

**CHAPTER**

**30**

**ICE AND RAIN  
PROTECTION**



737-800

## WIRING DIAGRAM MANUAL

### CHAPTER 30 ICE AND RAIN PROTECTION

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<b><u>WATER AND TOILET DRAIN ANTI-ICING SYSTEM</u></b>						
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<b><u>ICE DETECTION SYSTEM</u></b>						
ADVISORY ICE DETECTION SYSTEM	30-81-11		1		Jun 21/2016	ALL

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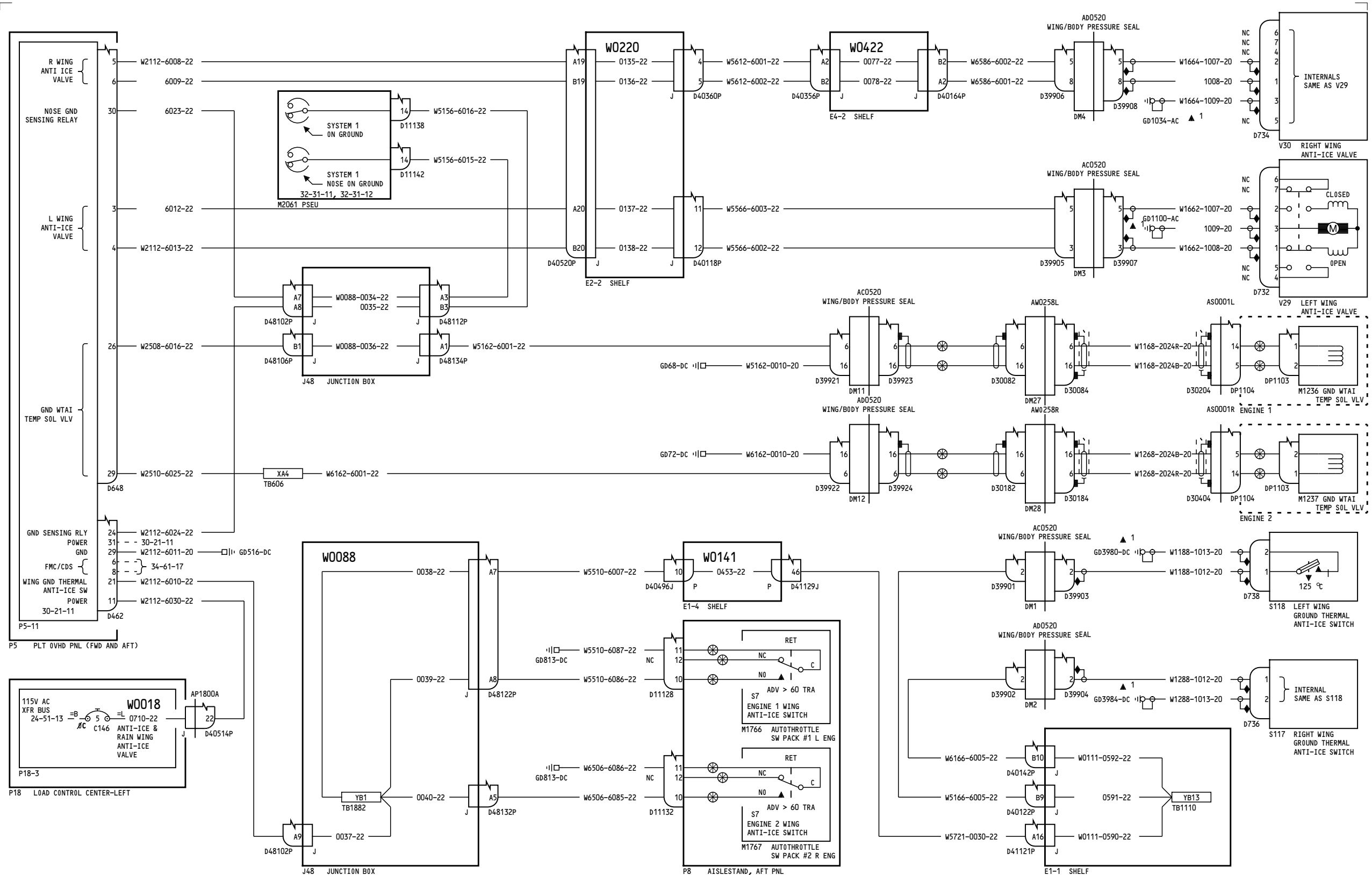
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## WING THERMAL ANTI-ICE SYSTEM

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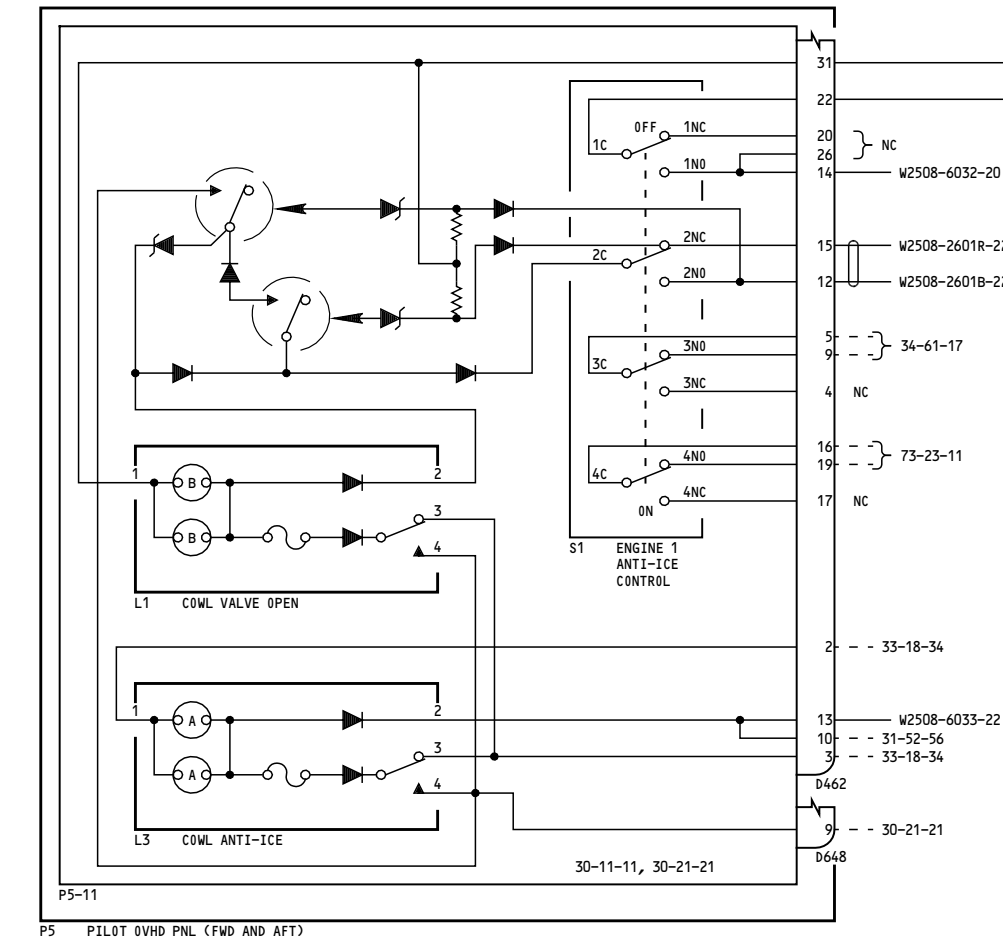
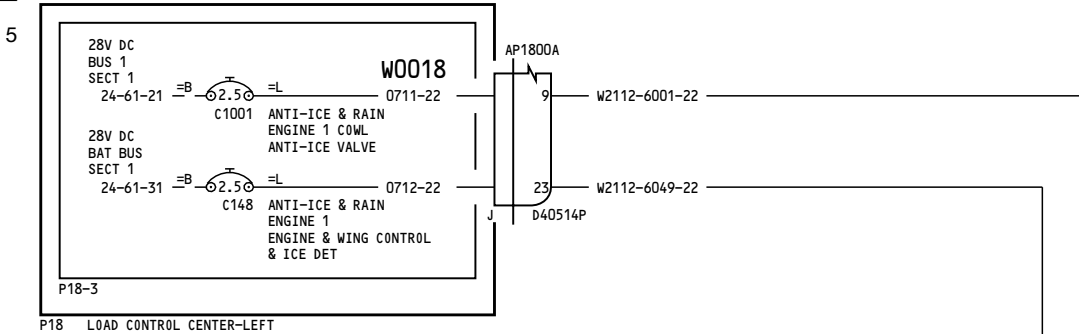
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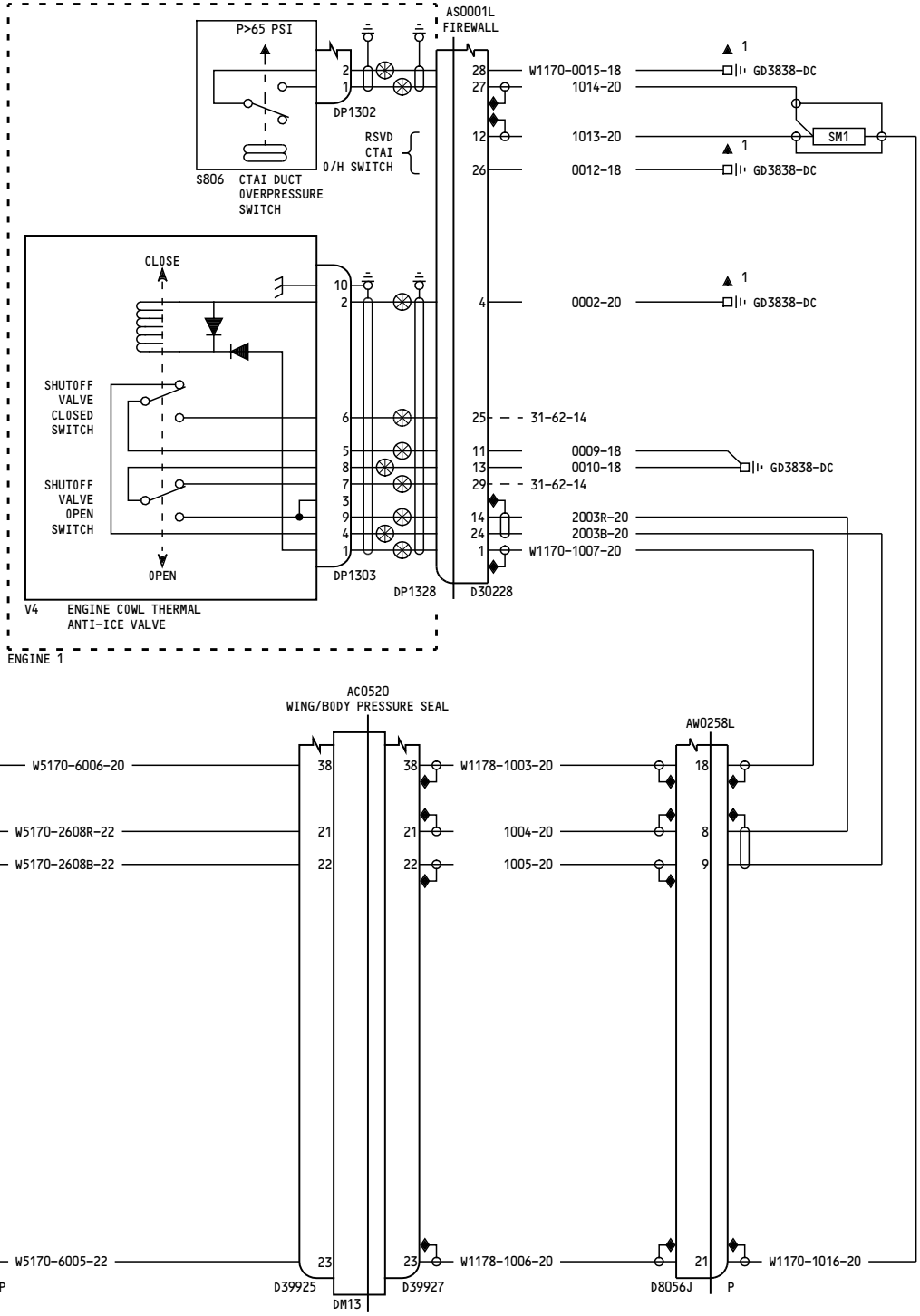
ENGINE 1 NACELLE ANTI-ICE

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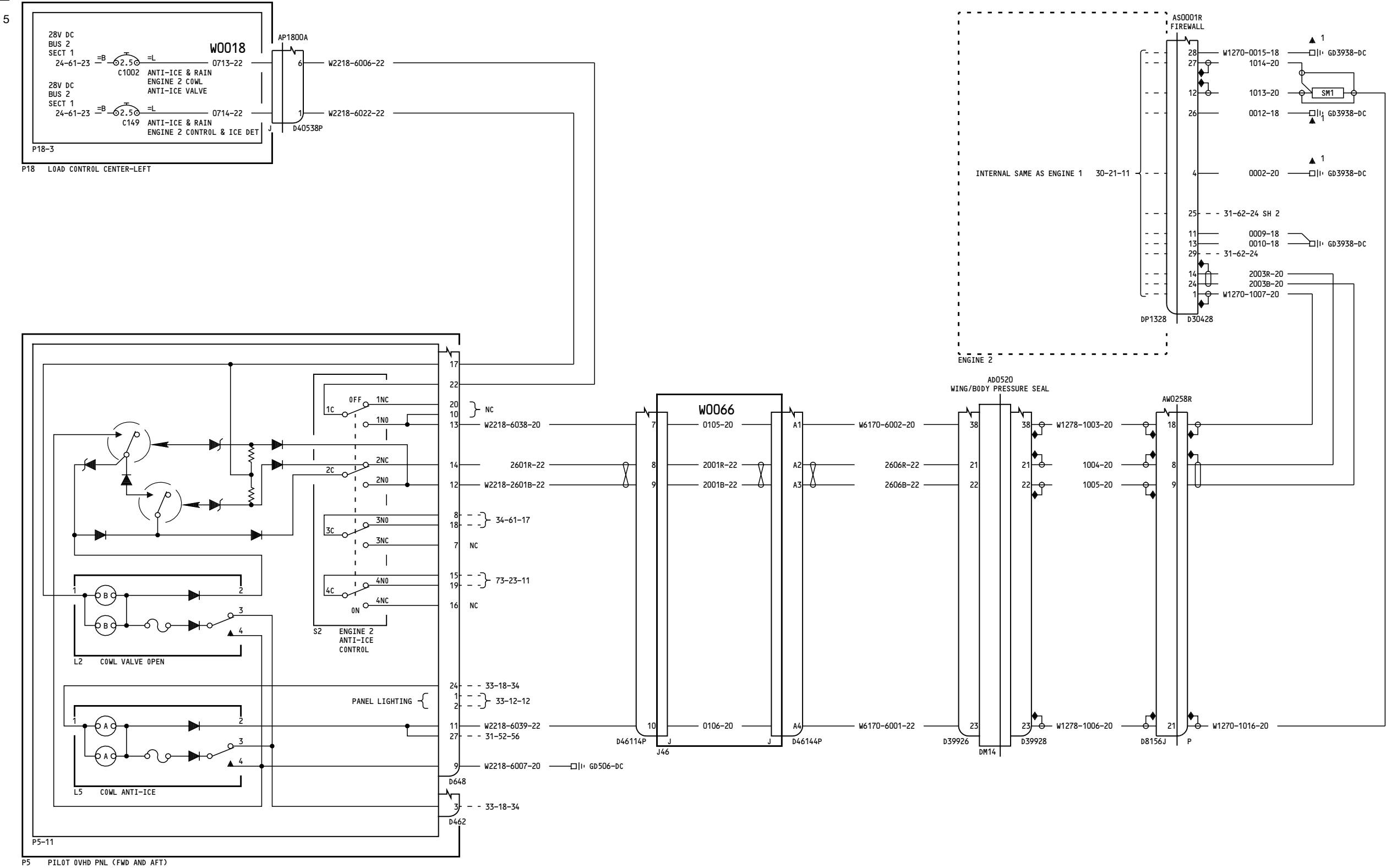
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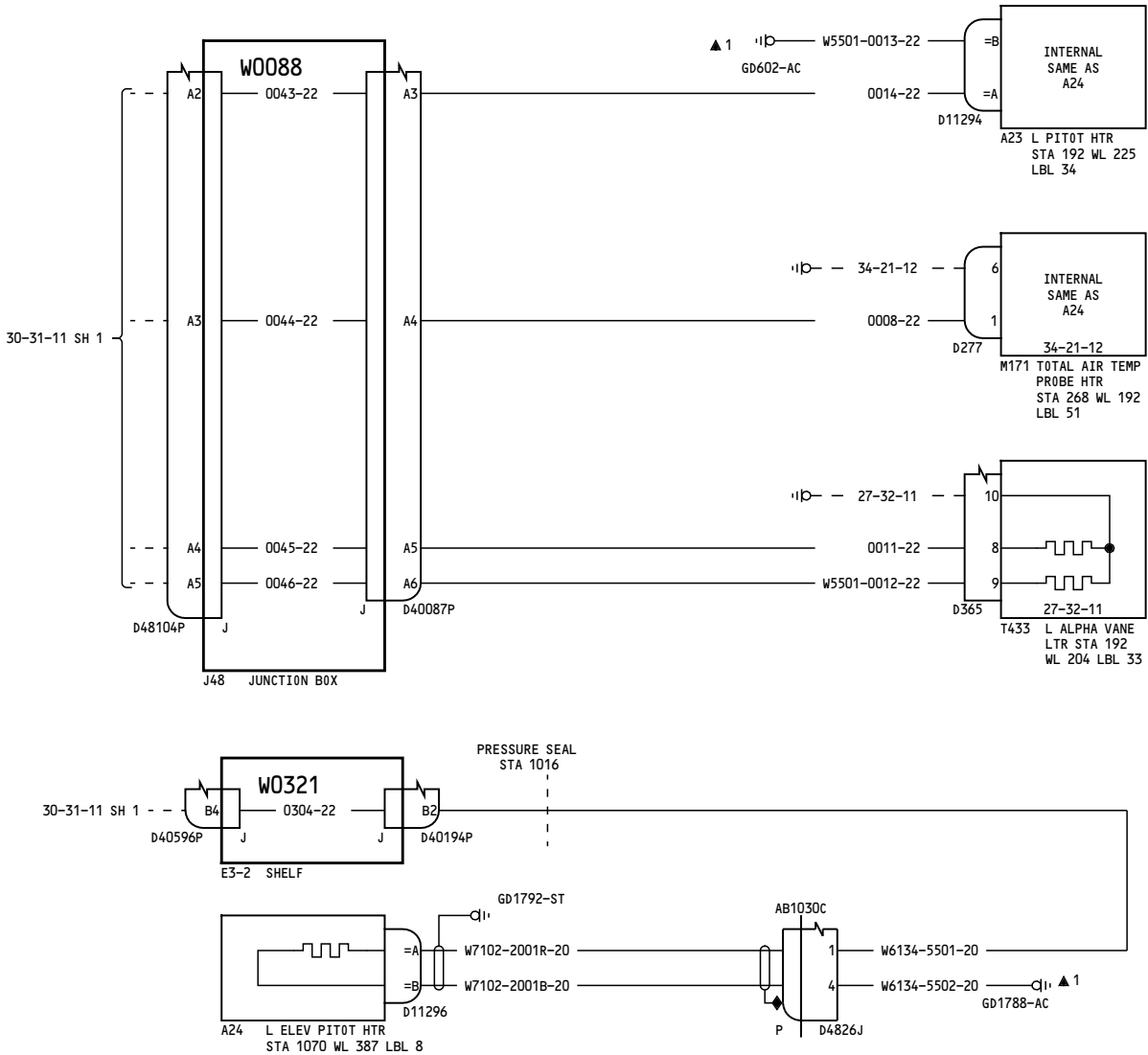
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PITOT AND PROBE HEATERS -  
SYSTEM A

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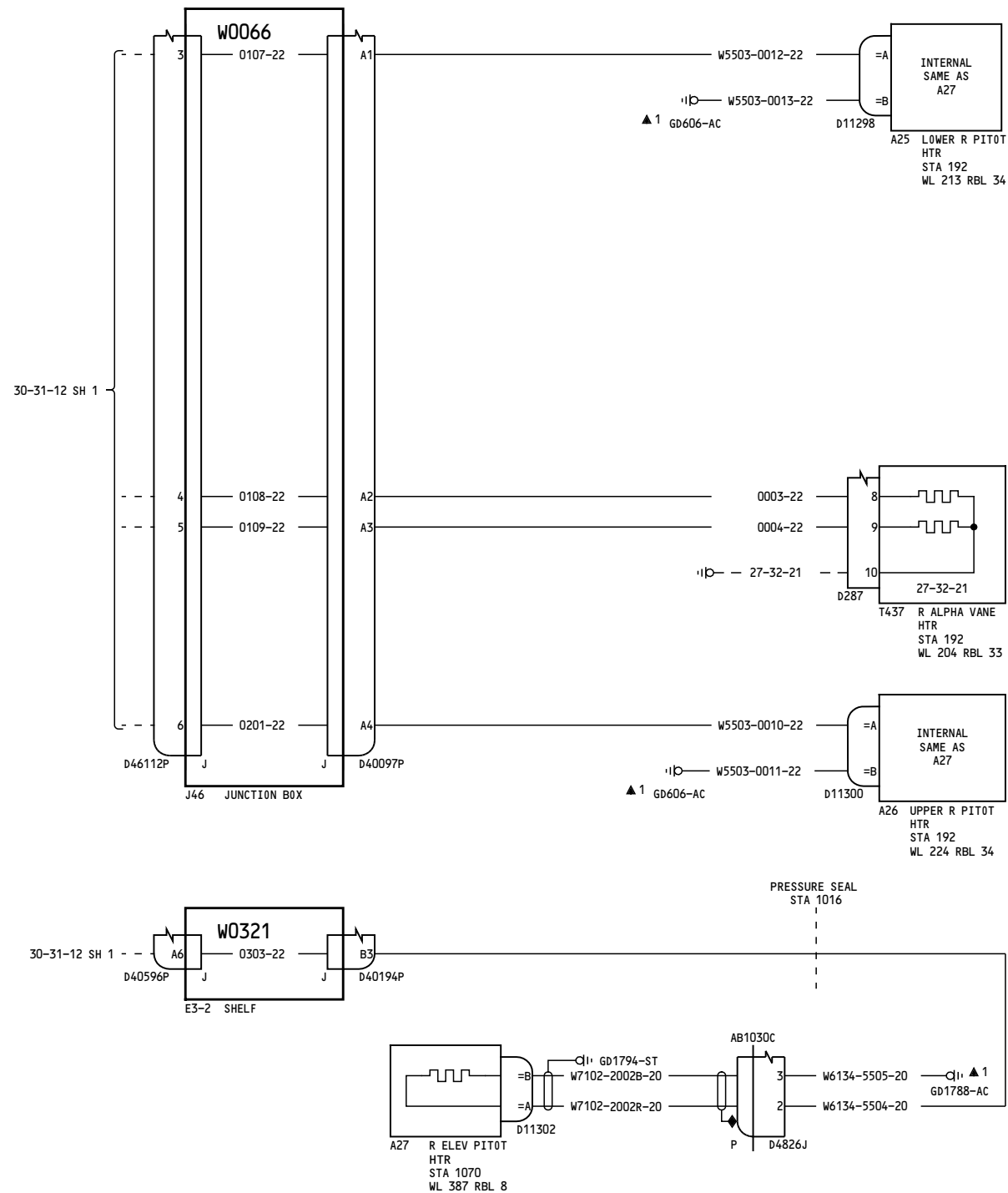
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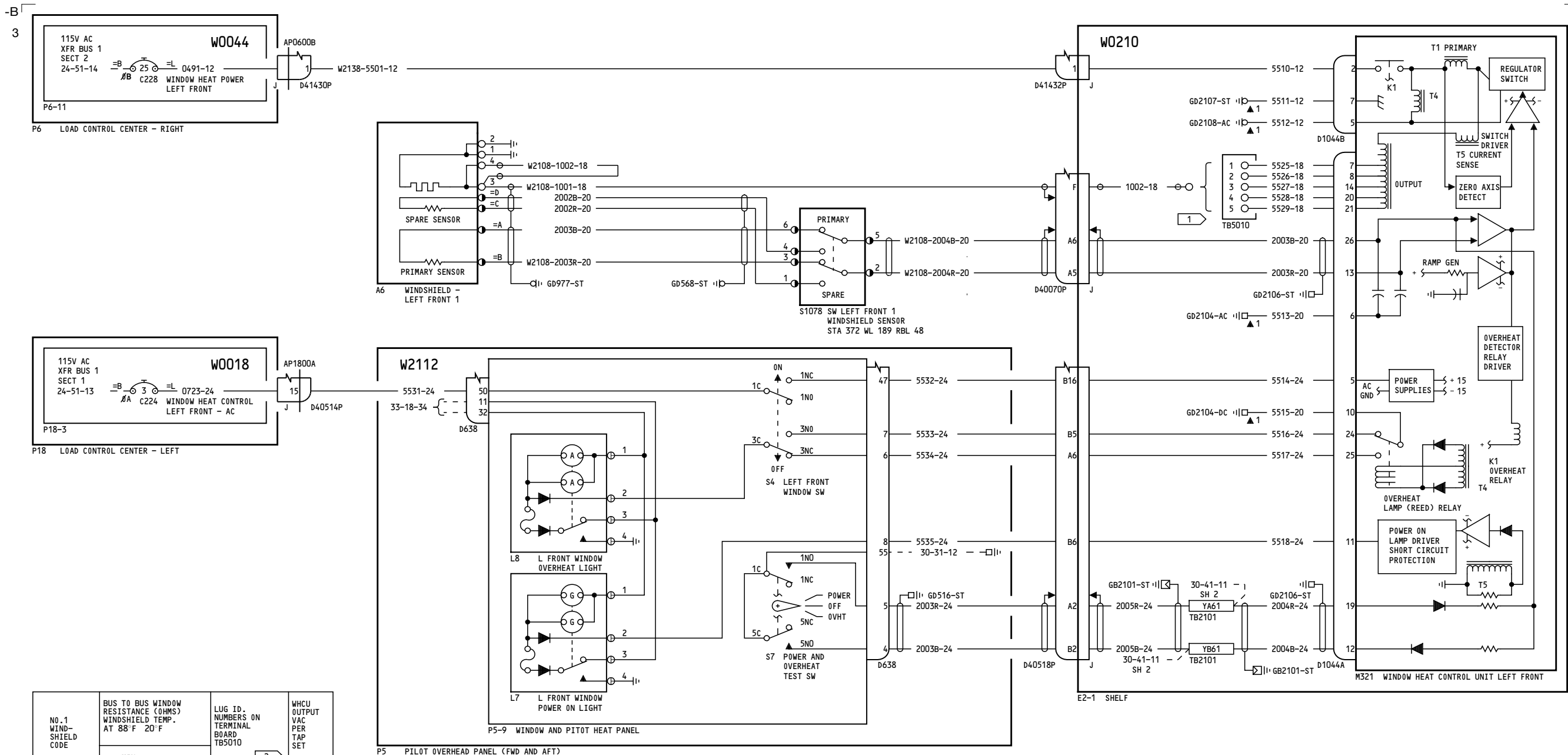


TABLE 1 (WINDOW RESISTANCE HOOK-UP TABLE)

- 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.

YT101-YT112, YT126-YT130

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

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The diagram illustrates the electrical wiring for the Window Heat Control Unit (W0044) and the Window Heat Control Unit (W0210). The units are connected to various sensors, switches, and relays, and are powered by 115V AC. The diagram includes a table of window resistance values and a list of components.

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

**COMPONENTS:**

- W0044: 115V AC XFR BUS 1 SECT 2 24-51-14, W0044, P6-11, P6 LOAD CONTROL CENTER - RIGHT, W0018, P18-3, P18 LOAD CONTROL CENTER - LEFT, W0210, D41432P, D40512P, D40514P, D40070P, D40518P, D4042A, D1042B, D10560, D10564, D638, D639, D640, D641, D642, D643, D644, D645, D646, D647, D648, D649, D650, D651, D652, D653, D654, D655, D656, D657, D658, D659, D660, D661, D662, D663, D664, D665, D666, D667, D668, D669, D670, D671, D672, D673, D674, D675, D676, D677, D678, D679, D680, D681, D682, D683, D684, D685, D686, D687, D688, D689, D690, D691, D692, D693, D694, D695, D696, D697, D698, D699, D700, D701, D702, D703, D704, D705, D706, D707, D708, D709, D710, D711, D712, D713, D714, D715, D716, D717, D718, D719, D720, D721, D722, D723, D724, D725, D726, D727, D728, D729, D730, D731, D732, D733, D734, D735, D736, D737, D738, D739, D740, D741, D742, D743, D744, D745, D746, D747, D748, D749, D750, D751, D752, D753, D754, D755, D756, D757, D758, D759, D760, D761, D762, D763, D764, D765, D766, D767, D768, D769, D770, D771, D772, D773, D774, D775, D776, D777, D778, D779, D780, D781, D782, D783, D784, D785, D786, D787, D788, D789, D790, D791, D792, D793, D794, D795, D796, D797, D798, D799, D800, D801, D802, D803, D804, D805, D806, D807, D808, D809, D810, D811, D812, D813, D814, D815, D816, D817, D818, D819, D820, D821, D822, D823, D824, D825, D826, D827, D828, D829, D830, D831, D832, D833, D834, D835, D836, D837, D838, D839, D840, D841, D842, D843, D844, D845, D846, D847, D848, D849, D850, D851, D852, D853, D854, D855, D856, D857, D858, D859, D860, D861, D862, D863, D864, D865, D866, D867, D868, D869, D870, D871, D872, D873, D874, D875, D876, D877, D878, D879, D880, D881, D882, D883, D884, D885, D886, D887, D888, D889, D890, D891, D892, D893, D894, D895, D896, D897, D898, D899, D900, D901, D902, D903, D904, D905, D906, D907, D908, D909, D910, D911, D912, D913, D914, D915, D916, D917, D918, D919, D920, D921, D922, D923, D924, D925, D926, D927, D928, D929, D930, D931, D932, D933, D934, D935, D936, D937, D938, D939, D940, D941, D942, D943, D944, D945, D946, D947, D948, D949, D950, D951, D952, D953, D954, D955, D956, D957, D958, D959, D960, D961, D962, D963, D964, D965, D966, D967, D968, D969, D970, D971, D972, D973, D974, D975, D976, D977, D978, D979, D980, D981, D982, D983, D984, D985, D986, D987, D988, D989, D990, D991, D992, D993, D994, D995, D996, D997, D998, D999, D1000, D1001, D1002, D1003, D1004, D1005, D1006, D1007, D1008, D1009, D1010, D1011, D1012, D1013, D1014, D1015, D1016, D1017, D1018, D1019, D1020, D1021, D1022, D1023, D1024, D1025, D1026, D1027, D1028, D1029, D1030, D1031, D1032, D1033, D1034, D1035, D1036, D1037, D1038, D1039, D1040, D1041, D1042, D1043, D1044, D1045, D1046, D1047, D1048, D1049, D1050, D1051, D1052, D1053, D1054, D1055, D1056, D1057, D1058, D1059, D1060, D1061, D1062, D1063, D1064, D1065, D1066, D1067, D1068, D1069, D1070, D1071, D1072, D1073, D1074, D1075, D1076, D1077, D1078, D1079, D1080, D1081, D1082, D1083, D1084, D1085, D1086, D1087, D1088, D1089, D1090, D1091, D1092, D1093, D1094, D1095, D1096, D1097, D1098, D1099, D1100, D1101, D1102, D1103, D1104, D1105, D1106, D1107, D1108, D1109, D1110, D1111, D1112, D1113, D1114, D1115, D1116, D1117, D1118, D1119, D1120, D1121, D1122, D1123, D1124, D1125, D1126, D1127, D1128, D1129, D1130, D1131, D1132, D1133, D1134, D1135, D1136, D1137, D1138, D1139, D1140, D1141, D1142, D1143, D1144, D1145, D1146, D1147, D1148, D1149, D1150, D1151, D1152, D1153, D1154, D1155, D1156, D1157, D1158, D1159, D1160, D1161, D1162, D1163, D1164, D1165, D1166, D1167, D1168, D1169, D1170, D1171, D1172, D1173, D1174, D1175, D1176, D1177, D1178, D1179, D1180, D1181, D1182, D1183, D1184, D1185, D1186, D1187, D1188, D1189, D1190, D1191, D1192, D1193, D1194, D1195, D1196, D1197, D1198, D1199, D1200, D1201, D1202, D1203, D1204, D1205, D1206, D1207, D1208, D1209, D1210, D1211, D1212, D1213, D1214, D1215, D1216, D1217, D1218, D1219, D1220, D1221, D1222, D1223, D1224, D1225, D1226, D1227, D1228, D1229, D1230, D1231, D1232, D1233, D1234, D1235, D1236, D1237, D1238, D1239, D1240, D1241, D1242, D1243, D1244, D1245, D1246, D1247, D1248, D1249, D1250, D12

TABLE 1 (WINDOW RESISTANCE HOOK-UP TABLE)

1 SEE TABLE 1. HOOKUP DETERMINED BY WINDOW RESISTANCE.

2 TERMINAL BOARD LOCATION AND HOOK UP TABLE.

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

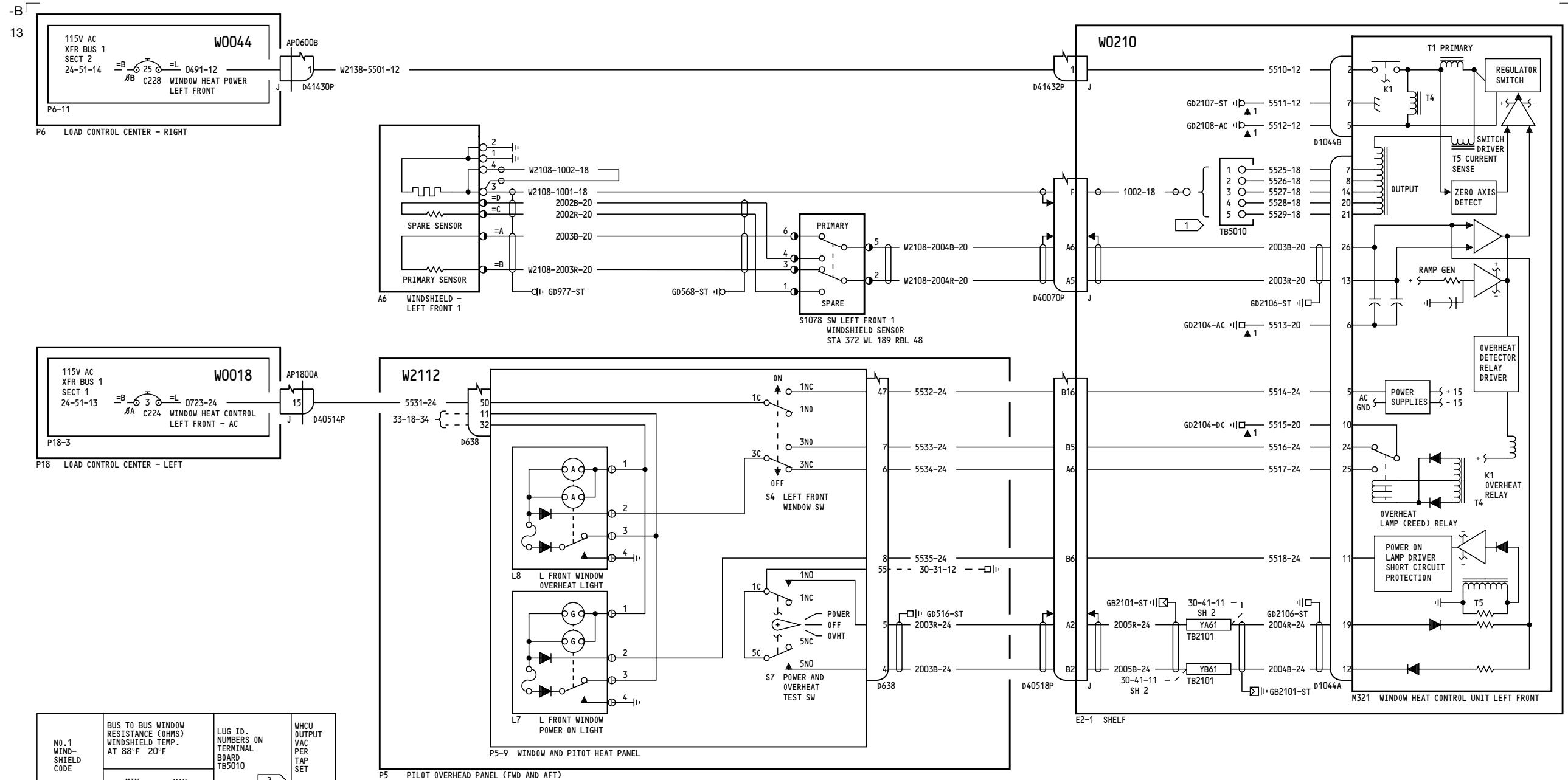
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YT113-YT116, YT131

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

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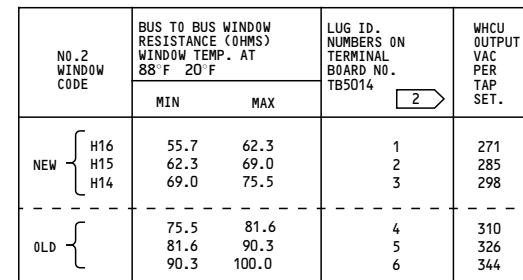


TABLE 1 (WINDOW RESISTANCE HOOK-UP TABLE)

NOTES:

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

YT113-YT116, YT131

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

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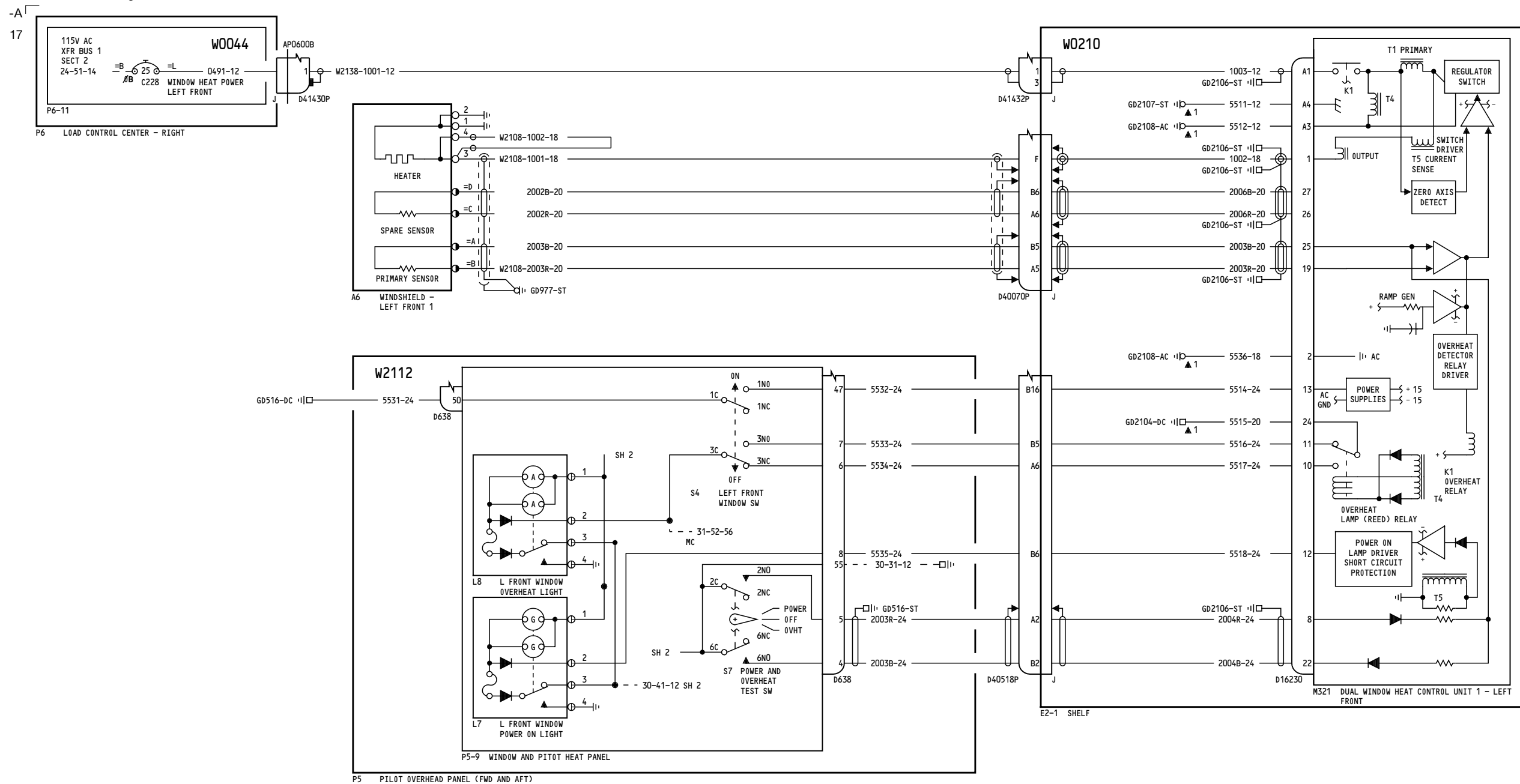
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YT117-YT120, YT132-YT133

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

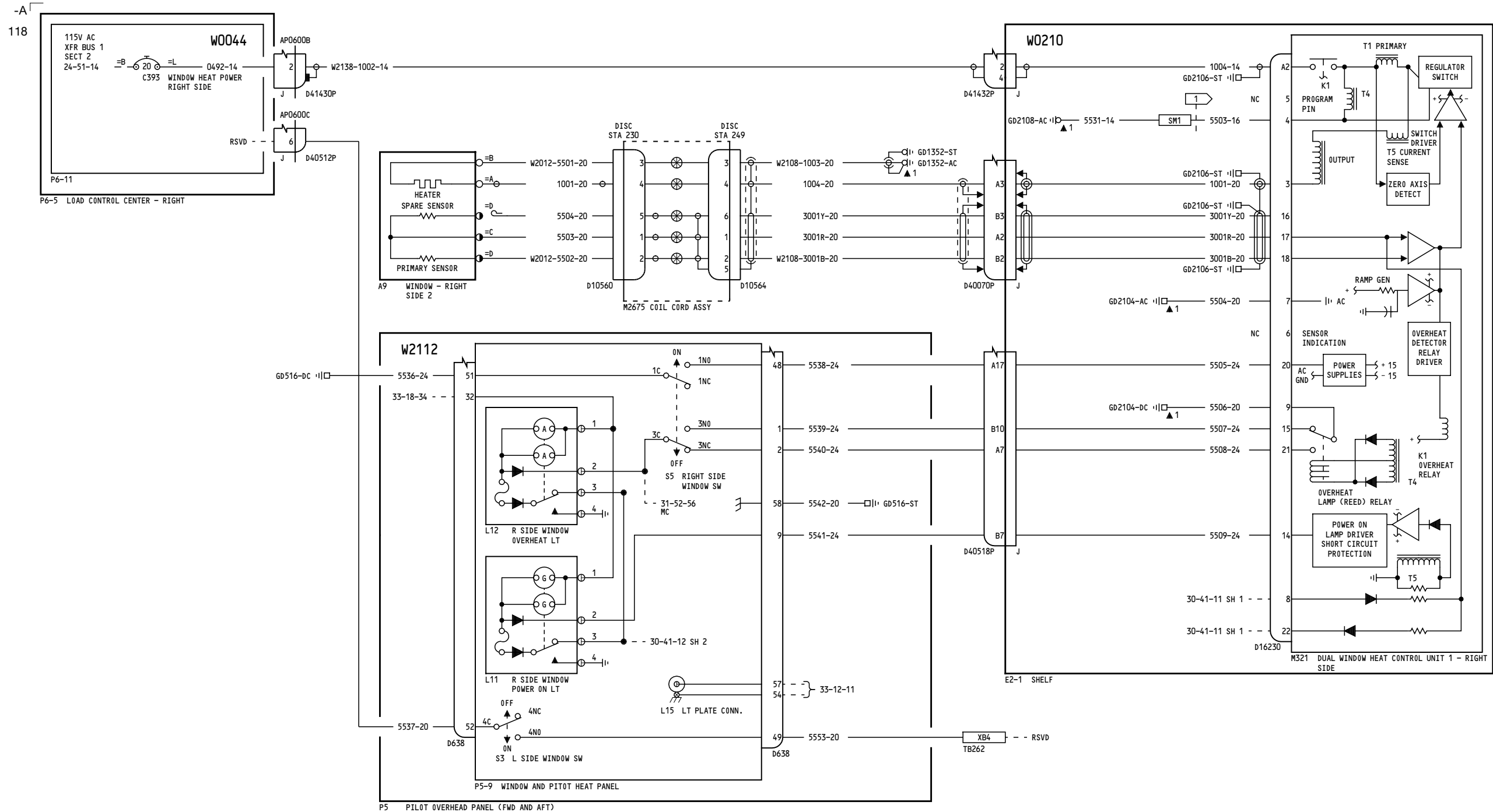
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YT117-YT120, YT132-YT133

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

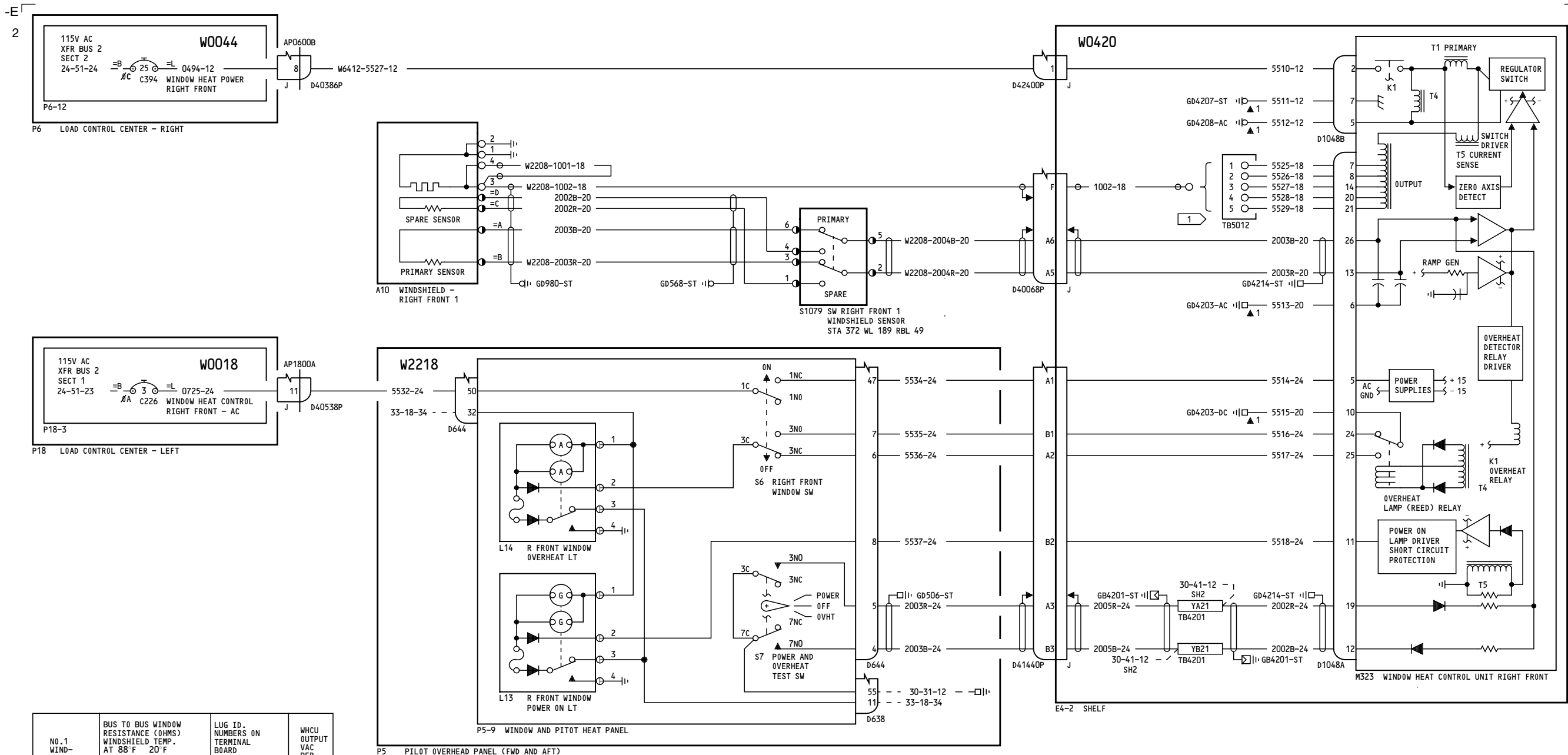
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NO. 1 WINDSHIELD CODE	BUS TO BUS WINDOW RESISTANCE (OHMS) WINDSHIELD TEMP. AT 88°F 20°F		LUG ID. NUMBERS ON TERMINAL BOARD TB5012	WHCU OUTPUT VAC PER TAP SET
	MIN	MAX		
NEW { H13 H12 H11	31.4	35.1	1	271
	35.1	38.8	2	285
	38.8	42.6	3	300
OLD {	42.6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

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.

YT101-YT112, YT126-YT130

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

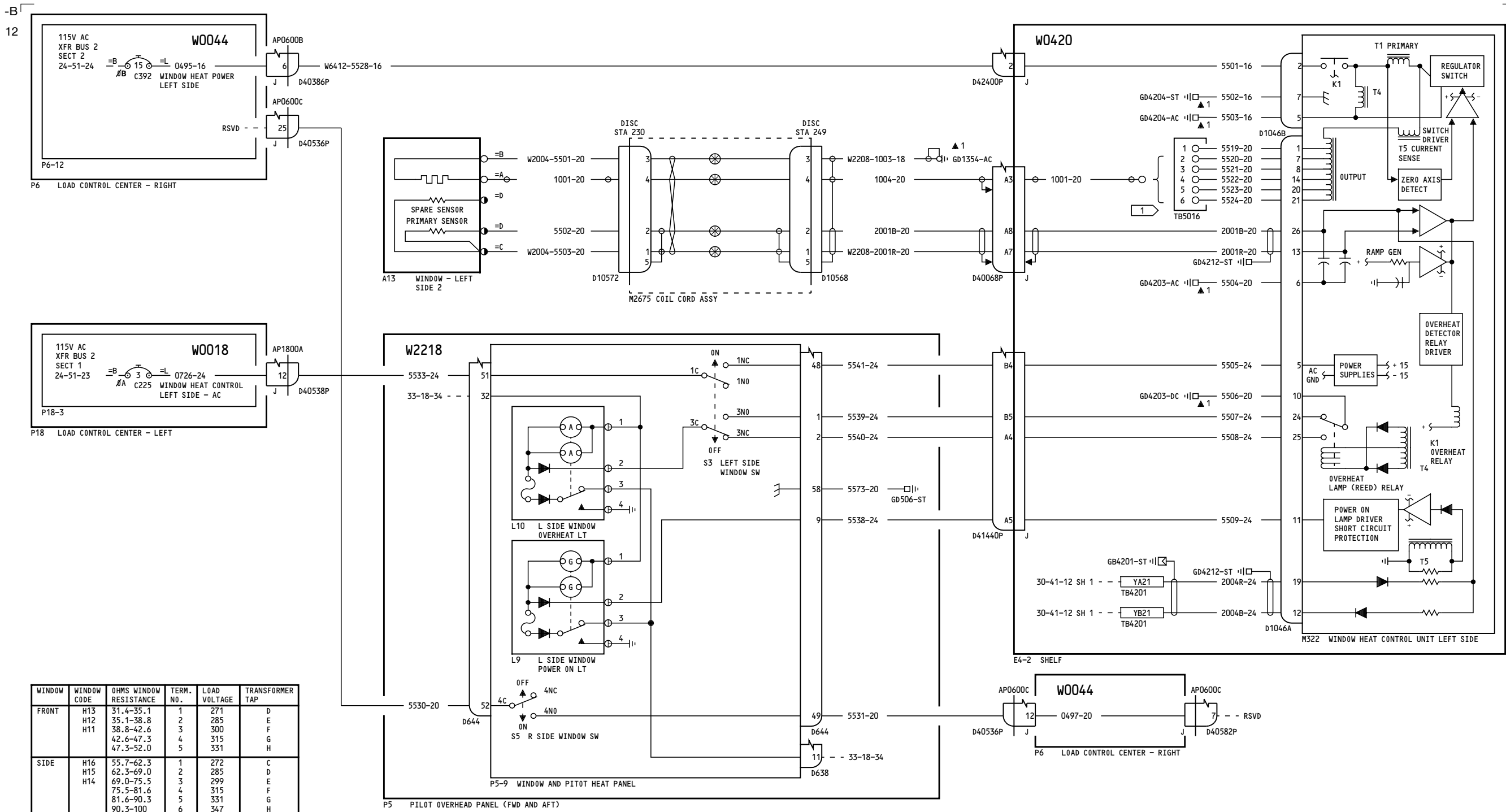
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WINDOW	WINDOW CODE	OHMS WINDOW RESISTANCE	TERM. NO.	LOAD VOLTAGE	TRANSFORMER TAP
FRONT	H13	31.4-35.1	1	271	D
	H12	35.1-38.8	2	285	E
	H11	38.8-42.6	3	300	F
		42.6-47.3	4	315	G
		47.3-52.0	5	331	H
SIDE	H16	55.7-62.3	1	272	C
	H15	62.3-69.0	2	285	D
	H14	69.0-75.5	3	299	E
		75.5-81.6	4	315	F
		81.6-90.3	5	331	G
		90.3-100	6	347	H

TABLE 1

NOTES:

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

YT101-YT112, YT126-YT130

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

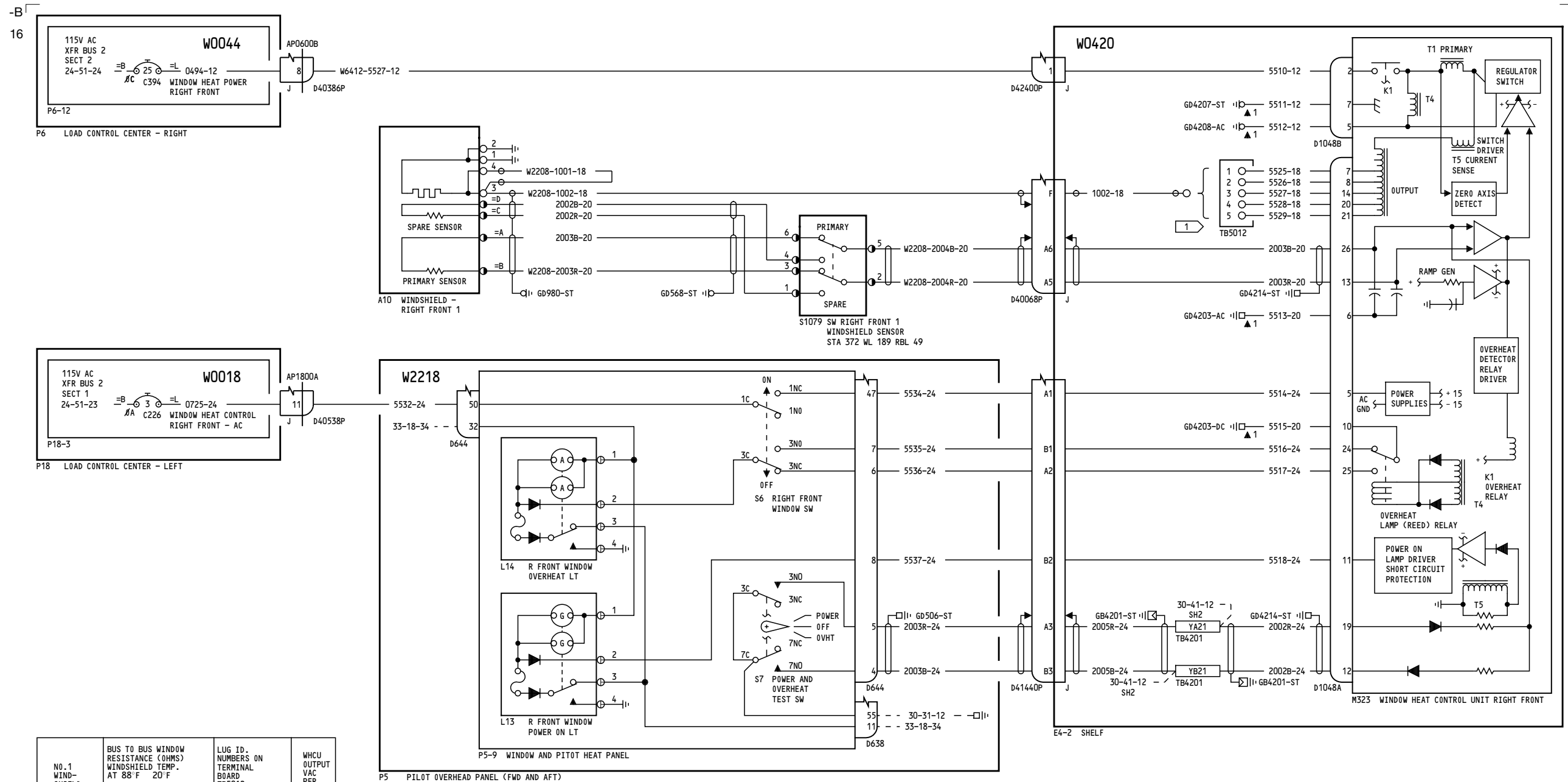
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NO. 1 WINDSHIELD CODE	BUS TO BUS WINDOW RESISTANCE (OHMS) WINDSHIELD TEMP. AT 88° F 20° F		LUG ID. NUMBERS ON TERMINAL BOARD TB5012	WHCU OUTPUT VAC PER TAP SET
	MIN	MAX		
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	35.1	38.8	2	285
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TABLE 1 (WINDOW RESISTANCE HOOK-UP TABLE)

## NOTES:

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

YT113-YT116, YT131

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

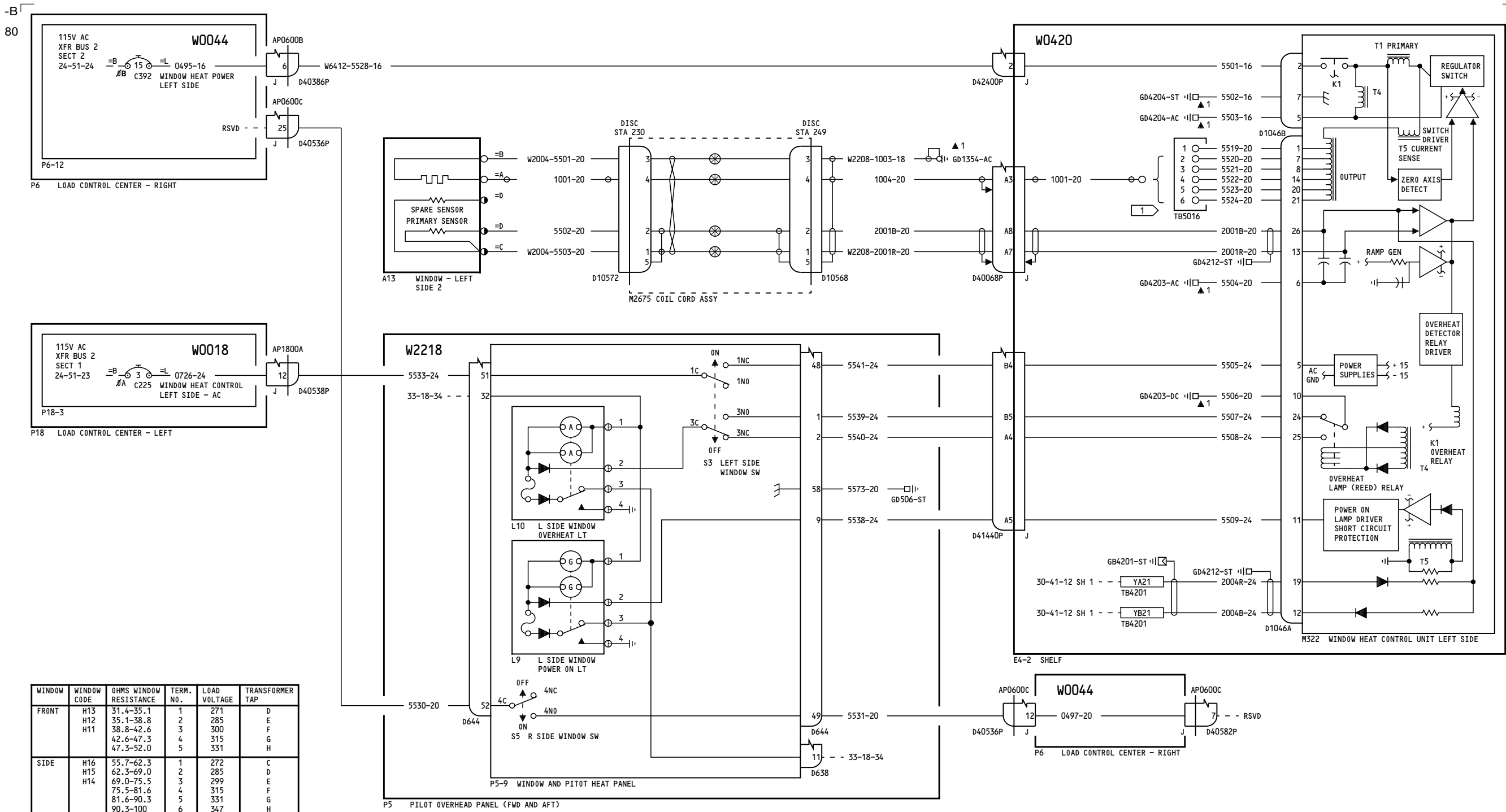
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NOTES:

- 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.

YT113-YT116, YT131

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

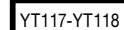
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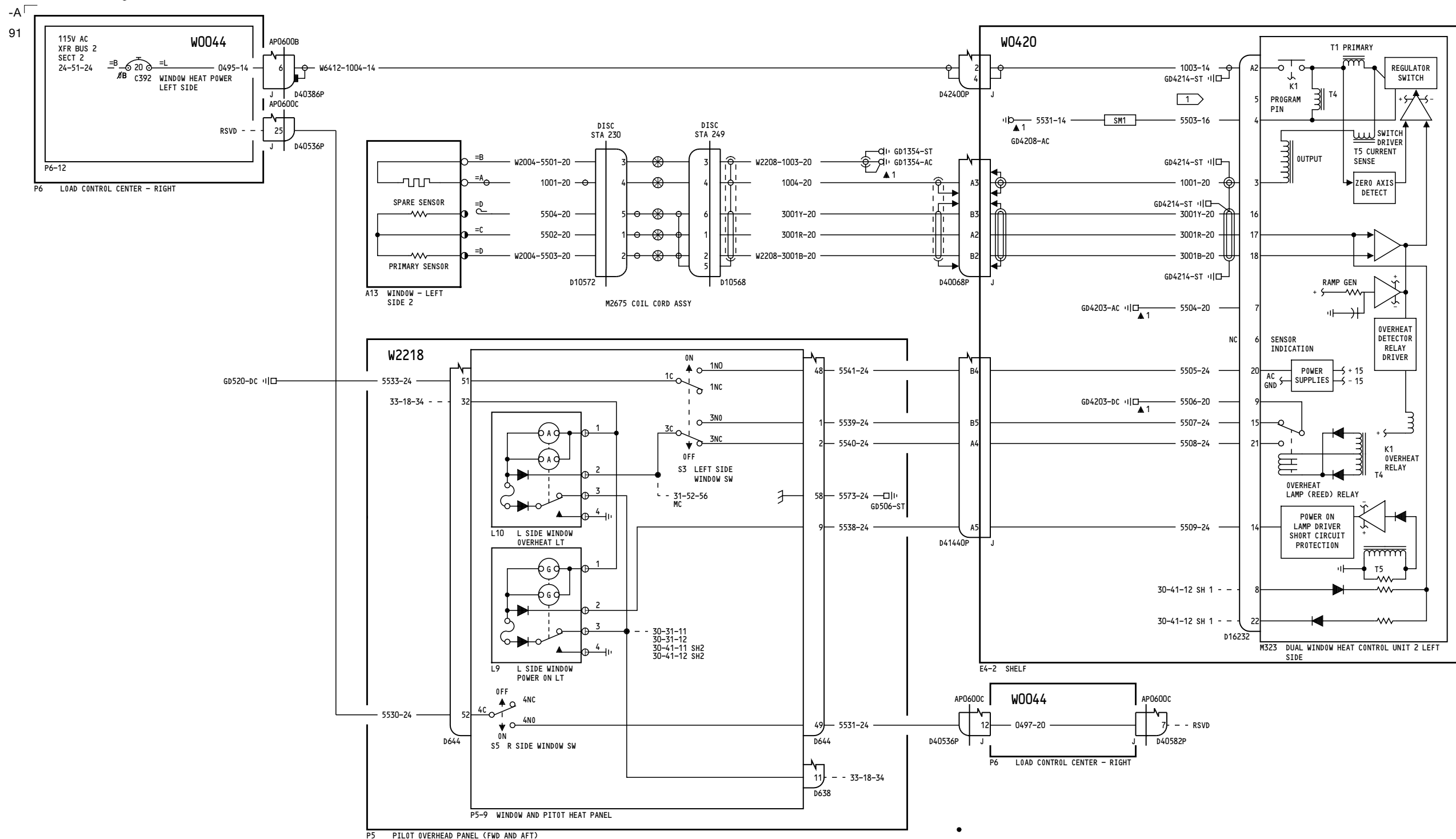
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1 MAXIMUM LENGTH NOT TO EXCEED 12 INCHES.

YT117-YT118

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

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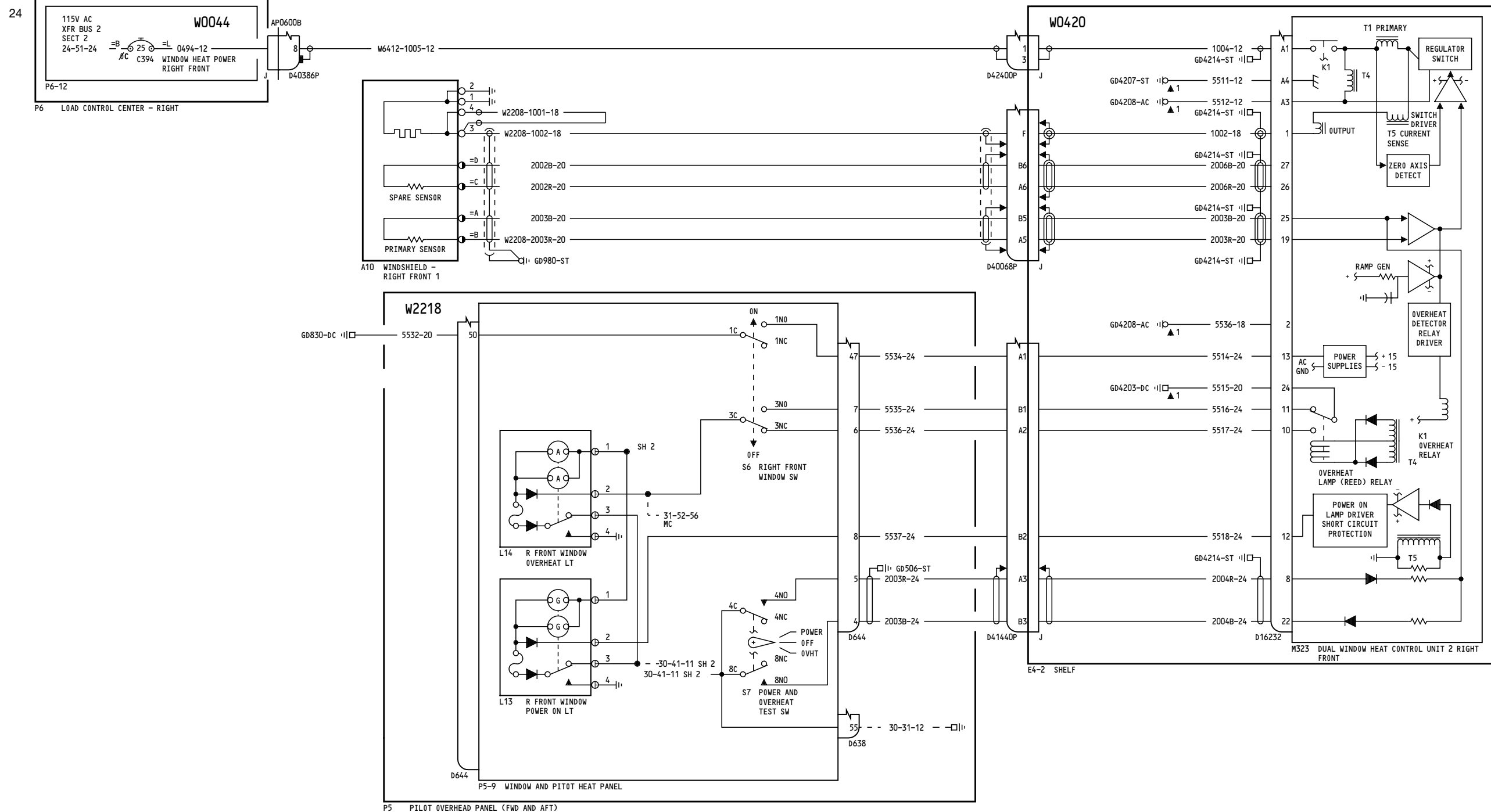
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YT119-YT120, YT132-YT133

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

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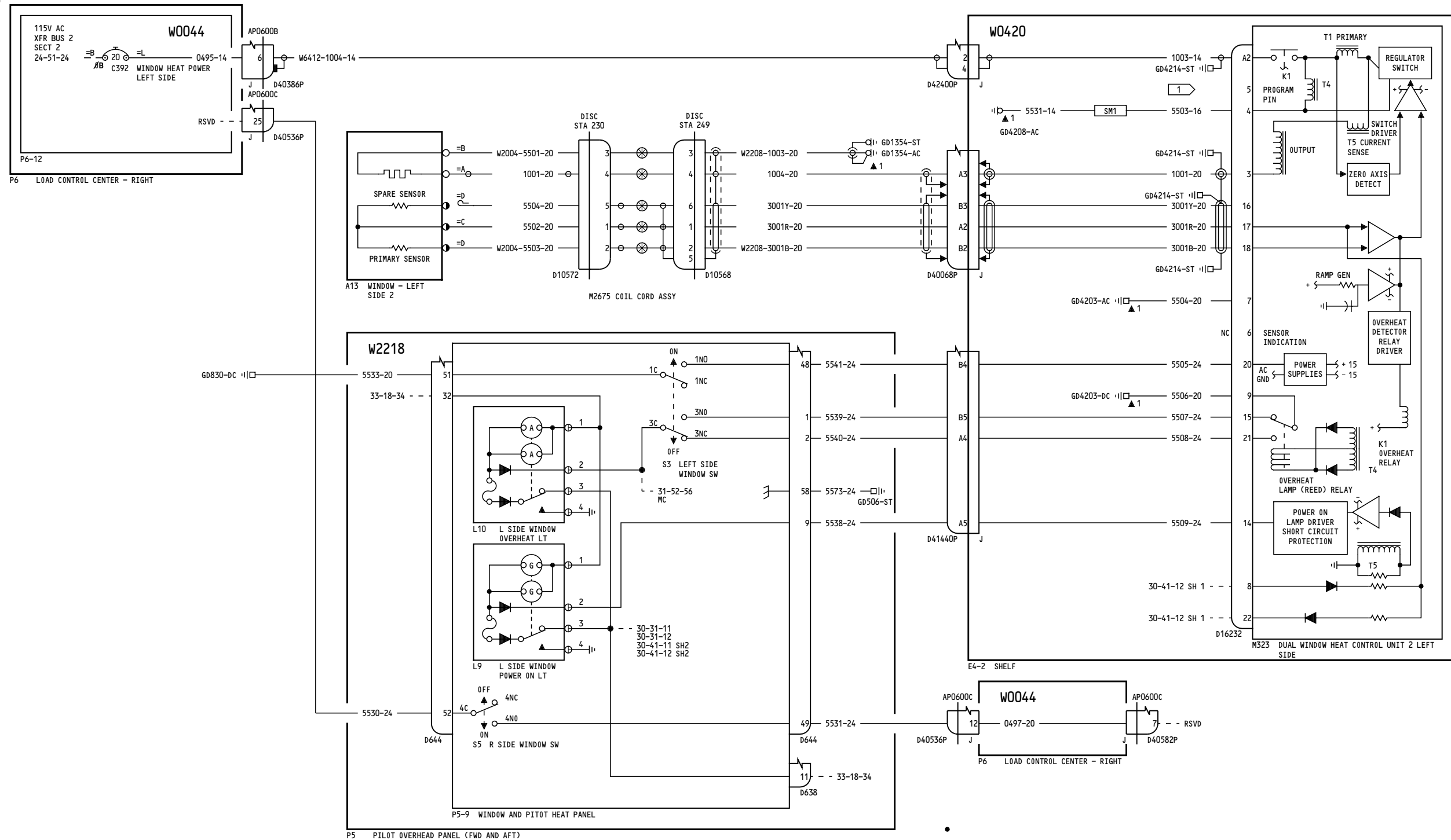
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1 MAXIMUM LENGTH NOT TO EXCEED 12 INCHES.

YT119-YT120, YT132-YT133

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

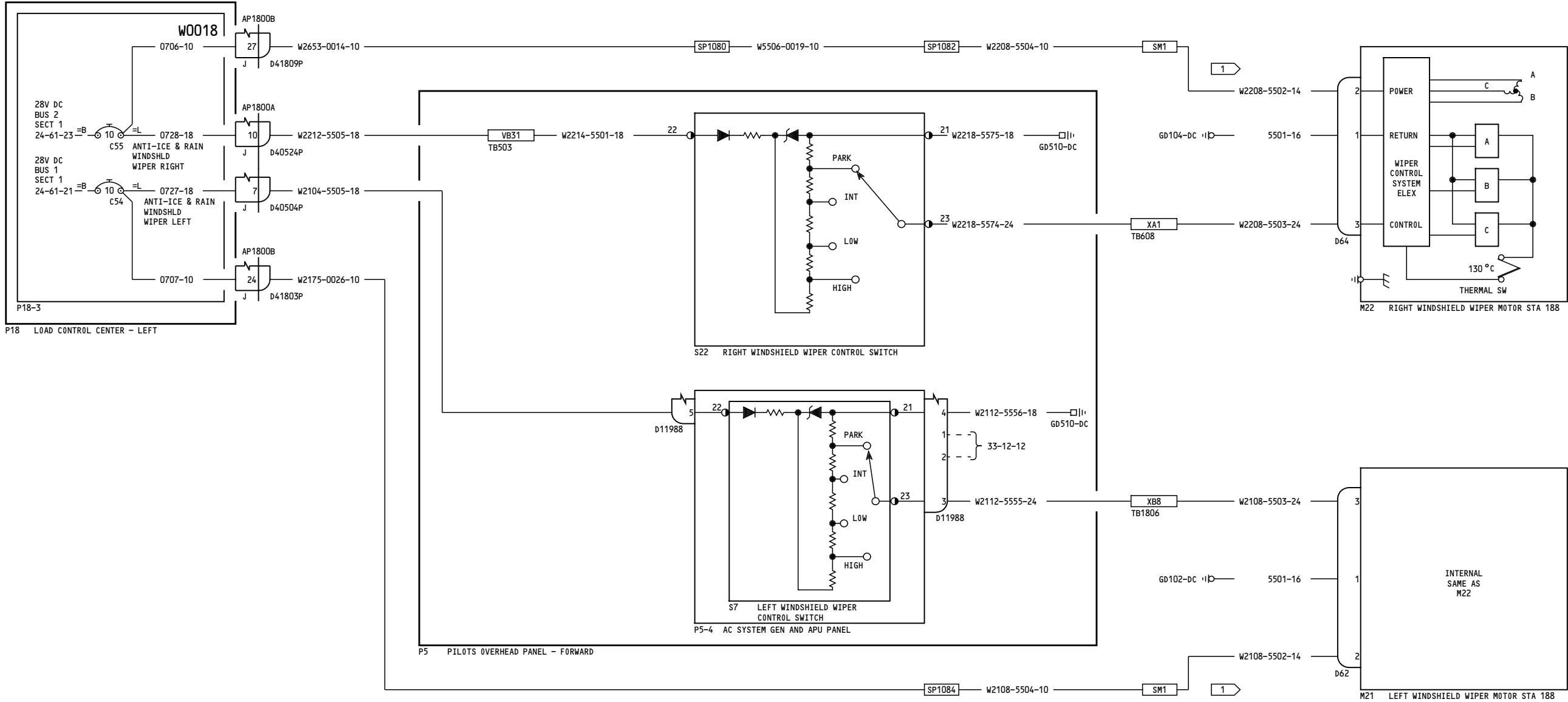
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**NOTES:**

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

ALL	<b>WINDSHIELD WIPERS</b>
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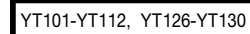
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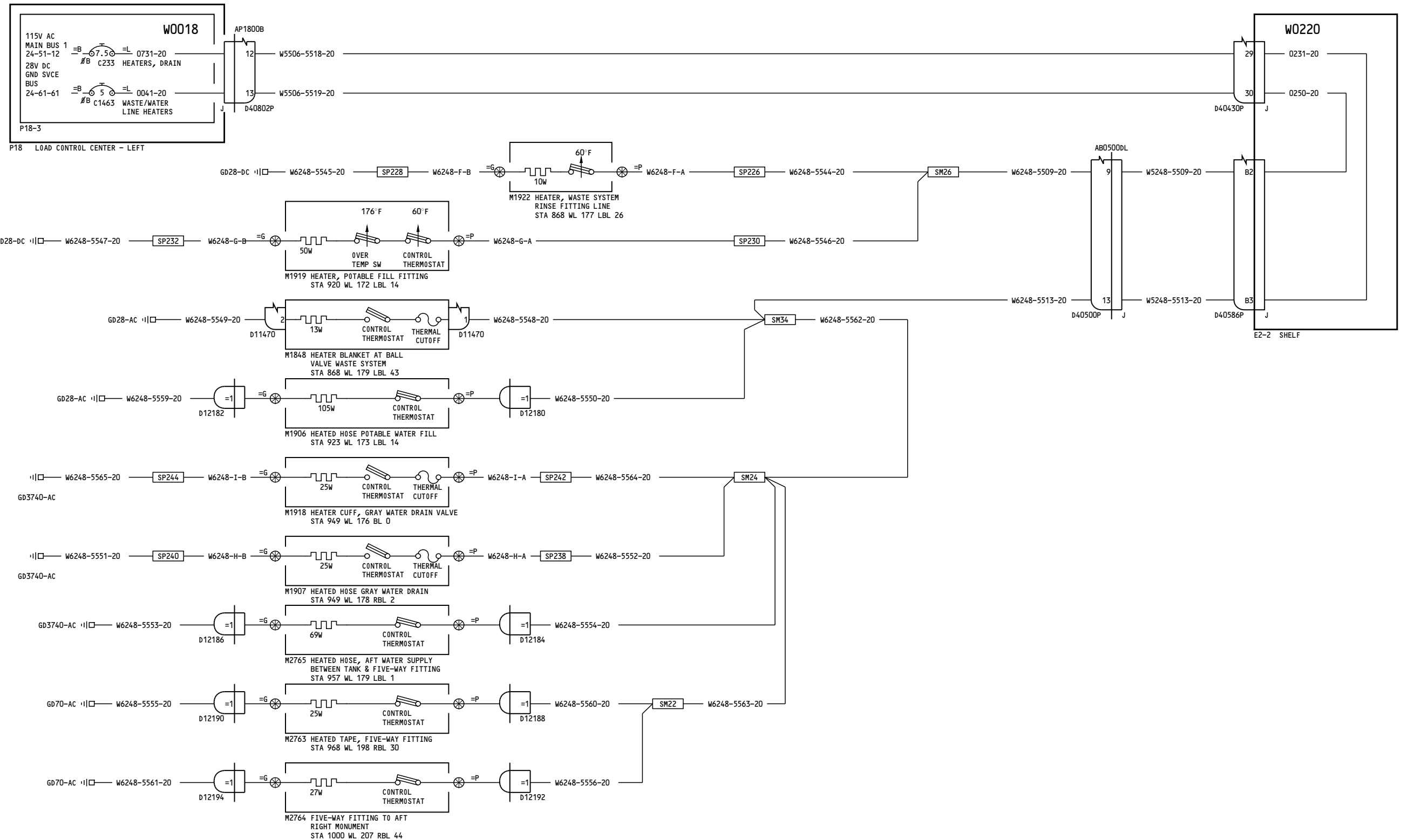
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YT101-YT112, YT126-YT130

**DRAIN HEATERS**

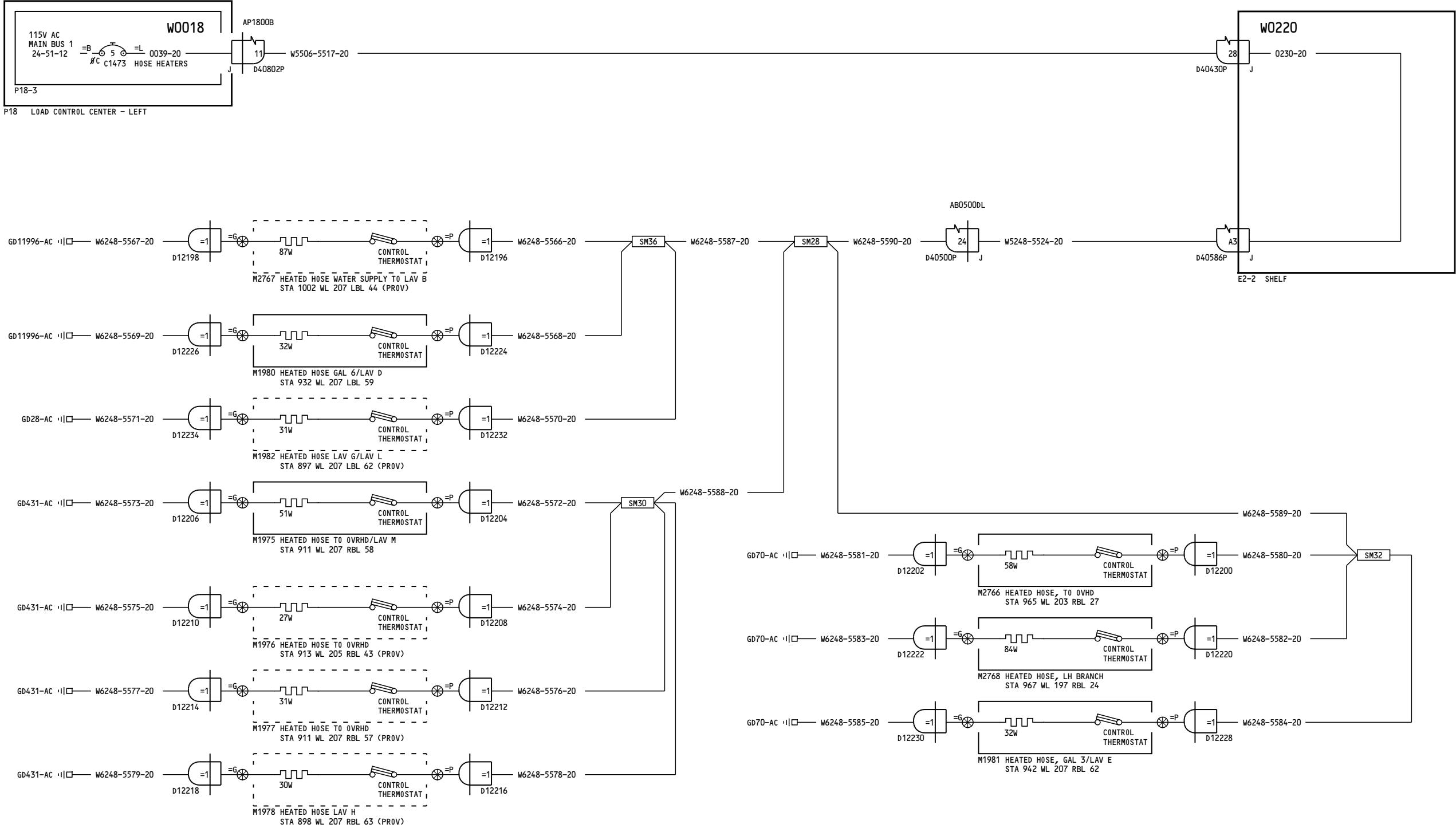
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YT101-YT112, YT126-YT130

**DRAIN HEATERS**

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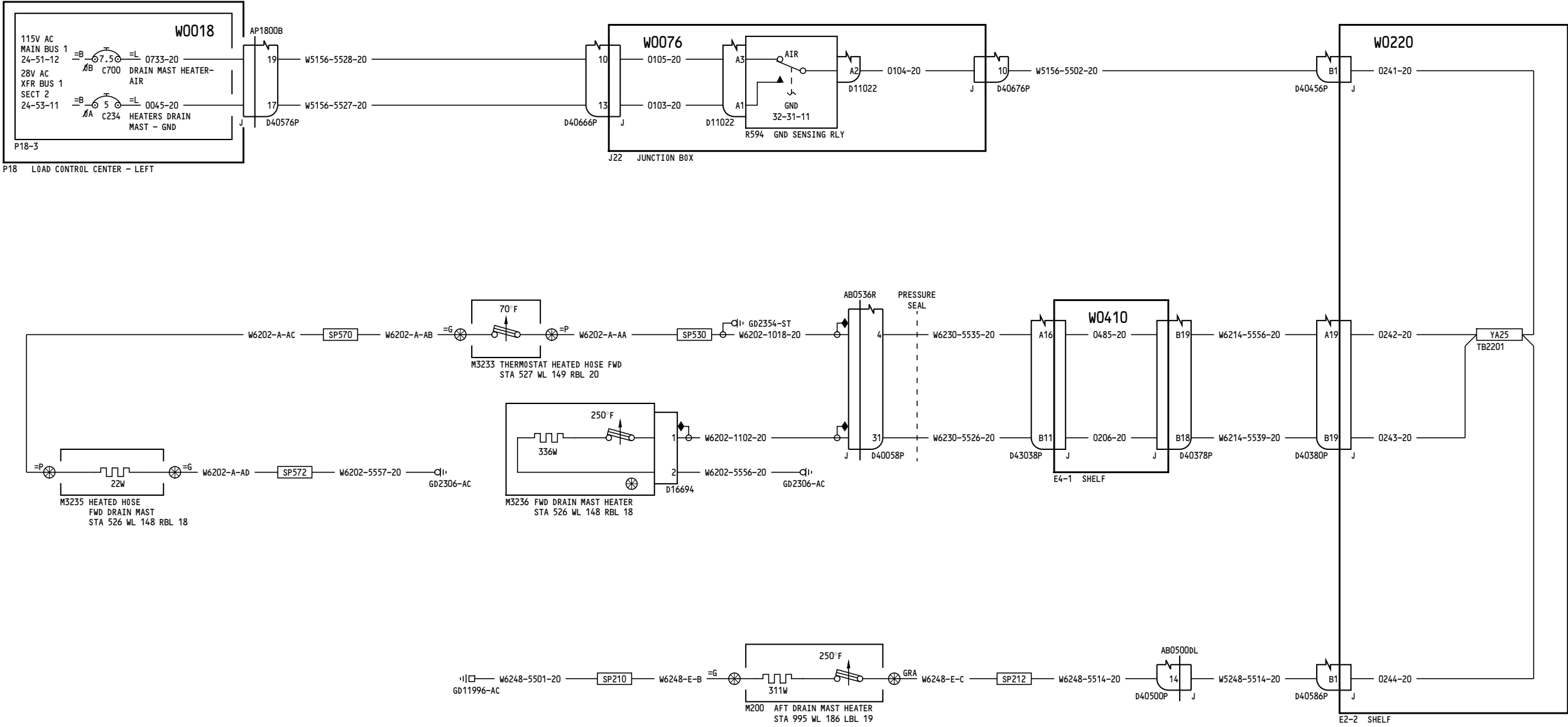
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YT113-YT120, YT131-YT133

DRAIN HEATERS

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**W0018**

115V AC  
MAIN BUS 1  
24-51-12  
28V DC  
GND SVCE  
BUS  
24-61-61  
P18-3

AP1800B  
12  
13  
D40802P

W5506-5518-20  
W5506-5519-20

0731-20  
HEATERS, DRAIN  
C233  
C1463  
0041-20  
WASTE/WATER  
LINE HEATERS

**P18 LOAD CONTROL CENTER - LEFT**

**W0220**

29  
30  
D40430P  
J  
0231-20  
0250-20

AB0500DL  
9  
13  
D40500P  
J  
D40586P  
J  
W5248-5509-20  
W5248-5513-20  
E2-2 SHELF

GD28-DC  
W6248-5545-20  
SP228  
W6248-F-B  
60°F  
10W  
M1922 HEATER, WASTE SYSTEM  
RINSE FITTING LINE  
STA 868 WL 177 LBL 26  
W6248-F-A  
SP226  
W6248-5544-20  
SM26  
W6248-5509-20

GD28-DC  
W6248-5547-20  
SP232  
W6248-G-B  
50W  
176°F  
60°F  
OVER  
TEMP SW  
CONTROL  
THERMOSTAT  
M1919 HEATER, POTABLE FILL FITTING  
STA 920 WL 172 LBL 14  
W6248-G-A  
SP230  
W6248-5546-20

GD28-AC  
W6248-5549-20  
D11470  
13W  
CONTROL  
THERMOSTAT  
THERMAL  
CUTOFF  
D11470  
M1848 HEATER BLANKET AT BALL  
VALVE WASTE SYSTEM  
STA 868 WL 179 LBL 43  
W6248-5548-20  
SM34  
W6248-5562-20

GD28-AC  
W6248-5559-20  
D12182  
105W  
CONTROL  
THERMOSTAT  
D12180  
M1906 HEATED HOSE POTABLE WATER FILL  
STA 923 WL 173 LBL 14  
W6248-5550-20

GD3740-AC  
W6248-5565-20  
SP244  
W6248-I-B  
25W  
CONTROL  
THERMOSTAT  
THERMAL  
CUTOFF  
W6248-I-A  
SP242  
W6248-5564-20  
SM24

GD3740-AC  
W6248-5551-20  
SP240  
W6248-H-B  
25W  
CONTROL  
THERMOSTAT  
THERMAL  
CUTOFF  
W6248-H-A  
SP238  
W6248-5552-20

GD3740-AC  
W6248-5553-20  
D12186  
69W  
CONTROL  
THERMOSTAT  
D12184  
M1907 HEATED HOSE GRAY WATER DRAIN  
STA 949 WL 178 RBL 2  
W6248-5554-20

GD70-AC  
W6248-5555-20  
D12190  
25W  
CONTROL  
THERMOSTAT  
D12188  
M2765 HEATED HOSE, AFT WATER SUPPLY  
BETWEEN TANK & FIVE-WAY FITTING  
STA 957 WL 179 LBL 1  
W6248-5560-20  
SM22  
W6248-5563-20

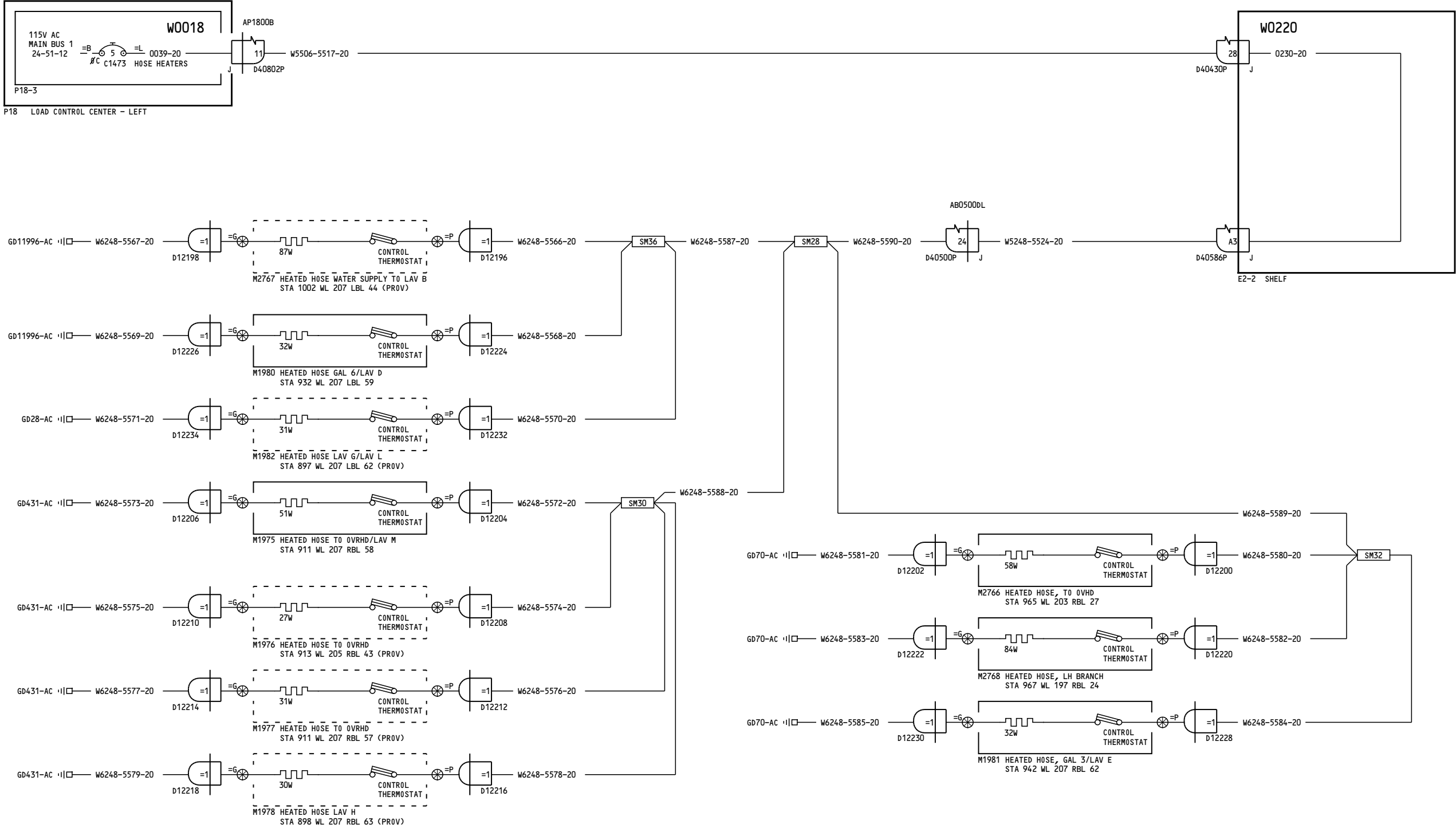
GD70-AC  
W6248-5561-20  
D12194  
27W  
CONTROL  
THERMOSTAT  
D12192  
M2763 HEATED TAPE, FIVE-WAY FITTING  
STA 968 WL 198 RBL 30  
W6248-5556-20

M2764 FIVE-WAY FITTING TO AFT  
RIGHT MONUMENT  
STA 1000 WL 207 RBL 44

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YT113-YT120, YT131-YT133

DRAIN HEATERS

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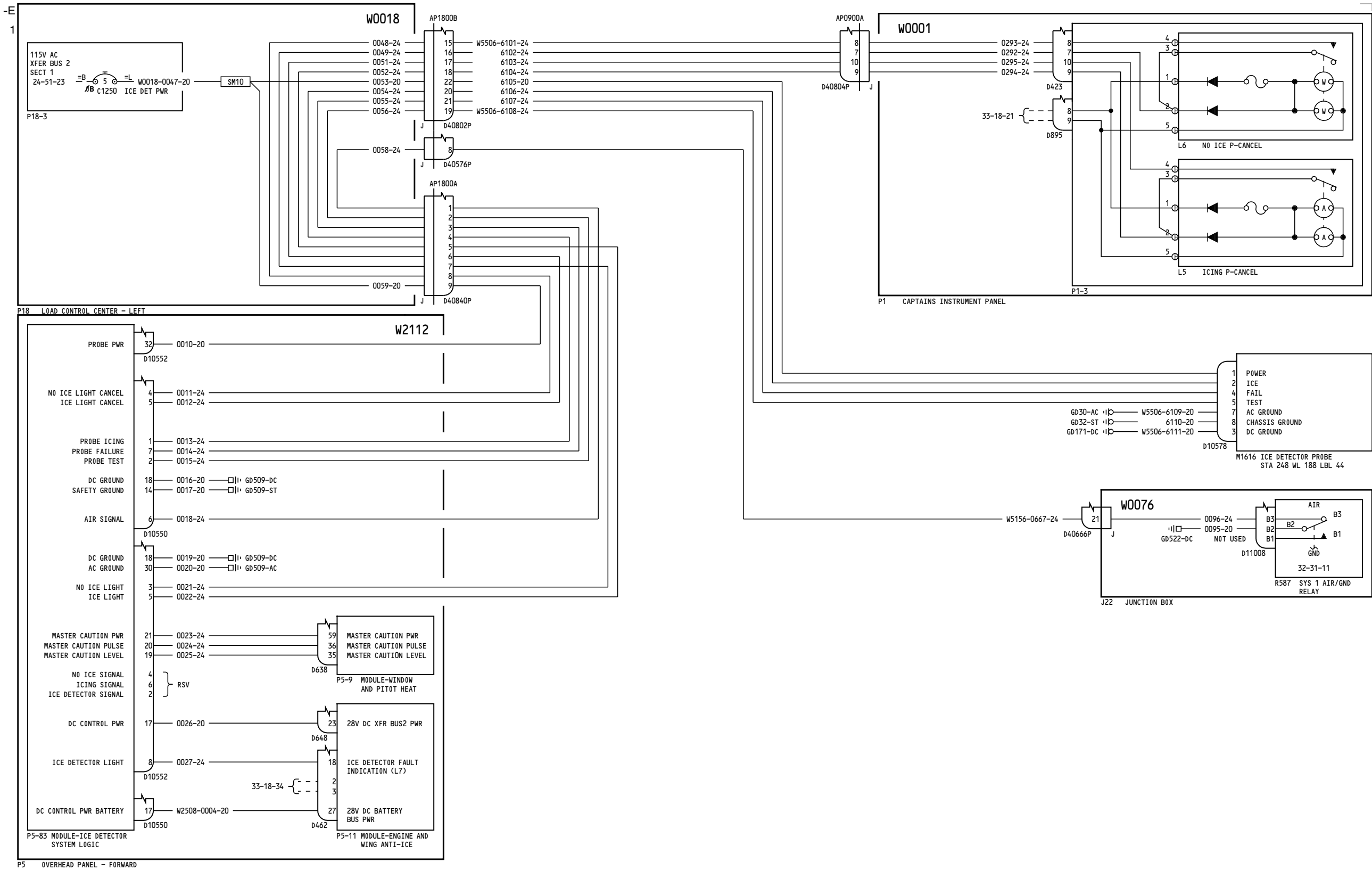
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ALL

ADVISORY ICE DETECTION  
SYSTEM

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