

**CHAPTER**

**30**

**ICE AND RAIN  
PROTECTION**

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737-700/800

## WIRING DIAGRAM MANUAL

### CHAPTER 30 ICE AND RAIN PROTECTION

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<b>PITOT TUBES AND TEMPERATURE PROBE ANTI-ICING SYSTEM</b>						
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<b>FLIGHT COMPARTMENT WINDOW ANTI-ICING SYSTEM</b>						
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WINDSHIELD HEAT SYSTEM - R. FRONT, L. SIDE AND OPTIONAL R3 WINDOW	30-41-12		1	1	Nov 28/2007	YC051-YC057
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<b><u>WINDSHIELD WIPER SYSTEM</u></b>						
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30-31-12	PITOT AND PROBE HEATERS - SYSTEM B
30-41-11	WINDSHIELD HEAT SYSTEM - L. FRONT, R. SIDE AND OPTIONAL L3 WINDOW
30-41-12	WINDSHIELD HEAT SYSTEM - R. FRONT, L. SIDE AND OPTIONAL R3 WINDOW
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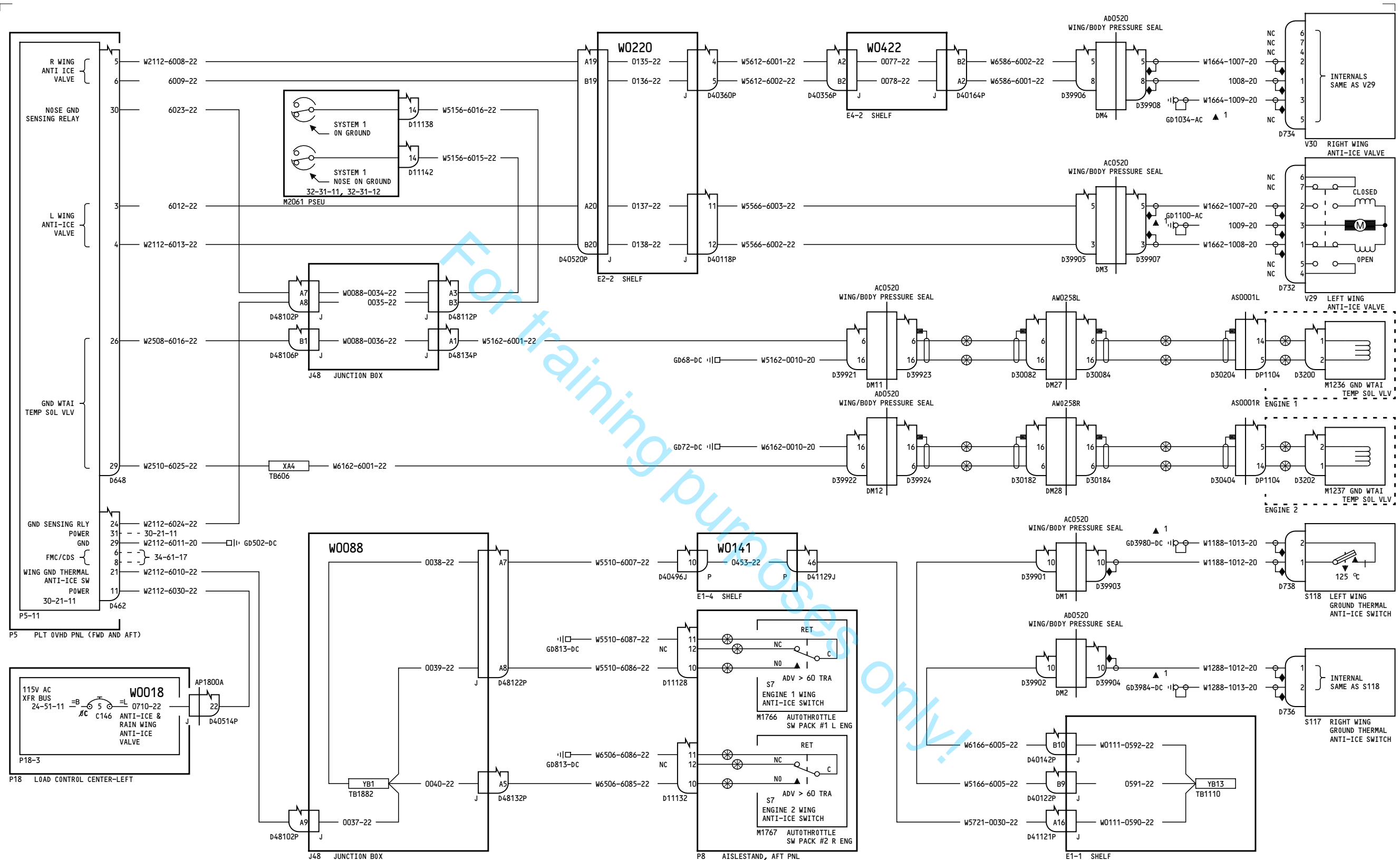
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YC051-YC052

## WING THERMAL ANTI-ICE SYSTEM

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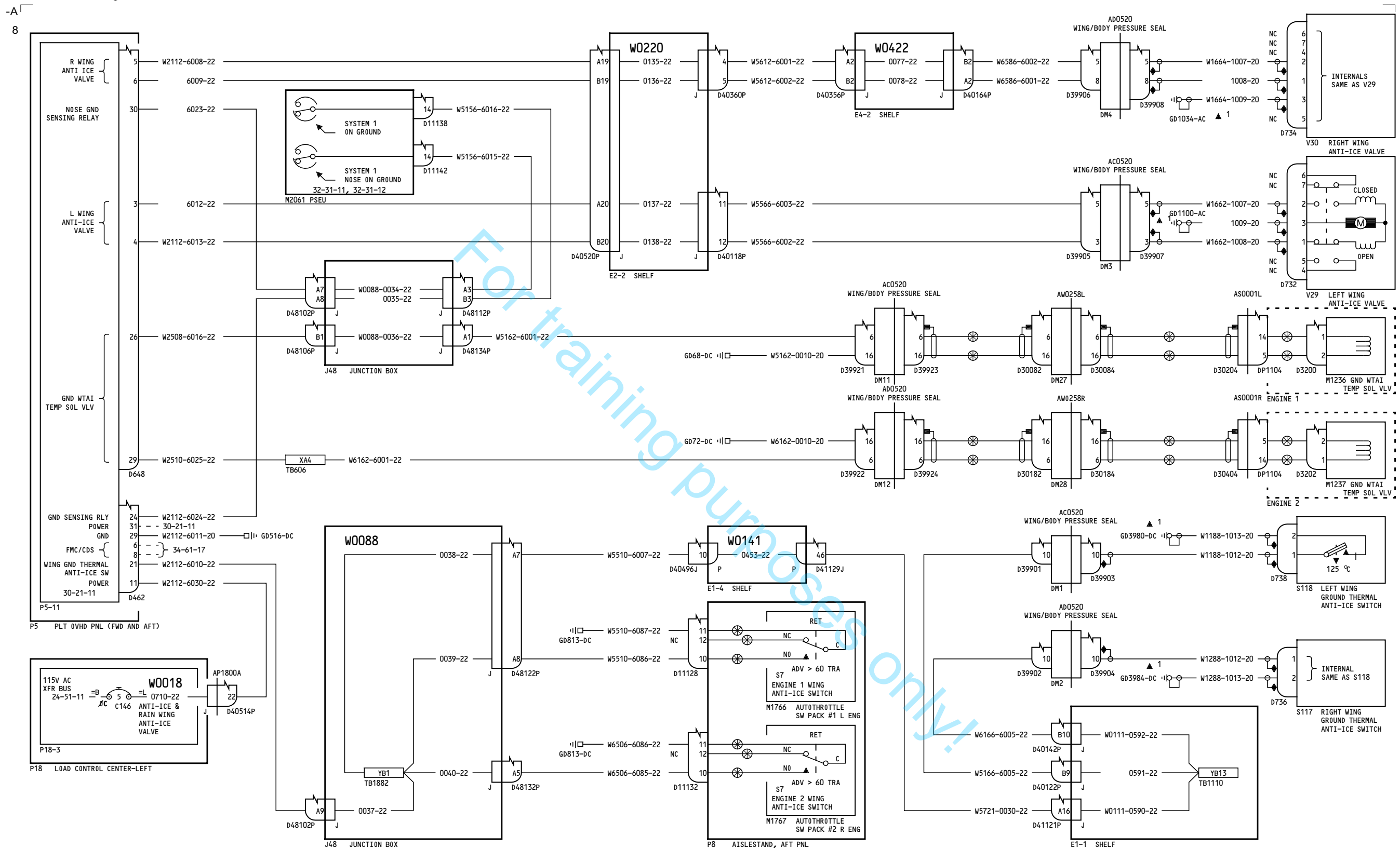
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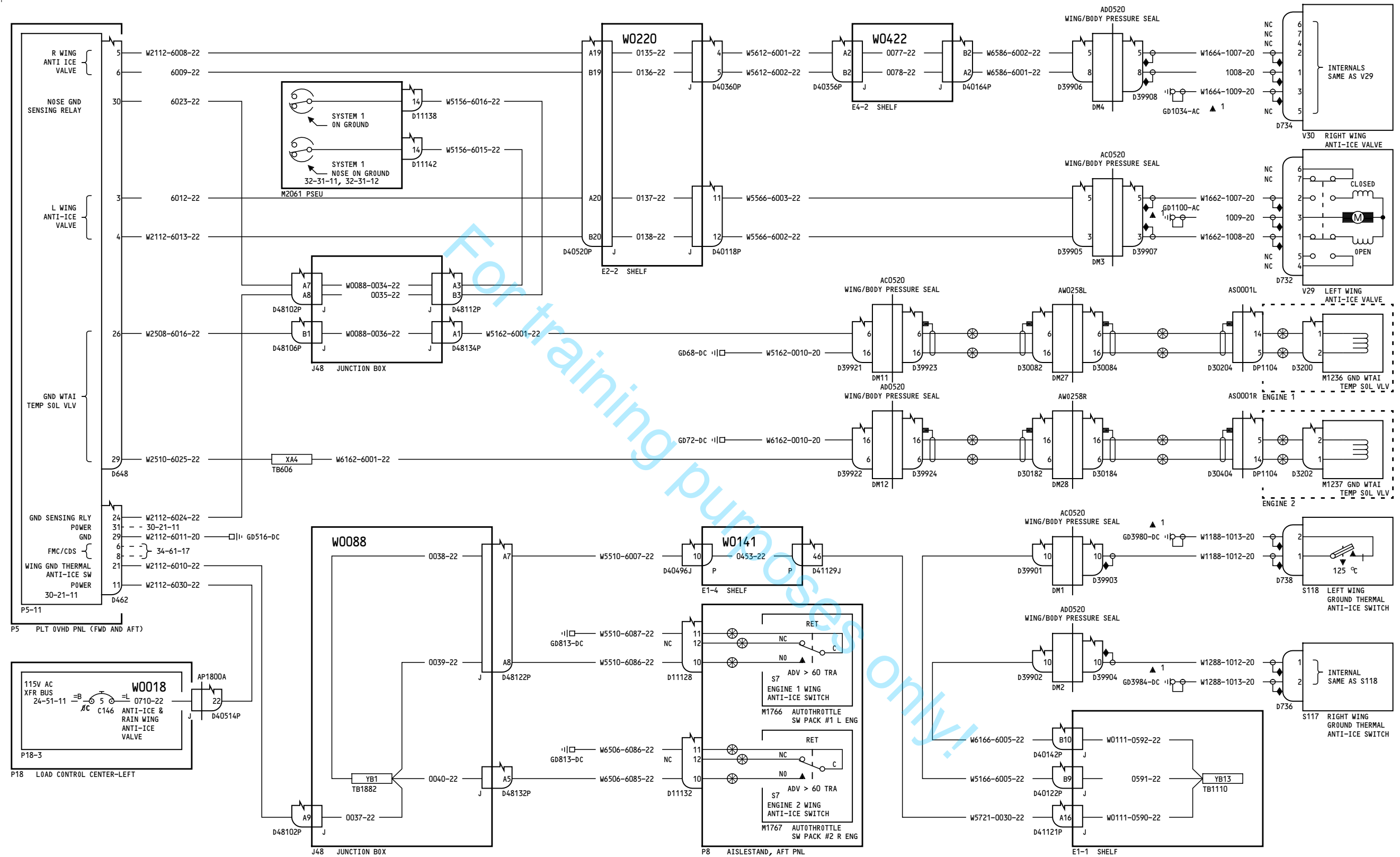
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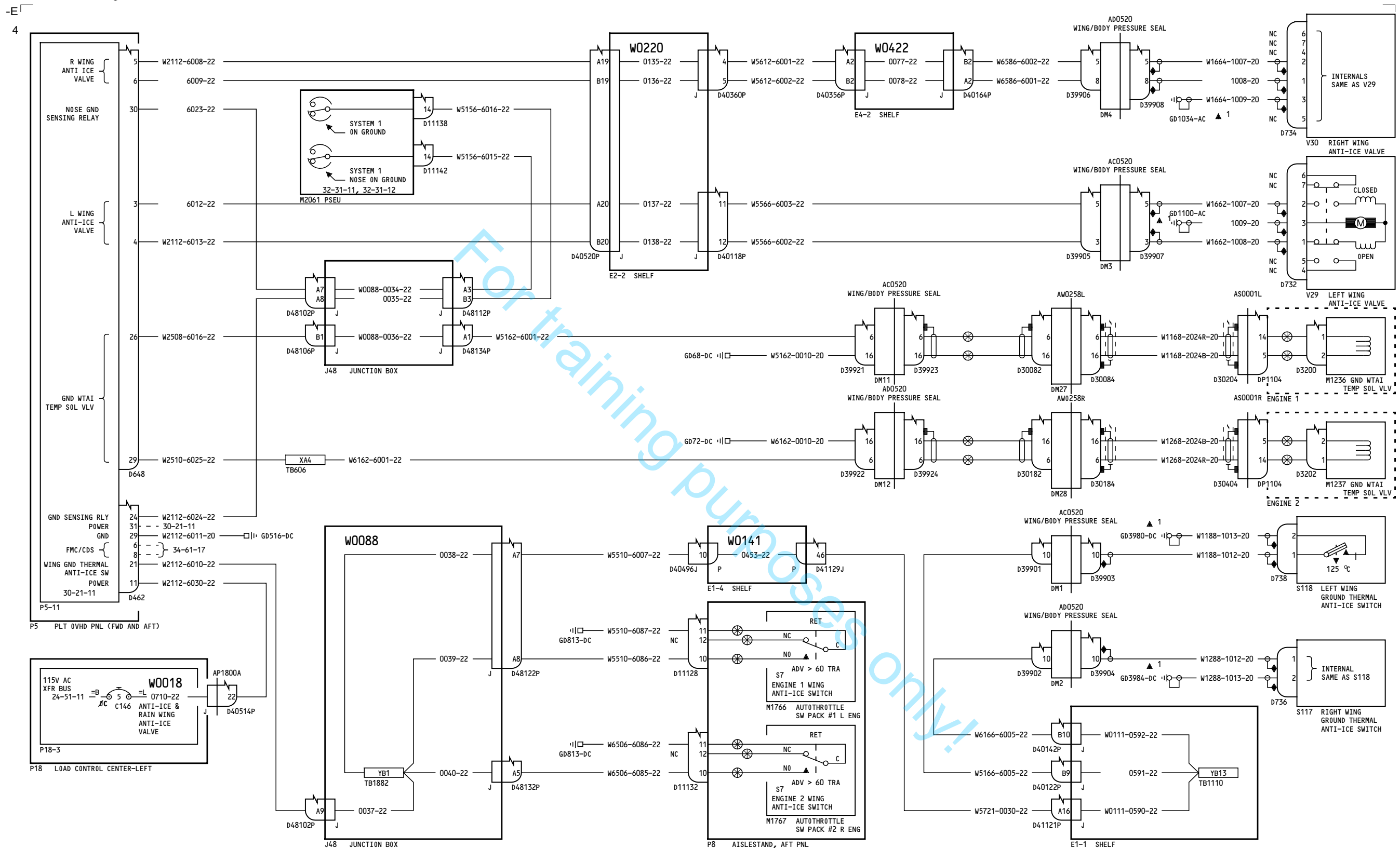
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WING THERMAL ANTI-ICE SYSTEM

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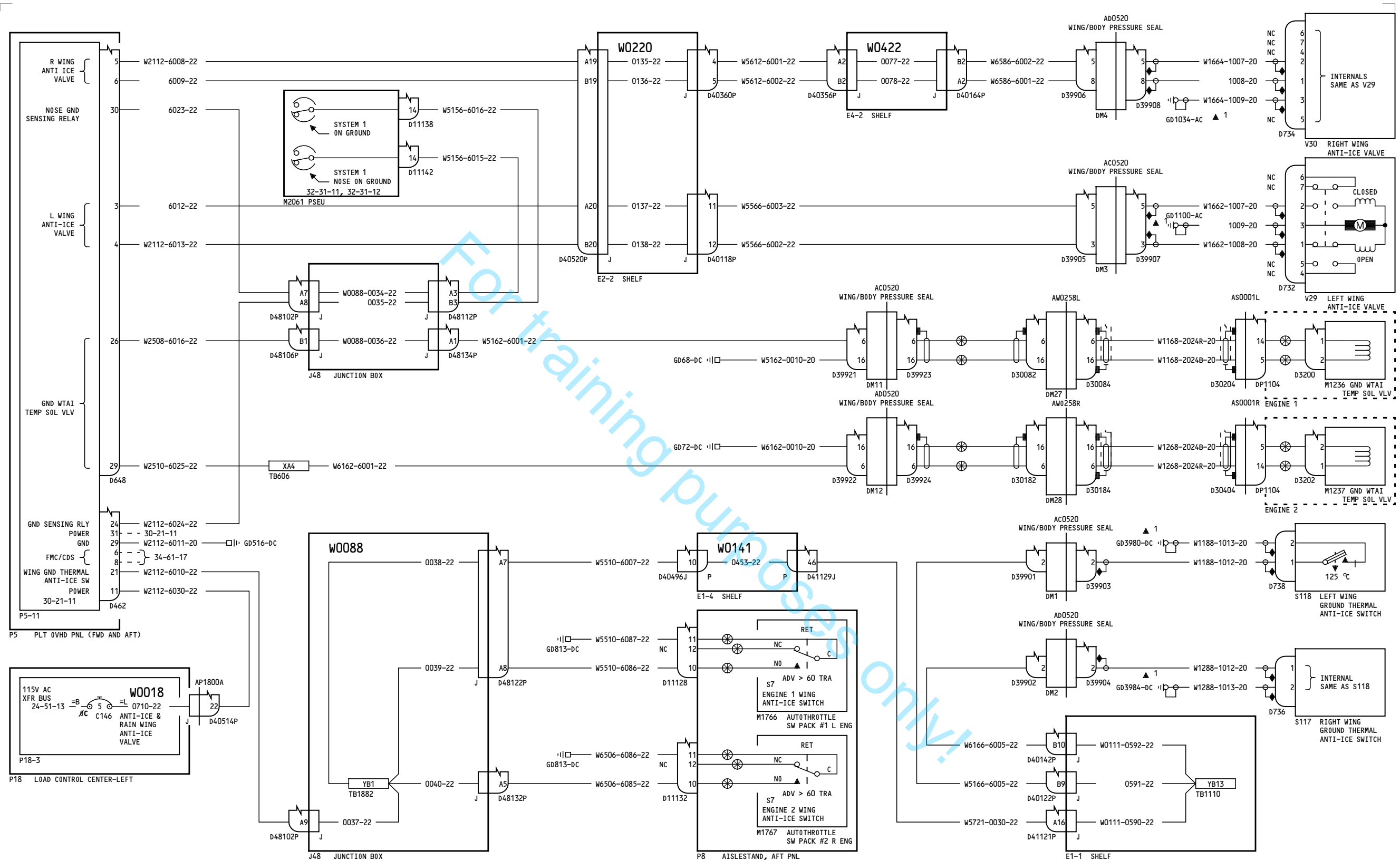
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YD154-YR328

### WING THERMAL ANTI-ICE SYSTEM

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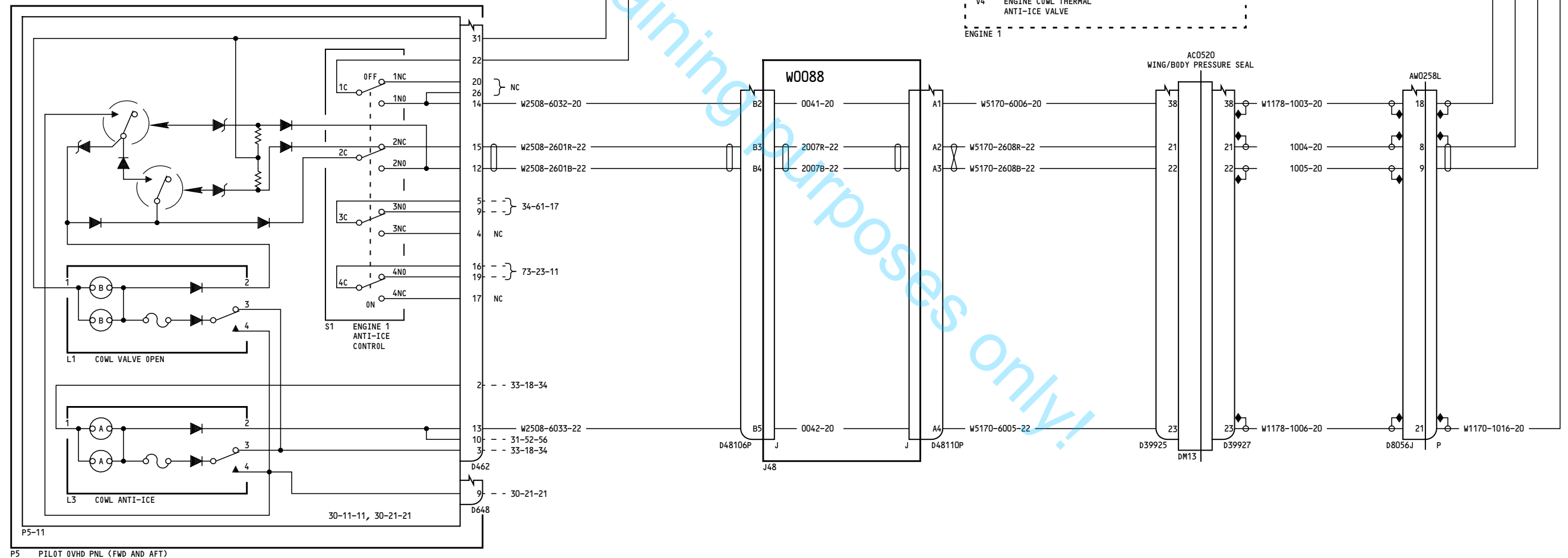
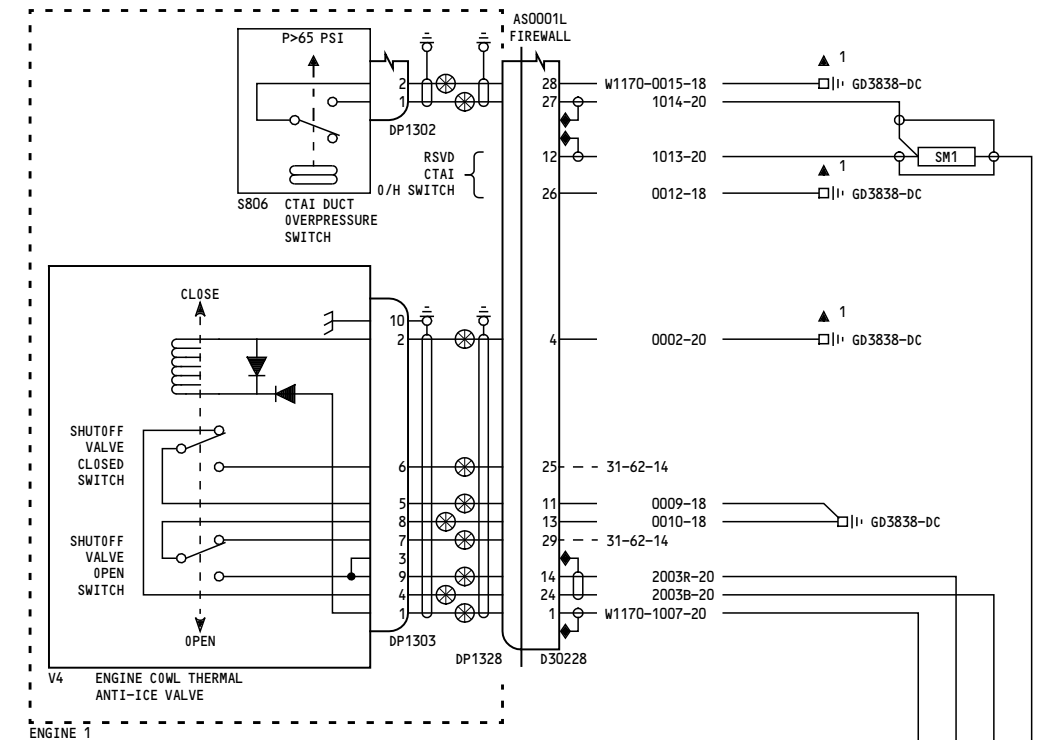
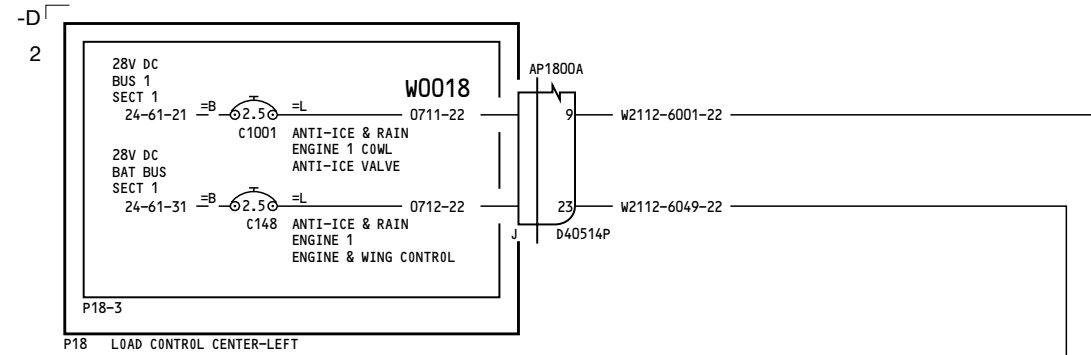
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ALL

## ENGINE 1 NACELLE ANTI-ICE

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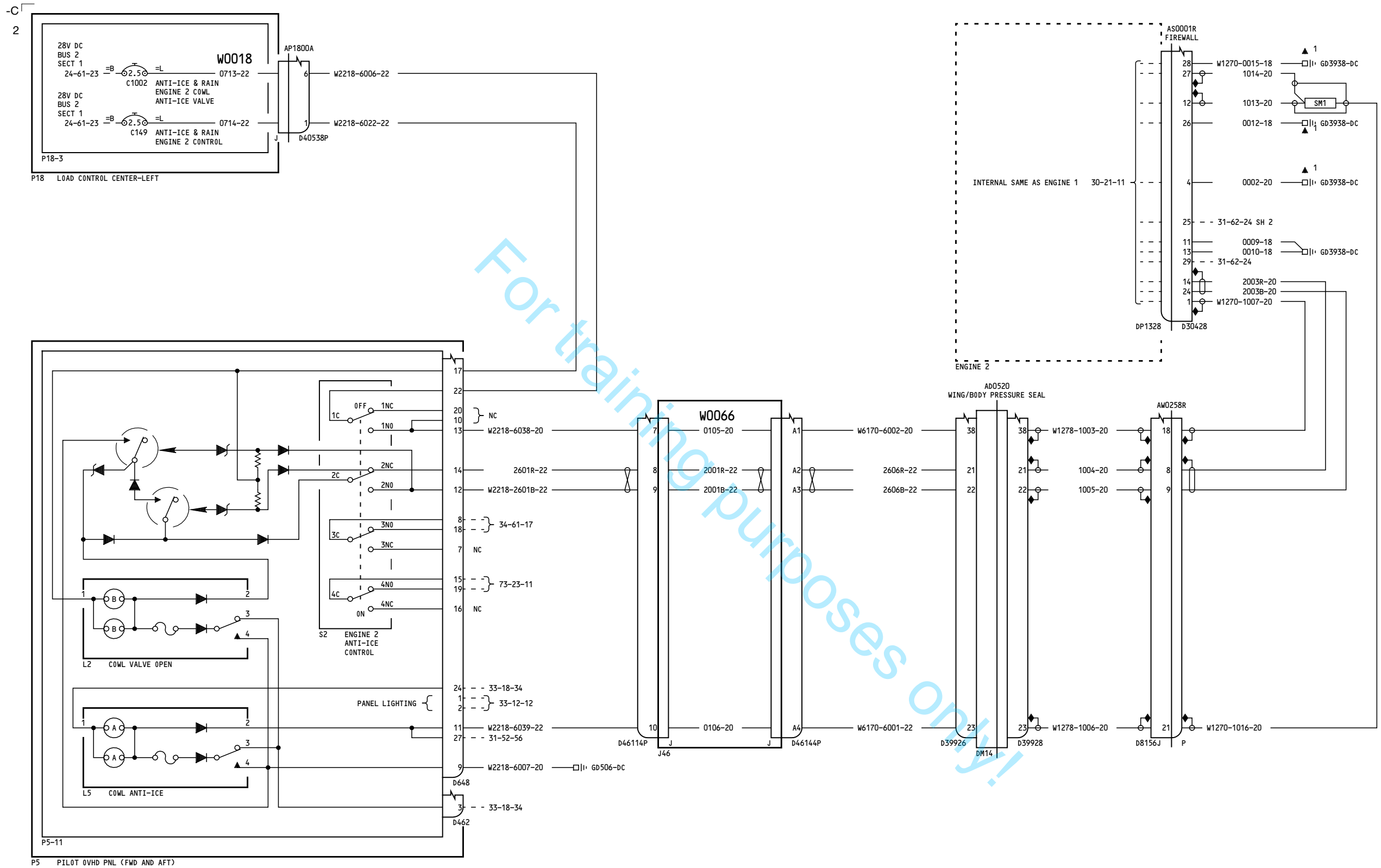
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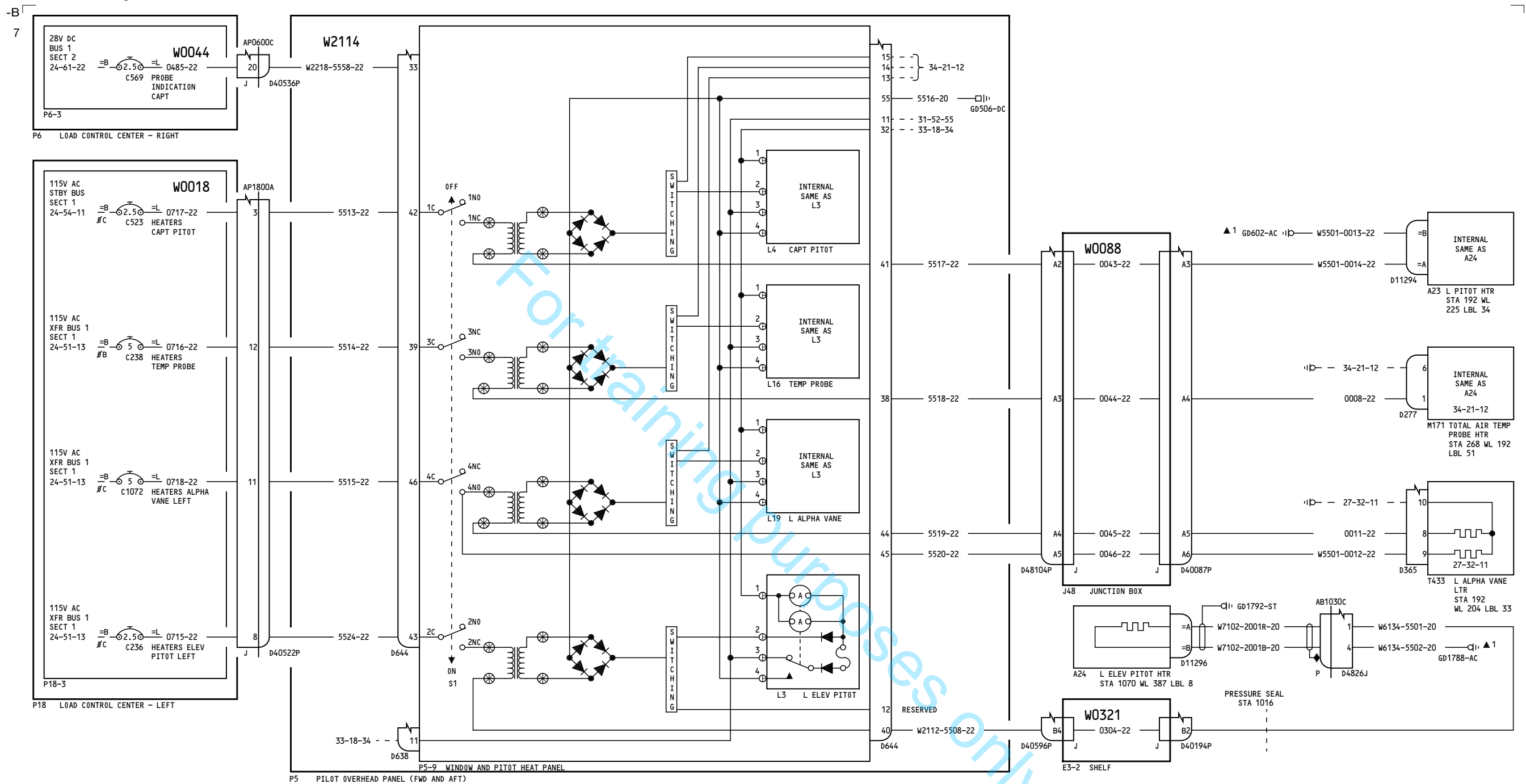
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YC051-YL967, YN231-YN235

**PITOT AND PROBE HEATERS -  
SYSTEM A**

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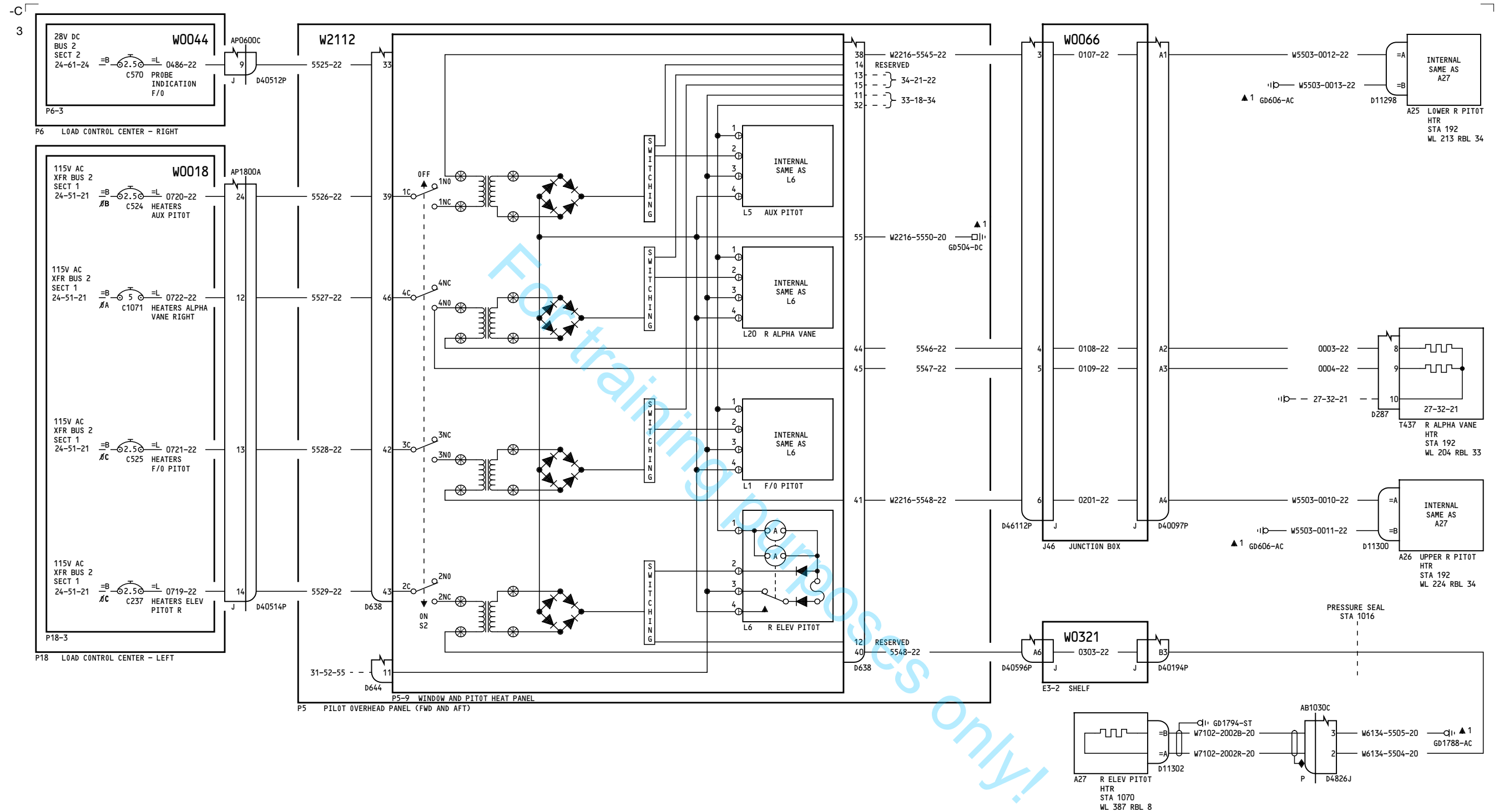
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YC051-YC052

## PITOT AND PROBE HEATERS - SYSTEM B

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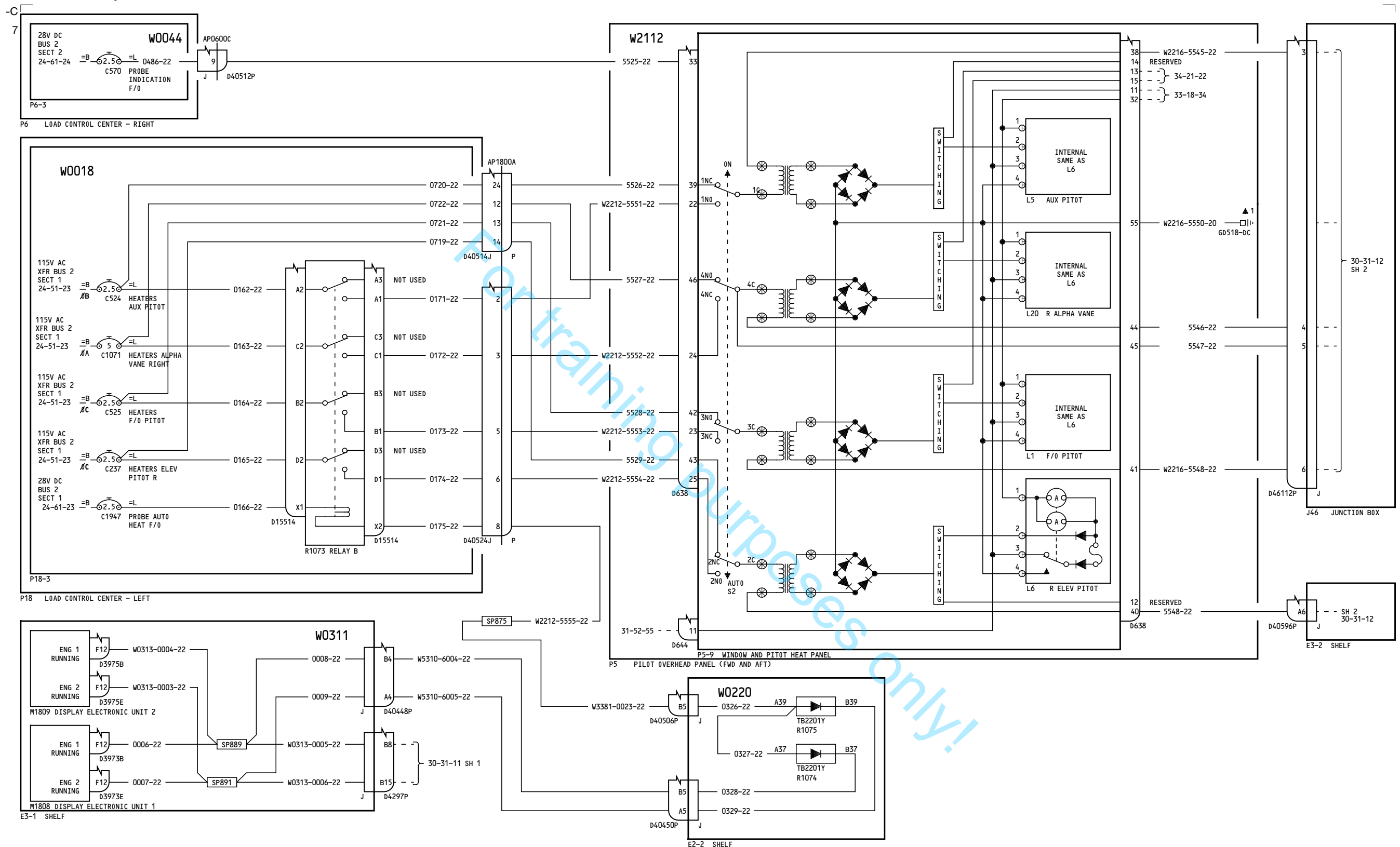
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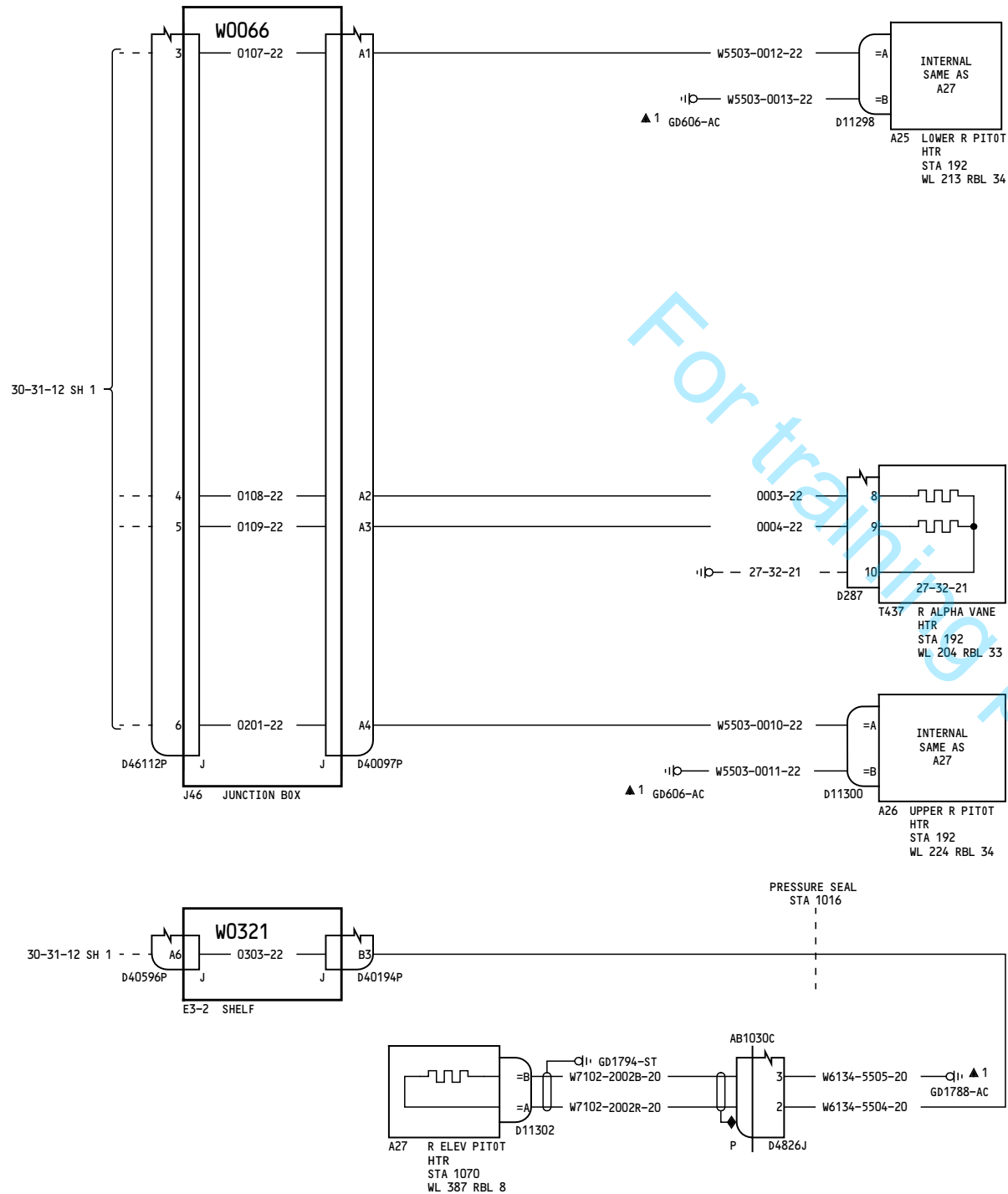
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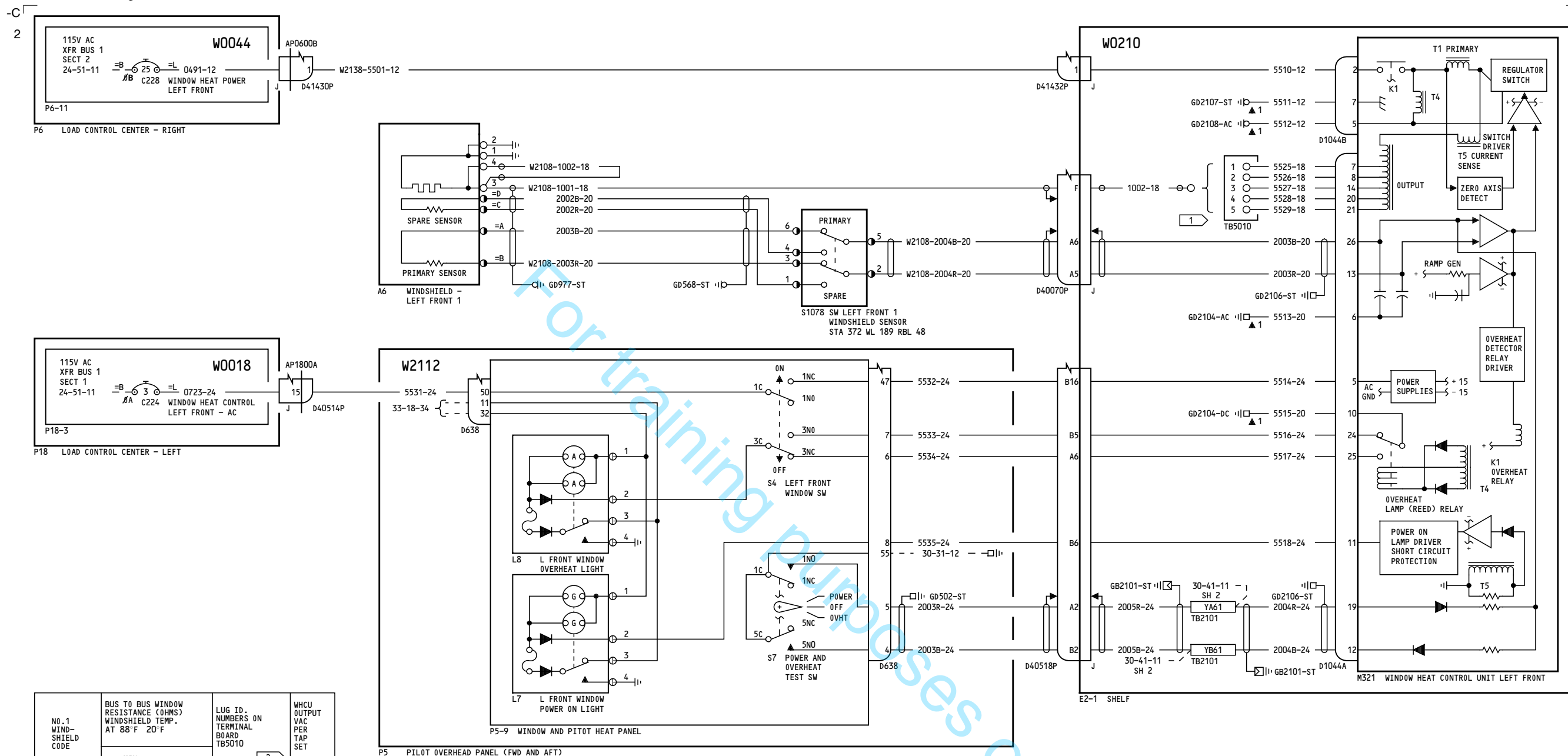
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NO. 1 WIND- SHIELD CODE	BUS TO BUS WINDOW RESISTANCE (OHMS) WINDSHIELD TEMP. AT 88°F 20°F		LUG ID. NUMBERS ON TERMINAL BOARD TB5010	WHCU OUTPUT VAC PER TAP SET
	MIN	MAX		
NEW { H13 H12 H11	31.4	35.1	1	271
	35.1	38.8	2	285
	38.8	42.6	3	300
OLD {	42.6	47.3	4	315
	47.3	52.0	5	331

TABLE 1 (WINDOW RESISTANCE HOOK-UP TABLE)

NOTES:

- 1 SEE TABLE 1. HOOKUP DETERMINED BY WINDOW RESISTANCE
- 2 USE WINDSHIELD CODE AND RESISTANCE VALUES FOR OLD (USED) AND NEW WINDSHIELDS TO DETERMINE TERMINAL CONNECTIONS.

YC051-YC052

WINDSHIELD HEAT SYSTEM -  
L. FRONT, R. SIDE AND  
OPTIONAL L3 WINDOW

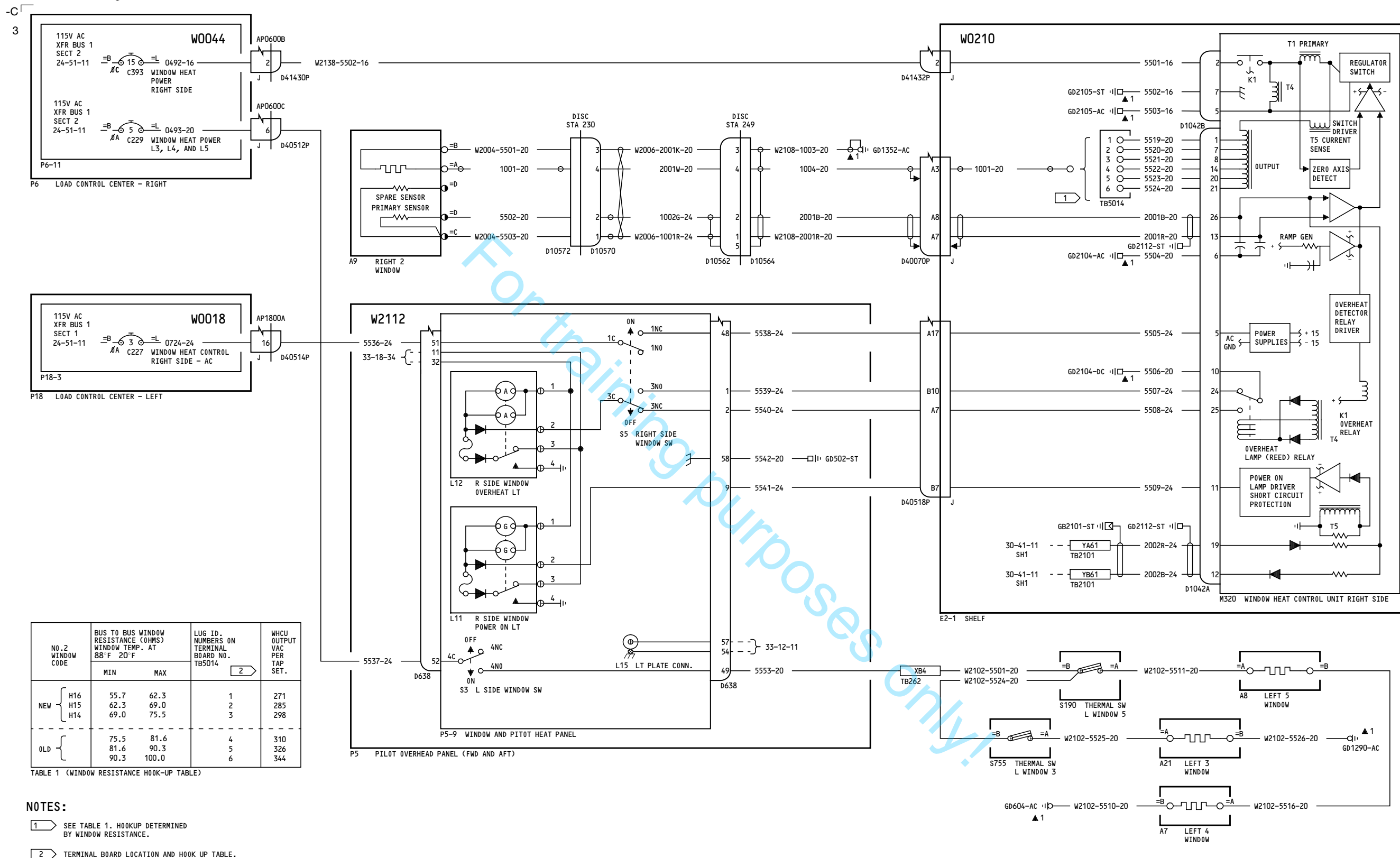
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YC051-YC052

**WINDSHIELD HEAT SYSTEM -  
L. FRONT, R. SIDE AND  
OPTIONAL L3 WINDOW**

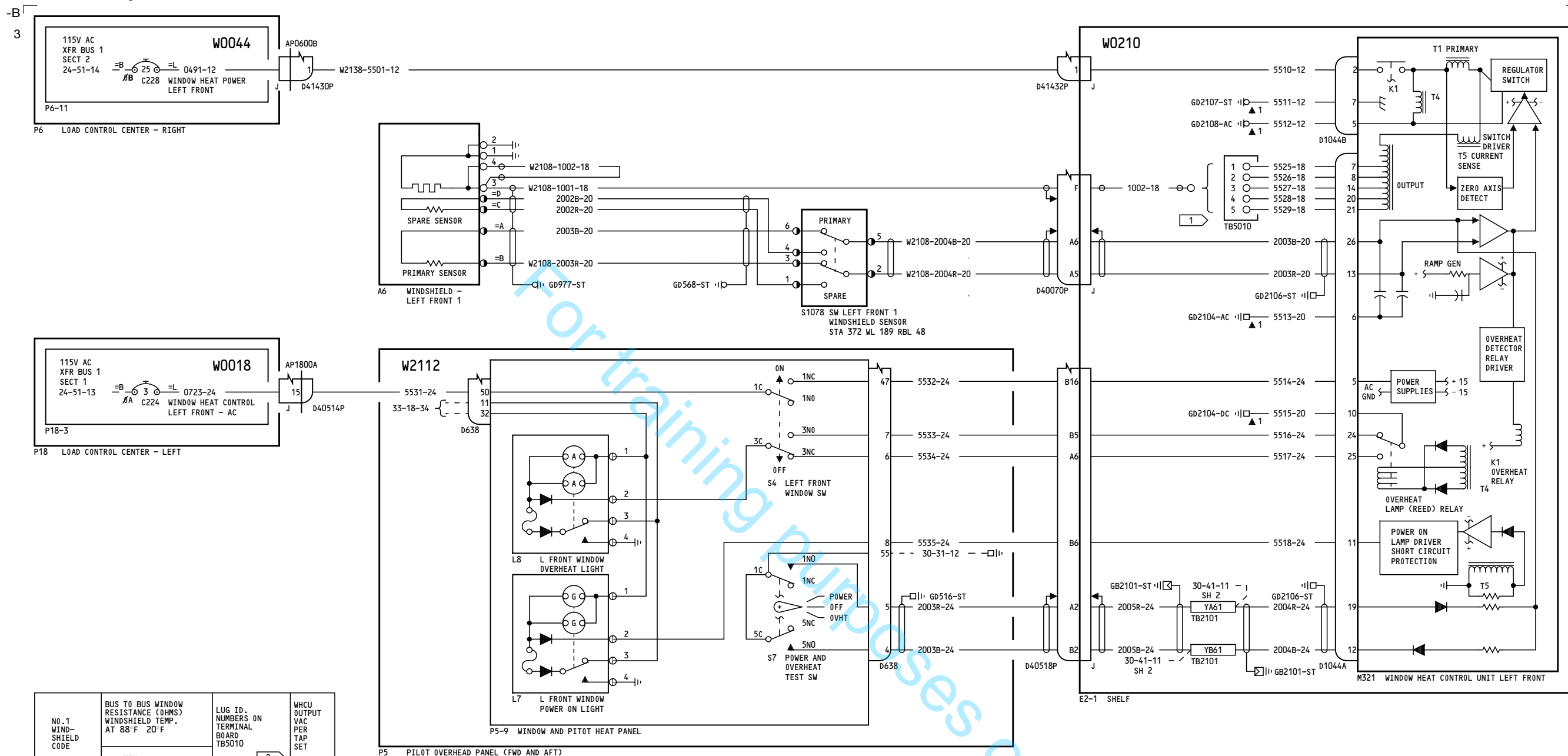
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NO. 1 WINDSHIELD CODE	BUS TO BUS WINDOW RESISTANCE (OHMS) WINDSHIELD TEMP. AT 88°F 20°F		LUG ID. NUMBERS ON TERMINAL BOARD TB5010	WHCU OUTPUT VAC PER TAP SET
	MIN	MAX		
NEW { H13 H12 H11	31.4	35.1	1	271
	35.1	38.8	2	285
	38.8	42.6	3	300
OLD {	42.6	47.3	4	315
	47.3	52.0	5	331

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- 1 SEE TABLE 1. HOOKUP DETERMINED BY WINDOW RESISTANCE
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YC053-YC055

WINDSHIELD HEAT SYSTEM -  
L. FRONT, R. SIDE AND  
OPTIONAL L3 WINDOW

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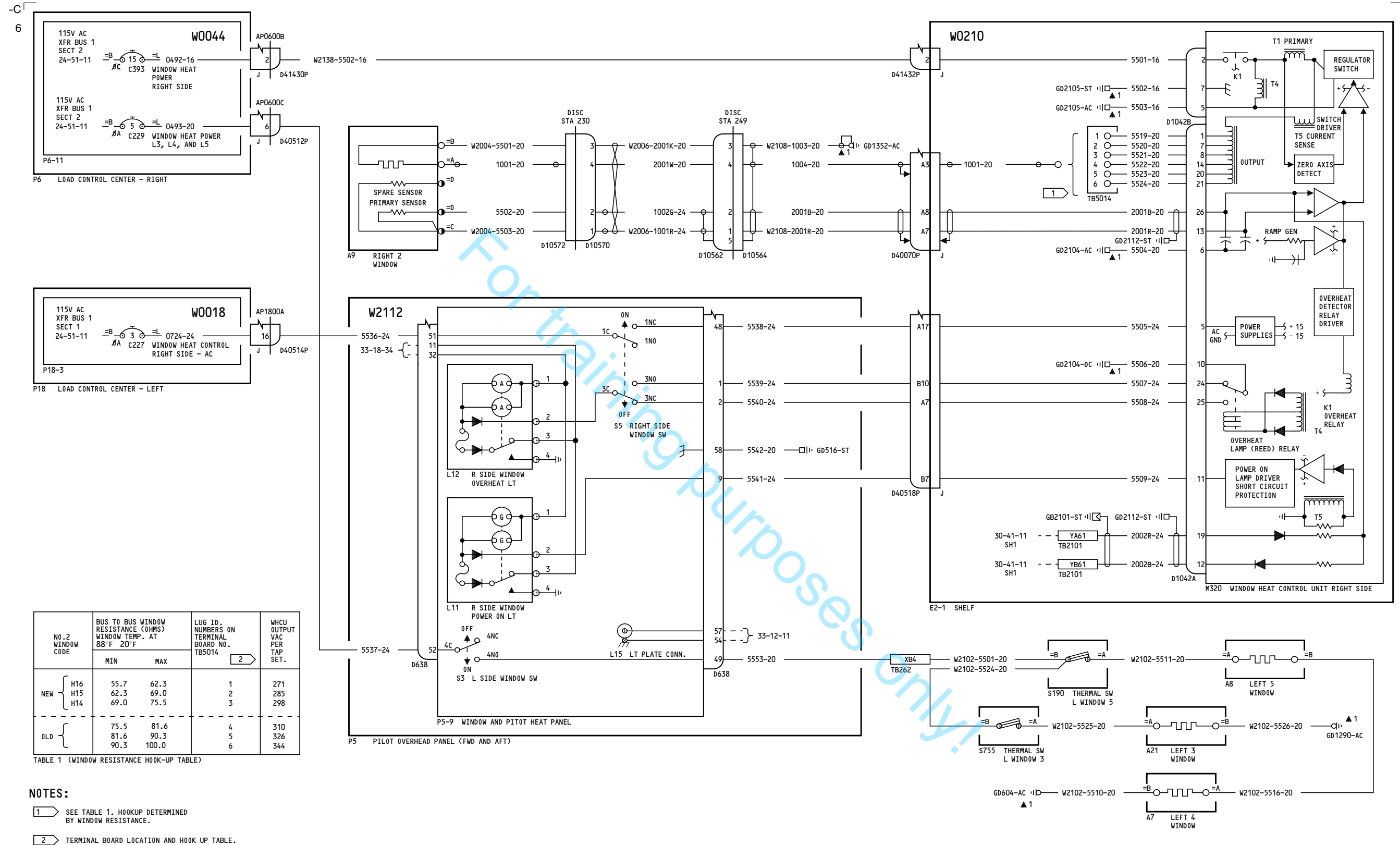
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NO.2 WINDOW CODE	BUS TO BUS WINDOW RESISTANCE (OHMS) WINDOW TEMP. AT 88°F 20°F		LUG ID. NUMBERS ON TERMINAL BOARD NO. TB5014	WHCU OUTPUT VAC PER TAP SET.
	MIN	MAX		
NEW { H16 H15 H14	55.7	62.3	1	271
	62.3	69.0	2	285
	69.0	75.5	3	298
OLD {	75.5	81.6	4	310
	81.6	90.3	5	326
	90.3	100.0	6	344

TABLE 1 (WINDOW RESISTANCE HOOK-UP TABLE)

NOTES:

- 1 SEE TABLE 1. HOOKUP DETERMINED BY WINDOW RESISTANCE.
- 2 TERMINAL BOARD LOCATION AND HOOK UP TABLE.

YC053-YC055

**WINDSHIELD HEAT SYSTEM -  
L. FRONT, R. SIDE AND  
OPTIONAL L3 WINDOW**

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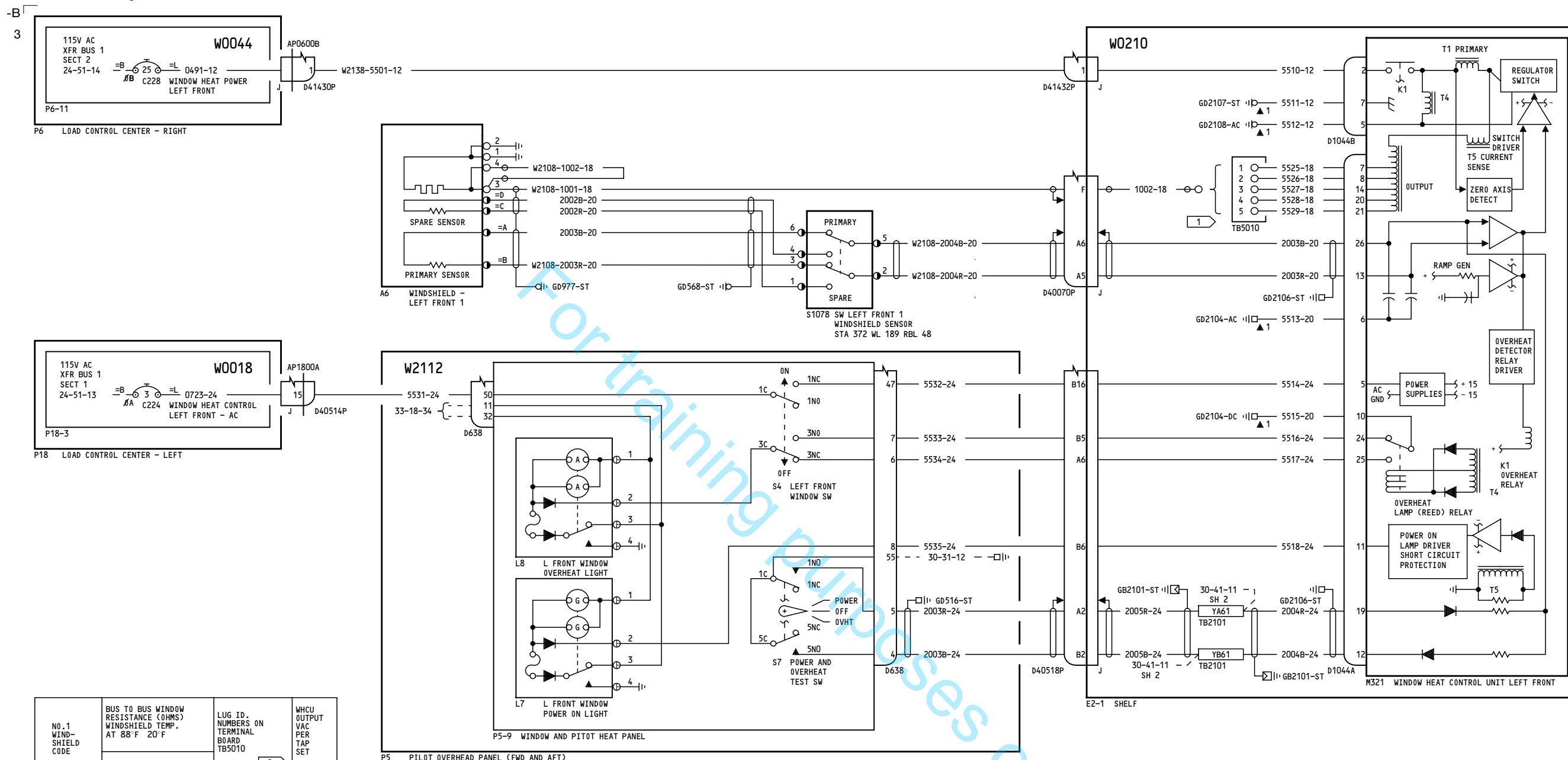
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NO. 1 WINDSHIELD CODE	BUS TO BUS WINDOW RESISTANCE (OHMS) WINDSHIELD TEMP. AT 88°F 20°F		LUG ID. NUMBERS ON TERMINAL BOARD TB5010	WHCU OUTPUT VAC PER TAP SET
	MIN	MAX		
NEW { H13 H12 H11	31.4	35.1	1	271
	35.1	38.8	2	285
	38.8	42.6	3	300
OLD {	42.6	47.3	4	315
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- 1 SEE TABLE 1. HOOKUP DETERMINED BY WINDOW RESISTANCE
- 2 USE WINDSHIELD CODE AND RESISTANCE VALUES FOR OLD (USED) AND NEW WINDSHIELDS TO DETERMINE TERMINAL CONNECTIONS.

YC056-YD158

WINDSHIELD HEAT SYSTEM -  
L. FRONT, R. SIDE AND  
OPTIONAL L3 WINDOW

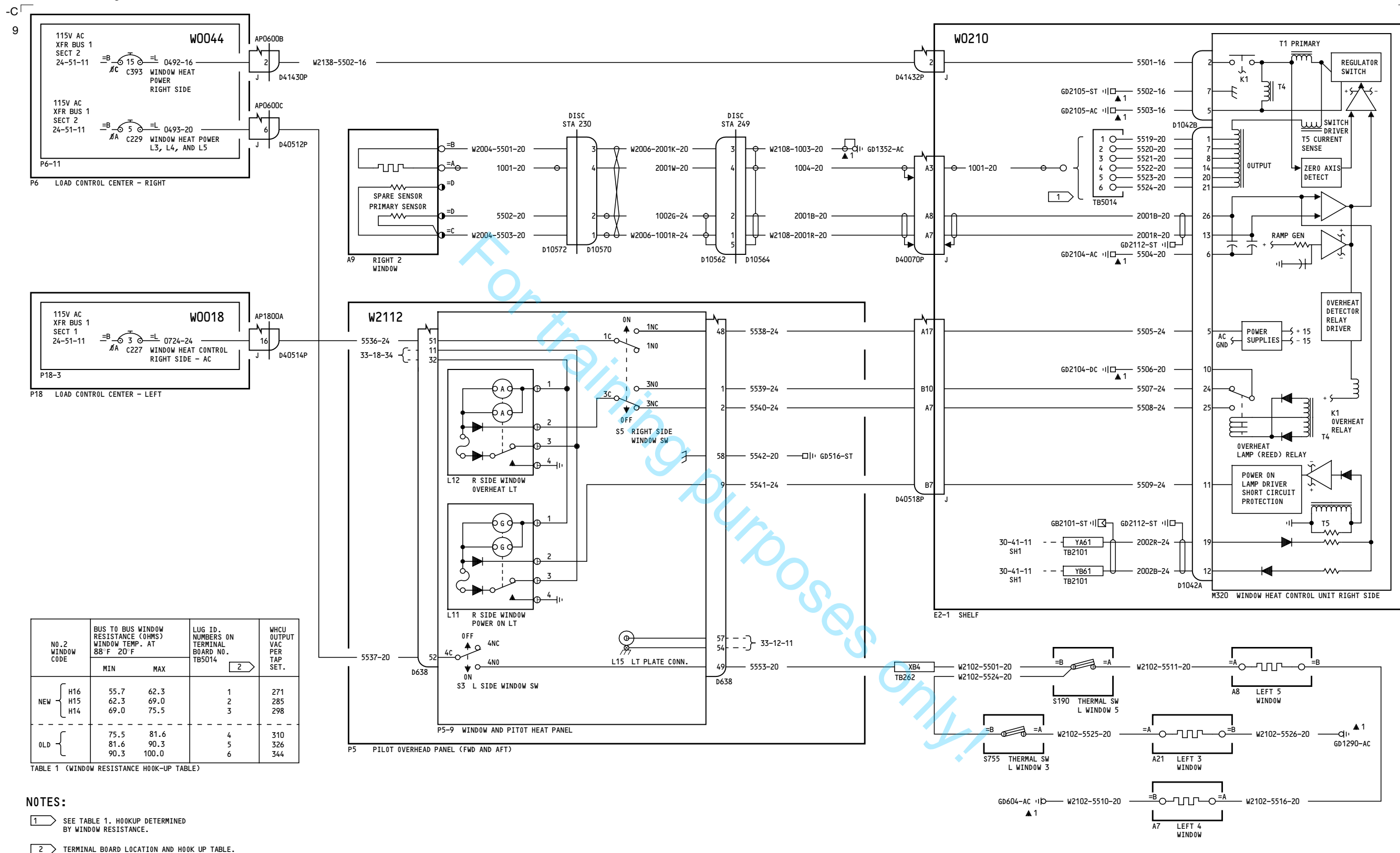
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NO. 2 WINDOW CODE	BUS TO BUS WINDOW RESISTANCE (OHMS) WINDOW TEMP. AT 88° F 20° F		LUG ID. NUMBERS ON TERMINAL BOARD NO. TB5014	WHCU OUTPUT VAC PER TAP SET.
	MIN	MAX		
NEW	H16	55.7 62.3	1	271
	H15	62.3 69.0	2	285
	H14	69.0 75.5	3	298
OLD		75.5 81.6	4	310
		81.6 90.3	5	326
		90.3 100.0	6	344

TABLE 1 (WINDOW RESISTANCE HOOK-UP TABLE)

NOTES:

- SEE TABLE 1. HOOKUP DETERMINED BY WINDOW RESISTANCE.
- TERMINAL BOARD LOCATION AND HOOK UP TABLE.

YC056-YD158

WINDSHIELD HEAT SYSTEM -  
L. FRONT, R. SIDE AND  
OPTIONAL L3 WINDOW

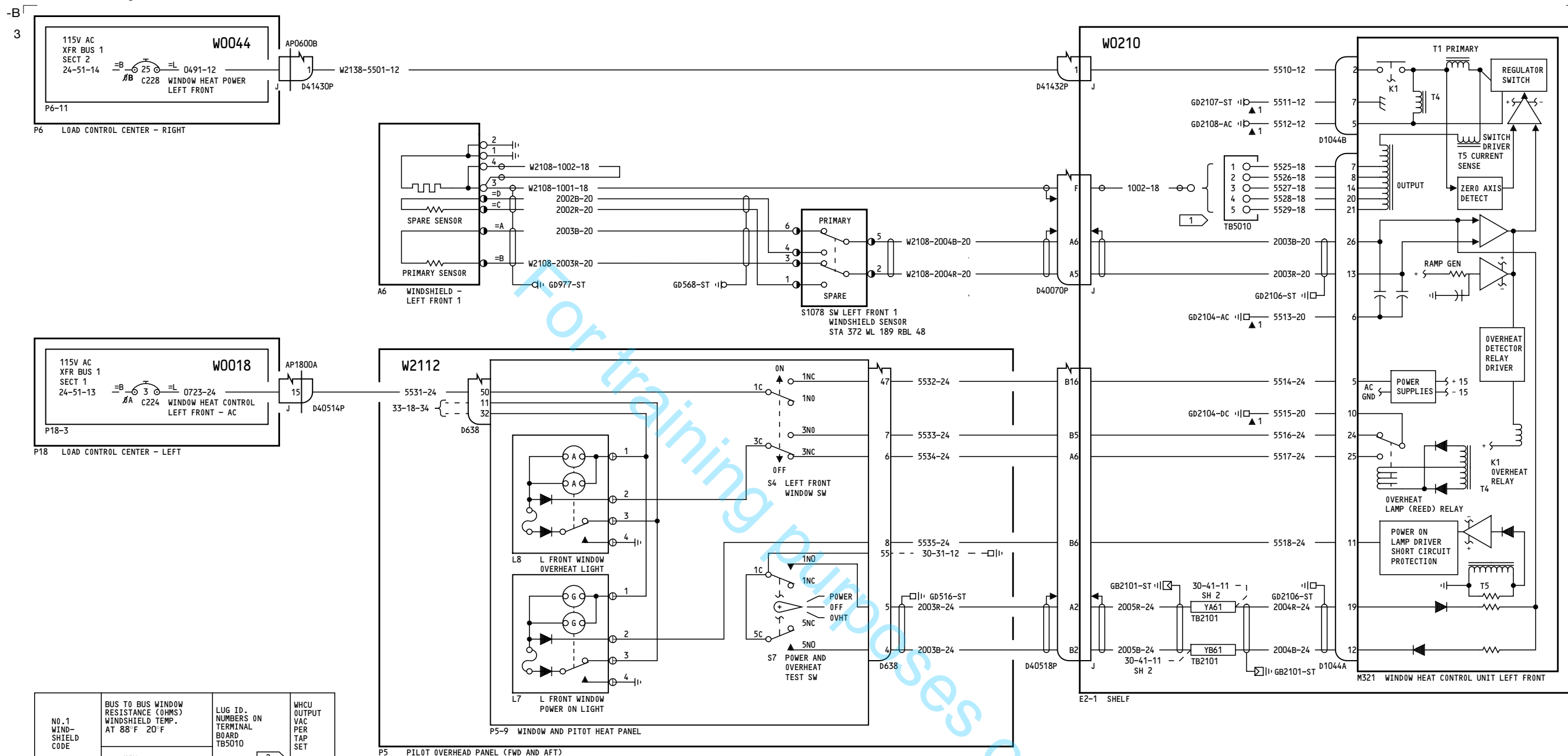
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## NOTES:

- 1 SEE TABLE 1. HOOKUP DETERMINED BY WINDOW RESISTANCE
- 2 USE WINDSHIELD CODE AND RESISTANCE VALUES FOR OLD (USED) AND NEW WINDSHIELDS TO DETERMINE TERMINAL CONNECTIONS.

YL951-YL968, YN231-YN236, YN501-YR309

**WINDSHIELD HEAT SYSTEM -  
L. FRONT, R. SIDE AND  
OPTIONAL L3 WINDOW**

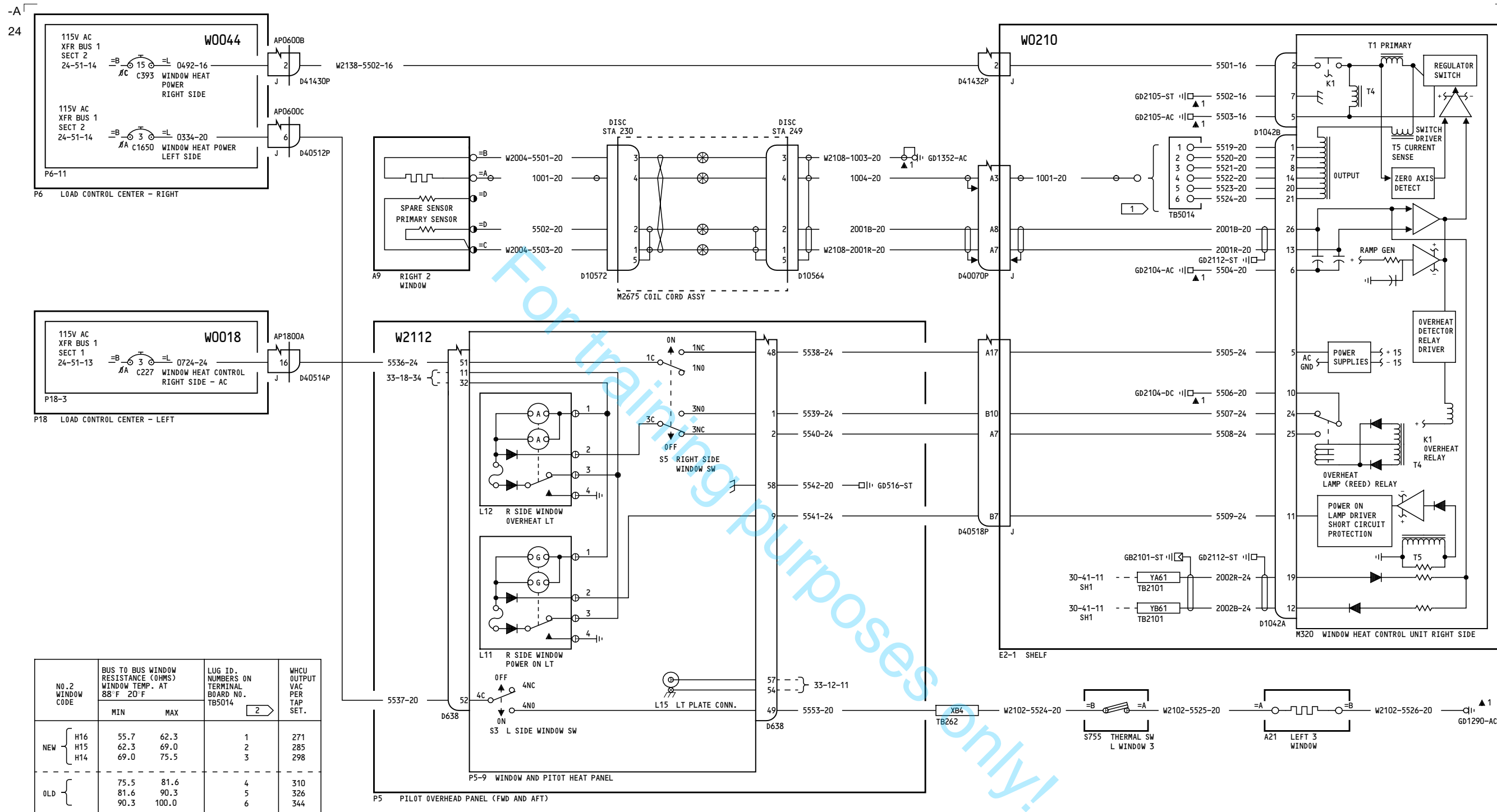
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NOTES:

- 1 SEE TABLE 1. HOOKUP DETERMINED BY WINDOW RESISTANCE.
- 2 TERMINAL BOARD LOCATION AND HOOK UP TABLE.

YL951-YL968, YN231-YN236, YN501-YR309

**WINDSHIELD HEAT SYSTEM -  
L. FRONT, R. SIDE AND  
OPTIONAL L3 WINDOW**

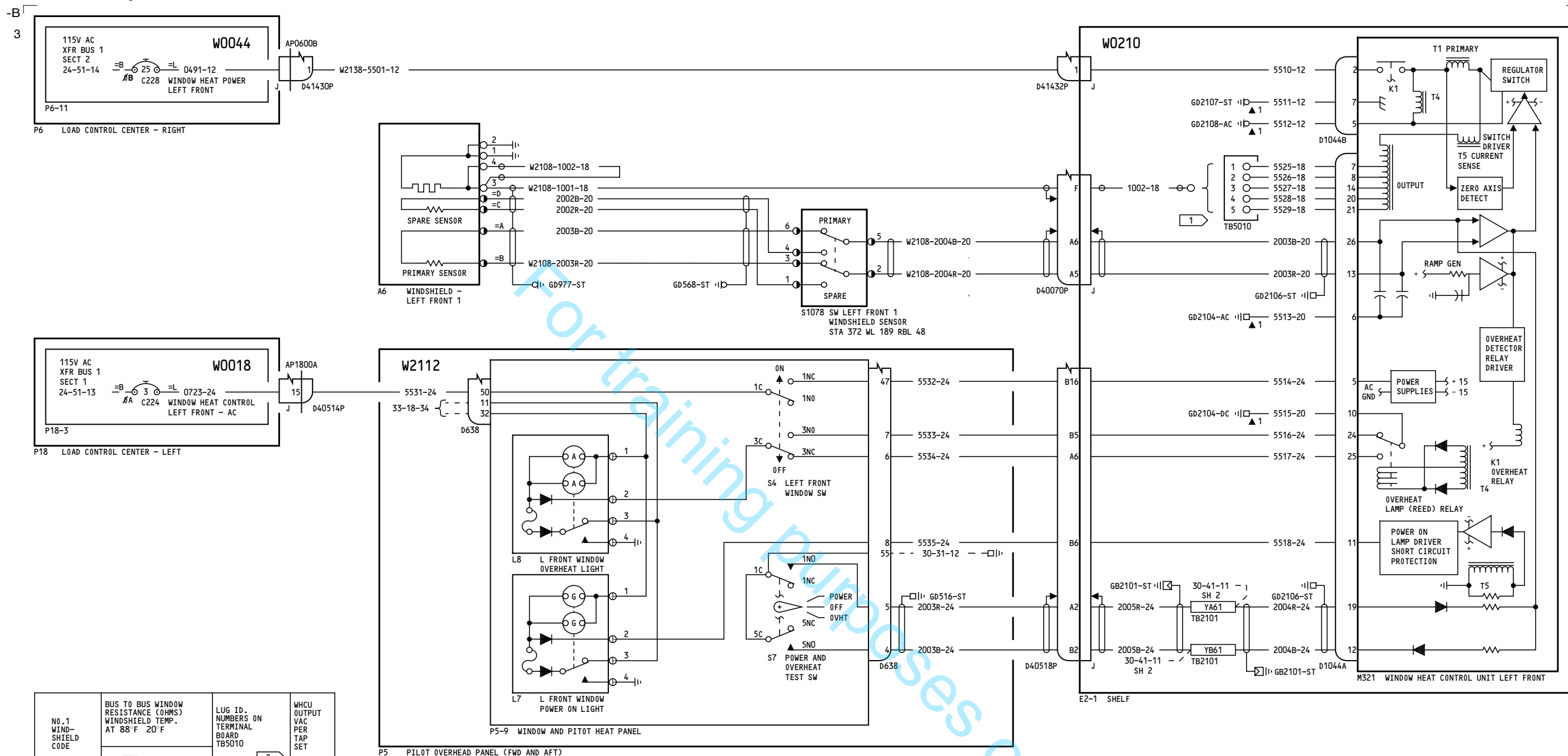
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NO. 1 WINDSHIELD CODE	BUS TO BUS WINDOW RESISTANCE (OHMS) WINDSHIELD TEMP. AT 88°F 20°F		LUG ID. NUMBERS ON TERMINAL BOARD TB5010	WHCU OUTPUT VAC PER TAP SET
	MIN	MAX		
NEW { H13 H12 H11	31.4	35.1	1	271
	35.1	38.8	2	285
	38.8	42.6	3	300
OLD {	42.6	47.3	4	315
	47.3	52.0	5	331

TABLE 1 (WINDOW RESISTANCE HOOK-UP TABLE)

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- 1 SEE TABLE 1. HOOKUP DETERMINED BY WINDOW RESISTANCE
- 2 USE WINDSHIELD CODE AND RESISTANCE VALUES FOR OLD (USED) AND NEW WINDSHIELDS TO DETERMINE TERMINAL CONNECTIONS.

YL969-YL999, YN237-YN260, YR312-YR328

WINDSHIELD HEAT SYSTEM -  
L. FRONT, R. SIDE AND  
OPTIONAL L3 WINDOW

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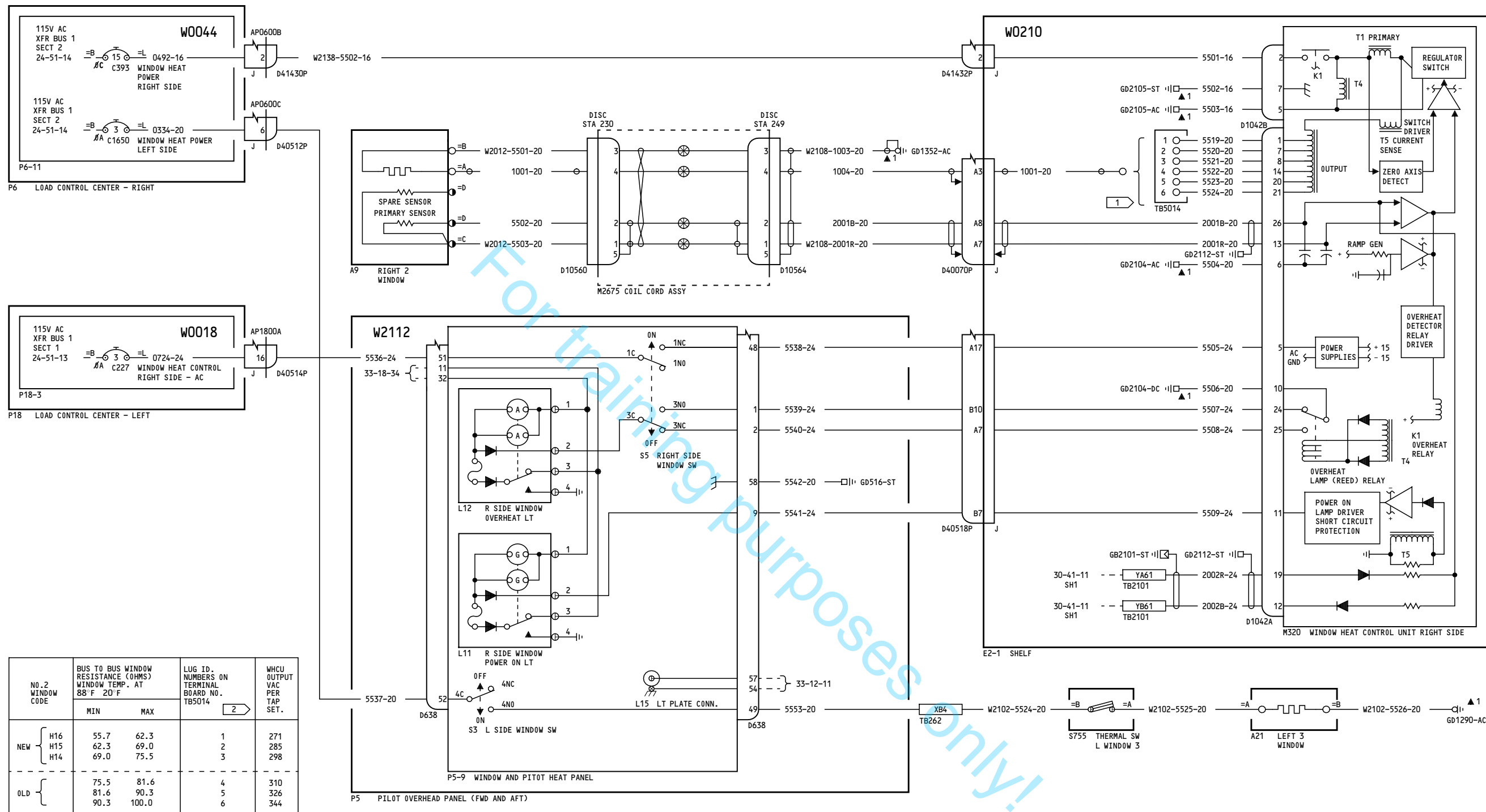
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YL969-YL999, YN237-YN260, YR312-YR328

**WINDSHIELD HEAT SYSTEM -  
L. FRONT, R. SIDE AND  
OPTIONAL L3 WINDOW**

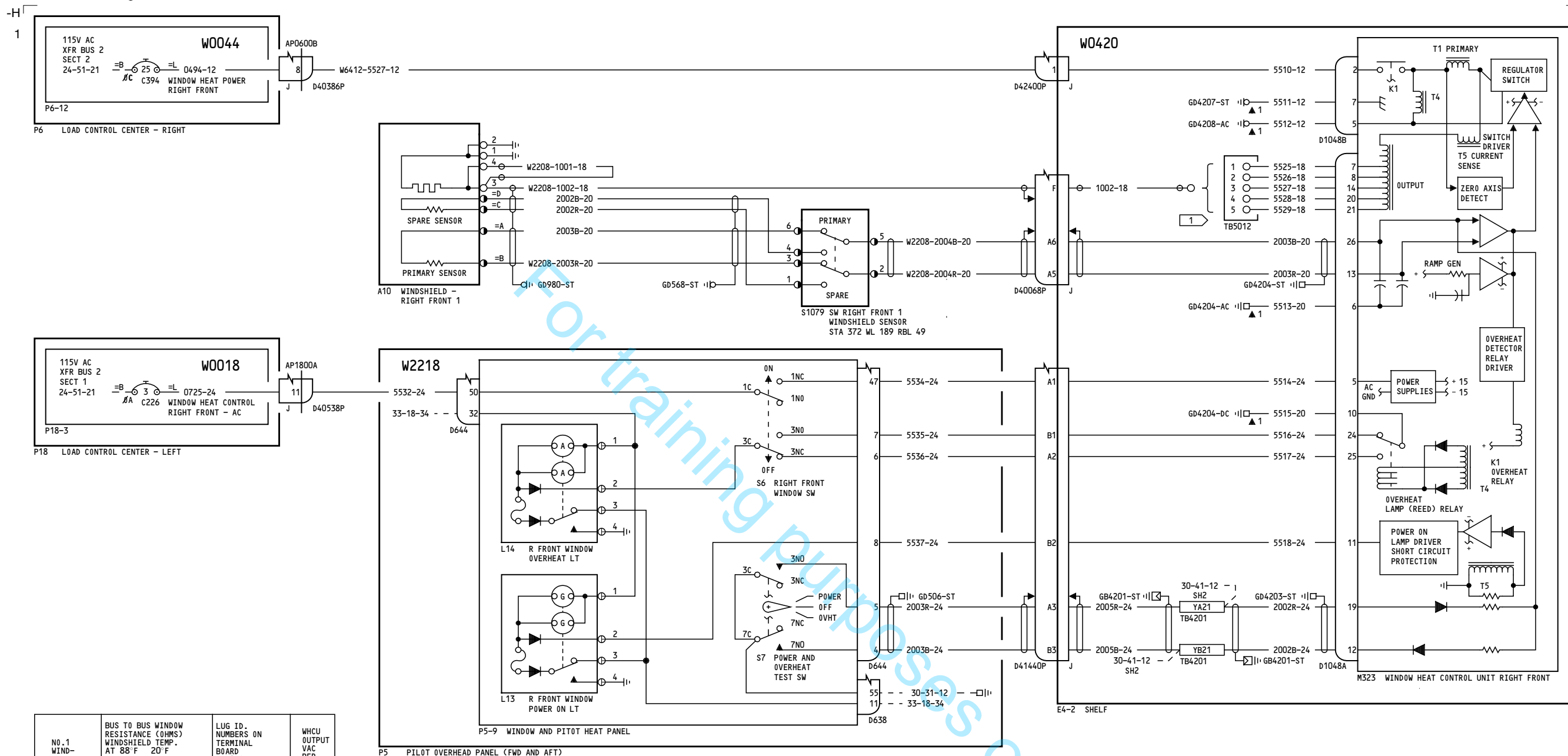
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NO. 1 WINDSHIELD CODE	BUS TO BUS WINDOW RESISTANCE (OHMS) WINDSHIELD TEMP. AT 88°F 20°F		LUG ID. NUMBERS ON TERMINAL BOARD TB5012	WHCU OUTPUT VAC PER TAP SET
	MIN	MAX		
NEW { H13 H12 H11	31.4	35.1	1	271
	35.1	38.8	2	285
	38.8	42.6	3	300
OLD {	42.6	47.3	4	315
	47.3	52.0	5	331

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- 1 SEE TABLE 1. HOOKUP DETERMINED BY WINDOW RESISTANCE.
- 2 USE WINDSHIELD CODE AND RESISTANCE VALUES FOR OLD (USED) AND NEW WINDSHIELDS TO DETERMINE TERMINAL CONNECTIONS.

YC051-YC057

WINDSHIELD HEAT SYSTEM -  
R. FRONT, L. SIDE AND  
OPTIONAL R3 WINDOW

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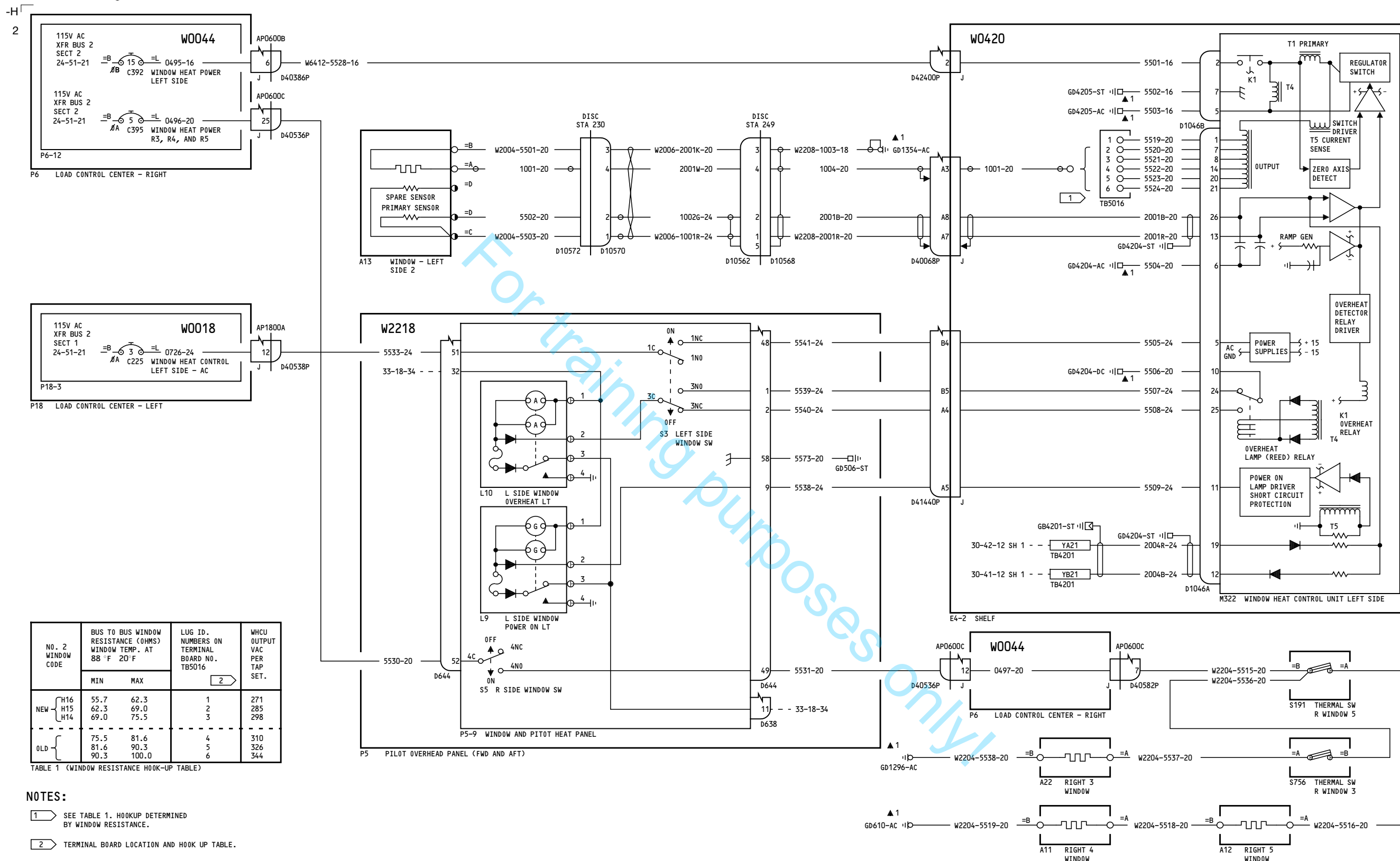
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YC051-YC057

**WINDSHIELD HEAT SYSTEM -  
R. FRONT, L. SIDE AND  
OPTIONAL R3 WINDOW**

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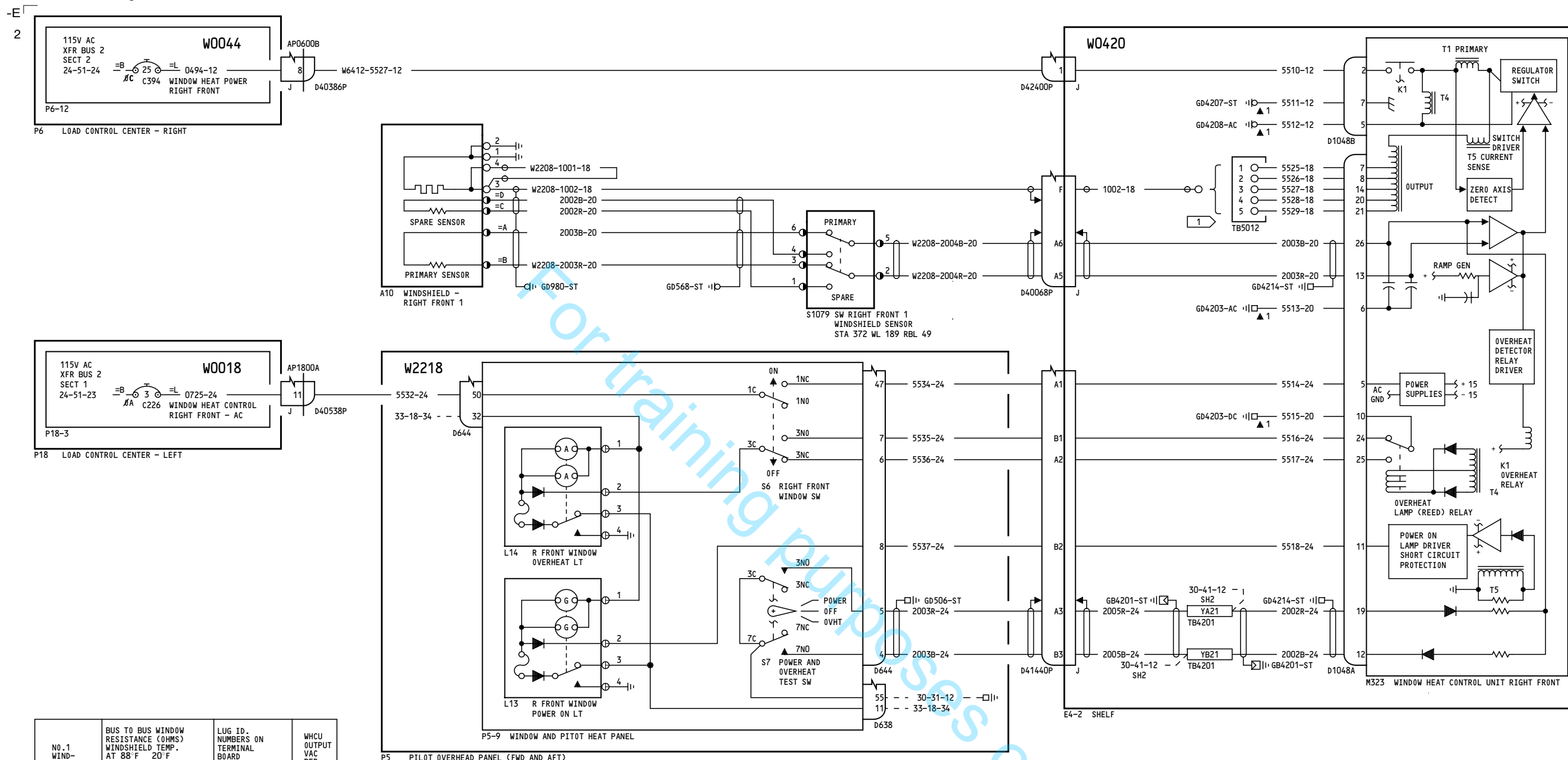
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Feb 09/2009

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Feb 09/2009





NO. 1 WIND- SHIELD CODE	BUS TO BUS WINDOW RESISTANCE (OHMS) WINDSHIELD TEMP. AT 88°F 20°F		LUG ID. NUMBERS ON TERMINAL BOARD TB5012	WHCU OUTPUT VAC PER TAP SET
	MIN	MAX		
NEW { H13 H12 H11	31.4	35.1	1	271
	35.1	38.8	2	285
	38.8	42.6	3	300
OLD {	42.6	47.3	4	315
	47.3	52.0	5	331

TABLE 1 (WINDOW RESISTANCE HOOK-UP TABLE)

NOTES:

- 1 SEE TABLE 1. HOOKUP DETERMINED BY WINDOW RESISTANCE.
- 2 USE WINDSHIELD CODE AND RESISTANCE VALUES FOR OLD (USED) AND NEW WINDSHIELDS TO DETERMINE TERMINAL CONNECTIONS.

YC058-YD158

WINDSHIELD HEAT SYSTEM -  
R. FRONT, L. SIDE AND  
OPTIONAL R3 WINDOW

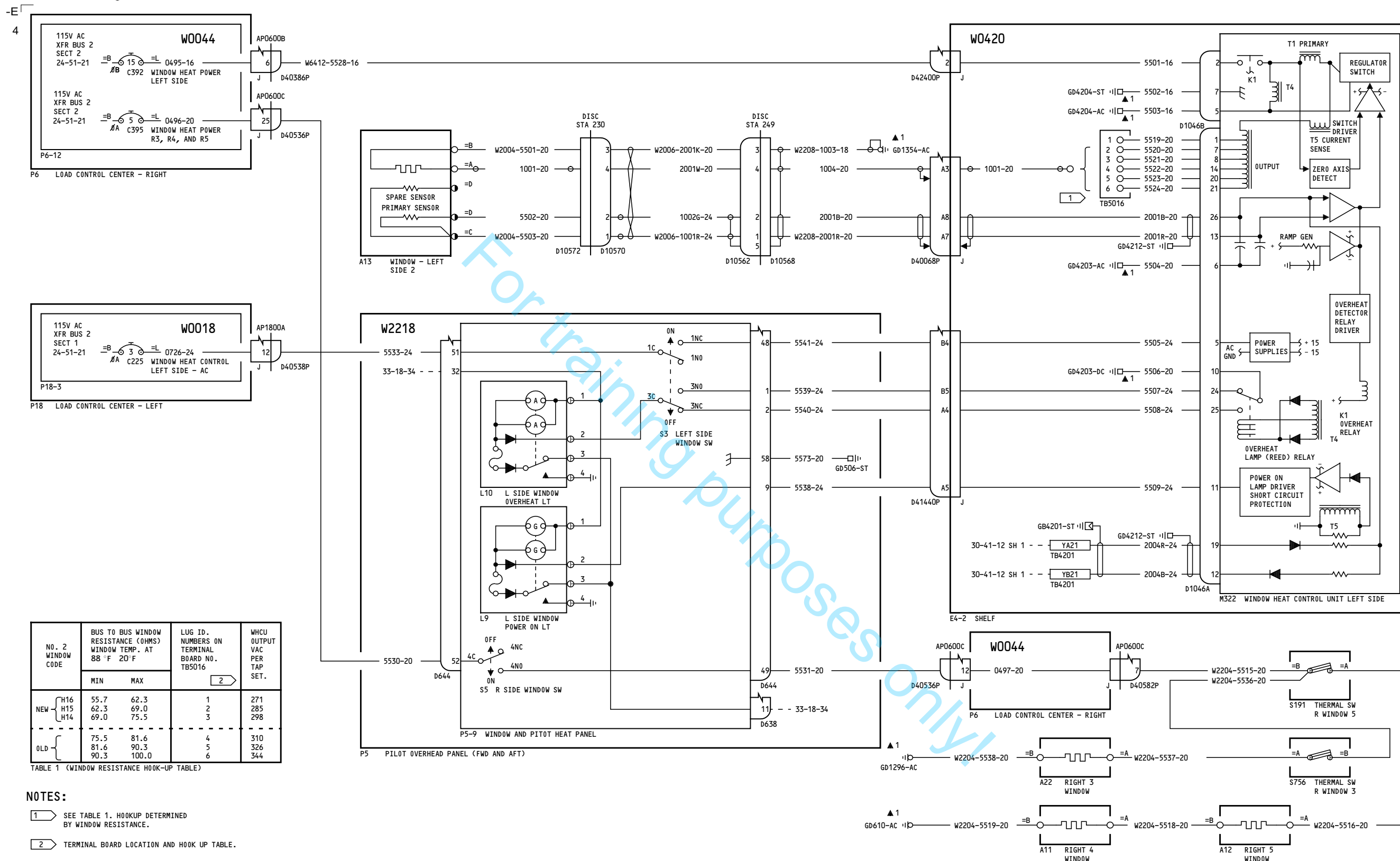
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YC058-YD158

WINDSHIELD HEAT SYSTEM -  
R. FRONT, L. SIDE AND  
OPTIONAL R3 WINDOW

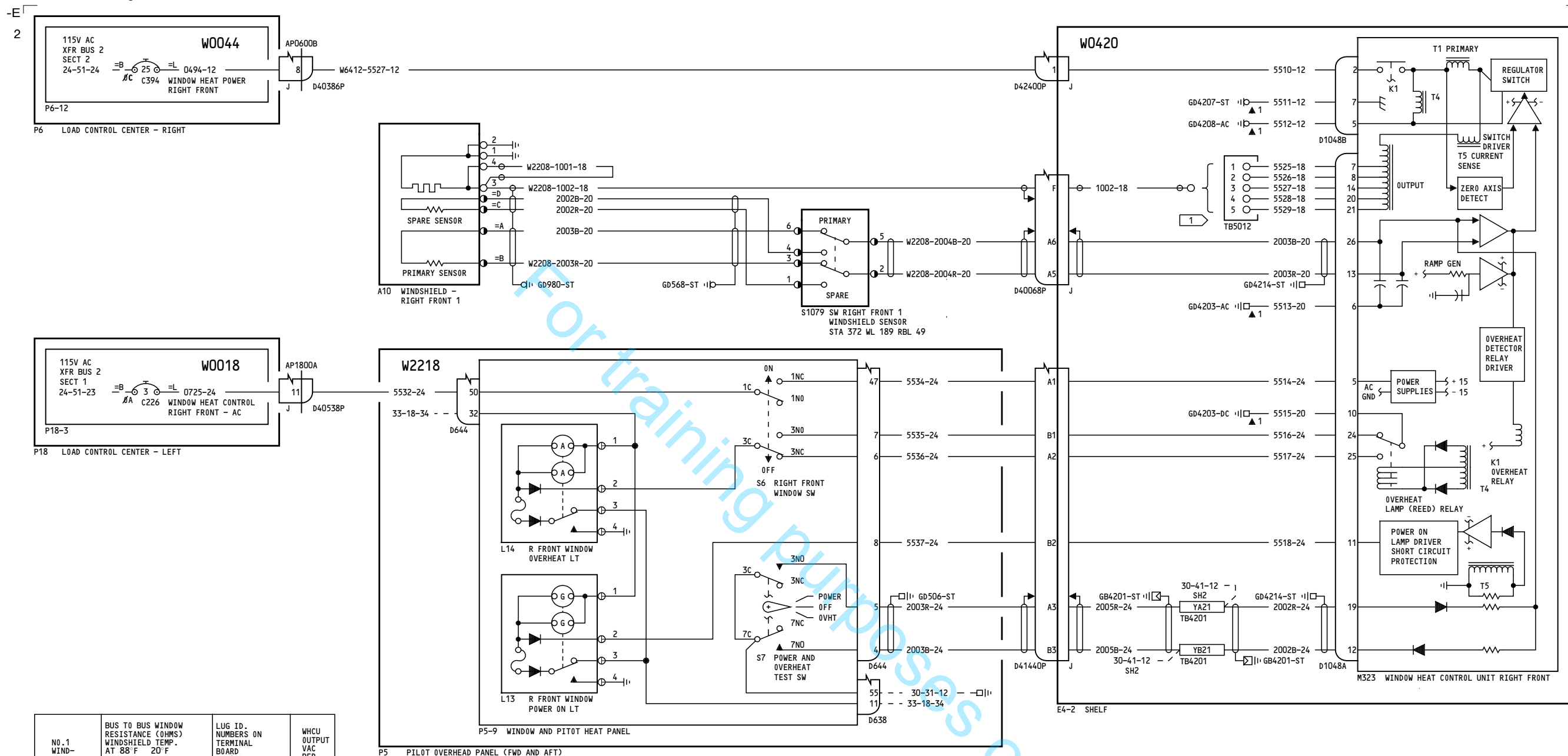
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NO. 1 WIND- SHIELD CODE	BUS TO BUS WINDOW RESISTANCE (OHMS) WINDSHIELD TEMP. AT 88°F 20°F		LUG ID. NUMBERS ON TERMINAL BOARD TB5012	WHCU OUTPUT VAC PER TAP SET
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	35.1	38.8	2	285
	38.8	42.6	3	300
OLD {	42.6	47.3	4	315
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TABLE 1 (WINDOW RESISTANCE HOOK-UP TABLE)

NOTES:

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- 2 USE WINDSHIELD CODE AND RESISTANCE VALUES FOR OLD (USED) AND NEW WINDSHIELDS TO DETERMINE TERMINAL CONNECTIONS.

YL951-YR328

WINDSHIELD HEAT SYSTEM -  
R. FRONT, L. SIDE AND  
OPTIONAL R3 WINDOW

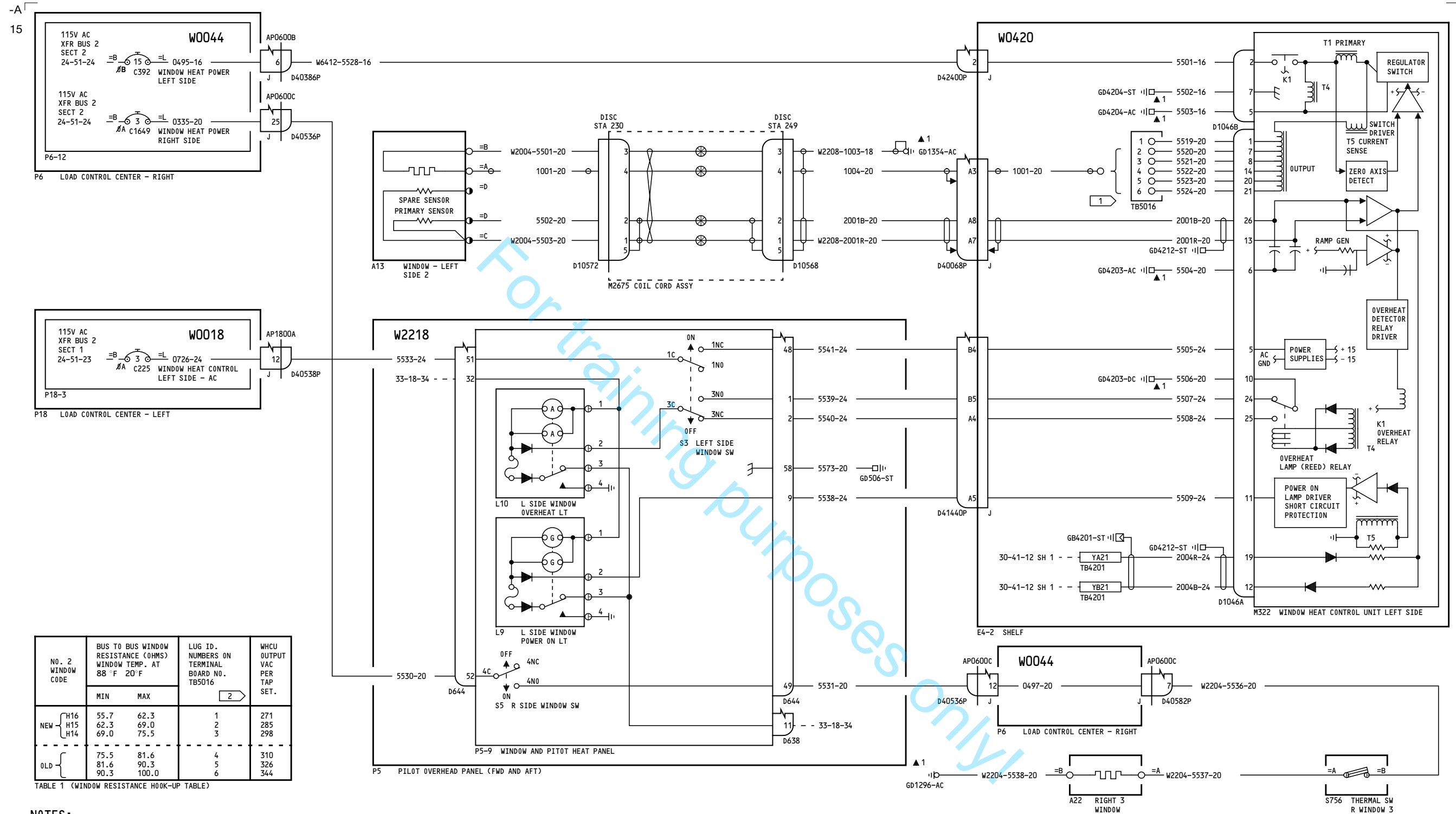
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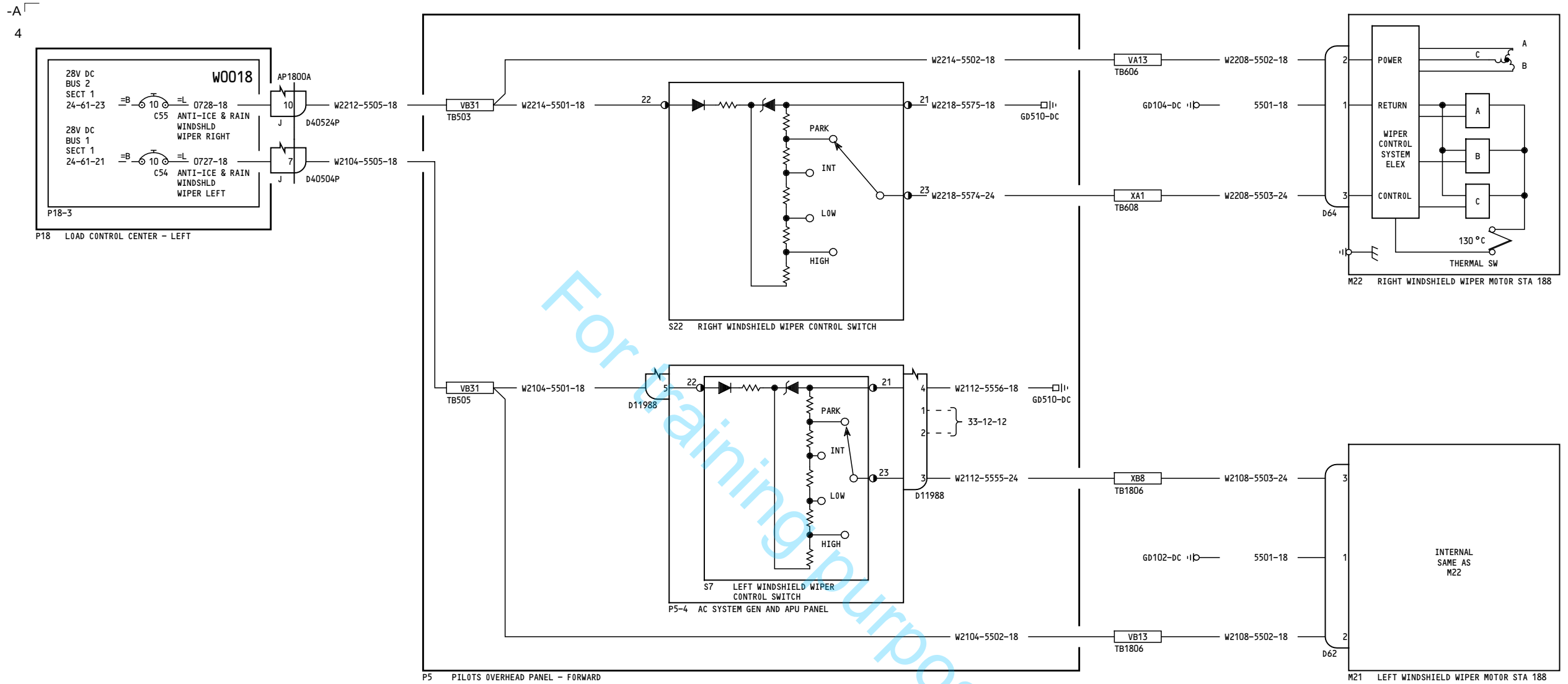
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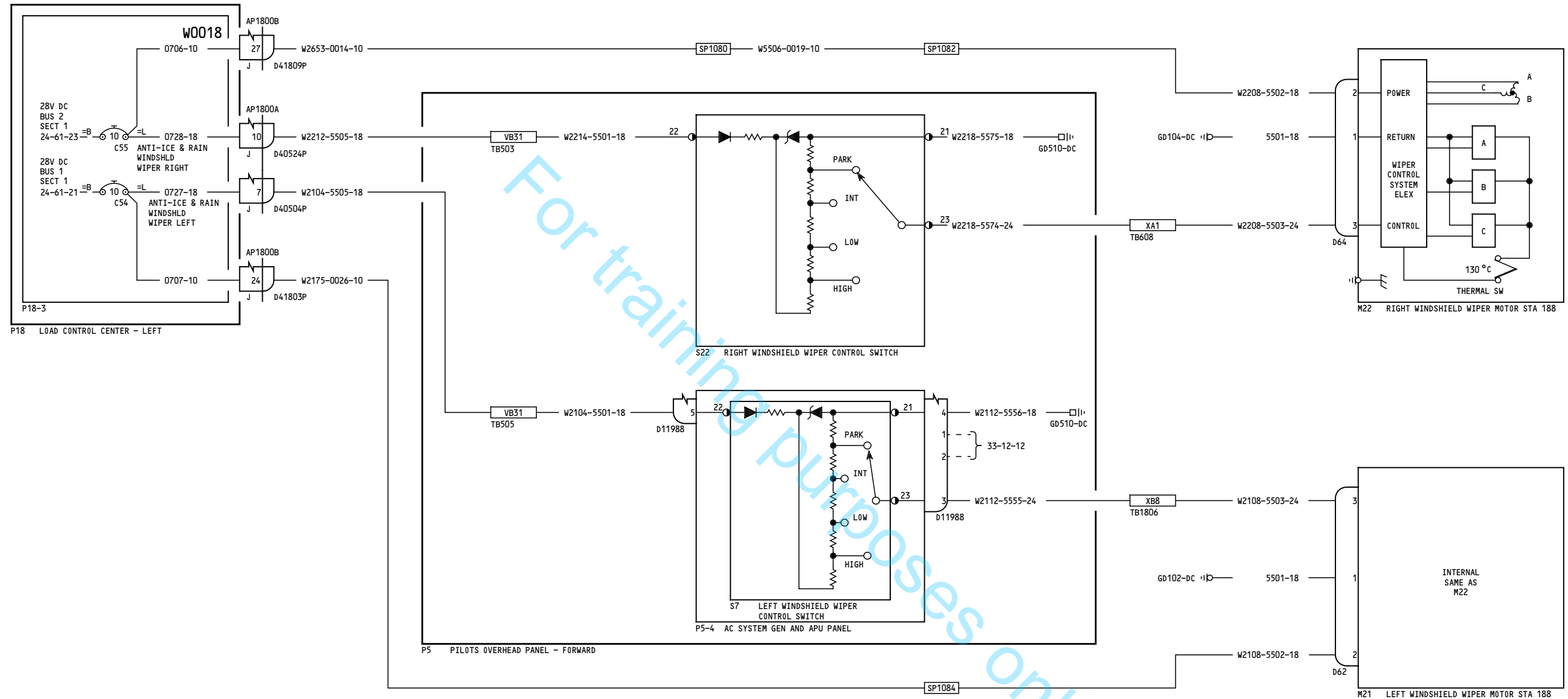
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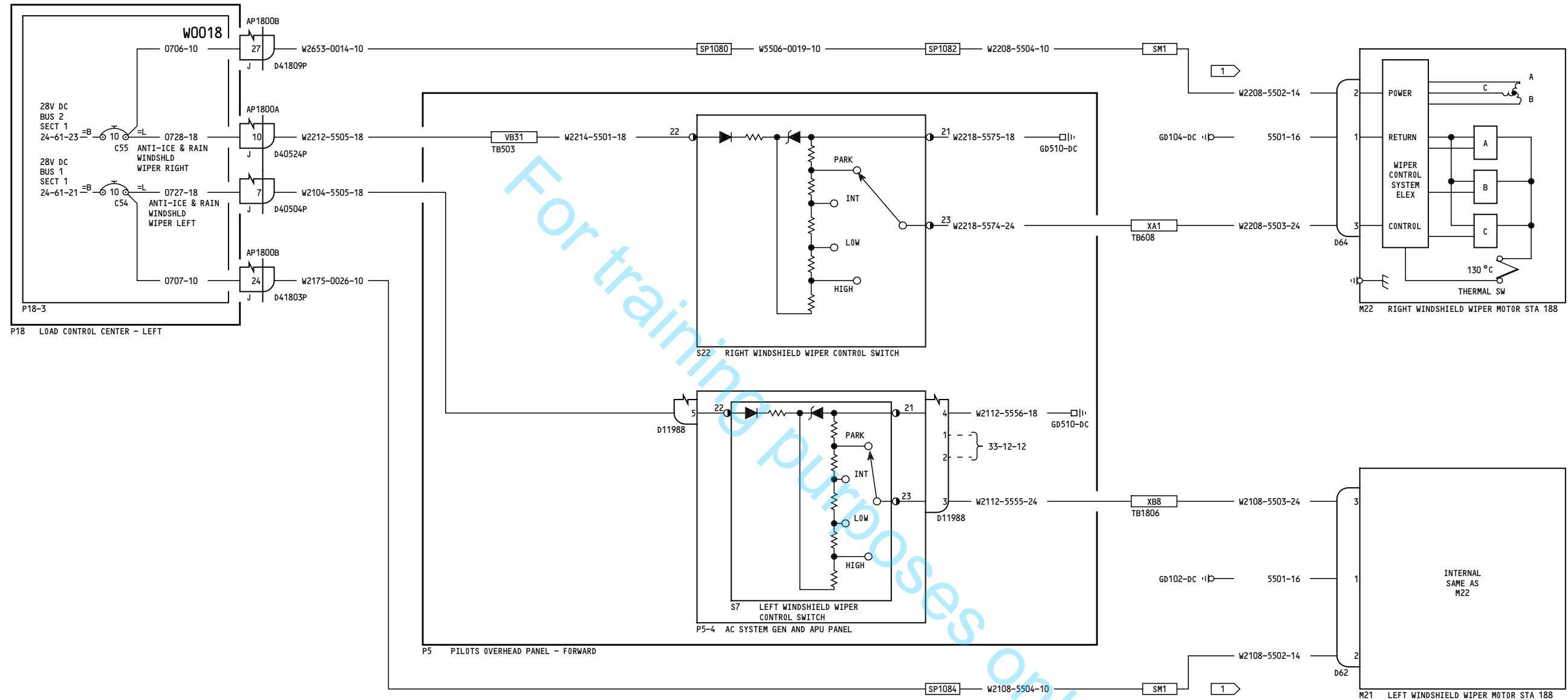


NOTES:

- 1 SEE TABLE 1. HOOKUP DETERMINED BY WINDOW RESISTANCE.
- 2 TERMINAL BOARD LOCATION AND HOOK UP TABLE.







**NOTES:**

- 1 WIRE GAGE REDUCED TO MEET CONNECTOR REQUIREMENTS. MAINTAIN 1 FT MAXIMUM LENGTH.

YC064-YR328

**WINDSHIELD WIPERS**

D280A108

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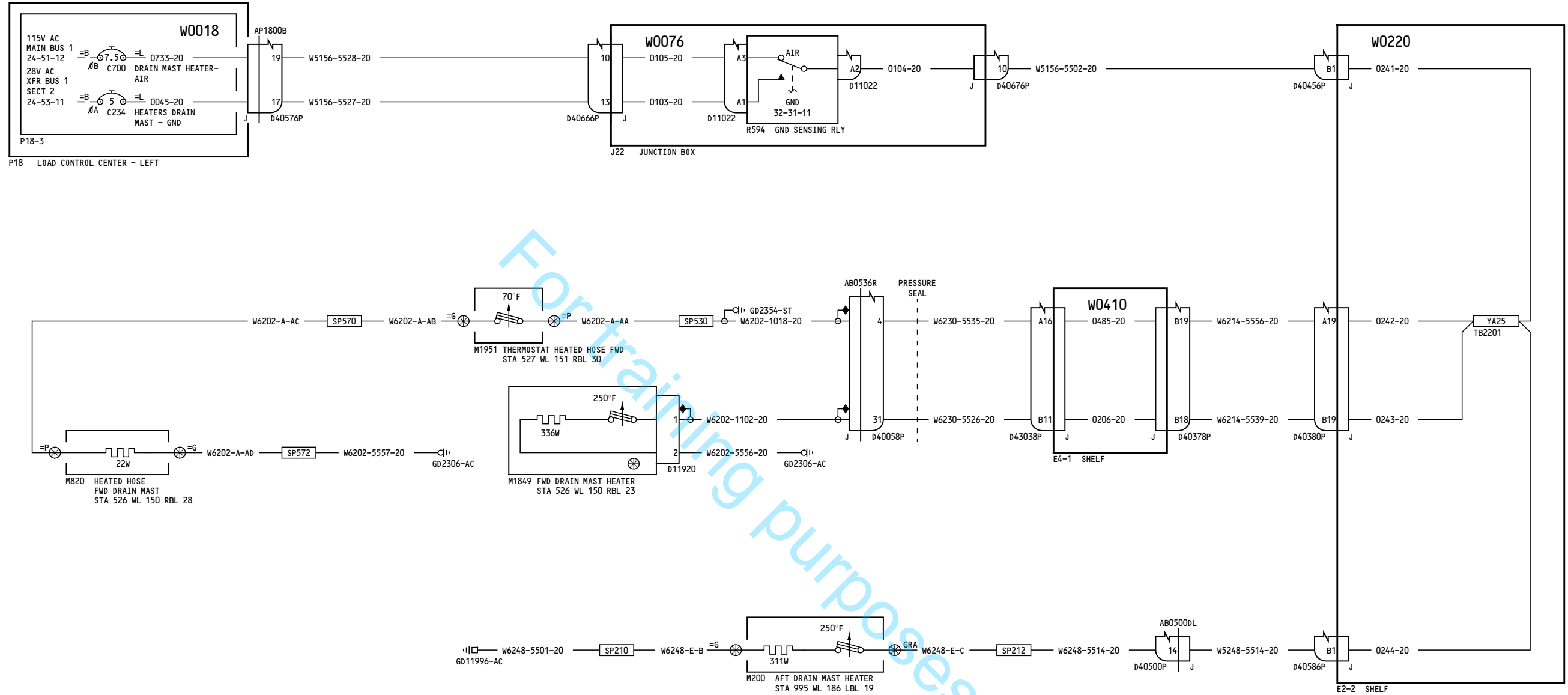
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YC051-YC055

DRAIN HEATERS

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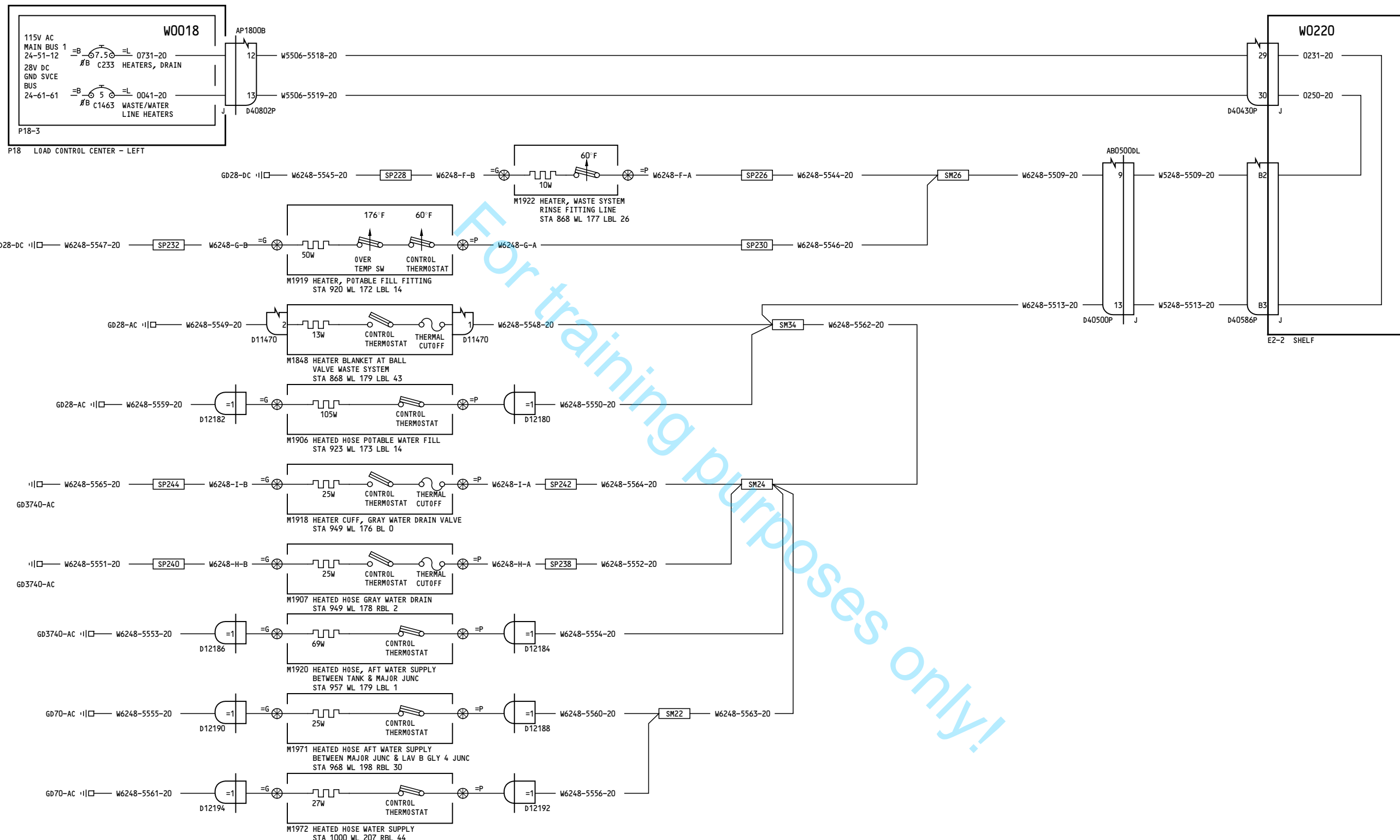
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YC051-YC055

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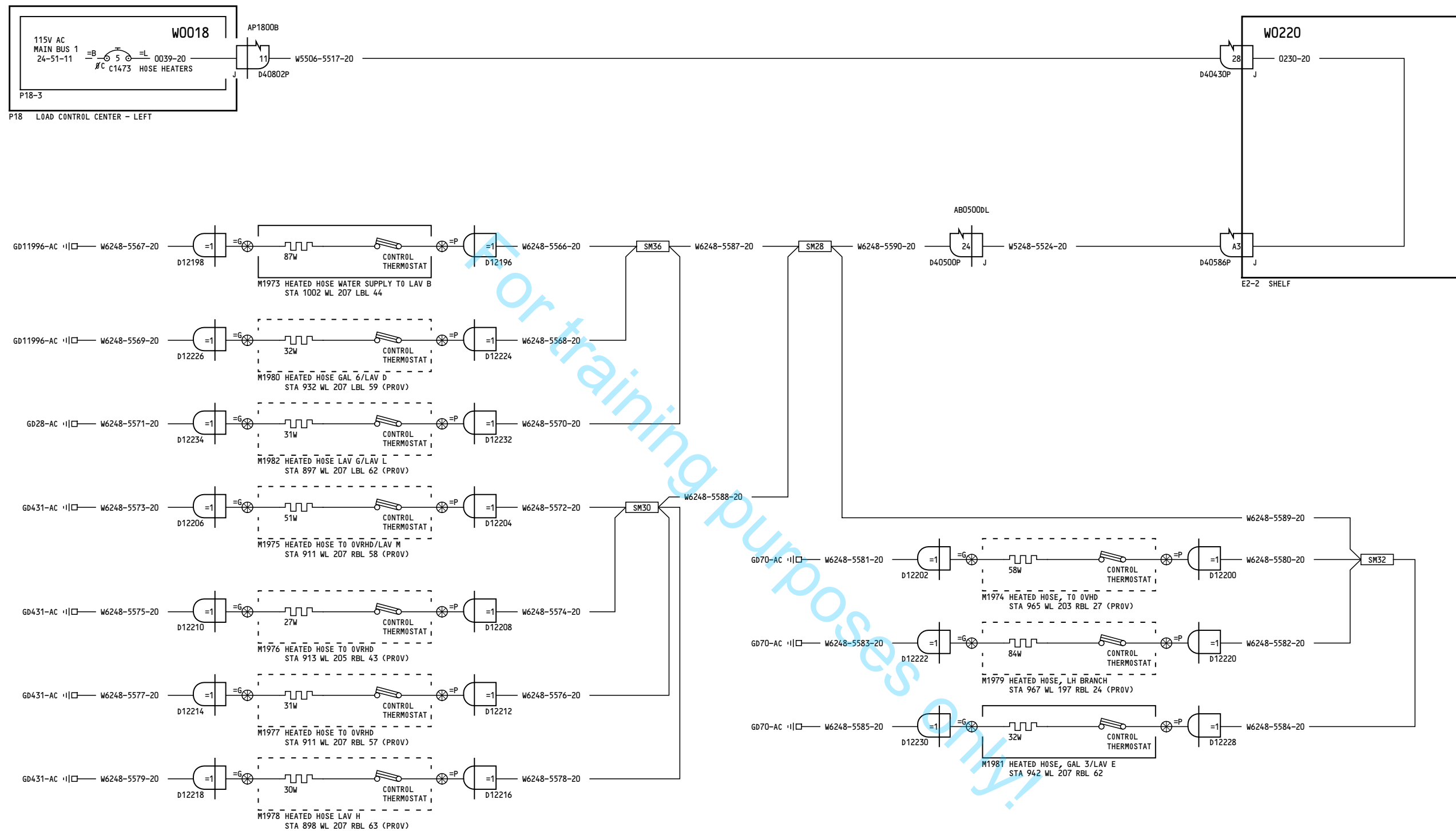
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DRAIN HEATERS

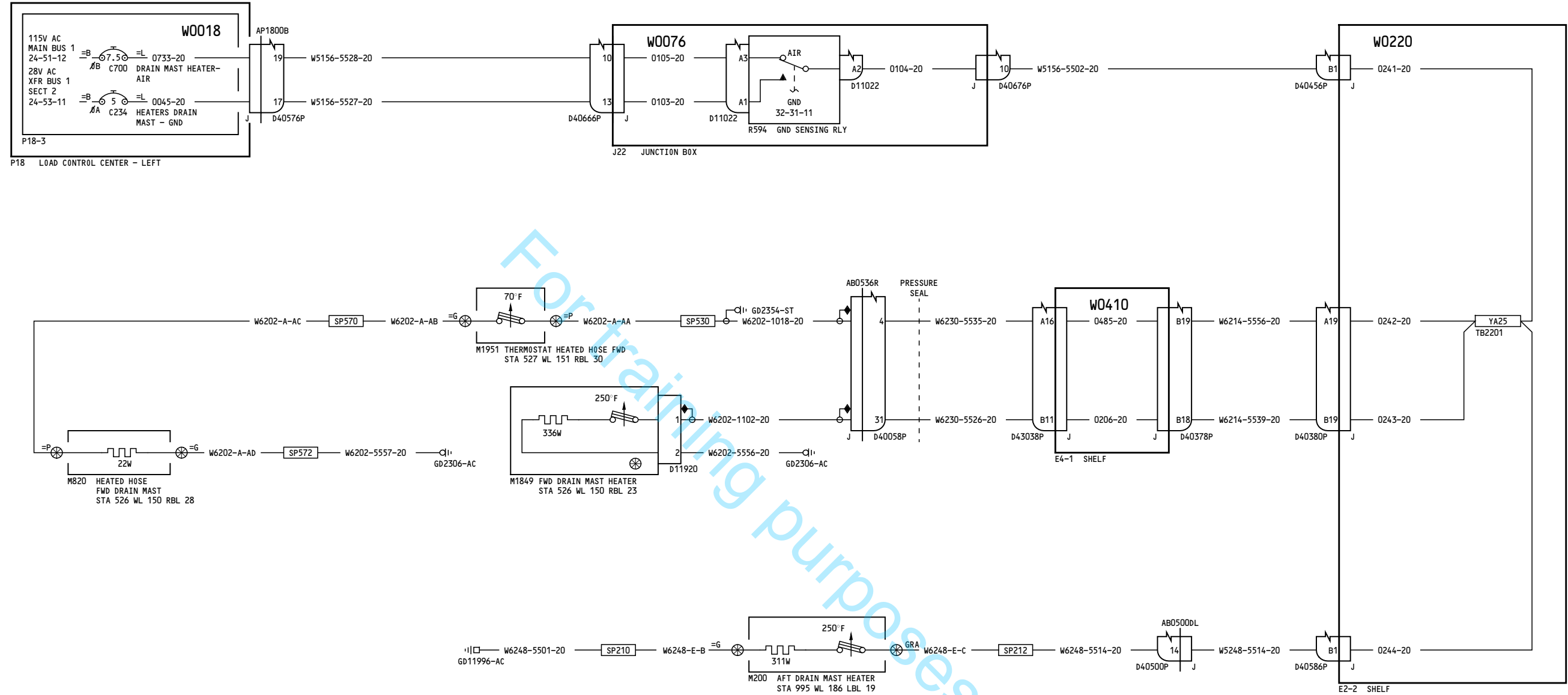
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**DRAIN HEATERS**

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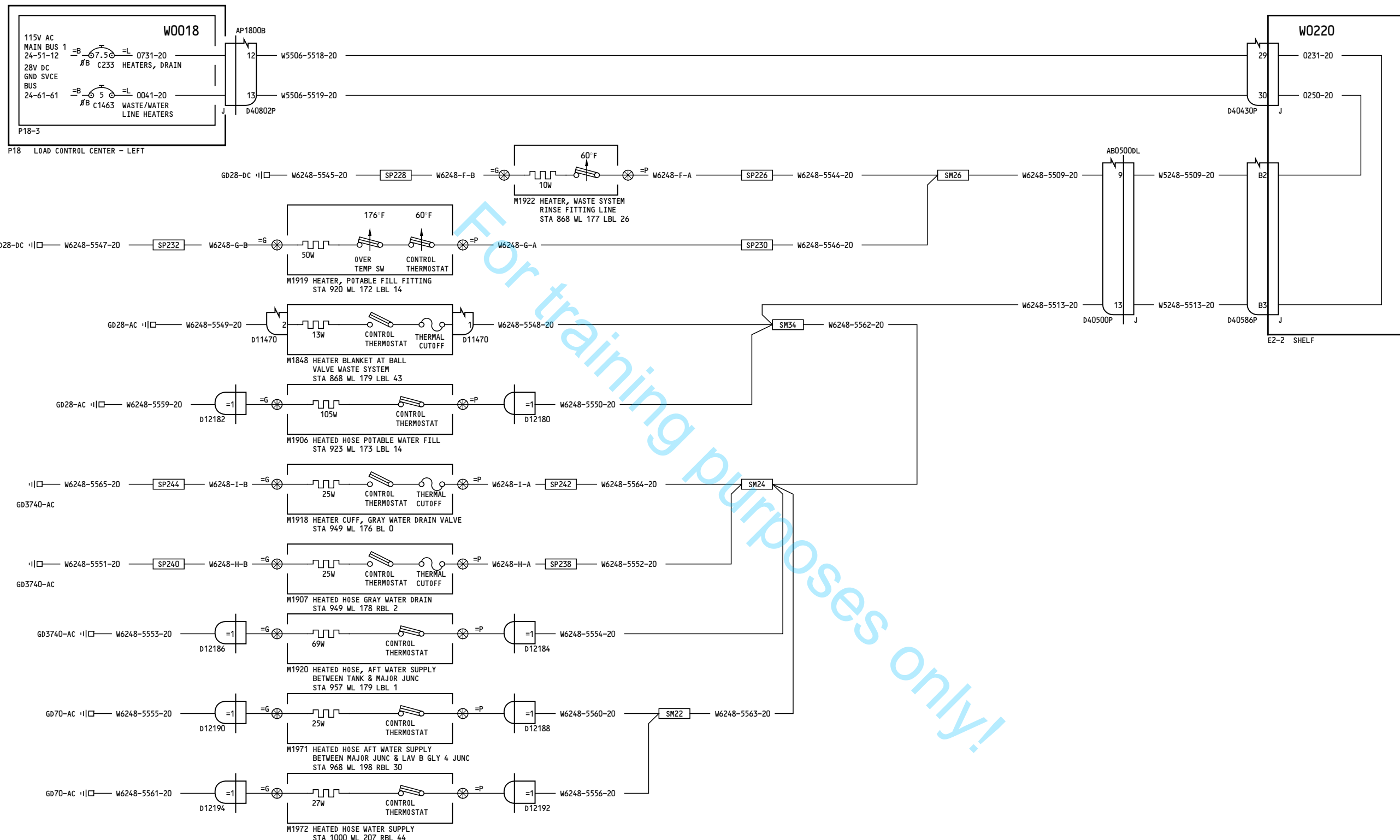
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**DRAIN HEATERS**

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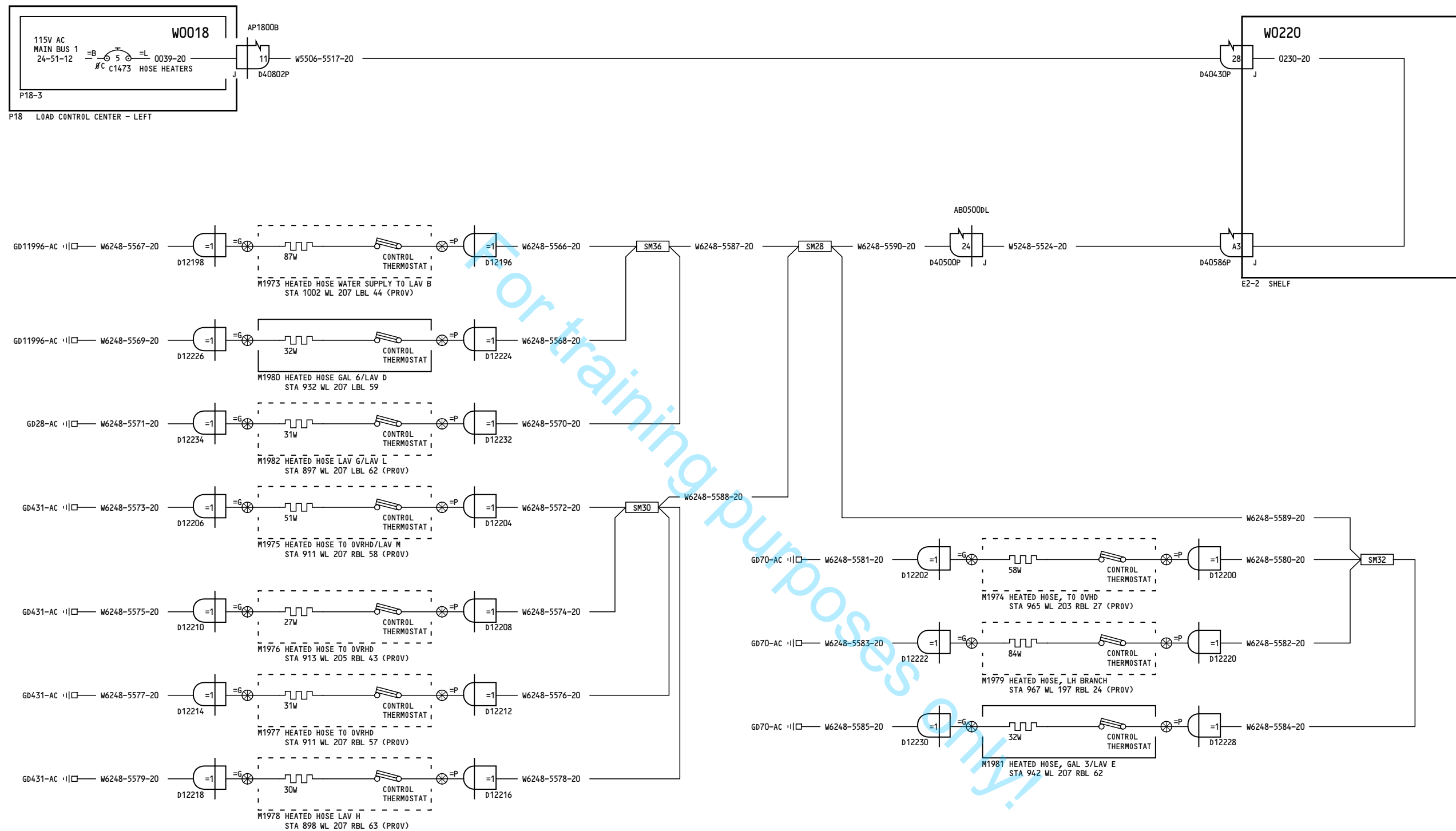
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**DRAIN HEATERS**

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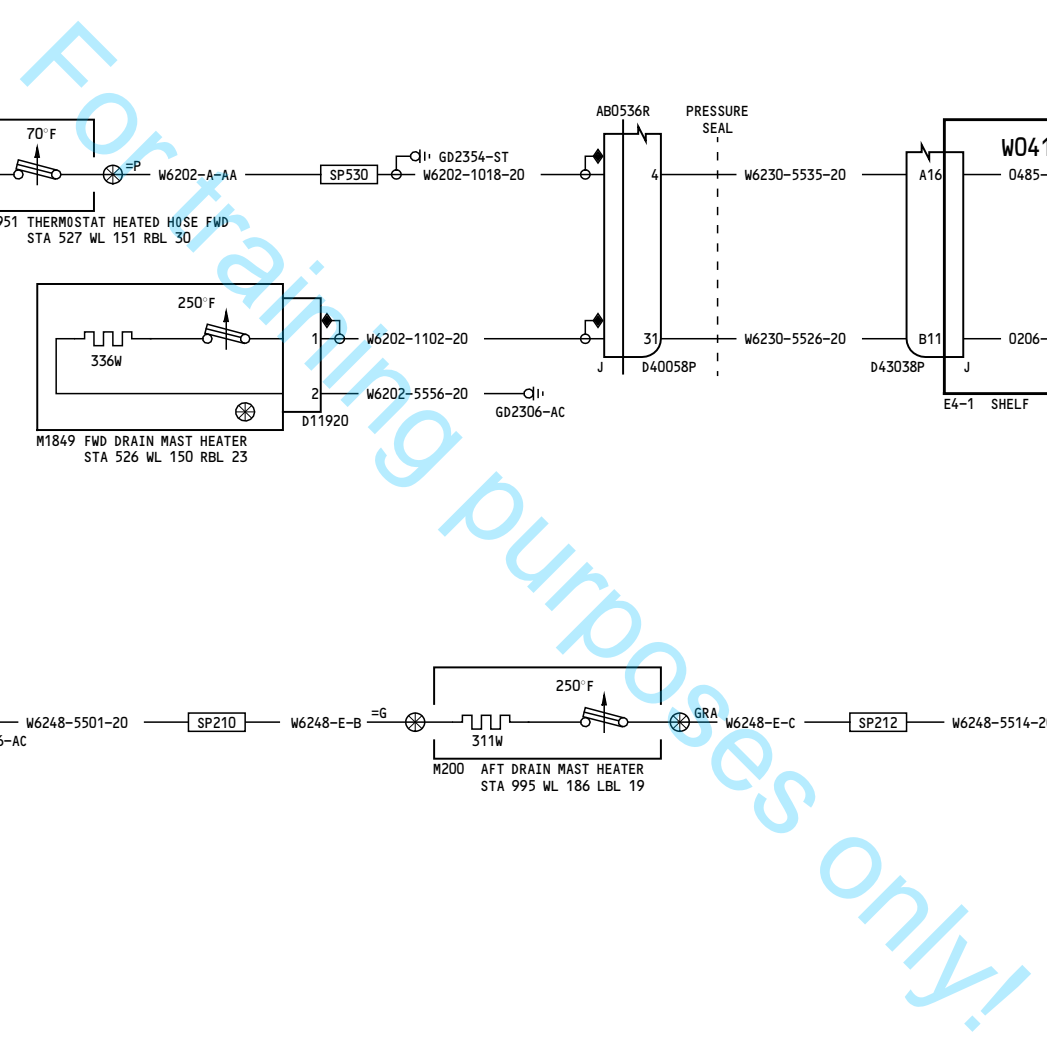
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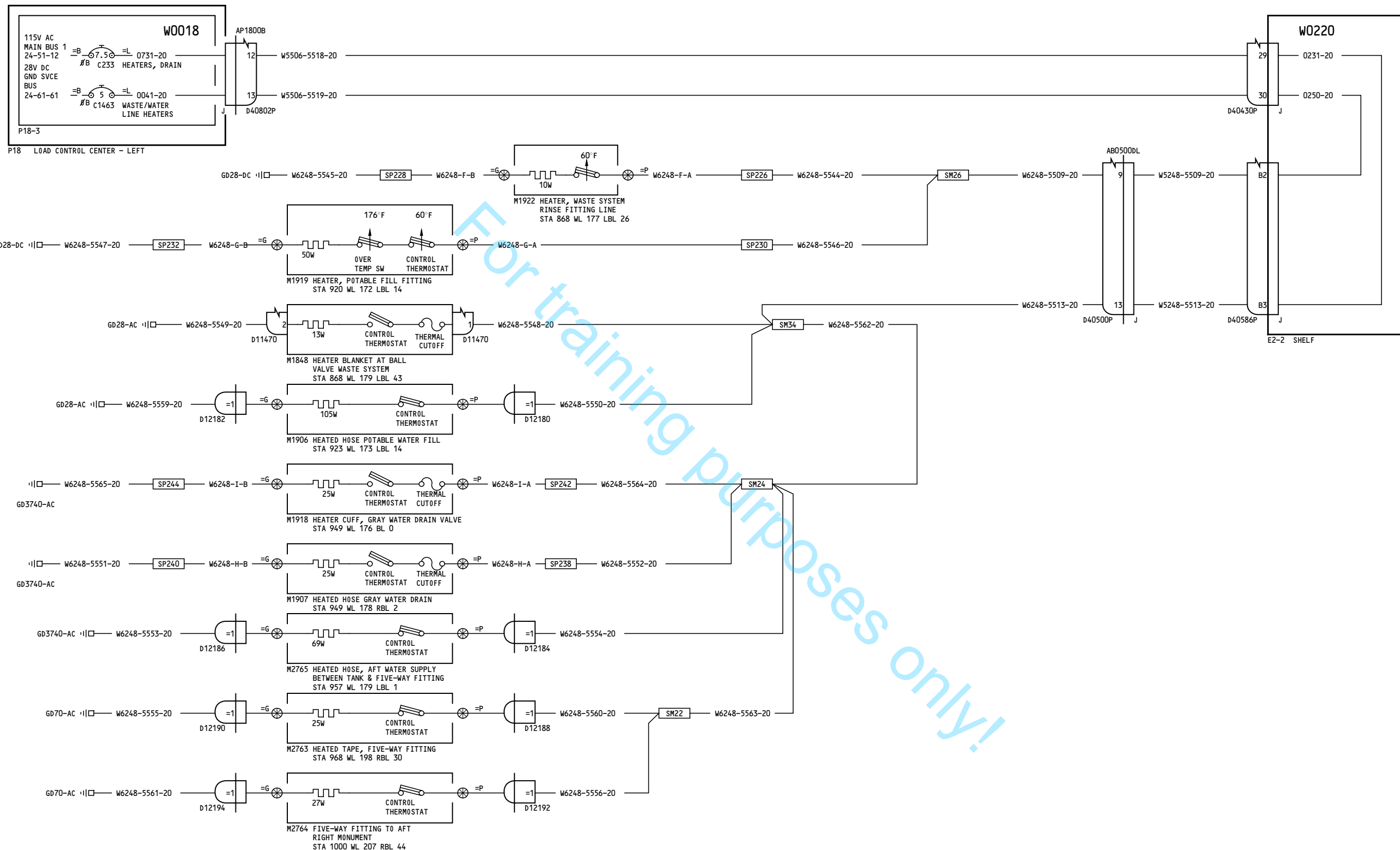
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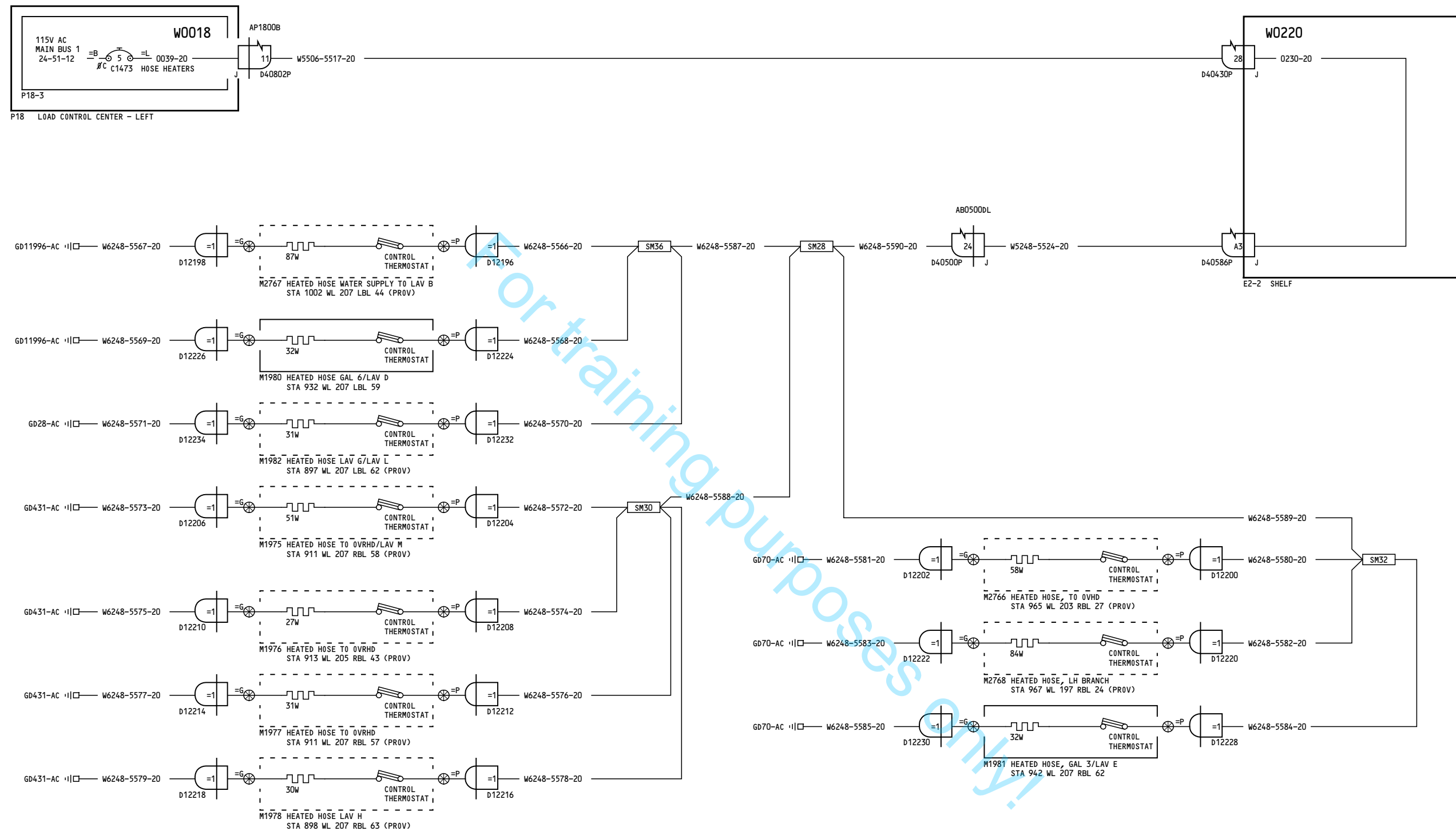
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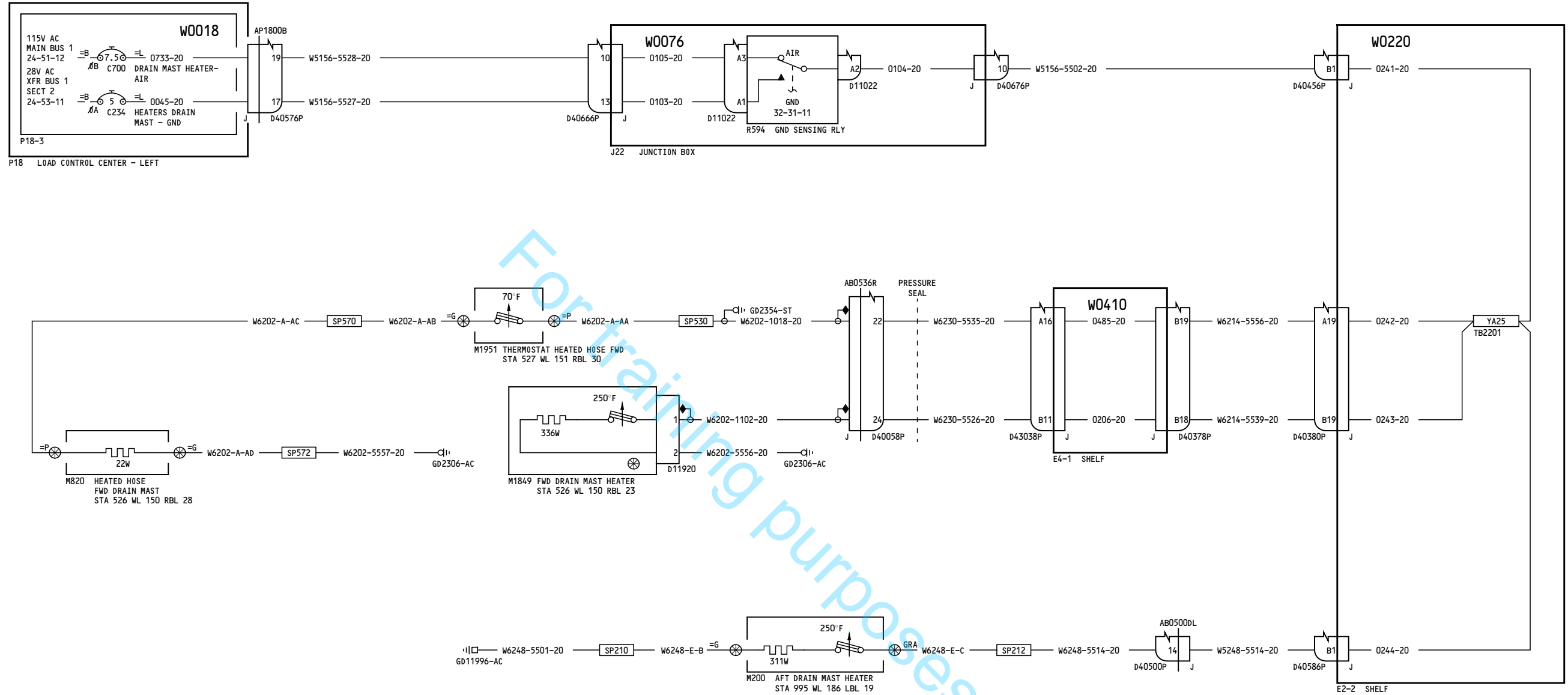
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YN231-YN234

DRAIN HEATERS

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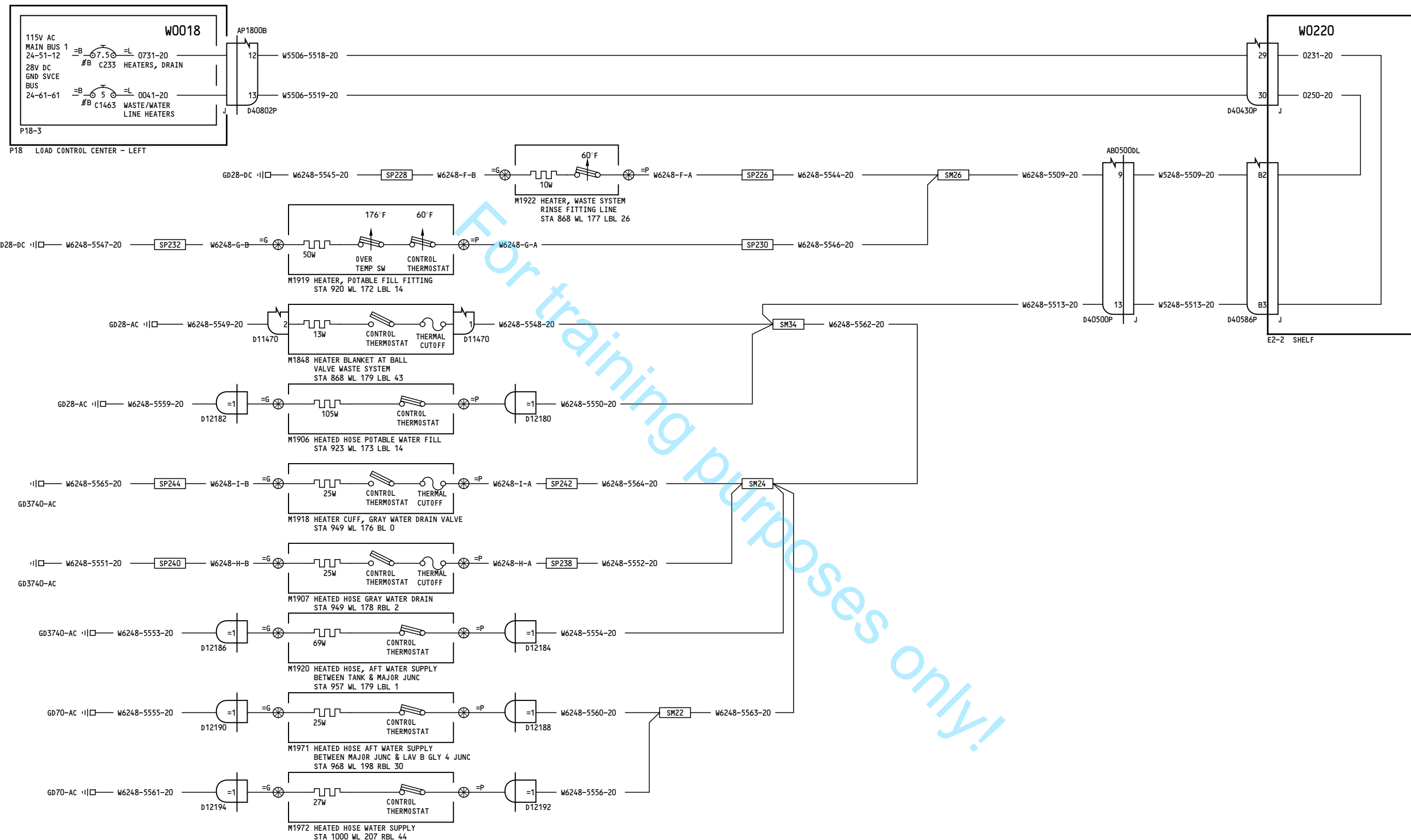
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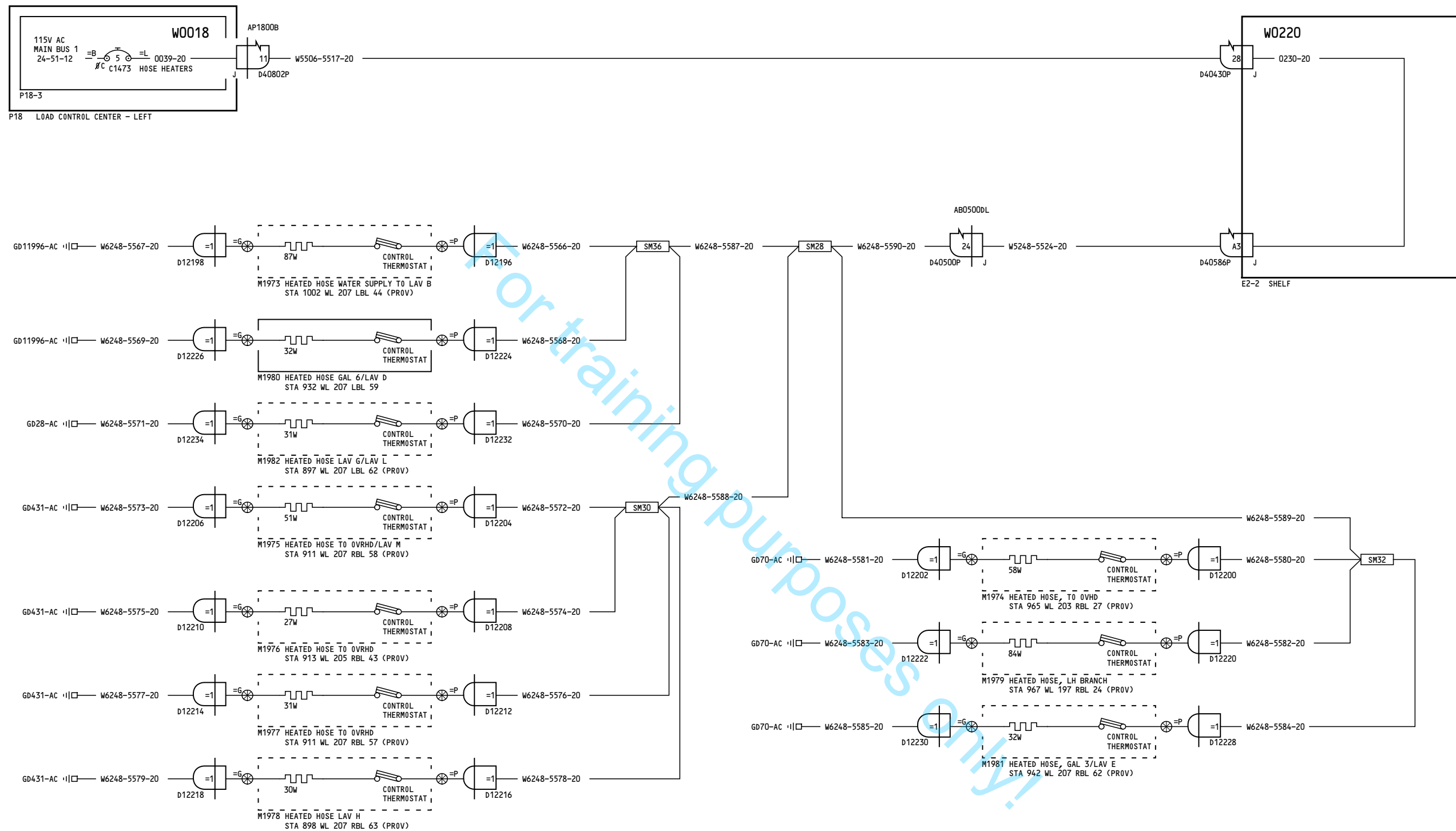
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**W0018**  
115V AC  
MAIN BUS 1  
24-51-12  
28V AC  
XFR BUS 1  
SECT 2  
24-53-11  
P18-3

**W0076**  
JUNCTION BOX

**W0220**  
0241-20  
0242-20  
0243-20  
0244-20

**W0410**  
E4-1 SHELF

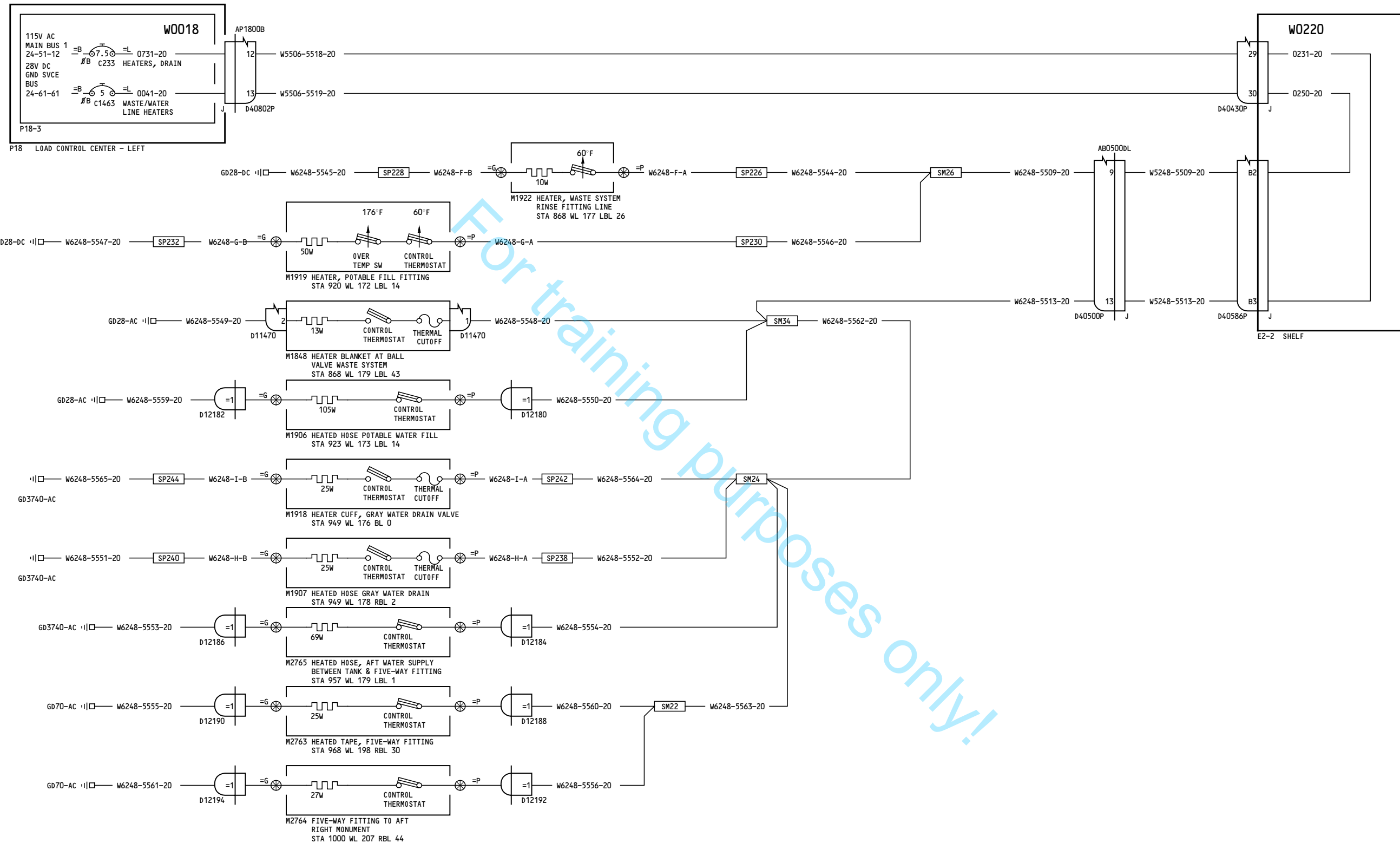
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AFT DRAIN MAST HEATER  
STA 995 WL 186 LBL 19

**P18 LOAD CONTROL CENTER - LEFT**

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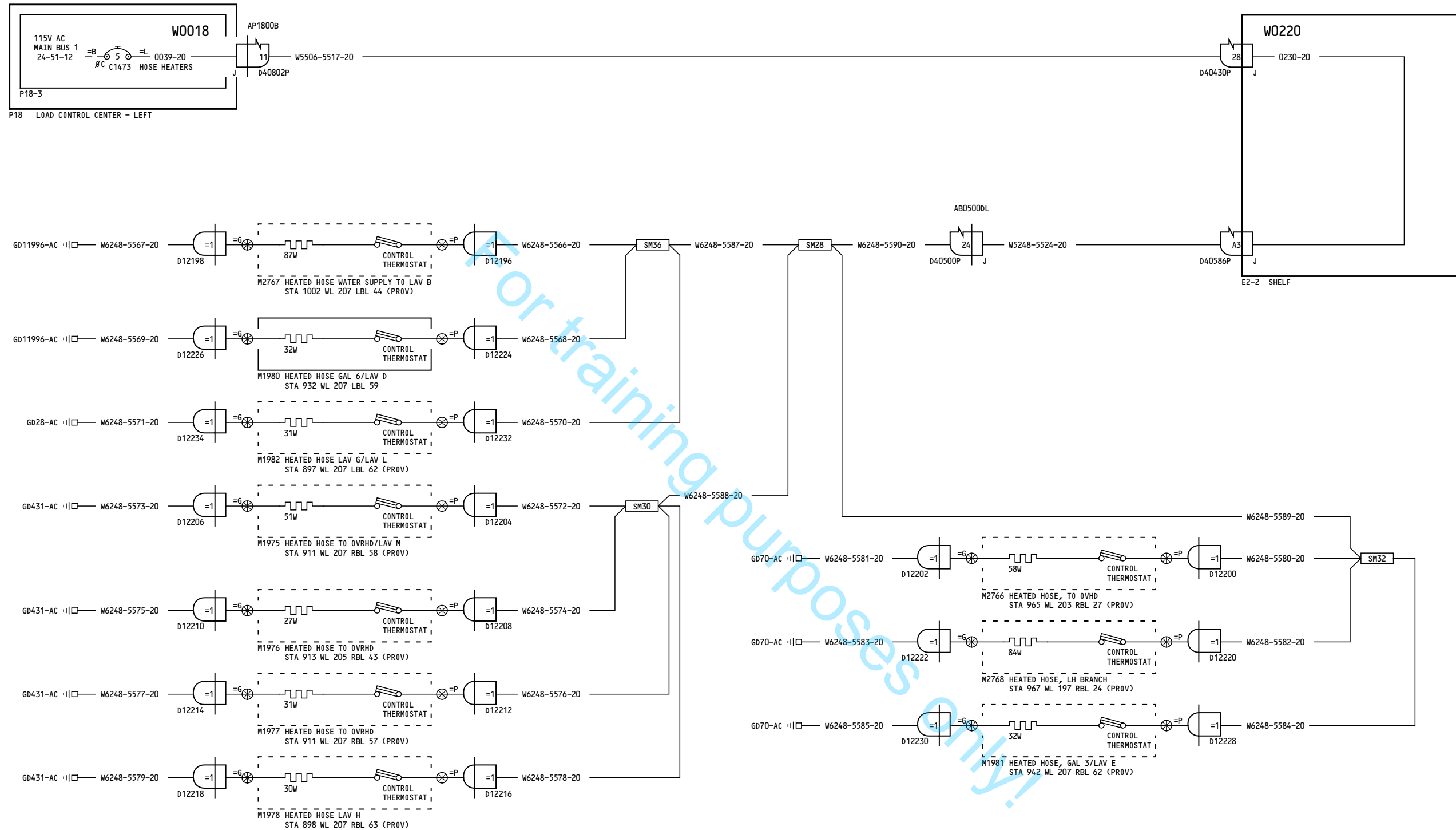
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