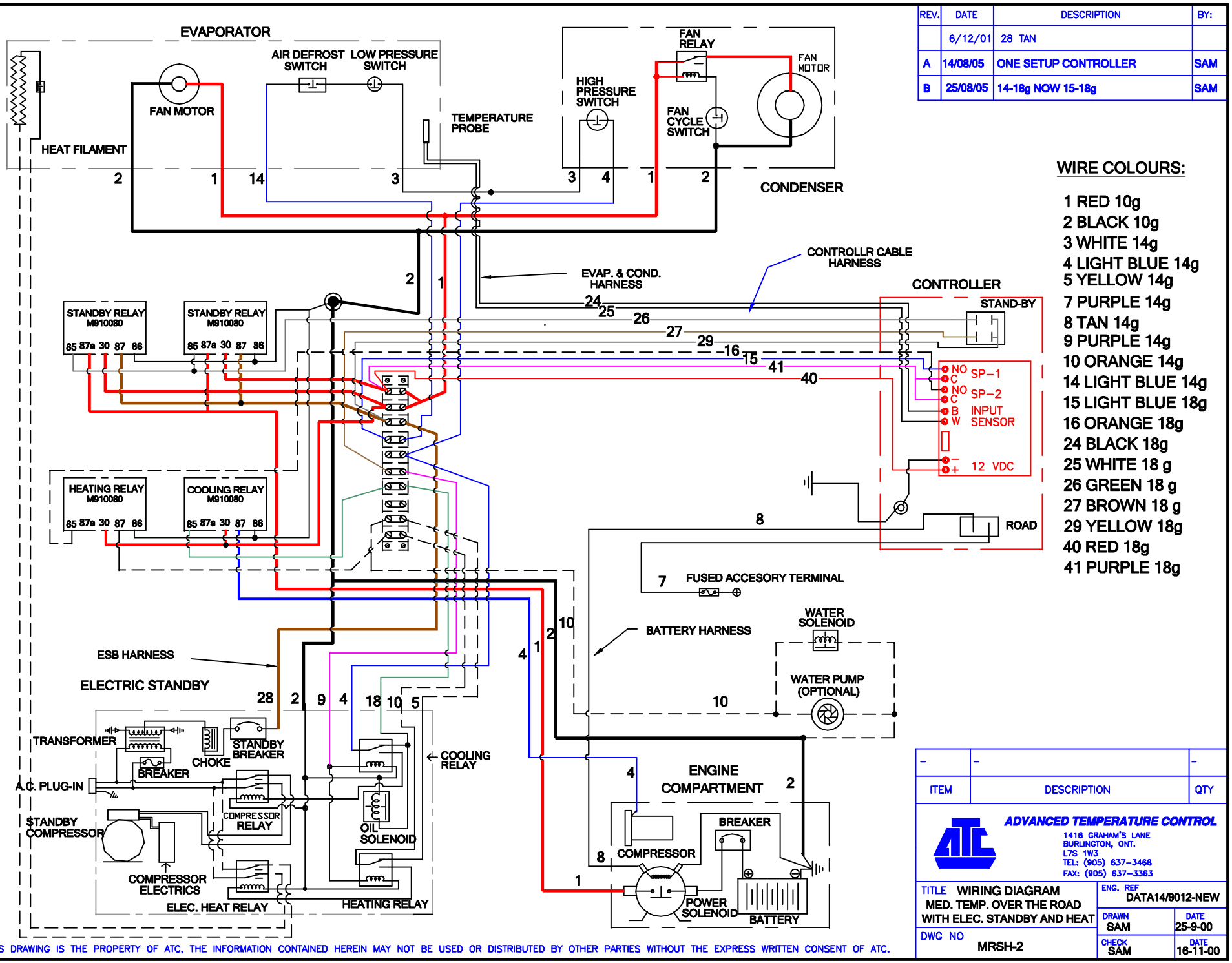

REV.	DATE	DESCRIPTION	BY:
	6/12/01	28 TAN	
A	14/08/05	ONE SETUP CONTROLLER	SAM
B	25/08/05	14-18g NOW 15-18g	SAM

WIRE COLOURS:

1 RED 10g
2 BLACK 10g
3 WHITE 14g
4 LIGHT BLUE 14g
5 YELLOW 14g
7 PURPLE 14g
8 TAN 14g
9 PURPLE 14g
10 ORANGE 14g
14 LIGHT BLUE 14g
15 LIGHT BLUE 18g
16 ORANGE 18g
24 BLACK 18g
25 WHITE 18 g
26 GREEN 18 g
27 BROWN 18 g
29 YELLOW 18g
40 RED 18g
41 PURPLE 18g

-	-	-
ITEM	DESCRIPTION	QTY

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468
FAX: (905) 637-3383

TITLE WIRING DIAGRAM MED. TEMP. OVER THE ROAD WITH ELEC. STANDBY AND HEAT	ENG. REF DATA14/9012-NEW	
	DRAWN SAM	DATE 25-9-00
DWG NO MRSH-2	CHECK SAM	DATE 16-11-00

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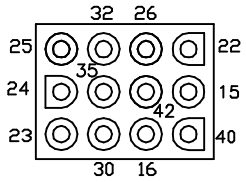
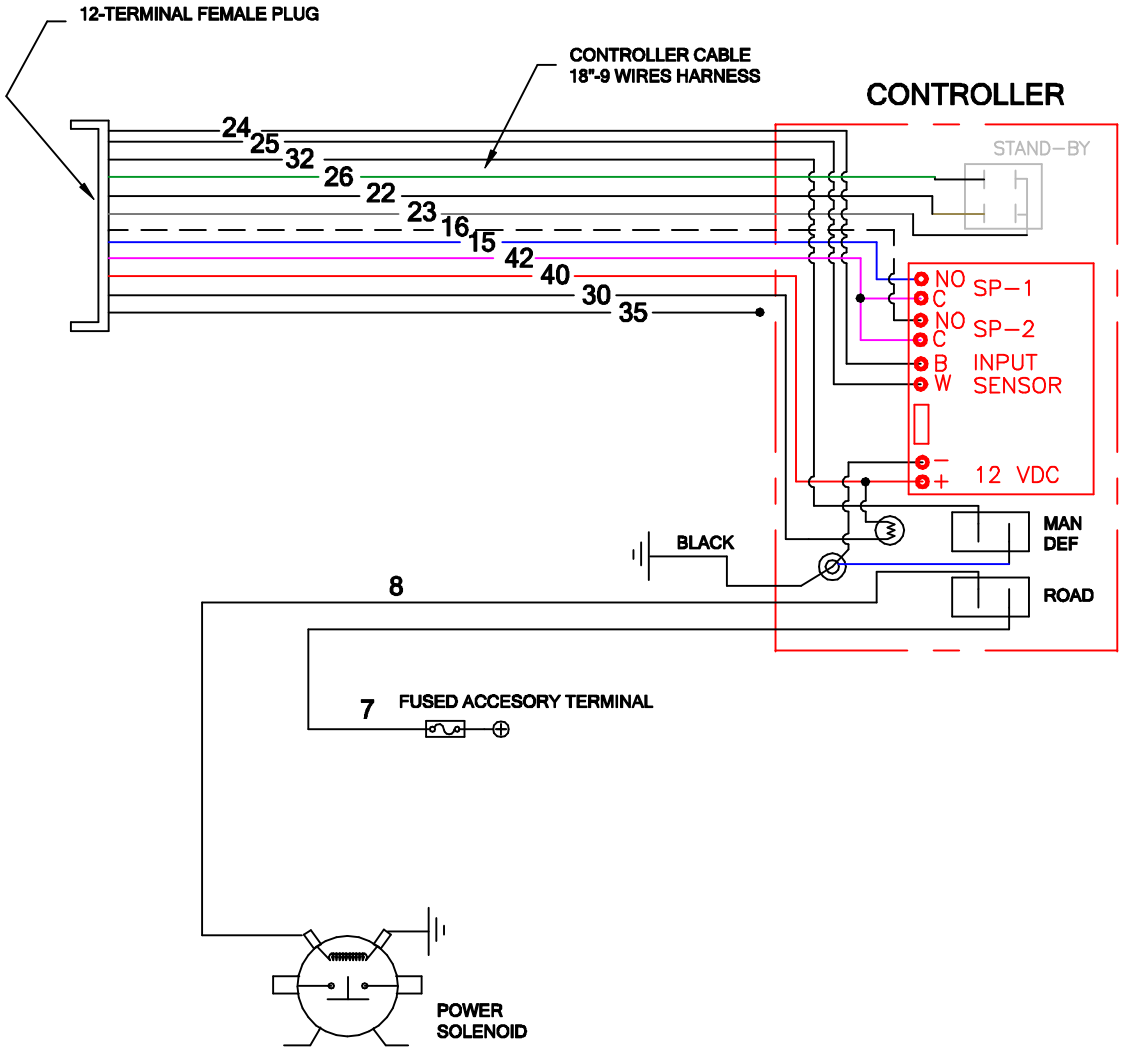
REV.	DATE	DESCRIPTION	BY:
A	29/08/05	14-18g NOW 15-18g	SAM





WIRE COLOURS:

7 PURPLE 14g
8 TAN 14g
15 LIGHT BLUE 18g
16 ORANGE 18g
22 ORANGE/BLACK 18g
23 GREEN/BLACK 18g
24 BLACK 18g
25 WHITE 18g
26 GREEN 18g
30 BLUE/BLACK 18g
32 BLACK/WHITE 18g
35 WHITE/ BLACK 18g
40 RED 18g
42 RED/BLACK 18g

ITEM	DESCRIPTION	QTY
1	CONTROLLER UNIT	1

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468
FAX: (905) 637-3363

TITLE: WIRING DIAGRAM LOW TEMP. OVER THE ROAD W/WO HEAT	ENG. REF: DATA14/9012/NEW2	
	DRAWN: SAM	DATE: 9-8-05
DWG NO: LRH-42 PART NO: M920226	CHECK	DATE

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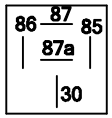
REV.	DATE	DESCRIPTION	BY:
A	14/08/05	ONE SETUP CONTROLLER	SAM
B	25/08/05	14-18g NOW 15-18g	SAM



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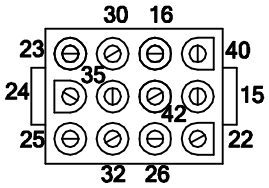
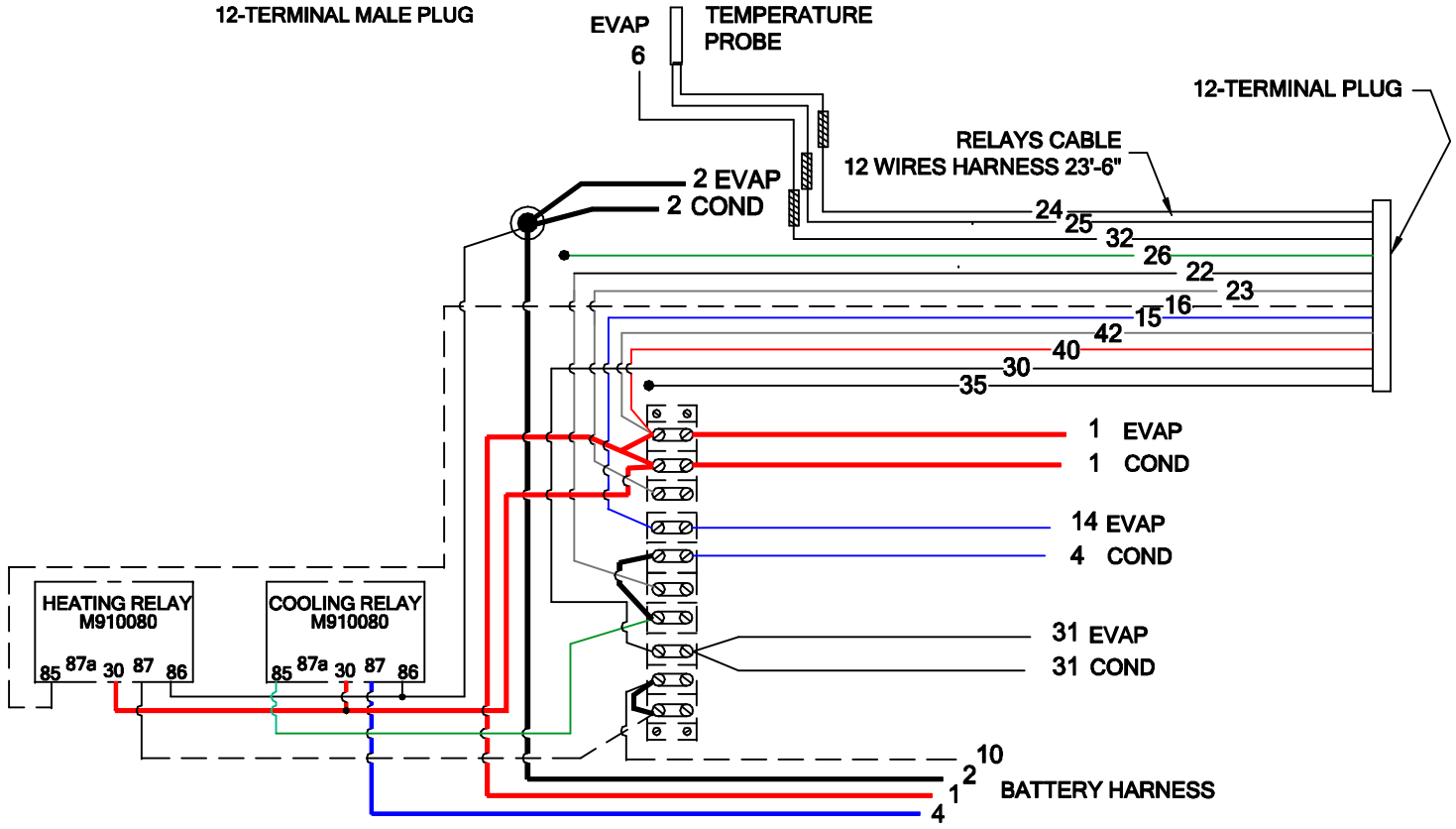


12-TERMINAL MALE PLUG



WIRE COLOURS:

1 RED 10g
2 BLACK 10g
3 WHITE 14g
4 LIGHT BLUE 14g
6 TAN 14g
10 ORANGE 14g
14 LIGHT BLUE 14g
15 LIGHT BLUE 14g
16 ORANGE 18g
22 ORANGE/BLACK 18g
23 GREEN/BLACK 18g
24 BLACK 18g
25 WHITE 18g
26 GREEN 18g
30 BLUE/BLACK 18g
31 DARK BLUE 14g
32 BLACK/WHITE 18g
35 WHITE/BLACK 18g
40 RED 18g
42 RED/BLACK 18g

ITEM	DESCRIPTION	QTY
1	RELAY BOARD	1

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468
FAX: (905) 637-3363

TITLE: WIRING DIAGRAM
LOW TEMP. OVER THE ROAD
W/WO HEAT

ENG. REF: DATA14/9012-NEWS
DRAWN: SAM
DATE: 17-11-00
CHECK:
DATE:

DWG NO: LRH-3
PART NO: M920227

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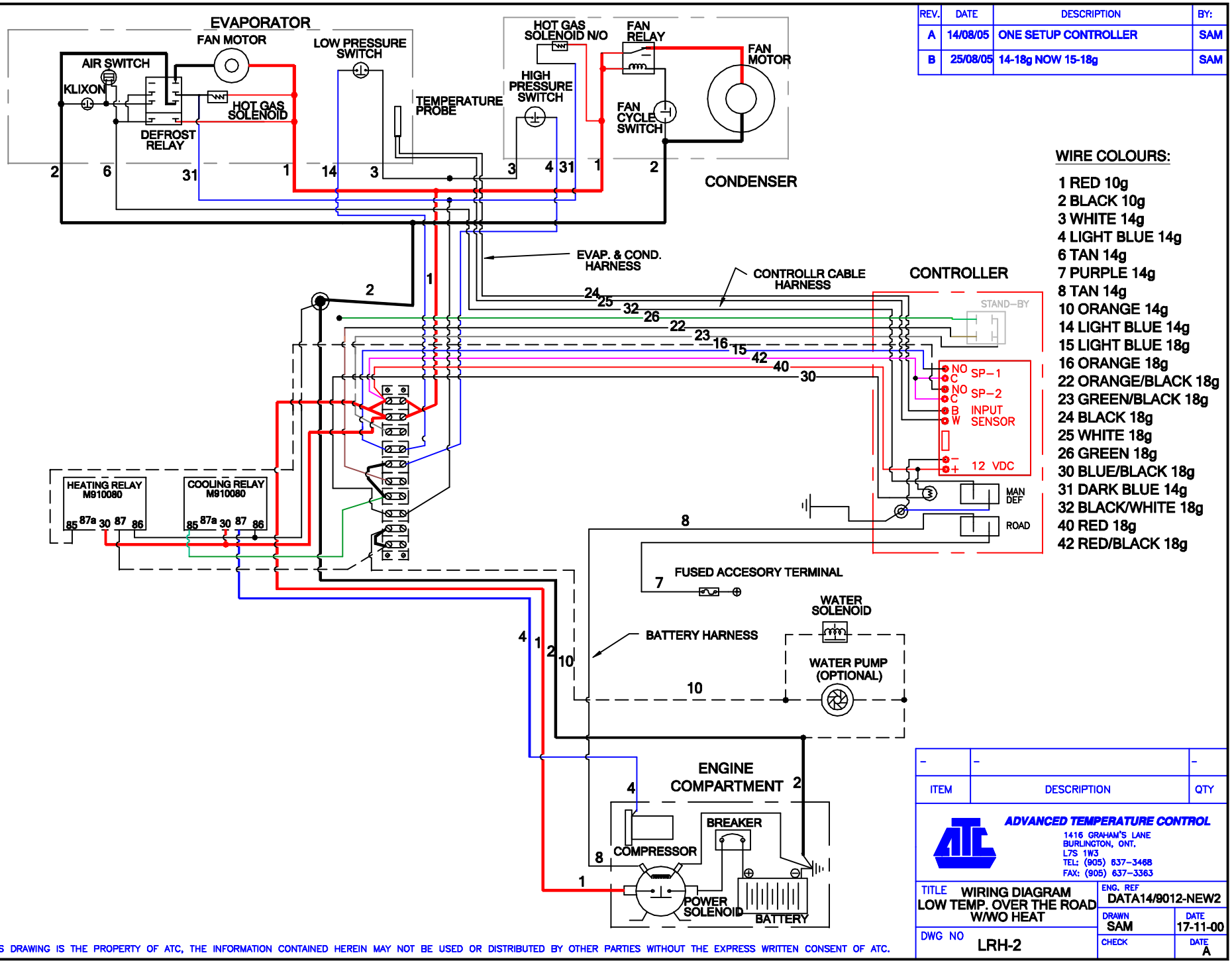


REV.	DATE	DESCRIPTION	BY:
A	14/08/05	ONE SETUP CONTROLLER	SAM
B	25/08/05	14-18g NOW 15-18g	SAM

WIRE COLOURS:

1 RED 10g
2 BLACK 10g
3 WHITE 14g
4 LIGHT BLUE 14g
6 TAN 14g
7 PURPLE 14g
8 TAN 14g
10 ORANGE 14g
14 LIGHT BLUE 14g
15 LIGHT BLUE 18g
16 ORANGE 18g
22 ORANGE/BLACK 18g
23 GREEN/BLACK 18g
24 BLACK 18g
25 WHITE 18g
26 GREEN 18g
30 BLUE/BLACK 18g
31 DARK BLUE 14g
32 BLACK/WHITE 18g
40 RED 18g
42 RED/BLACK 18g

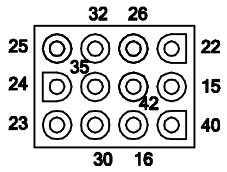
ITEM	DESCRIPTION	QTY
-	-	-

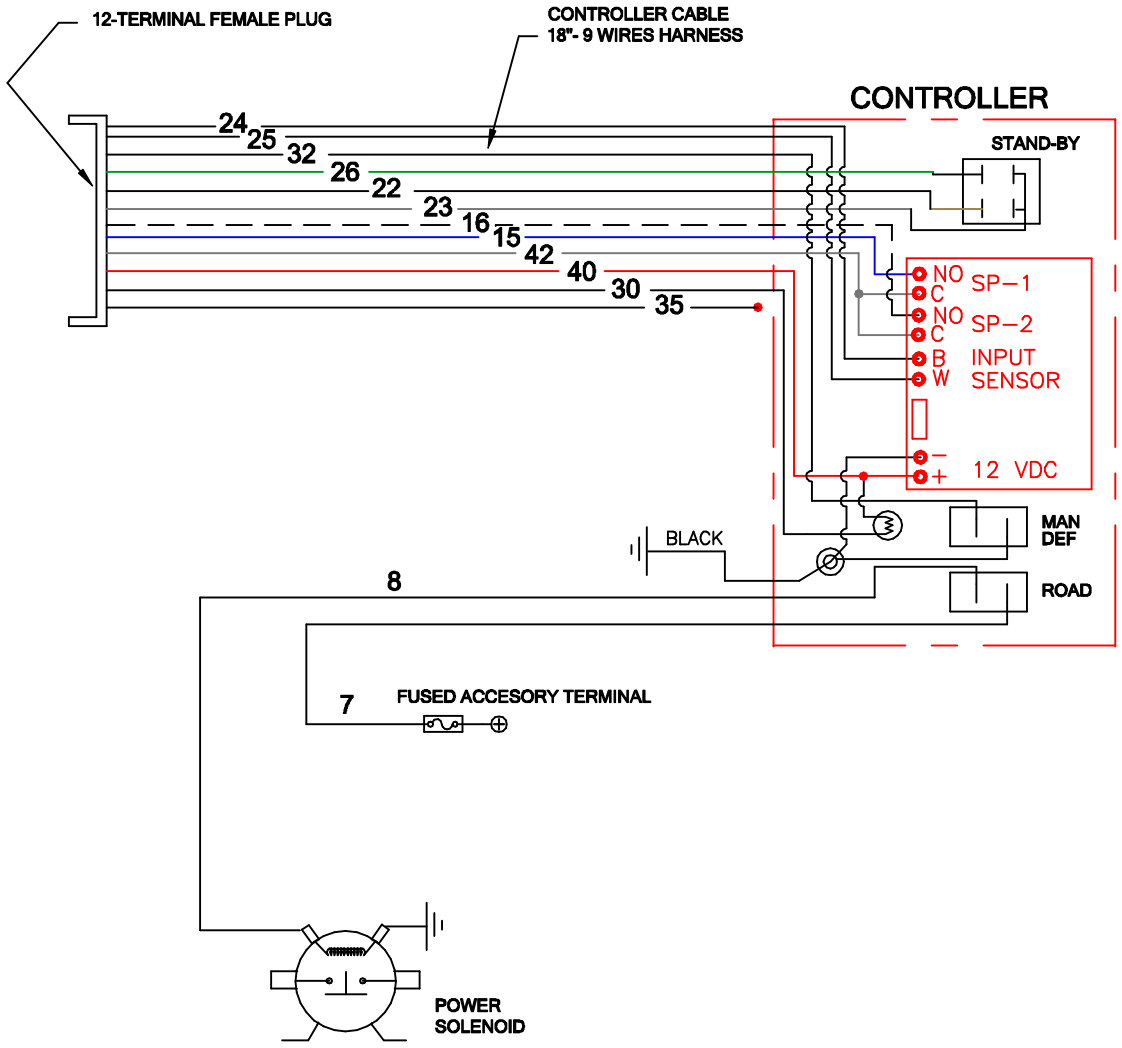
ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468
FAX: (905) 637-3363

TITLE	WIRING DIAGRAM LOW TEMP. OVER THE ROAD W/WO HEAT	ENG. REF	DATA14/9012-NEW2
		DRAWN	SAM
		DATE	17-11-00
DWG NO	LRH-2	CHECK	
		DATE	A

THIS DRAWING IS THE PROPERTY OF ATC, THE INFORMATION CONTAINED HEREIN MAY NOT BE USED OR DISTRIBUTED BY OTHER PARTIES WITHOUT THE EXPRESS WRITTEN CONSENT OF ATC.

REV.	DATE	DESCRIPTION	BY:
A	29/08/05	14-18g NOW 15-18g	SAM





WIRE COLOURS:

7 PURPLE 14g
8 TAN 14g
15 LIGHT BLUE 18g
16 ORANGE 18g
22 ORANGE/BLACK 18g
23 GREEN/BLACK 18g
24 BLACK 18g
25 WHITE 18g
26 GREEN 18g
30 BLUE/BLACK 18g
32 BLACK/WHITE 18g
35 WHITE/BLACK 18g
40 RED 18g
42 RED/BLACK 18g

ITEM	DESCRIPTION	QTY
1	CONTROLLER UNIT	1

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468
FAX: (905) 637-3363

TITLE: WIRING DIAGRAM LOW TEMP. OVER THE ROAD & ELEC. STAND-BY W/WO HEAT	ENG. REF: DATA14/9012-NEW2	
DWG NO: LRSH-42 PART NO: M920228	DRAWN: SAM	DATE: 8-8-05
	CHECK	DATE

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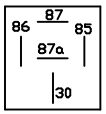
REV.	DATE	DESCRIPTION	BY:



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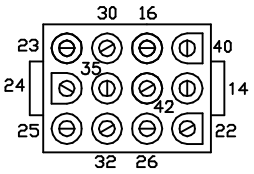
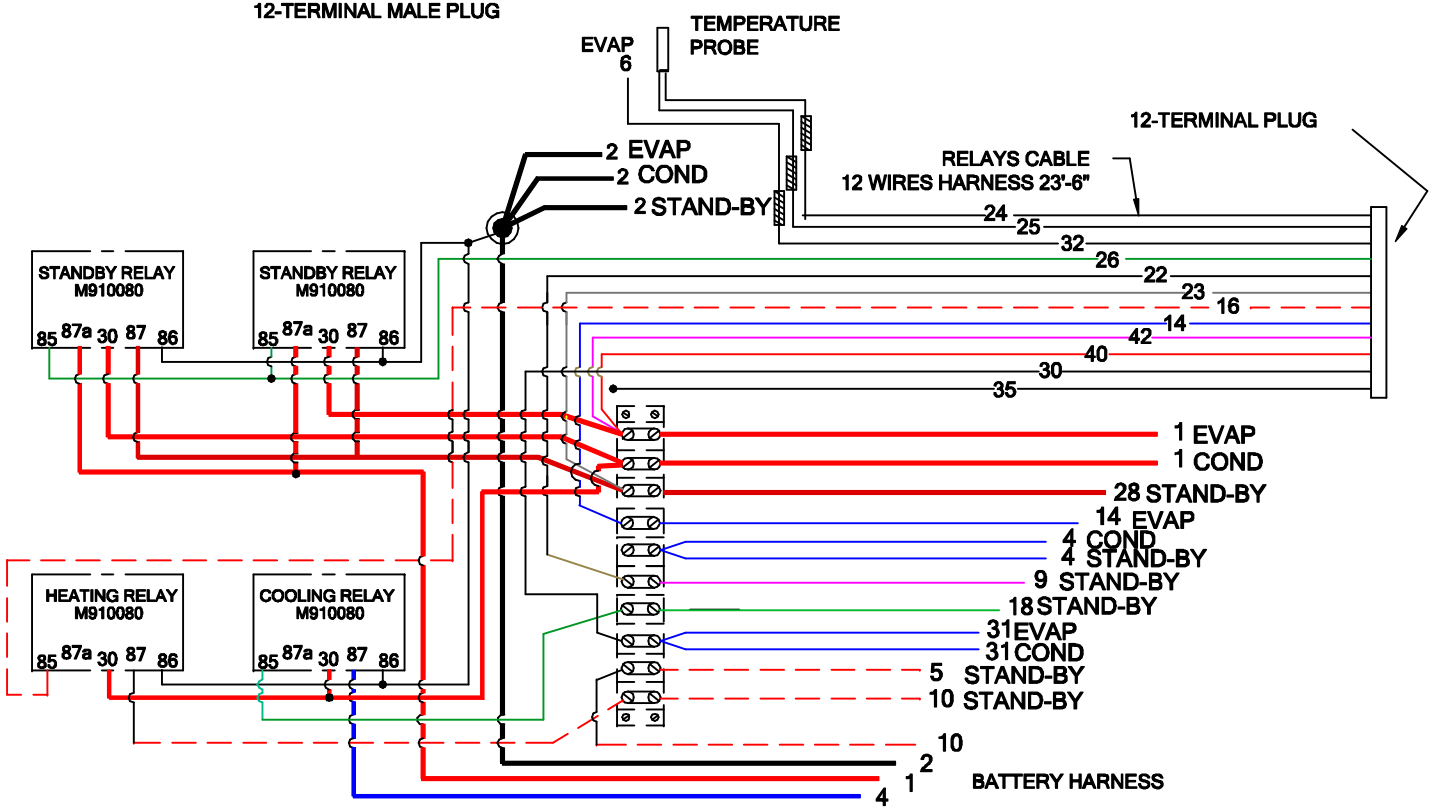


12-TERMINAL MALE PLUG



WIRE COLOURS:

1 RED 10g
2 BLACK 10g
3 WHITE 14g
4 LIGHT BLUE 14g
5 YELLOW 14g
6 TAN 14g
9 PURPLE 14g
10 ORANGE 14g
14 LIGHT BLUE 14g
14 LIGHT BLUE 18g
16 ORANGE 18g
22 ORANGE/BLACK 18g
23 GREEN/BLACK 18g
24 BLACK 18g
25 WHITE 18g
26 GREEN 18g
30 BLUE/BLACK 18g
31 DARK BLUE 14g
32 BLACK/WHITE 18g
35 WHITE/BLACK 18g
40 RED 18g
42 RED/BLACK 18g

1	RELAY BOARD	1
ITEM	DESCRIPTION	QTY

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468
FAX: (905) 637-3363

TITLE	ENG. REF	
WIRING DIAGRAM LOW TEMP. OVER THE ROAD& ELEC. STANDBY W/WO HEAT	DATA14/9012-NEW2	
DWG NO LRSH-3 PART NO: M920229	DRAWN SAM	DATE 20-11-00
	CHECK	DATE

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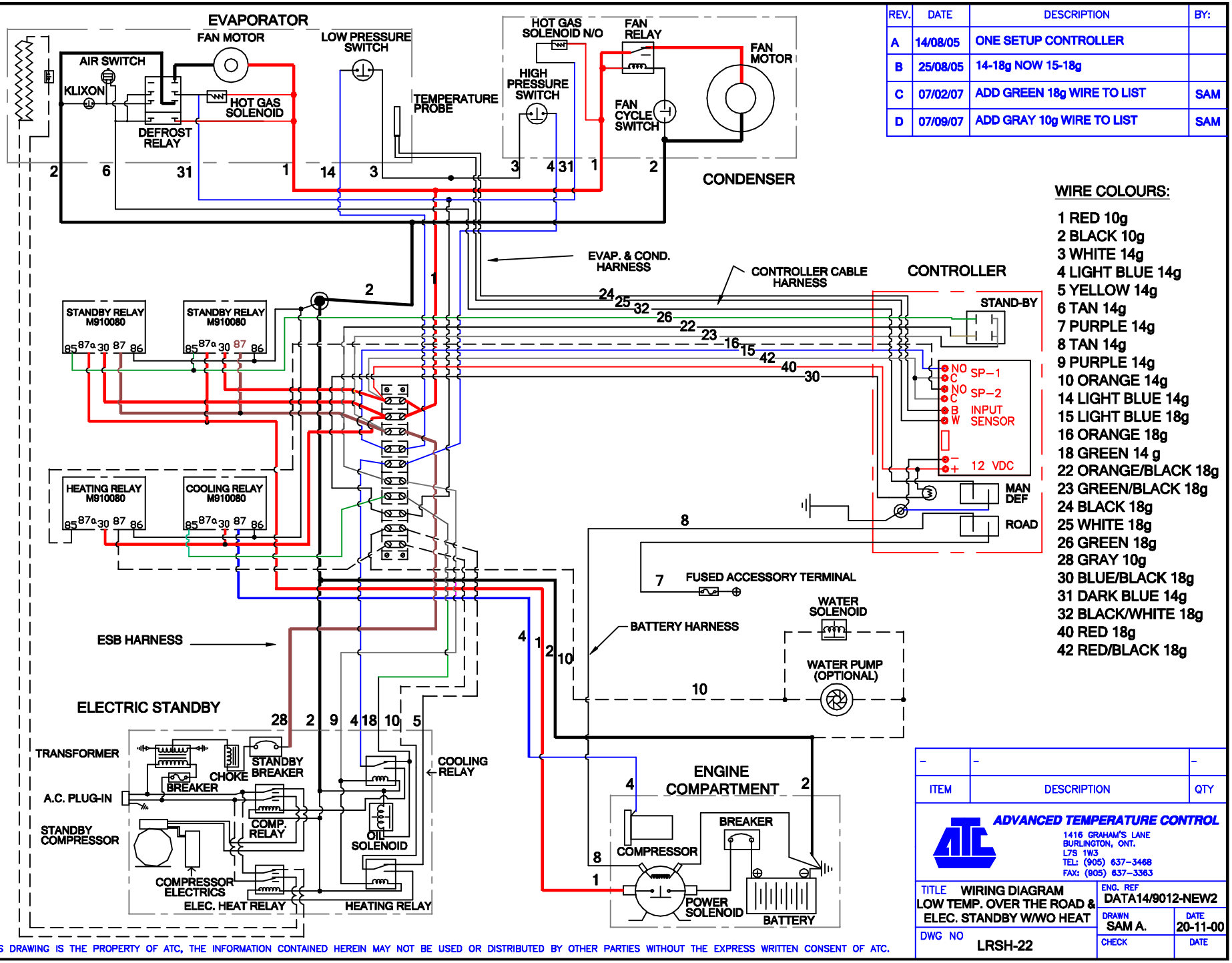

REV.	DATE	DESCRIPTION	BY:
A	14/08/05	ONE SETUP CONTROLLER	
B	25/08/05	14-18g NOW 15-18g	
C	07/02/07	ADD GREEN 18g WIRE TO LIST	SAM
D	07/09/07	ADD GRAY 10g WIRE TO LIST	SAM

WIRE COLOURS:

1 RED 10g
2 BLACK 10g
3 WHITE 14g
4 LIGHT BLUE 14g
5 YELLOW 14g
6 TAN 14g
7 PURPLE 14g
8 TAN 14g
9 PURPLE 14g
10 ORANGE 14g
14 LIGHT BLUE 14g
15 LIGHT BLUE 18g
16 ORANGE 18g
18 GREEN 14 g
22 ORANGE/BLACK 18g
23 GREEN/BLACK 18g
24 BLACK 18g
25 WHITE 18g
26 GREEN 18g
28 GRAY 10g
30 BLUE/BLACK 18g
31 DARK BLUE 14g
32 BLACK/WHITE 18g
40 RED 18g
42 RED/BLACK 18g

-	-	-
ITEM	DESCRIPTION	QTY

ADVANCED TEMPERATURE CONTROL
1416 GRAHAM'S LANE
BURLINGTON, ONT.
L7S 1W3
TEL: (905) 637-3468
FAX: (905) 637-3363

TITLE: WIRING DIAGRAM LOW TEMP. OVER THE ROAD & ELEC. STANDBY W/WO HEAT	ENG. REF: DATA14/9012-NEW2	
	DRAWN: SAM A.	DATE: 20-11-00
DWG NO: LRSH-22	CHECK	DATE

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