CEBM032500

Shop Manual

KOMATSU®

730E-8

DUMP TRUCK

SERIAL NUMBERS **730E-8 A40018-A40034**

ENGINE **16V159**

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Capacitor discharge system

The control cabinets are equipped with two capacitor charge lights, one on the exterior of the cabinet and one in the interior. The capacitor charge lights, when off, indicate to service personnel that the drive system is safe to work on. Certain drive system failures, however, can result in a condition where one or more capacitors can remain in a charged state even though the capacitor charge lights are off.

Because a danger can still exist with the capacitor charge lights off, it is necessary to adhere to the following instructions before touching or servicing drive system components. Only authorized service personnel are allowed to service the drive system.

Refer to the shop manual for rules when servicing the drive system. Adhere to the proper procedures for disabling the drive system.

Necessary tools

- 2000VDC meter kit (58B-06-00800)

  (Includes the parts for the volt meter assembly in Figure 00-7, the grounding sticks in Figure 00-8 and high voltage gloves)

- Additional Personal Protective Equipment (PPE) for working with 2000VDC meter, including safety shoes and safety glasses

- Multimeter for ground resistance measurement



FIGURE 00-7. VOLT METER ASSEMBLY

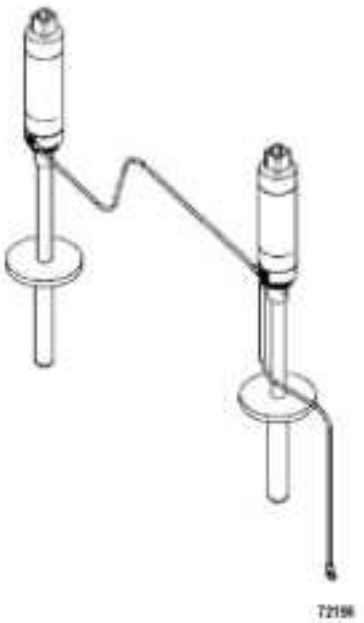


FIGURE 00-8. GROUNDING STICKS

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Related circuit diagram
SAME SCHEMATIC AS A018.

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Fault Code A231: The body is up while traveling or intending to travel

Operator Action	Lower body
Fault Code	A231
Description	The body is up while traveling or intending to travel.
Fault Conditions	Sets after 30 seconds if body is up with selector in forward or reverse and truck moving or engine running. Truck moving is defined as speed greater than 0 or if no communication from drive system and the park brake not set. Park brake set is defined as closure of the park brake set pressure switch and opening of the park brake release pressure switch. Resets if body is down, selector not in forward or reverse, and truck not moving and engine not running.
Operator Alerting System Response	Sound Buzzer Flash IM Warning Indicator Display Operator Action: LOWER BODY Display Fault Description: BODY UP Display Fault Code: A231
Resulting Problem(s)	Operation with body up can cause accidents or damage to pivot pins.
Related Information	A laptop running "IM Realtime Data Monitor" software may be required to resolve this fault.

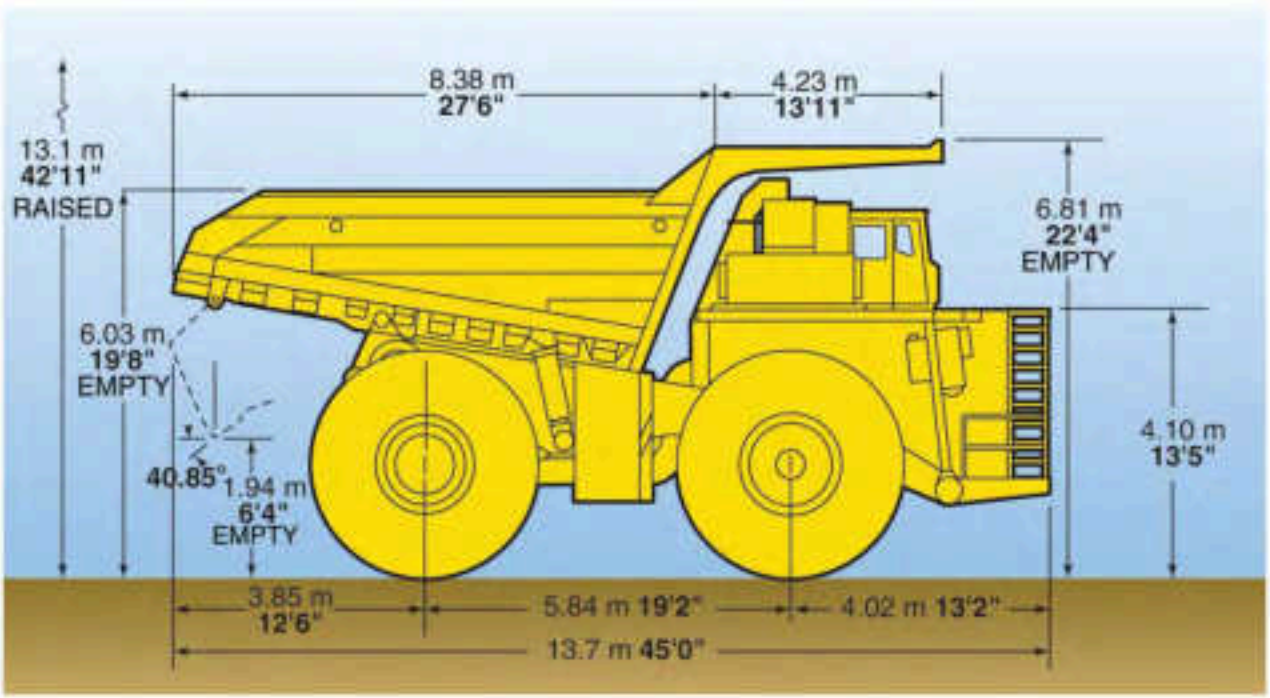
Table

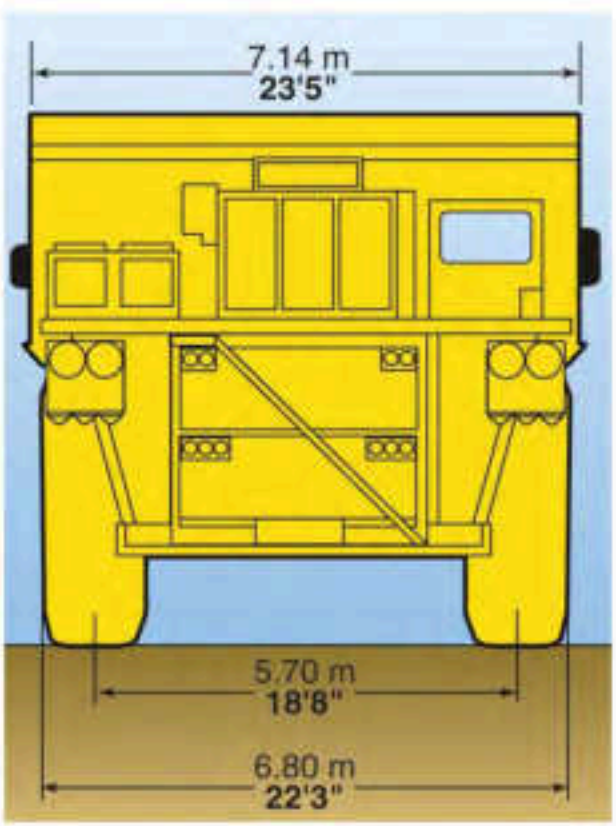
1. No correction is necessary for normal bleeding with the truck properly parked.
2. This fault's logic contains more than one parameter, each of which may have it's own related fault code(s). This fault may be resolved by resolving the parameter(s) active fault code(s). Refer to the Troubleshooting Instructions for the active parameter fault(s).
3. If there are no active parameter fault codes then based on the truck's setup while this fault is active, determine which of the parameters in the Table is not shown in its expected state on the IM Realtime Data Monitor program. Refer to the schematic to identify which item(s) may be causing the parameter(s) to be in the unexpected state. Troubleshoot these items.
4. If this fault is not currently active or if no parameters are currently in the unexpected state and the malfunction is still unresolved then check each of the parameters in the Table for proper functionality. Troubleshoot all item(s) related to the parameter(s) which are found to be malfunctioning.

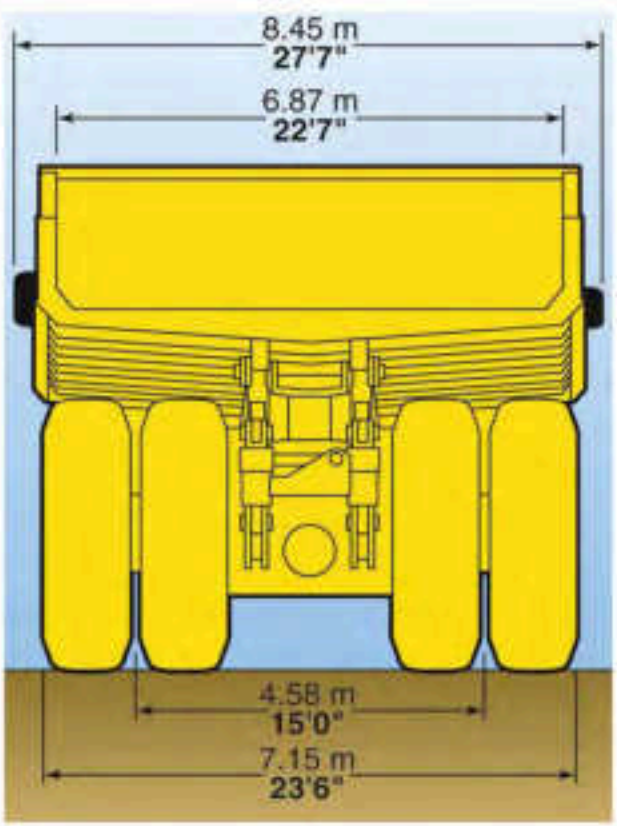
Parameter	Expected State and/or Related Fault(s)
Body Up (CAN/RPC) (IM1-i,j,k)	0: Body is raised off the truck frame 1: Body is down on the truck frame Fault(s): A233
Engine Speed [RPM] (CAN/J1939) (IM1-q,r,s)	Less than 300 RPM: engine is not running Greater than 300 RPM for 4 seconds: engine is running Fault(s): A184
Selector Switch (Forward) (CAN/RPC) (IM1-l,j,k)	0: Selector Switch is not in Forward 1: Selector Switch is in Forward Fault(s): A233
Selector Switch (Reverse) (CAN/RPC) (IM1-l,j,k)	0: Selector Switch is not in Reverse 1: Selector Switch is in Reverse Fault(s): A233

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Specification drawing







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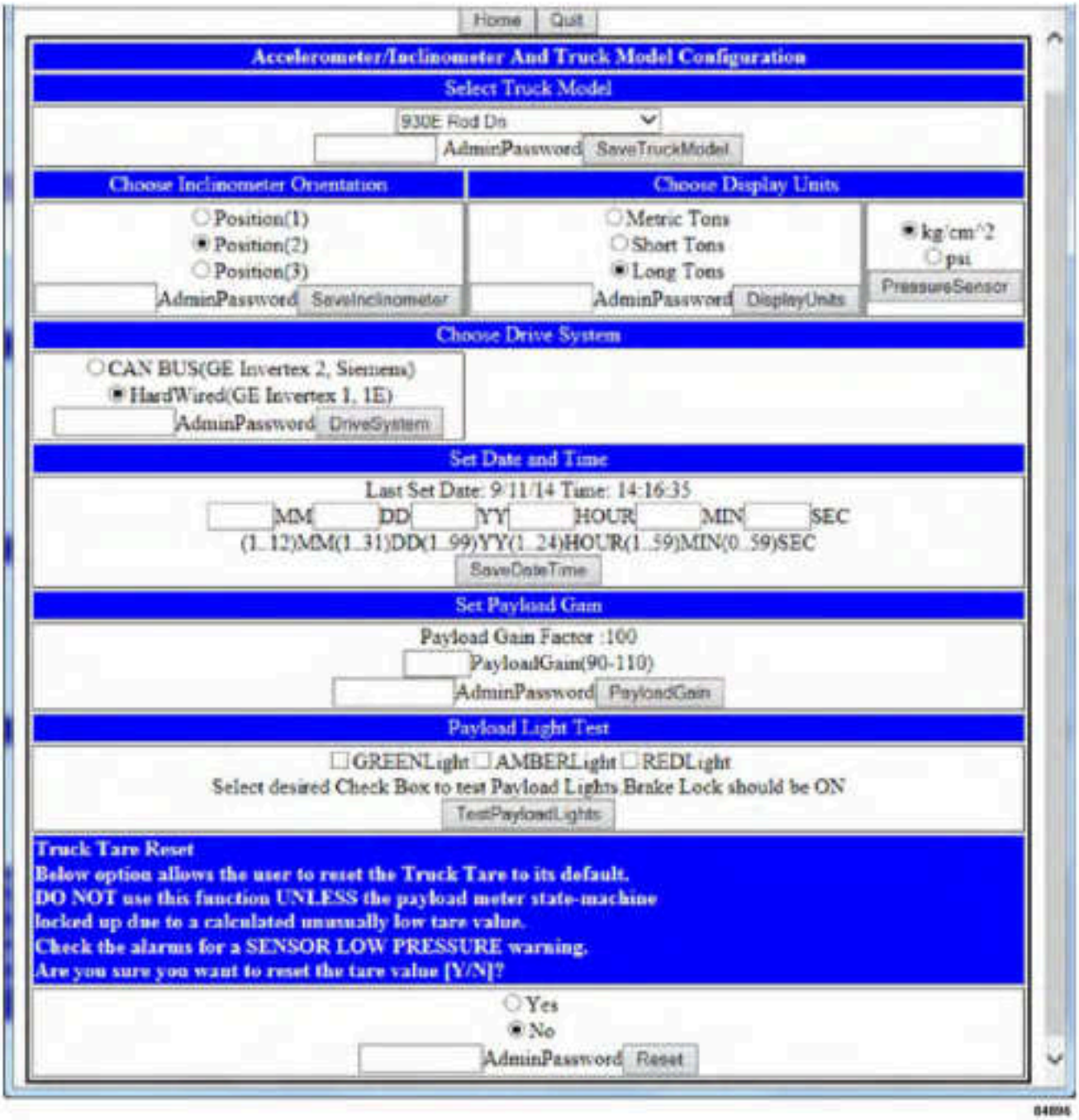


FIGURE 30-5. PLM IV SYSTEM CONFIGURATIONS PAGE

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WIRE TABLE

(CONTINUED ON DIAGRAM 18 AND 19)

WIRE NAME	SHT-ZONE	CONN FROM	CONN TO
-15VDI-001	12-G10	J07-2	DID-9
-15VDI-002	12-G8	TB42-B2	P07-2
-15VDI-003	12-G6	DCDCPS-11	TB42-B1
0-000	3-D2	BATT3(+)-1	BATT2(-)-1
0-001	3-E2	BATT3(+)-1	BATT4(-)-1
0-002	6-C3	GB31A-A1	P804-J
0-003	6-C3	GB31A-A2	P804-K
0-004	6-C3	GB31A-A3	P804-L
0-005	3-N12	REP-85	GB80-A1
0-006	6-L3	ERPSW-1	GB80-A2
0-007	6-L1	GB80-A1	P803-1
0-008	6-L3	GB80-A2	P816-4
0-009	3-G15	PLMSW(-)	GB80-A3
0-010	3-J14	STRT2-2C	PLPM(-)
0-011	3-J12	STRT1-2B	STRT2-2A
0-012	3-J7	ALT(-)	GB70-A1
0-013	3-J14	DISC(-)-4	STRT2-2B
0-014	3-H2	STRT1-2A	DISC(-)-3
0-015	6-E6	TB31-W1	R1-1
0-016	11-G14	GB8-3	HDL2-B
0-017	11-G14	GB8-3	HDL1-B
0-018	11-G11	GB8-3	J240-P
0-019	10-M18	HLS-2	GB8-1
0-020	10-N18	GB8-1	D3-2
0-021	10-M18	GB8-1	D2-1
0-022	13-F15	GB8-2	BLS-2
0-023	13-F14	GB8-2	PBSPS-B
0-024	13-G14	GB8-4	LBAPS-B
0-025	13-G14	GB8-4	SBDPS-B
0-026	13-G15	GB8-4	PBRPS-B
0-027	11-G10	TB31-W2	P240-P
0-028	12-F15	PX4-25	TB21-W1
0-029	14-L12	TB40-D1	P264-37
0-030	12-H15	TB21-W2	P1-11
0-031	12-F17	TB21-W2	P1-12
0-032	12-E14	P1-19	TB21-V1
0-033	12-E14	TB21-V1	P1-20
0-034	12-F17	TB21-X1	IM1-C
0-035	13-J11	TB21-X1	SP021
0-037	12-F15	TB21-X2	R18-2
0-038	13-M14	TB21-X2	R17-2
0-039	13-A13	TB21-X2	R19-2
0-040	13-C3	TB21-V2	TB32-C3
0-041	13-D3	TB30-R1	TB21-V2
0-042	13-F5	TB31-B1	TB21-V2
0-043	13-B3	TB21-W3	TB30-V1
0-044	13-C3	TB38-B1	TB21-W3
0-045	13-G5	TB31-D1	TB21-W3
0-046	13-E3	TB30-J1	TB21-W4
0-047	13-E3	TB30-K1	TB21-W4
0-048	7-I6	RB9-K4(C)	RB9-K4(-)
0-049	5-H4	GB31A-A4	12VPR-85
0-050	5-G4	GLPR-85	GB31A-A4
0-051	5-H4	GB31A-A4	DLPR-85
0-052	5-H2	GB31A-B1	KSWPR-85
0-053	5-C6	GB31A-B2	12VCN-GNDa
0-054	8-L9	RB6-K1(-)	RB6-K2(-)
0-055	8-L10	GB31A-B1	RB6-K2(-)
0-056	8-M10	RB6-K2(-)	GB31A-B1
0-057	8-N9	RB6-K3(-)	RB6-K4(-)
0-058	9-K11	RB6-K5(-)	RB6-K6(-)
0-059	9-L11	RB6-K6(-)	RB6-K7(-)
0-060	14-H11	GB31A-C1	RB10-K4(-)
0-061	14-H12	RB10-K4(-)	RB10-K3(-)
0-062	14-H12	RB10-K3(-)	RB10-K2(-)
0-063	11-G9	RB6-K8(-)	GB31A-C1
0-064	9-L12	GB31A-C1	RB6-K7(-)
0-065	14-E11	RB10-K1(-)	GB31A-C2
0-066	7-I8	RB9-K4(-)	GB31A-C2
0-067	12-F17	TB21-V4	GB31A-C3
0-068	7-G9	RB7-K7(-)	GB31A-C3
0-069	5-H2	RB8-K7(-)	GB31A-C3
0-070	9-H2	RB6-K5(-)	GB31A-C4
0-071	7-K8	RB7-K8(-)	GB31A-C4
0-072	7-N9	RB7-K6(-)	GB31A-C4
0-073	5-B20	DL1-B	GB31A-D1
0-074	5-I2	DL2-B	GB31A-D1
0-075	5-I2	DL3-B	GB31A-D1
0-076	5-D20	DL4-B	GB31A-D2
0-077	5-E20	DL5-B	GB31A-D2
0-078	5-I4	DL6-B	GB31A-D2
0-079	11-D11	RB7-K1(-)	RB7-K2(-)
0-080	11-E11	RB7-K2(-)	RB7-K3(-)
0-081	11-E12	RB7-K3(-)	GB31A-D3
0-082	9-E14	RB7-K5(-)	GB31A-D3
0-083	7-J8	RB8-K2(-)	GB31A-D3
0-084	7-L8	RB8-K3(-)	GB31A-D4
0-085	13-C17	RB9-K1(-)	GB31A-D4
0-086	13-E6	TB30-J4	TB30-K2
0-087	13-D6	TB30-R2	TB21-V3
0-088	13-F7	TB21-V3	TB31-B2
0-089	13-E6	TB31-D2	TB30-J4
0-090	13-E6	TB30-J4	TB30-V2
0-091	13-B6	TB30-J3	TB36-B2
0-092	13-E3	TB30-J3	TB30-J2
0-093	13-C6	TB21-V3	TB32-C2
0-094	16-F7	JB12D-8	DPS-C
0-095	16-F2	JB12D-7	P7-6
0-097	16-G6	CAR-85	JB12D-5
0-098	16-H6	JB12D-4	LUR-85
0-099	16-I6	GLAR-85	JB12D-3
0-100	16-I8	GLA-2	JB12D-2
0-101	16-H5	CAR-85	CAR-30
0-102	16-E17	GB31B-A2	J12-40
0-103	10-E12	LUESL-2	P503-2
0-104	10-F12	LLESL-2	P503-4
0-105	3-F8	ESREL1-85	GB70-A2
0-106	10-F19	J503-2	GB70-A2
0-107	3-H10	ESREL2-85	GB70-A4
0-108	10-F15	J503-4	GB70-A4
0-109	6-N12	ORCM_CP-2	GB70-A3
0-110	16-E14	P12-40	P538-3
0-112	9-E21	LDLLT-2	GB70-B1
0-113	9-F21	GB70-B1	LDLT-2
0-114	8-L17	GB70-B2	HMLLB-2
0-115	8-N17	GB70-B2	HMLHB-2
0-116	9-C12	GB70-B3	LFLT-2
0-117	8-K17	GB70-B3	LMLLB-2
0-118	8-M17	GB70-B4	LMLHB-2
0-119	9-D21	RDLLT-2	GB72-A1
0-120	9-E21	GB72-A1	RDLT-2
0-121	8-M17	GB72-A2	HMRLB-2
0-122	8-G17	GB72-A2	HMRHB-2
0-123	8-L17	GB72-A3	LMRLB-2
0-124	9-B12	GB72-A3	RFLT-2
0-125	8-G17	P520_CP-2	GB72-A4
0-126	8-N17	GB72-A4	LMRHB-2
0-127	10-F20	P504-2	RUESL-2
0-128	10-G20	P504-4	RLESL-2
0-129	10-E21	P504-5	RESLSW-1
0-130	10-E19	J504-5	GB72-B1
0-131	10-F18	GB72-B2	J504-2
0-132	10-F18	GB72-B2	J504-4
0-133	6-M14	GB72-B3	J505_CP-4
0-134	6-M14	GB72-B3	J505_CP-6
0-135	13-G13	GB72-B4	P511-A
0-137	5-M5	GB12-A1	J601-2
0-138	5-M5	GB12-A1	J601-4
0-139	5-N8	GB12-A2	J602-B
0-140	9-B5	P22_CP-B	GB10-A1
0-141	9-C5	P22_CP-B	P22_CP-D
0-142	9-A8	GB12-A3	GB10-A2
0-143	11-C12	GB10-A1	P23-D
0-144	9-A5	GB10-A1	P24-B
0-145	11-B10	P23-5	P23-B
0-146	11-C10	P23-D	P23-B
0-147	9-F5	P24-B	P24-D
0-148	11-G5	P08-85	GB10-A3
0-150	12-K7	GB10-A3	P35-B
0-151	11-N5	P25-D	GB10-A3
0-152	8-I11	P25-D	P25-B
0-153	12-N7	P33-D	P33-B
0-154	12-M5	GB10-A4	P34-D
0-155	12-M5	P34-6	GB10-A4
0-156	12-M7	P34-B	P34-D
0-157	12-M5	P33-D	GB10-A4
0-158	12-P5	GB10-B2	P37-D
0-160	11-G5	GB10-B1	P08-85
0-162	11-G5	P36-B	GB10-B1
0-163	7-L15	P39-B	P39-5
0-164	7-L15	P39-5	P39-D
0-165	9-M8	P36-B	P36-D
0-166	11-G5	P39-B	GB10-B1
0-167	12-P4	GB10-B2	J05-31
0-168	11-G8	P016-1	GB10-B3
0-169	11-M7	GB10-B3	WADT-3
0-170	11-G10	GB10-B3	P014-B
0-171	15-G19	GB12-A4	DIAG1-A
0-172	15-G18	GB12-A4	J251-12
0-173	12-M15	P209-85	GB10-B4
0-174	12-H20	J04-O	CNA-37
0-175	12-H20	J04-P	CNA-38
0-176	12-M16	J230-A	GB10-B4
0-177	10-I14	P072-3	GB12-B1
0-178	10-I14	P072-4	GB12-B1
0-179	10-J14	P072-D	P072-B
0-180	10-J14	P072-D	GB12-B2
0-181	10-J14	P071-3	GB12-B3
0-182	10-K14	P071-4	GB12-B3
0-183	10-K14	P071-D	P071-B
0-184	10-K14	P071-D	GB12-B2
0-185	7-D5	GB12-C1	JB6C-1
0-186	7-D2	JB6C-3	J228-B
0-187	7-D2	J228-B	JB6C-4
0-188	7-D5	ESSW-B	JB6C-2
0-189	10-G10	RORS-B	JB6C-6
0-190	7-D3	P8-2	JB6C-5
0-191	5-D7	12VPWR1-2	GB12-B4
0-192	5-D7	GB12-B4	12VPWR2-2
0-194	5-C8	GB12-C2	J06-1
0-195	11-P7	P03-31	WW(-)
0-196	8-B8	GB10-C2	GB12-C3
0-197	8-K10	GB10-C1	P18-5
0-198	8-F7	GB10-C1	JP1-4
0-199	8-B10	P20-D	P20-B
0-200	8-D10	P21-B	P21-D
0-201	8-D8	P21-B	GB10-C3
0-202	8-D8	GB10-C3	P20-B
0-203	10-I7	GB10-C3	P32-D
0-204	10-I8	P32-D	P32-B
0-205	8-B8	GB10-C4	P20-2
0-206	8-B8	P21-2	GB10-C4
0-207	8-B9	GB10-C4	R27-2
0-208	5-I2	GB31B-A1	P06-1
0-209	12-H18	TB21-X3	P04-O
0-210	12-F15	TB21-X3	P04-P
0-211	14-F20	GB51-A1	RPLMR_CP-2
0-212	14-F20	GB51-A1	RPLMY_CP-2
0-213	14-G20	GB51-A1	RPLMG_CP-2
0-214	14-A9	GB51-A2	RHTM_CP-2
0-215	14-C9	RDRB-2	GB51-A2
0-216	11-D3	GB51-A2	RBUL_CP-1
0-217	9-H19	RCLT1-C	SP030
0-218	9-I19	RCLT2-C	SP030
0-219	9-I20	SP030	GB51-A3
0-220	9-I21	SPR-64	GB51-A3
0-221	11-E2	GB51-A4	GB72-C1
0-222	14-G20	GB50-A1	LPLMR_CP-2
0-223	14-H20	GB50-A1	LPLMY_CP-2
0-224	14-H20	GB50-A1	LPLMG_CP-2
0-225	11-F3	LBUL_CP-1	GB50-A3
0-226	11-F4	GB50-A3	HORN-2
0-228	14-D8	LDRB-2	GB50-A4
0-229	14-B9	GB50-A4	LHTM_CP-2
0-230	14-B11	GB50-A4	SP034
0-231	9-H19	LCLT1-C	SP034
0-232	9-H19	LCLT2-C	SP034
0-233	5-D8	SPR-67	GB50-B1
0-234	5-D8	GB50-B1	SPR-68
0-235	11-F2	GB50-A2	GB70-C1
0-236	13-E14	GND	J730-4
0-237	11-G21	J707-C	SP037
0-238	11-G19	SP037	RSCL1-C
0-239	11-H19	SP037	RSCL2-C
0-240	11-I21	J706-C	SP040
0-241	11-I19	SP040	LSCL1-C
0-242	11-J19	LSCL2-C	SP040
0-243	11-M17	J704-2	SP043
0-244	11-M17	SP043	PLT-3
0-245	11-N16	PL-2	SP043
0-246	11-M17	GRD-A2	P704-2
0-247	11-G19	GRD-A1	TB61-A2
0-248	11-G21	TB61-A1	P707-C
0-249	11-G21	TB61-B2	P706-C
0-250	11-E18	LRSTL-C	GRD-A3
0-251	11-I16	RRL-C	GRD-A3
0-252	11-H16	LRL-C	GRD-A3
0-253	11-C17	LRBH(-)	GRD-A4
0-254	11-D18	LRBL-2	GRD-A4
0-255	11-F17	RRSTL-C	GRD-A4
0-256	11-B17	RRBH(-)	GRD-B1
0-257	11-C18	RRBL-2	GRD-B1
0-258	5-F2	GND-REAR FRAME	P644
0-259	5-F2	GND-FRAME	P645
0-260	13-E16	P730-4	SP044
0-261	13-D17	SP044	FGS-2
0-262	13-E17	SP044	HP2-B
0-263	13-E14	GND	P16-1
0-264	11-G19	P16-2	TB61-A3
0-265	11-F19	P16-3	TB61-B3
0-266	9-K19	RHSC-C	P16-36
0-267	13-O2	P14-1	BLDPS-B
0-268	13-N2	P14-2	LSPSW-C
0-271	9-I15	P732_CP-C	P14-25
0-272	13-M3	ACCP2-B	P14-35
0-273	13-K13	P14-31	P712-B
0-275	5-I2	GB70-C2	GB31B-A3
0-276	5-J2	GB31B-B1	RTN
0-277	13-E16	GB31B-B2	J16-1
0-278	9-K21	GB31B-B2	J16-36
0-279	11-F17	J16-3	GB31B-B3
0-280	11-G17	J16-2	GB31B-B3
0-282	12-N19	P216-A	CONN1-8
0-283	13-G5	J14-1	GB31B-B4
0-284	13-N5	J14-2	GB31B-B4
0-287	13-M5	J14-35	GB31B-C1
0-288	9-H7	J14-25	GB31B-C1
0-289	13-K11	TB21-X4	J14-31
0-290	3-H10	GB70-C3	DISC(-)-5
0-291	3-H11	GB80-A4	GB70-C4
0-292	3-G10	JB1-6	DISC(-)-6
0-293	3-G16	DISC(-)-6	MLLON-2
0-294	3-D18	PLREL-85	JB1-3
0-295	3-E18	SLREL-85	JB1-4
0-296	3-E19	JB1-1	PLLO-2
0-297	3-E19	JB1-2	PLON-2
0-298	3-F19	JB1-8	SLLO-2
0-299	3-F19	JB1-7	SLON-2
0-300	3-F18	MLREL-85	JB1-5
0-301	14-E17	CNRIN-A	CNLO-A
0-302	16-D20	P30-B	GB10-D1
0-303	16-E20	P30-D	P30-B
0-304	16-E7	JB12D-9	UPS-C
0-305	6-L20	TB31-X2	SPR-93
0-307	6-L19	GB31A-D4	RB9-K5(-)
0-308	7-N4	RB7-K8(-)	RB9-K8(-)
0-310	13-M16	ALPS-C	TB60-M1
0-311	13-M17	TB60-M2	GRD-B2
0-312	12-F6	DCDCPS-6	GB31B-C1
0-343	13-D14	J511-A	P512_CP-B
0-500	4-J14	J712-G	TB-HTST-D4
0-501	4-H16	TB-HTST-C1	HEATER COOLANT LH
0-502	4-H16	TB-HTST-C2	HEATER COOLANT RH
0-504	4-I18	SP706	EOTS-C
0-505	4-I16	SP706	TB-HTST-E1
0-506	4-I18	SP705	SP706
0-507	4-I19	SP705	EOH1-C
0-508	4-I19	SP705	EOH2-C
0-509	4-H16	CON1-C	TB-HTST-H2
0-510	4-K18	SP709	CON2-C
0-511	4-K19	SP709	HOHTR1-C
0-512	4-K19	SP709	HOHTR2-C
0-514	4-I16	TB-HTST-E2	CON3-C
0-515	4-I18	ECHTR2-C	CON4-C
0-517	6-E7	TB31-W3	J13-28
0-518	6-E17	P13-28	TB91-K1
0-519	6-E19	SP051	TB91-K2
0-520	6-D21	HTMS-2	SP051
0-521	6-E21	D50-2	SP051
0-522	14-O11	P264-30	COMMB-7
0-688	16-F9	J538-3	JB12D-10
0-700	16-F9	JB12D-1	SP630
0-701	16-H11	LSOL-2	SP630
0-702	16-I11	D11-2	SP630
035L2-000	14-K15	TB39-S2	GB31A-C2
0REP-000	10-M3	PX5-18	TB41-X1
0REP-001	10-M3	TB41-X1	PX5-21
0ACL-000	10-N3	PX3-17	TB41-V1
0ACL-001	10-N9	J01-9	P015-A
0ACL-002	10-N6	TB41-V4	P01-9
0BLF-000	10-J3	PX2-8	TB37-B1
0BN-000	7-M7	RB8-K5(-)	TB29-T1
0BN-001	7-M9	TB29-T1	D15-2
0BN-002	7-M9	TB29-T1	D16-2
0BRF-000	10-J3	PX2-11	TB37-E1
0COM-006	12-H10	J07-3	DID-10
0COM-007	12-H8	TB42-C2	P07-3
0COM-008	12-H6	DCDCPS-1	TB42-C1
0LF-000	10-B3	PX1-17	TB33-P1
0LF-001	10-B3	TB33-P1	PX1-43
0LF-002	10-B10	TB71-C2	P501-C
0LF-003	10-B8	P13-39	TB71-C1
0LF-004	10-B6	TB33-P2	J13-39
0REF/0ACL-000	10-N6	TB41-X2	TB41-V2
0REF/0RET-000	10-O6	TB41-P2	TB41-X2
0RET-000	10-O3	PX3-22	TB41-P1
0RET-001	10-O9	J01-13	P013-A
0RET-002	10-O6	TB41-P1	P01-13
0RF-000	10-A3	PX1-11	TB33-K1
0RF-001	10-A3	TB33-K1	PX1-39
0RF-002	10-A10	TB91-C2	P507-C
0RF-003	10-A8	TB91-C1	P13-19
0RF-004	10-A6	TB33-K2	J13-19
1M-000	3-G18	MLREL-87A	MLLO-1
1S-000	3-F18	SLREL-87A	SLLO-1
5VDI-001	12-G10	J07-5	DID-5
5VDI-002	12-G8	TB42-E2	P07-5
5VDI-003	12-G6	DCDCPS-10	TB42-E1
5VIM-000	13-D5	TB30-M2	IM3-c
5VIM-001	13-D5	TB30-M2	IM3-j
5VIM-002	13-E1	P14-18	HTT-A
5VIM-003	13-D1	ATS-A	P14-22
5VIM-004	13-E3	J14-18	TB30-N2
5VIM-005	13-D3	J14-22	TB30-M3
5VIM-006	13-E6	J14-36	TB30-N4
5VIM-007	13-E6	J14-39	TB30-N4
5VPL-000	14-O11	P264-7	COMMB-6
5VUSB-000	14-N11	P264-26	COMMA-1
7HMWU-000	12-I14	P2A-17	TB21-D1
7HMWU-001	12-I20	J04-M	CNA-19
7HMWU-002	12-I18	TB21-D2	P04-M
7M1A-000	3-J2	TM1A	TM1-A
7M1B-000	3-J2	TM1B	TM1-B
7M1C-000	3-J2	TM1C	TM1-C
7M2A-000	3-J2	TM2A	TM2-A
7M2B-000	3-J2	TM2B	TM2-B
7M2C-000	3-J2	TM2C	TM2-C
8X013-034	4-N6	TB38-W2	KOMV-3
8X050-000	4-M6	FB4-F16	TB38-T2
10V-000	10-M3	PX5-19	TB41-R1
10V-001	10-M3	TB41-R1	PX5-20
10V-002	10-M9	J01-7	P015-C
10V-003	10-O9	J01-11	P013-C
10V-004	10-M6	P01-11	TB41-R2
10V-005	10-N6	P01-7	TB41-S2
11-000	3-D3	BATT2(+)-1	BUS24V-1
11-001	3-E3	BATT4(+)-1	BUS24V-6
11-002	3-D5	BUS24V-4	ESREL1-88
11-003	3-D6	BUS24V-5	ESREL2-88
11-004	3-E5	BUS24V-7	ALT(+)
11-005	3-E5	BUS24V-9	ALT_SEN
11-006	5-A5	24VDC-B4	CB60-1
11-007	5-A4	GLPR-87	24VDC-A1
11-008	5-A4	KSWPR-87	24VDC-A3
11-009	5-A4	DLPR-87	24VDC-B1
11-010	5-A4	24VDC-B3	FB2-A
11-011	5-A6	24VDC-A2	FB2-C
11-012	5-A6	24VDC-A4	FB2-B1
11-013	5-A6	24VDC-B2	FB3-A
11-014	5-A6	J12-33	24VDC-C2
11-015	4-B5	J536-A	ESDS-1-1
11-016	4-B3	P12-33	P536-A
11-017	5-A4	BUS24V-8	24VDC-C1
11-018	5-B4	24VDC-C3	BATFU
11-019	3-E5	BUS24V-10	SDISC-3
11-020	3-E6	BUS24V-11	SDISC-8
11-021	3-E16	SDISC-2	MLLON-1
11-022	3-E16	SDISC-2	MLREL-86
11-023	3-G17	MLREL-86	MLREL-30
11-024	3-D17	PLOS-B1	PLREL-30
11-025	3-E16	SDISC-1	PLOS-B1
11-026	3-E16	SLREL-30	SDISC-1
11A-000	11-N11	J240-C	HDLS-3
11A-001	11-K10	TB35-A2	HRNRLY-86
11A-002	11-K10	HRNRLY-87	TB35-A2
11A-003	11-K10	P240-C	TB35-A1
11A-004	11-K9	TB35-A3	FB2-F19
11A-005	15-C16	DIAG1-B	J07-14
11A-006	15-C14	P07-14	TB35-A4
11A-007	11-L19	J704-1	PLS-3
11A-008	11-L17	TB60-L2	P704-1
11A-009	11-L16	P16-4	TB60-L1
11A-010	11-K10	TB35-A5	J16-4
11A1-000	11-N12	HDLS-2	SP002
11A1-001	11-N13	SP002	HDL2-A
11A1-002	11-N13	HDL1-A	SP002
11AL-000	11-N18	PLT-C	PLS-2
11AL-001	11-N18	PLT-6	PLS-2
11ALT-000	11-N16	PL-1	PLT-NO
11B1-000	5-B2	12VDC-1	IM3-6
11B1-001	5-C5	12VCN-12a	12VDC-3
11B1-002	5-B7	12VPR-87	12VDC-4
11B1-003	5-B8	12VDC-2	FB4-B1
11B5-000	5-C5	12VCN-24Va	CB60-2
11BD-000	13-C15	RB9-K1(C)	TB25-F2
11BD-001	13-C13	FB2-F8	TB25-F1
11CAM-000	4-O6	TB38-X2	KOMV-6
11CMX-000	4-O8	KOMV-5	FB3-F10
11D-000	8-I6	FB3-F7	TB22-A1
11D-001	8-I9	J02-5	P25-2
11D-002	8-I10	P25-2	P25-5
11D-003	8-I8	TB22-A2	P02-5
11DID-001	12-F6	DCDCPS-7	TB24-C1
11DID-002	12-F9	TB24-C2	FB4-F12
11DISP-000	8-F14	TB41-A2	FB2-F5
11DISP-001	8-F7	JP1-1	J01-1
11DISP-002	8-F9	P01-1	TB41-A1
11DSL-000	8-F11	FB2-F21	RB7-K5(C)
11E1-000	6-B2	TB27-A1	P804-A
11E1-001	6-B4	TB27-A2	FB3-F1
11E2-000	6-B2	TB27-B1	P804-C
11E2-001	6-B4	TB27-B2	FB3-F2
11E3-000	6-B2	TB27-C1	P804-D
11E3-001	6-B4	TB27-C2	FB3-F3
11E4-000	6-C2	TB27-D1	P804-F
11E4-001	6-C4	TB27-D2	FB3-F4
11ER-000	5-L2	FB2-F23	TB22-D1
11ER-001	5-L5	J02-22	J801-1
11ER-002	5-L3	TB22-D2	P02-22
11ES-000	7-I8	FB3-F8	RB7-K7(NO)
11P-000	9-J5	FB2-F14	FLSHR(X)
11PS-000	5-M2	TB22-F1	FB2-F24
11PS-001	5-M6	J02-26	J802-A
11PS-002	5-M4	TB22-F2	P02-26
11GL-000	4-C3	TB24-F2	GLPR-86
11GL-001	4-C2	TB24-F1	J12-2
11GL-002	4-B5	J536-B	ESDS-1-2
11GL-003	4-B3	P12-2	P536-B
11H-000	11-K12	TB22-B1	HRNRLY-85
11H-001	11-K13	J03-22	P020-1
11H-002	11-K14	TB22-B2	P03-22
11HL-000	8-M7	FB2-F11	RB6-K3(C)
11HR-000	8-N7	FB2-F12	RB6-K4(C)
11HS-000	11-K12	TB38-A1	HRNRLY-30
11HS-001	11-K17	TB70-L2	HORN-1
11HS-004	11-K16	P13-21	TB70-L1
11HS-005	11-K14	TB38-A2	J13-21
11IM2-000	4-L5	IM1-F	TB21-S1
11IM2-001	4-L7	TB21-S2	FB2-F2
11INT-000	4-K5	IM1-A	TB21-A1
11INT-001	4-K7	TB21-A2	FB2-F1
11KS-000	4-E10	RB8-K1(C)	RB8-K3(+)
11KS-001	4-E8	RB8-K1(C)	TB22-C2
11KS-002	4-E8	FB3-F17	TB22-C1
11KS-003	4-F8	J03-13	KEYSW-B
11KS-004	4-F8	P03-13	TB22-C3
11L-000	9-L1	TB44-I1	FB2-F15
11L-001	9-L4	TB10-H2	P36-5
11L-002	9-L3	P36-2	P36-5
11L-003	9-F1	P24-2	TB10-H2
11L-004	9-L3	J02-16	TB10-H1
11L-005	9-L3	SPR-26	TB10-H1
11L-006	9-M6	J04-B	CDL
11L-007	9-L3	TB44-J2	P02-16
11L-008	9-L3	TB44-J4	P04-B
11LAD-000	16-D2	P7-7	JB8E-7
11LAD-001	16-D4	JB8E-2	UPS-A
11LAD-002	16-D4	JB8E-3	DPS-A
11LAD-004	16-D17	TB43-B2	FB3-F9
11LAD-005	16-D3	LUR-30	JB8E-5
11LAD-006	16-D3	GLAR-30	JB8E-6
11LAD-007	16-D15	J12-34	TB43-B1
11LAD-008	16-D14	P538-2	P12-34
11LAD-009	16-D4	JB8E-1	J538-2
11LAD-010	16-D17	TB43-B4	P02-20
11LAD-011	16-D18	J02-20	P30-2
11LAD-012	16-D19	P30-2	P30-5
11LF-000	9-B1	FB2-F22	TB44-K1
11LF-001	9-B3	J02-6	P22_CP-2
11LF-002	9-B5	P22_CP-5	P22_CP-2
11LF-003	9-B2	TB44-K2	P02-6
11LL-000	8-K7	FB2-F9	RB6-K1(C)
11LR-000	8-L7	FB2-F10	RB6-K2(C)
11M-000	15-F14	TB42-V1	FB2-F4
11M-001	15-F17	J07-15	J251-1
11M-002	15-F15	P07-15	TB42-V2
11ONS-000	8-G17	TB41-B2	IM1-K
11ONS-001	8-F7	JP1-3	J01-2
11ONS-002	8-F9	TB41-B1	P01-2
11ORS-000	6-M5	EORPSW-2	P801-D
11ORS-001	6-M7	J801-D	TB28-D1
11ORS-002	6-L9	FB2-F6	TB28-D2
11PF-000	3-G15	PLPM(+)	PLMSW-2
11PL-000	3-G13	FUS-2	PLMSW-1
11POR-000	6-M5	EORPSW-1	P801-E
11POR-001	6-M7	J801-E	TB28-E1
11POR-002	6-M11	TB28-E2	J11-1
11POR-003	6-M12	P11-1	J505_CP-3
11RB-000	14-C1	SPR-27	J03-3
11RB-001	14-C2	TB22-E2	P03-3
11RB-002	14-C6	TB90-I2	RDRB-1
11RB-003	14-D6	TB70-I2	LDRB-1
11RB-004	14-C5	P13-1	TB90-I1
11RB-005	14-D5	P13-22	TB70-I1
11RB-006	14-C4	TB22-E1	J13-1
11RB-007	14-C4	TB22-E1	J13-22
11RCNT-000	6-L8	TB28-L1	FB2-F7
11RCNT-001	6-N11	J12-1	TB28-L2
11RCNT-002	6-N12	P12-1	ORCM_CP-1
11RCNT-003	6-M11	J11-2	TB28-L4
11RCNT-004	6-M12	P11-2	J505_CP-5
11RWL-000	8-F17	TB41-C2	IM1-G
11RWL-001	8-E7	JP2-7	J01-3
11RWL-002	8-E8	TB41-C1	P01-3
11S-000	4-D3	TB24-H1	GLPR-30
11S-001	4-D1	TB24-H2	FB1-C
11SL-001	10-D12	TB34-B2	ESLT(C)
11SL-002	10-D12	TB34-B1	FB2-F20
11SM1-000	3-J12	STRT1-4B	P801-S
11SM1-001	4-K8	J801-S	TB28-F2
11SM1-002	4-K5	IM3-R	TB28-F1
11SM2-000	3-J14	STRT2-4A	P801-R
11SM2-001	4-K8	J801-R	TB28-G2
11SM2-002	4-K5	IM3-S	TB28-G1
11ST-000	3-G13	SDISC-4	FUS-1
11ST-001	3-J12	SDISC-5	STRT1-1B
11ST-002	3-J13	SDISC-5	STRT2-1A
11ST-003	3-J12	SDISC-6	STRT1-1A
11ST-004	3-F16	SDISC-7	SLREL-86
11ST-005	3-F16	SDISC-7	SLON-1
11T-000	9-L11	FB2-F13	RB6-K7(NO)
12CA-000	16-G2	P7-1	CAR-86
12DP-000	16-F2	P7-5	DPS-B
12GLA-000	16-I2	GLAR-86	P7-2
12H-000	6-J10	FB1-F1	TB22-G1
12H-001	6-J13	J02-2	P014-A
12H-002	6-J11	P02-2	TB22-G2
12HS-000	16-H2	LUR-86	P7-11
12LD-000	16-J2	P7-9	J538-4
12LD-001	16-J16	J12-35	TB43-C1
12LD-002	16-J14	P538-4	P12-35
12LD-004	16-J17	TB43-C2	P02-21
12LD-005	16-J18	J02-21	P30-4
12LD-006	16-E19	P30-C	P30-6
12LU-000	16-I2	P7-8	J538-5
12LU-001	16-J16	J12-36	TB43-D1
12LU-002	16-J14	P538-5	P12-36
12LU-003	16-E19	P30-A	P30-4
12LU-004	16-J17	TB43-D2	P02-9
12LU-005	16-J18	J02-9	P30-6
12V-000	5-B9	12VPR-30	TB24-M1
12V-001	5-B12	TB24-M2	FB4-A
12VREG-000	5-L2	FB4-F13	TB21-B1
12VREG-001	5-L5	J02-12	J801-3
12VREG-002	5-L3	TB21-B2	P02-12
13CA-000	13-I5	TB43-F2	IM2-a
13CA-001	16-H6	CAR-87	J538-7
13CA-002	13-I4	J12-37	TB43-F1
13CA-003	16-H15	P538-7	P12-37
13GLA-000	16-I6	GLAR-87	GLA-1
13HS-000	16-H6	LUR-87	GLORSW-4
13LL-001	16-G15	J12-38	TB43-E1
13LL-002	16-G14	P538-6	P12-38
13LS-000	16-H8	GLORSW-3	SP629
13LS-001	16-H10	SP629	LSOL-1
13LS-002	16-H10	SP629	D11-1
15LFWS-000	10-B3	PX1-30	TB33-S1
15LFWS-001	10-B10	TB71-A2	P501-A
15LFWS-002	10-B8	TB71-A1	P13-40
15LFWS-003	10-B6	TB33-S2	J13-40
15LRW-000	10-C3	PX1-33	TB29-A1
15LRW-001	10-C6	TB29-A2	J15-1
15LRW-002	10-C9	P15-1	P721-A
15RFWS-000	10-A3	PX1-23	TB33-M1
15RFWS-001	10-A10	TB91-A2	P507-A
15RFWS-002	10-A8	TB91-A1	P13-20
15RFWS-003	10-A6	J13-20	TB33-M2
15RRW-000	10-E3	PX1-20	TB29-H1
15RRW-001	10-E6	TB29-H2	J15-13
15RRW-002	10-E8	P15-13	P722-A
15VDI-001	12-G10	DID-6	J07-1
15VDI-002	12-G8	P07-1	TB42-A2
15VDI-003	12-G6	DCDCPS-12	TB42-A1
15VDI-004	12-G4	TB43-X2	DCDCPS-8
15VDI-005	12-F3	PX5-1	TB43-P1
15VDI-006	12-G3	PX5-7	TB43-X1
16AZ-000	5-J14	SPR-2	P801-J
16AZ-001	5-J15	J801-J	SPR-6
16BB-000	5-H14	TB26-D2	J11-4
16BB-001	5-H15	P11-4	SPR-22
16CC-000	5-I14	TB26-E2	J11-5
16CC-001	5-I15	P11-5	SPR-23
16DD-000	5-I14	TB26-F2	J11-6
16DD-001	5-I15	P11-6	SPR-24
16EE-000	5-D8	SPR-69	TB71-G1
16EE-001	5-D10	TB71-G2	P13-34
16EE-002	5-D11	J13-34	TB30-P1
16F-000	5-J14	SPR-1	P801-A
16F-001	5-J15	J801-A	SPR-5
16GA-000	5-E16	P730-2	SPR-72
16GA-001	5-E15	P16-6	J730-2
16GA-002	5-E14	SPR-77	J16-6
16GG-000	5-F11	SPR-10	J12-17
16GG-001	5-F10	P12-17	SPR-15
16GG-002	5-D17	SPR-65	TB91-E1
16GG-003	5-D15	P13-9	TB91-E2
16GG-004	5-D14	TB38-G1	J13-9
16H-003	5-D15	P13-10	TB91-F2
16HH-000	5-F11	SPR-11	J12-18
16HH-001	5-F10	P12-18	SPR-16
16HH-002	5-D17	SPR-66	TB91-F1
16HH-004	5-D14	TB38-H1	J13-10
16P-000	5-G7	SPR-83	SPR-19
16R-000	5-G7	SPR-20	SPR-84
16R-001	5-F16	P730-6	SPR-73
16R-002	5-F15	P16-5	J730-6
16R-003	5-F14	SPR-78	J16-5
16RC-000	5-F15	P16-7	SPR-75
16RC-001	5-F14	SPR-79	J16-7
16RD-000	5-G15	P16-8	SPR-76
16RD-001	5-G14	SPR-80	J16-8
16S-000	5-G11	SPR-12	J12-19
16S-001	5-G10	P12-19	SPR-17
16S-002	5-G15	P16-9	TB61-C1
16S-003	5-G14	SPR-81	J16-9
16T-000	5-G11	SPR-13	J12-20
16T-001	5-G10	P12-20	SPR-18
16T-002	5-G15	P16-10	TB61-K1
16T-003	5-G14	SPR-82	J16-10
16TT-000	5-E8	SPR-70	TB71-E1
16TT-001	5-E10	TB71-E2	P13-14
16TT-002	5-E11	TB38-K1	J13-14
16VIM-000	13-C1	J240-A	BPS-1
16VIM-001	13-A5	TB30-T2	IM3-b
16VIM-002	13-C5	TB32-A2	TB30-T2
16VIM-003	13-B5	TB36-D2	TB30-T2
16VIM-004	13-C3	P240-A	TB32-A1
16VIM-005	13-B1	P16-31	HPS1-1
16VIM-006	13-A1	P14-27	SPS-1
16VIM-007	13-B3	J16-31	TB36-D1
16VIM-008	13-A3	J14-27	TB30-T1
16WW-000	5-K14	SPR-4	P801-L
16WW-001	5-K15	J801-L	SPR-8
16XX-000	5-E8	SPR-71	TB71-F1
16XX-001	5-E10	TB71-F2	P13-16
16YY-000	5-K14	SPR-3	P801-K
16YY-001	5-K15	J801-K	SPR-7
21INS-000	6-E2	TB27-E1	P805-E
21INS-001	6-E4	TB27-E1	R1-2
21INS-002	6-E5	TB27-E2	IM3-F
21OR-000	6-F2	TB27-K1	P805-K
21OR-001	6-F4	TB27-K2	J11-7
21OR-002	6-L14	P11-7	J505_CP-1
21OR/21ORR-000	6-F4	TB27-K4	TB27-L4
21ORR-000	6-F2	TB27-L1	P805-N
21ORR-001	6-F4	TB27-L2	J11-8
21ORR-002	6-F6	P11-8	J505_CP-2
21PL-000	3-N13	REP-87A	PLMSW(+)
21PL-001	3-O14	PLMSW(+)	D87-1
21PS-000	3-N12	SP001	REP-30
21PS-001	3-L12	SP001	PLPSW-1
21PS-002	3-L14	SP001	P801-P
21PS-003	4-K9	TB28-H1	J801-P
21PS-004	4-K10	TB28-H2	RB8-K6(NO)
21PT-000	3-L13	SP023	PLPSW-2
21PT-001	3-M14	SP023	P801-G
21PT-002	3-N13	REP-86	SP023
21PT-003	3-N13	REP-87	SP023
21PT-004	5-E2	J801-G	TB28-I3
21PT-005	5-B2	TB28-J1	IM3-U
21PT-006	3-M14	SP023	D87-2
21PT-007	5-E2	J12-4	TB28-J2
21PT-008	5-E2	J12-5	TB28-J2
21PT-009	5-E1	P12-4	ESREL2-86
21PT-010	5-E1	P12-5	ESREL1-86
21S-000	4-I5	IM2-j	TB22-H1
21S-001	4-I11	TB22-H2	RB8-K6(C)
21S-002	4-F10	KEYSW-C	J02-23
21S-003	4-F11	P02-23	TB22-H4
21SL-000	4-J5	IM1-B	TB27-F1
21SL-001	4-J8	TB27-F2	RB8-K6(-)
22C-000	6-D2	TB27-G1	P806-26
22C-001	6-E2	TB27-G1	P808-5
22C-002	6-D4	TB27-G1	P808-4
22C-003	6-L4	J808-4	P816-3
22P0-000	6-G2	TB27-I1	P806-2
23D-000	4-D9	TB25-E2	RB6-K7(+)
23D-001	4-D9	TB25-E2	RB8-K8(+)
23D-002	4-C10	RB8-K8(+)	RB8-K6(NO)
23D-003	4-D7	FB3-F15	TB25-E1
23F-000	4-D9	TB43-N1	RB8-K7(C)
23F-001	4-D15	J06-5	ESSW1-3
23F-003	4-D8	TB43-N2	P06-5
24SON-000	8-E11	SONA-1	JB4-3
24SON-001	8-E11	JB4-4	R16-1
24SON-003	8-D11	D10-1	JB4-2
24SON-004	8-D11	D9-1	JB4-1
24VIM-000	4-I5	IM1-W	TB41-D1
24VIM-001	4-I11	RB9-K6(+)	TB41-D2
24VIM-002	8-D14	D10-2	J04-C
24VIM-003	8-E7	JP2-8	J01-4
24VIM-004	8-E11	TB41-D3	P01-4
24VIM-005	8-D17	P04-C	TB41-E1
24VIM-006	13-K13	P14-29	P712-A
24VIM-007	13-K10	SP046	TB41-D4
24VIM-008	13-K11	J14-29	SP046
25A-000	3-G8	ESREL1-88a	STRT1-3
25B-000	3-G13	ESREL2-88a	STRT2-3
27LPR-000	6-J2	P826-4	LP-2
27LPS-000	6-J2	P826-3	LP-1
27WR-000	6-J2	P826-2	WIP-2
27WS-000	6-J2	P826-1	WIP-1
28E-000	7-P7	RB7-K7(C)	TB34-E2
28E-001	7-P5	J12-6	TB34-E1
28E-002	5-H9	J502-E	P12-6
28E-003	5-H7	P502-E	SPR-21
28EC-000	6-D2	TB27-H1	P805-C
28EC-001	7-O7	RB7-K7(+)	TB27-H2
29BUS-004	4-N6	TB38-V2	TB22-W1
31HML-000	8-E17	TB44-L2	IM1-M
31HML-001	8-E13	SONA-2	J04-X
31HML-002	8-E13	SONA-2	R16-2
31HML-003	8-E15	P04-X	TB44-L1
31RR-000	10-H3	PX4-19	TB36-G1
31RR-001	10-H6	J01-19	P32-1
31RR-002	10-H8	P32-A	P32-3
31RR-003	10-H4	TB36-G2	P01-19
32OR-000	10-L3	PX5-30	TB36-K1
32OR-001	10-L3	PX3-16	TB36-K2
32OR-002	10-L6	TB36-K3	R21-2
32OR-003	10-L11	P022-3	J01-17
32OR-004	10-L6	TB36-K4	P01-17
32RR-000	10-L7	TB36-J1	R21-1
32RR-001	10-M11	P022-2	J01-16
32RR-002	10-L9	TB36-J2	P01-16
32RS-000	10-L3	PX5-31	TB36-H1
32RS-001	10-L3	PX3-34	TB36-H2
32RS-002	10-L11	J01-15	P022-1
32RS-003	10-L6	TB36-H4	P01-15
33-000	13-F12	J240-D	PBSPS-A
33-001	13-F9	TB32-D1	IM2-f
33-002	13-F11	TB32-D2	P240-D
33BLF-000	10-J3	PX2-20	TB37-A1
33BP-000	13-G12	J240-S	LBAPS-C
33BP-001	13-G9	IM2-U	TB32-E1
33BP-002	13-G11	TB32-E2	P240-S
33BPS-000	13-C1	J240-B	BPS-2
33BPS-001	13-C5	TB32-B2	IM3-p
33BPS-002	13-C5	P240-B	TB32-B1
33BRF-000	10-J3	TB37-D1	PX2-10
33F-000	13-N6	TB30-A2	IM2-S
33F-001	13-N1	P14-6	LSPSW-B
33F-002	13-N4	J14-6	TB30-A1
33HP1-000	13-B5	TB36-C2	IM3-s
33HP1-001	13-B1	P16-32	HPS1-2
33HP1-002	13-B3	J16-32	TB36-C1
33HP2-000	13-C5	TB36-E2	IM3-q
33J-000	13-C16	RB9-K1(NC)	TB30-B1
33J-001	13-B14	P14-7	SBDSOL-1
33J-002	13-B14	D26-1	P14-8
33J-003	13-B15	J14-7	TB30-B2
33J-004	13-B13	J14-8	TB30-B2
33JA-000	13-O6	TB30-C2	IM2-Z
33JA-001	13-O3	P14-9	BLDPS-A
33JA-002	13-O4	J14-9	TB30-C1
33JB-000	13-A9	IM1-P	TB30-D1
33JB-001	13-B10	TB30-D1	R19-1
33JB-002	13-B12	P14-10	SBDSOL-2
33JB-003	13-B12	P14-11	D28-2
33JB-004	13-B11	TB30-D2	J14-10
33JB-005	13-B11	TB30-D2	J14-11
33LF-000	10-B3	PX1-45	TB33-R1
33LF-001	10-B10	TB71-B2	P501-B
33LF-002	10-B8	TB71-B1	P13-38
33LF-003	10-B6	TB33-R2	J13-38
33RF-000	10-A3	PX1-37	TB33-L1
33RF-001	10-A10	TB91-B2	P507-B
33RF-002	10-A8	TB91-B1	P13-18
33RF-003	10-A6	TB33-L2	J13-18
33SB1-000	12-P7	P37-A	P37-4
33SBA-000	12-O3	TB25-W1	PX4-24
33SBA-001	12-O5	P37-B	J03-2
33SBA-002	12-O4	TB25-W2	P03-2
33SP-000	13-A5	TB30-S2	IM3-d
33SP-001	13-A1	P14-26	SPS-2
33SP-002	13-A1	J14-26	TB30-S1
33T-000	13-G12	J240-N	SBDPS-C
33T-001	13-G9	TB32-F1	IM2-V
33T-002	13-G11	TB32-F2	P240-N
34AT-000	13-D5	TB30-P2	IM3-e
34AT-001	13-D1	ATS-B	P14-21
34AT-002	13-D3	J14-21	TB30-P1
34BT-000	13-E5	TB30-L2	IM3-m
34BT-001	13-E1	P14-17	HTT-B
34BT-002	13-E3	J14-17	TB30-L1
34BT1-000	13-F6	TB31-A2	IM3-i
34BT1-001	13-F3	J14-37	TB31-A1
34BT2-000	13-F6	TB31-C2	IM3-r
34BT2-001	13-F3	J14-40	TB31-C1
34LL-000	13-K8	TB21-T1	IM2-k
34LL-001	13-K13	P14-30	P712-C
34LL-002	13-K11	TB21-T2	J14-30
35L2-000	14-K11	P264-23	TB40-D1
35L2-001	14-K14	TB40-D2	J362-5
35L2-002	14-K11	P264-34	TB39-S1
35L2-003	14-L16	J07-24	DIAG3-5
35L2-004	14-K14	P07-24	TB40-D4
35L2-005	14-J14	TB39-S4	CNLIN-A
35L3-000	14-K11	P264-15	TB40-E1
35L3-001	14-L14	TB40-E2	J362-3
35L3-002	14-L16	J07-25	DIAG3-3
35L3-003	14-L14	P07-25	TB40-E4
35L4-000	14-L11	P264-21	TB40-F1
35L4-001	14-L14	TB40-F2	J362-2
35L4-002	14-L16	J07-26	DIAG3-2
35L4-003	14-L14	P07-26	TB40-F4
35L8-000	14-I11	P264-25	TB39-P1
35L8-001	14-I17	CNRIN-D	CNLO-D
35L8-002	14-J14	TB39-P2	CNLIN-D
35L9-000	14-J11	P264-24	TB39-R1
35L9-001	14-J14	TB39-R2	CNLIN-C
35L11-001	5-I11	SPR-28	-
35L12-001	5-I11	SPR-29	-
36-000	6-L5	P801-B	EBPSW-2
36-001	6-L7	J801-B	TB28-K1
36-002	7-G8	RB8-K4(-)	TB28-K2
36-003	7-H8	TB28-K2	RB9-K2(-)
36G-000	13-C9	IM3-g	TB35-B1
36G-001	13-C11	TB35-B2	R15-1
36G-002	13-D16	P730-3	FGS-1
36G-003	13-D14	P16-11	J730-3
36G-004	13-C11	TB35-B4	J16-11
39-000	13-D9	TB35-C1	IM2-Y
39A-000	14-I19	P264-43	TB39-E1
39A-001	14-H10	TB39-E2	RB10-K2(+)
39AA-000	14-G12	TB39-A2	RB10-K2(C)
39AA-001	14-F18	TB90-A2	RPLMR_CP-1
39AA-002	14-G18	TB70-A2	LPLMR_CP-1
39AA-003	14-G17	P13-23	TB70-A1
39AA-004	14-F17	P13-2	TB90-A1
39AA-005	14-G14	TB39-A1	J13-2
39AA-006	14-G14	TB39-A1	J13-23
39AP-000	13-D16	P730-1	SF1-A
39AP-001	13-D14	P16-12	J730-1
39AP-002	13-D12	TB35-C2	J16-12
39B-000	14-H9	P264-45	TB39-F1
39B-001	14-H10	TB39-F2	RB10-K3(+)
39BA-000	14-H12	RB10-K3(C)	TB39-B2
39BA-001	14-F18	TB90-B2	RPLMY_CP-1
39BA-002	14-H18	TB70-B2	LPLMY_CP-1
39BA-003	14-F17	P13-3	TB90-B1
39BA-004	14-H17	P13-24	TB70-B1
39BA-005	14-H14	J13-3	TB39-B1
39BA-006	14-H14	TB39-B1	J13-24
39BP-000	5-F16	P730-5	SPR-74
39BP-001	5-F15	P16-14	J730-5
39C-000	14-H9	P264-44	TB39-G1
39C-001	14-H10	TB39-G2	RB10-K4(+)
39CA-000	14-I12	RB10-K4(C)	TB39-C1
39CA-001	14-G18	TB90-C2	RPLMG_CP-1
39CA-002	14-H18	TB70-C2	LPLMG_CP-1
39CA-003	14-G17	TB90-C1	P13-4
39CA-004	14-H17	P13-25	TB70-C1
39CA-005	14-I14	J13-4	TB39-C2
39CA-006	14-I14	TB39-C2	J13-25
39F-000	14-M8	P264-40	TB40-A1
39F-002	14-M1	TB70-D1	P151-1
39F-003	14-M1	TB90-D1	P150-1
39F-004	14-N4	TB61-F2	P16-38
39F-005	14-M3	TB70-D2	P13-32
39F-006	14-M3	TB90-D2	P13-12
39F-007	14-N5	J16-38	TB40-A3
39F-008	14-M5	J13-32	TB40-A4
39F-009	14-M5	J13-12	TB40-A2
39F-010	14-N1	TB61-F3	P152-1
39F-011	14-O1	P153-1	TB61-F1
39FA-000	14-O6	TB39-T1	P264-4
39FA-001	14-O4	TB61-G2	P16-39
39FA-002	14-O5	J16-39	TB39-T2
39FA-003	14-O1	P153-2	TB61-G1
39FB-000	14-N8	TB39-V1	P264-5
39FB-001	14-N4	TB61-E2	P16-37
39FB-002	14-N5	J16-37	TB39-V2
39FB-003	14-N1	P152-2	TB61-E1
39FC-000	14-L8	TB39-W1	P264-2
39FC-001	14-M3	TB90-E2	P13-11
39FC-002	14-M1	P150-2	TB90-E1
39FC-003	14-M5	J13-11	TB39-W2
39FD-000	14-L8	TB39-X1	P264-1
39FD-001	14-N1	P151-2	TB70-E1
39FD-002	14-N3	TB70-E2	P13-31
39FD-003	14-N5	J13-31	TB39-X2
39FU-001	6-D10	FB1-F12	TB35-D1
39FU-002	6-D11	TB35-D2	J14-4
39FU-003	6-D12	P14-4	AHPS-B
39G-000	14-J8	TB39-N1	P264-31
39G-001	14-J6	FB1-F19	TB39-N2
39H-000	14-K6	TB39-M1	P264-49
39H-001	7-L16	P39-4	J02-28
39H-002	14-K6	TB39-M2	P02-28
39HP-000	13-E19	HP1-B	HP2-A
39J-000	14-E11	TB39-L2	RB10-K1(NO)
39J-001	14-E9	FB1-F18	TB39-L1
39SP-000	13-E21	HP1-A	SP1-B
39SU-000	6-D13	AHPS-C	P14-5
39SU-001	6-D14	J14-5	TB35-E1
39SU-004	6-D16	TB35-E2	J13-7
39SU-005	6-D17	P13-7	TB91-L1
39SU-006	6-D19	TB91-L2	SP050
39SU-007	6-D20	SP050	HTMS-1
39SU-008	6-D20	SP050	D50-1
41H-000	8-M7	TB22-M2	RB6-K3(+)
41H-001	8-M7	TB22-M2	RB6-K4(+)
41H-002	8-I14	P021-3	TB10-K1
41H-003	8-I15	TB10-K1	J02-18
41H-004	8-M6	P02-18	TB22-M1
41H-005	8-D8	TB10-K2	JP2-3
41HL-000	8-M9	TB34-F1	RB6-K3(NC)
41HL-001	8-M11	TB34-F2	J12-7
41HL-002	8-M11	TB34-G2	J12-8
41HL-003	8-M12	P12-7	J502-B
41HL-004	8-M12	P12-8	J502-G
41HL-005	8-M14	P502-B	LMLHB-1
41HL-006	8-M14	P502-G	HMLHB-1
41HR-000	8-N8	RB6-K4(NO)	TB26-I1
41HR-001	8-O11	TB26-I2	J11-9
41HR-002	8-N11	TB26-K2	J11-10
41HR-003	8-O14	P516-B	HMRHB-1
41HR-004	8-N14	P516-G	LMRHB-1
41HR-005	8-N12	P11-10	J516-G
41HR-006	8-O12	P11-9	J516-B
41L-000	8-K7	RB6-K1(+)	TB24-B2
41L-001	8-K7	TB24-B2	RB6-K2(+)
41L-002	8-I12	TB10-L1	P021-4
41L-003	8-I13	TB10-L1	J02-4
41L-004	8-H1	P25-6	TB10-L1
41L-005	8-K6	P02-4	TB24-B1
41LL-000	8-K9	RB6-K1(NO)	TB34-H1
41LL-001	8-K11	TB34-H2	J12-9
41LL-002	8-K11	TB34-J2	J12-10
41LL-003	8-K12	P12-9	J502-C
41LL-004	8-K12	P12-10	J502-H
41LL-005	8-K14	P502-C	LMLLB-1
41LL-006	8-K14	P502-H	HMLLB-1
41LR-000	8-L9	TB26-L1	RB6-K2(NO)
41LR-001	8-L11	TB26-L2	J11-11
41LR-002	8-L11	TB26-M2	J11-12
41LR-003	8-L14	P516-C	HMRLB-1
41LR-004	8-L14	P516-H	LMRLB-1
41LR-005	8-L12	P11-12	J516-H
41LR-006	8-L12	P11-11	J516-C
41T-000	9-L10	TB35-F2	RB6-K7(C)
41T-001	9-J17	SP031	RCLT1-B
41T-002	9-J17	SP031	RCLT2-B
41T-003	9-H16	SP031	TB91-M2
41T-004	9-H18	SP035	LCLT1-B
41T-005	9-H18	LCLT2-B	SP035
41T-006	9-H16	TB71-M2	SP035
41T-007	11-G16	J707-B	SP039
41T-008	11-G18	SP039	RSCL1-B
41T-009	11-G18	SP039	RSCL2-B
41T-010	11-H16	J706-B	SP042
41T-011	11-H17	SP042	LSCL1-B
41T-012	11-H17	SP042	LSCL2-B
41T-013	11-E16	TB61-M2	LRSTL-B
41T-014	11-E16	TB61-M2	RRSTL-B
41T-015	11-E14	TB61-M3	P707-B
41T-016	11-E15	TB61-M3	P706-B
41T-017	11-E14	P16-15	TB61-M1
41T-018	9-M12	RHSC-B	P16-35
41T-019	9-I14	P14-12	P732_CP-B
41T-020	9-J15	P13-15	TB91-M1
41T-021	9-H15	P13-16	TB71-M1
41T-022	9-M10	J16-15	TB35-F1
41T-023	9-M10	TB35-F1	J16-35
41T-024	9-L10	J13-16	TB35-F3
41T-025	9-L10	J13-15	TB35-F3
41T-026	9-M10	TB35-F4	J14-12
41TS-000	9-L10	TB22-N2	RB6-K7(+)
41TS-001	8-H10	P25-A	P25-3
41TS-002	9-K6	P25-3	TB10-A1
41TS-003	9-K4	TB10-A1	J02-3
41TS-004	10-E11	J06-18	JB6D-1
41TS-005	10-E11	P072-A	JB6D-2
41TS-006	10-F14	P072-A	P072-C
41TS-007	10-E11	JB6D-3	P071-A
41TS-008	10-K14	P071-A	P071-C
41TS-009	9-K6	P02-3	TB22-N1
41TS-010	9-K3	TB10-A2	P18-1
41TS-011	10-I14	TB10-A2	P06-18
41TS-012	9-K6	P014-C	TB10-A1
42-000	10-D14	TB26-N1	ESLT(NO)
42-001	10-F15	TB26-P2	J12-11
42-002	10-E15	TB26-N2	J12-12
42-003	10-E14	J503-1	P12-12
42-004	10-F14	J503-3	P12-11
42-005	10-E13	LUESL-1	P503-1
42-006	10-F15	LLESL-1	P503-3
42-007	10-E16	TB26-N4	J11-13
42-008	10-E16	TB26-N4	J11-14
42-009	10-F20	P504-1	RUESL-1
42-010	10-G20	P504-3	RLESL-1
42-011	10-E18	J504-1	P11-13
42-012	10-E18	J504-3	P11-14
42A-000	10-E17	J12-21	TB26-R1
42A-001	10-E16	J503-6	P12-21
42A-002	10-E15	LESLSW-3	P503-6
42A-003	10-E18	TB26-R2	J11-15
42A-004	10-E21	P504-6	RESLSW-3
42A-005	10-E20	P11-15	J504-6
42B-000	10-D17	J12-22	TB26-S1
42B-001	10-D16	J503-7	P12-22
42B-002	10-D15	LESLSW-2	P503-7
42B-003	10-D18	TB26-S2	J11-16
42B-004	10-D21	P504-7	RESLSW-2
42B-005	10-D20	P11-16	J504-7
42SL-000	10-D14	ESLT(-)	TB36-H1
42SL-001	10-D15	TB36-H2	J12-3
42SL-002	10-D16	P12-3	J503-5
42SL-003	10-D15	LESLSW-1	P503-5
44-000	11-H7	RB6-K8(NO)	TB35-G1
44-001	11-J12	J04-G	SBL
44-002	11-H9	P04-G	TB35-G2
44-003	11-E13	TB60-D2	LRSTL-A
44-004	11-E15	TB60-D2	RRSTL-A
44-005	11-F12	TB60-D1	P16-16
44-006	11-H9	TB35-G3	J16-16
44A-000	11-H5	FB2-F16	RB6-K8(C)
44C-000	11-H7	RB7-K4(NO)	TB31-M2
44C-001	11-H9	FB3-F5	TB31-M2
44D-000	11-I6	RB7-K4(C)	TB35-H2
44D-001	11-J12	J04-E	DRL
44D-002	11-I6	TB35-H4	P04-E
44D-003	11-H14	TB60-E2	RRL-A
44D-004	11-H14	TB60-E2	LRL-A
44D-005	11-I8	P16-17	TB60-E1
44D-006	11-I6	TB35-H1	J16-17
44R-000	6-I9	J240-K	SBPS-C
44R-001	6-I13	TB31-P2	PX4-9
44R-002	7-H17	IM3-C	TB31-P3
44R-003	11-G6	RB6-K8(+)	TB31-P4
44R-004	6-I11	TB31-P1	P240-K
45F-000	9-J7	TB38-L1	FLSHR(L)
45F-001	9-J8	TB38-L1	RB6-K5(NO)
45F-002	9-J8	TB38-L1	RB6-K6(NO)
45L-000	9-I10	TB22-P2	RB6-K5(+)
45L-001	9-I7	J02-17	TB10-J2
45L-002	9-J3	P021-9	TB10-J2
45L-003	9-I8	P36-6	TB10-J2
45L-004	9-I8	P02-17	TB22-P1
45LL-000	9-J10	RB6-K5(C)	TB35-J2
45LL-001	8-D7	JP2-1	J01-31
45LL-002	9-I9	TB35-J1	P01-31
45LL-003	9-H16	TB70-K2	SP036
45LL-004	9-H18	LCLT2-A	SP036
45LL-005	9-H18	SP036	LCLT1-A
45LL-006	11-I16	J706-A	SP041
45LL-007	11-I18	SP041	LSCL1-A
45LL-008	11-I18	SP041	LSCL2-A
45LL-009	11-I15	TB60-H2	P706-A
45LL-010	11-I14	TB60-H1	P16-18
45LL-011	9-I14	P14-24	P732_CP-A
45LL-012	9-H15	P13-26	TB70-K1
45LL-013	11-I12	TB35-J3	J16-18
45LL-014	9-J11	J13-26	TB35-J4
45LL-015	9-I13	TB35-J5	J14-24
45R-000	9-K10	TB22-R2	RB6-K6(+)
45R-001	9-J3	TB10-M2	P021-11
45R-002	9-K5	TB10-M2	J02-19
45R-003	9-K7	P02-19	TB22-R1
45R-004	9-K5	D5-1	TB10-M2
45RL-000	9-K10	TB35-K2	RB6-K6(C)
45RL-001	8-D7	JP2-2	J01-30
45RL-002	9-K8	TB35-K1	P01-30
45RL-003	9-I16	TB90-K2	SP032
45RL-004	9-I18	SP032	RCLT1-A
45RL-005	9-I18	SP032	RCLT2-A
45RL-006	11-G16	J707-A	SP038
45RL-007	11-G18	SP038	RSCL1-A
45RL-008	11-G18	SP038	RSCL2-A
45RL-009	11-G15	TB60-A2	P707-A
45RL-010	11-G13	P16-19	TB60-A1
45RL-011	11-G14	RHSC-A	P16-34
45RL-012	9-I15	P13-5	TB90-K1
45RL-013	11-G12	J16-19	TB35-K3
45RL-014	11-G12	J16-34	TB35-K3
45RL-015	9-K11	J13-5	TB35-K4
45RR-000	9-L6	D5-2	P36-A
45RR-001	9-L7	P36-A	P36-3
47-000	11-E9	TB35-L2	RB7-K2(C)
47-001	11-E9	TB35-L2	RB7-K3(+)
47-002	11-C16	TB60-F2	RRBL-1
47-003	11-C16	TB60-F2	LRBL-1
47-004	11-E6	P16-20	TB60-F3
47-005	11-E7	J16-20	TB35-L1
47A-000	11-E11	TB29-W1	RB7-K3(NO)
47A-001	11-E12	TB29-W2	FB2-F18
47B-000	11-D11	FB2-F17	RB7-K2(NO)
47D-000	11-F9	TB29-X2	RB7-K3(C)
47D-001	11-E5	TB10-H2	RBUL_CP-2
47D-002	11-F9	TB70-H2	LBUL_CP-2
47D-003	11-E7	P13-6	TB90-H1
47D-004	11-F7	P13-27	TB70-H1
47D-005	11-E8	J13-6	TB29-X1
47D-006	11-F8	TB29-X1	J13-27
47L-000	11-B10	P23-6	J03-17
47L-001	11-B12	P03-17	TB22-S1
47S-000	11-D9	RB7-K2(+)	TB22-T2
47S-001	11-B10	P23-3	J03-16
47S-002	11-B10	P23-3	P23-A
47S-003	11-D9	TB22-T1	P03-16
48-000	9-F12	TB26-T1	RB7-K5(NO)
48-001	9-F14	TB26-T2	J12-23
48-002	9-F14	TB26-V2	J12-24
48-004	9-F15	P12-23	J502-D
48-005	9-F15	P12-24	J502-F
48-006	9-F16	P502-D	LDLLT-1
48-007	9-F16	P502-F	LDLT-1
48-008	9-F14	TB26-T4	J11-17
48-009	9-F14	J11-18	TB26-T4
48-010	9-D18	P516-D	RDLLT-1
48-011	9-D18	P516-F	RDLT-1
48-012	9-D16	P11-17	J516-D
48-013	9-D16	P11-18	J516-F
48A-000	9-F6	TB34-K2	J12-25
48A-001	9-D6	LLSW-2	P535-B
48A-002	9-F7	J535-B	P12-25
48A-003	9-F3	P24-1	J03-18
48A-004	9-F2	P24-4	P24-C
48A-005	9-F5	P03-18	TB34-K1
48B-000	9-F6	TB34-L2	J12-26
48B-001	9-D6	LLSW-3	P535-C
48B-002	9-F7	P12-26	J535-C
48B-003	9-F3	P24-3	J03-19
48B-004	9-F2	P24-3	P24-A
48B-005	9-F5	P03-19	TB34-L1
48C-000	9-E11	TB34-M2	RB7-K5(+)
48C-001	9-E10	J12-27	TB34-M1
48C-002	9-D6	P12-27	J535-A
48C-003	9-D6	LLSW-1	P535-A
48F-000	9-B9	TB26-W2	J12-28
48F-001	9-B11	P12-28	J502-A
48F-002	9-B12	P502-A	LFLT-1
48F-003	9-B9	TB26-W4	J11-19
48F-004	9-B12	P516-A	RFLT-1
48F-005	9-B11	P11-19	J516-A
48F-006	9-B5	P22_CP-6	J03-20
48F-007	9-B8	TB26-W1	P03-20
49-000	6-J8	TB10-D1	J02-31
49-002	4-D14	JB6B-4	ESSW-A
49-003	4-D14	JB6B-1	J06-4
49-004	10-G8	JB6B-3	RORS-A
49-005	7-G14	JB6B-2	P8-1
49-006	6-J6	TB23-A2	P02-31
49-007	8-J9	TB10-D2	P18-2
49-008	6-F7	JP1-2	TB10-D2
49-009	6-J6	TB10-D2	R27-1
49-010	8-J5	TB23-A1	P06-4
51A1-000	13-L6	TB21-K2	IM2-W
51A1-001	13-M2	P14-32	ACCP1-C
51A1-002	13-L4	J14-32	TB21-K1
51A2-000	13-M3	ACCP1-B	P14-33
51A2-001	13-M2	ACCP2-C	P14-34
51A2-002	13-M4	J14-33	TB21-L1
51A2-003	13-M4	J14-34	TB21-L1
52A-000	4-H9	J240-F	PBRPS-A
52A-002	4-H7	TB32-G2	P240-F
52B-000	7-M14	JB4C-2	D2-2
52B-001	7-M14	BLS-1	JB4C-3
52B-002	7-M14	J240-L	JB4C-1
52B-003	7-K13	TB32-J2	IM2-i
52B-004	7-K11	D44-1	TB32-J1
52B-005	7-K13	P240-L	TB32-J4
52B1-000	7-L4	TB23-B2	RB8-K3(+)
52B1-001	7-K10	TB23-B2	D44-2
52B1-002	7-L16	P39-3	J02-25
52B1-003	7-L15	P39-A	P39-3
52B1-004	7-L3	TB23-B1	P02-25
52C-000	7-H17	TB28-M2	IM3-V
52C-001	7-H7	TB28-M3	RB9-K2(NO)
52C-002	7-I6	TB28-M1	RB9-K4(+)
52CS-000	6-I10	J240-G	JB4D-1
52CS-001	6-I9	D1-2	JB4D-2
52CS-002	6-I9	PBS-2	JB4D-3
52CS-003	7-I12	TB32-K2A	R18-1
52CS-004	7-I12	IM1-E	TB32-K2A
52CS-005	7-I7	RB9-K4(NO)	TB32-K1
52CS-006	7-I11	P240-G	TB32-K3
52PBO-000	5-O15	J240-H	SPR-9
52PBO-001	5-O13	P240-H	TB32-L2
53H-000	10-M16	SP003	J240-R
53H-001	10-M17	SP003	HLS-1
53H-002	10-M17	SP003	D3-1
53H-003	10-M15	TB35-N2	P240-R
53H-004	10-M16	TB60-J2	HLSW-3
53H-005	10-M16	P16-22	TB60-J1
53H-006	10-M14	TB35-N1	J16-22
53ISC-000	6-H2	TB27-W1	P806-27
53ISC-001	6-H4	TB27-W2	PX4-46
55A-000	8-H17	IM3-H	TB41-G2
55A-001	8-C10	P21-1	J01-24
55A-002	8-C13	P01-24	TB41-G1
55B-000	8-C17	TB41-H2	IM3-J
55B-001	8-C10	P21-3	J01-25
55B-002	8-C13	TB41-H1	P01-25
55C-000	8-D17	TB41-J2	IM3-K
55C-001	8-B10	P20-1	J01-26
55C-002	8-B13	P01-26	TB41-J1
55D-000	8-D17	TB41-K2	IM2-q
55D-001	8-B10	P20-3	J01-27
55D-002	8-B13	P01-27	TB41-K1
63-000	11-K1	TB23-C1	FB1-F2
63-001	11-L2	TB10-E3	P021-8
63-002	11-L2	P09-30	TB10-E3
63-003	11-L2	P08-30	TB10-E3
63-004	11-L2	TB10-E1	J03-23
63-005	11-L2	P016-3	TB10-E2
63-006	11-L2	WADT-2	TB10-E2
63-007	11-L2	TB10-E2	P10-86
63-008	11-K2	TB23-C2	P03-23
63H-000	11-P5	P016-6	P08-87
63H1-000	11-M3	P08-86	P021-1
63L-000	11-O5	P09-87	P016-5
63L1-000	11-N2	JB6A-2	P09-86
63L1-001	11-N2	JB6A-1	D68-1
63L1-002	11-N2	JB6A-4	WADT-1
63L1-003	11-N2	JB6A-5	P10-85
63L2-000	11-M3	P021-2	D68-2
63P-000	11-M5	P021-6	P016-2
63T1-000	11-M3	P021-12	P10-87
63W-000	11-L2	P021-7	JB4A-2
63W-001	11-L2	WADT-6	JB4A-3
63W-002	11-L2	J03-30	JB4A-1
63W-003	11-L3	WW(+)	P03-30
65-000	12-L11	FB4-F14	TB44-M1
65-001	12-L13	J04-A	SP025
65-002	12-M15	P209-30	SP025
65-003	12-L16	P211-A	SP025
65-004	12-L12	TB44-M2	P04-A
65-005	12-M19	CONN1-7	J211-A
65A-000	12-M15	P209-87	P211-D
65A-001	12-N19	J211-D	CONN1-4
65A-002	12-N19	CONN1-6	J211-D
65C-000	6-L3	P816-2	P803-2
65F-000	6-L20	TB31-V2	SPR-92
65F-001	6-L20	TB31-V2	SPR-91
65F-002	6-L19	RB9-K5(NO)	TB31-V1
65S-000	6-D2	TB27-M1	P805-A
65S-001	7-N3	RB9-K6(+)	TB27-M2
65SR-000	7-O4	RB9-K6(NO)	RB7-K6(C)
65SS-000	7-O8	TB26-X1	RB7-K6(NO)
65SS-001	7-O9	TB26-X2	J11-20
65SS-002	7-O12	P516-E	P520_CP-1
65SS-003	7-O11	P11-20	J516-E
65T-000	6-L4	P801-N	P816-1
65T-001	6-L7	J801-N	TB30-X1
65T-002	6-K13	J02-1	P014-D
65T-003	6-K10	TB30-X2	P02-1
65T-004	6-K10	SPR-90	TB30-X5
65T-005	6-K10	TB30-X4	RB9-K5(+)
65T-006	7-N7	TB30-X4	RB7-K6(+)
67C-000	5-O1	TB43-R1	FB4-F1
67C-002	5-O3	SP027	12VPWR1-1
67C-003	5-O5	SP027	12VPWR2-1
67C-004	5-O4	J06-6	SP027
67C-005	5-O2	TB43-R2	P06-6
67L-000	10-I12	P059-A	P072-5
67M-000	10-I12	P058-B	P072-2
67P-000	10-I20	FB4-F19	TB43-S1
67P-001	10-I14	P072-6	SP020
67P-002	10-I14	P072-1	SP020
67P-003	10-I19	J06-8	TB43-S2
67P-004	10-I16	SP020	J06-8
67R-000	10-I20	TB43-T1	FB4-F17
67R-001	10-K14	P071-6	SP019
67R-002	10-K14	P071-1	SP019
67R-003	10-J19	P06-7	TB43-T2
67R-004	10-J16	SP019	J06-7
67S-000	10-K12	P058-B	P071-2
67T-000	10-K12	P058-A	P071-5
68-000	13-M9	IM3-T	TB34-N1
68-001	13-M11	TB34-N2	R17-1
68-004	13-N14	J511-B	SP048
68-005	13-N13	P511-21	P511-B
68-006	13-N17	SOL-1	SP048
68-007	13-N17	D12-2	SP048
68-008	13-M11	TB34-N4	J11-21
68ES-001	13-M13	FB3-F14	TB34-P1
68ES-002	13-N14	J511-E	SP047
68ES-003	13-N13	P11-22	P511-E
68ES-004	13-M13	J11-22	TB34-P2
68ES-005	13-N16	SP047	SOL-2
68ES-006	13-N16	SP047	D12-1
68LS-000	13-O14	J511-C	P512_CP-C
68LS-001	13-O13	P11-23	P511-C
68LS-002	13-O11	TB34-R2	J11-23
68LS-003	13-O9	IM3-W	TB34-R1
68P-000	13-M9	TB35-P1	IM3-Y
68P-001	13-M14	TB60-B2	ALPS-B
68P-004	13-M12	P16-23	TB60-B1
68P-005	13-M11	TB35-P4	J16-23
69M-000	5-H10	SPR-30	J03-4
69M-001	5-I11	P03-4	TB23-F1
69M-002	14-A9	TB90-G2	RHTM_CP-1
69M-003	14-B9	TB70-G2	LHTM_CP-1
69M-004	14-A8	P13-8	TB90-G1
69M-005	14-B8	P13-29	TB70-G1
69M-006	14-A6	TB23-F2	J13-8
69M-007	14-B6	TB23-F2	J13-29
71BC-000	6-I7	J240-J	JB4E-1
71BC-001	6-I7	SBPS-B	JB4E-2
71BC-002	6-I7	D1-1	JB4E-3
71BC-003	6-I7	PBS-1	JB4E-4
71BC-004	7-H4	TB31-S2	RB9-K2(C)
71BC-005	7-H4	TB31-T2	RB8-K4(+)
71BC-006	7-H4	TB31-T2	RB7-K8(C)
71BC-007	7-H4	RB8-K5(C)	TB31-T2
71BC-008	7-M6	RB8-K5(C)	RB8-K5(+)
71BC-009	7-H3	P240-J	TB31-S1
71BC-010	7-H2	TB31-S3	FB3-F17
71BD-000	13-C13	FB3-F16	RB9-K1(+)
71BK-000	7-J8	RB8-K2(NO)	D13-2
71BL-000	7-J6	RB8-K4(NO)	RB8-K2(C)
71BM-000	7-K7	RB7-K8(NO)	TB28-V1
71BM-001	7-L6	RB8-K3(C)	TB28-V1
71BM-002	7-K14	TB29-V1	D14-2
71BN-000	7-K6	RB8-K5(NO)	RB7-K8(+)
71BN-001	7-M7	RB8-K3(NO)	RB8-K5(NO)
71C-000	4-F7	TB24-A1	D7-1
71C-001	4-D4	DLPR-86	TB24-A1
71C-002	4-F7	TB24-A1	D8-1
71CK-000	4-D3	TB24-L1	DLPR-30
71CK-001	4-D1	TB24-L2	FB3-C
71CK-002	4-E1	TB24-L3	FB3-B1
71CK-003	4-E1	TB24-L4	FB4-C
71CKM-000	4-N8	KOMV-2	FB4-F20
71F-000	12-E3	PX4-3	TB35-S1
71F-001	14-K8	TB35-S2	P264-46
71F-002	12-E7	P16-25	BUSW-3
71F-003	12-E5	TB35-S4	J16-25
71GE-000	5-C2	PX5-29	TB24-G1
71GE-001	5-B2	IM3-M	TB24-G2
71GE-002	5-C2	TB24-G3	D8-2
71GG-000	4-C19	TB25-K2	PX5-26
71GG-001	4-C18	J12-14	TB25-K1
71GG-002	4-C16	P12-14	P537-3
71GG-003	3-C18	J537-3	PLOS-F1
71GH-000	4-C19	TB25-L2	PX5-27
71GH-001	4-C18	J12-15	TB25-L1
71GH-002	4-C16	P12-15	P537-2
71GH-003	3-C18	PLOS-F2	J537-2
71H-000	10-G3	TB43-V1	PX4-21
71H-001	10-G7	RORS-1-3	J06-11
71H-002	10-G4	P06-11	TB43-V2
71J-000	3-K2	T19-APL	ALT-T19
71LS-000	9-C8	TB41-F2	FB3-F22
71LS-001	9-C4	TB10-C2	J01-5
71LS-002	9-C5	TB10-C2	P20-C
71LS-003	9-C5	TB10-C2	P21-C
71LS-004	8-B10	P20-C	P20-A
71LS-005	8-C10	P21-A	P21-C
71LS-006	9-C6	P01-5	TB41-F1
71P-000	12-N11	TB23-G2	FB3-F15
71P-001	12-M7	P34-2	J02-27
71P-002	12-K8	P35-2	J03-9
71P-003	5-M10	SPR-31	J02-7
71P-004	12-N7	P33-2	J03-5
71P-005	10-G9	RORS-1-4	DSS-C
71P-006	10-G9	RORS-1-4	J06-10
71P-007	12-N12	P02-7	TB23-G4
71P-008	12-M9	P02-27	TB23-J1
71P-009	12-N9	P03-5	TB23-H1
71P-010	12-K9	P03-9	TB23-J1
71P-011	10-H8	P32-2	P32-5
71P-012	10-H8	P32-2	J01-23
71P-013	12-N12	TB23-H2	P01-23
71P-014	12-N12	TB23-J4	P06-10
71P-015	12-D9	P703-B	TB61-H1
71P-016	12-E9	P16-26	BUSW-1
71P-017	12-D11	TB61-H2	P16-27
71P-018	12-D7	BPSW-C	J703-B
71P-019	12-E10	J16-26	TB23-H4
71P-020	12-N9	J16-27	TB23-G1
71PS-000	3-C18	PLOS-B2	PLON-1
71PS-001	3-D17	PLOS-B2	PLREL-86
71SR-000	7-G16	P8-3	R250-2
71SS-000	7-F14	FB3-F23	TB43-W1
71SS-001	7-F17	J06-3	R250-1
71SS-002	7-F16	TB43-W2	P06-3
71VHM-000	12-H14	P1-8	TB21-E1
71VHM-001	12-H14	TB21-E1	P1-9
71VHM-002	12-H16	TB21-E2	FB3-F20
72AT-000	8-L3	PX2-1	TB33-A1
72AT-001	13-P6	TB33-A2	IM2-c
72CPU-000	7-I18	TB25-S2	IM3-a
72CPU-001	7-J15	PX4-41	TB25-S1
72F-000	7-G10	PX4-17	TB44-A2
72F-001	7-G12	D29-2	TB44-A1
72F-002	7-G14	J06-16	P8-7
72F-003	7-H11	TB44-A3	P06-16
72FD-000	8-L3	PX2-7	TB29-R1
72FD-001	8-L6	TB29-R2	D15-1
72FNR-000	7-J17	TB44-H2	IM2-N
72FNR-001	7-J15	TB44-H1	D27-1
72FNR-002	7-J15	D28-1	TB44-H1
72FNR-003	7-J13	D29-1	TB44-H1
72FNR-004	7-J5	TB44-G1	RB8-K2(+)
72FNR-005	7-J15	TB44-G1	RB9-K2(+)
72GD-000	12-L3	TB23-S1	PX4-28
72GD-001	12-L5	P34-3	J02-8
72GD-002	12-L7	P34-3	P34-A
72GD-003	12-L4	TB23-S2	P02-8
72GD1-000	13-L9	IM2-h	TB42-X1
72GD1-001	12-M7	P34-5	J03-24
72GD1-002	13-L12	TB42-X2	P03-24
72HC-000	14-N11	P264-6	COMMB-1
72MAN-000	13-P6	TB33-B2	IM2-c
72N-000	7-G10	TB44-B2	PX4-34
72N-001	7-G12	D28-2	TB44-B1
72N-002	7-G14	J06-15	P8-6
72N-003	7-G11	P06-15	TB44-B3
72P-000	7-G10	TB44-C2	PX4-32
72P-001	7-G12	TB44-C1	IM3-T
72P-002	7-G14	J06-13	P8-4
72P-003	7-G11	TB44-C3	P06-13
72PD-000	5-L10	SPR-59	J02-14
72PD-001	5-L13	P02-14	TB23-T1
72PU-000	5-L10	SPR-58	J02-13
72PU-001	5-L11	P02-13	TB23-V1
72R-000	7-G10	TB44-D2	PX4-16
72R-001	7-G12	D27-2	TB44-D1
72R-002	11-C9	RB7-K1(+)	TB44-D1
72R-003	7-G14	J06-14	P8-5
72R-004	7-G11	TB44-D3	P06-14
72RD-000	8-L3	PX2-2	TB29-S1
72RD-001	8-L6	TB29-S2	D16-1
72RQ-000	12-L3	TB23-K1	PX4-18
72RQ-001	12-L4	TB23-K2	J12-16
72RQ-002	12-L8	P12-16	P537-1
72RQ-003	12-L4	TB23-K4	D70-1
72RQ-004	3-C19	J537-1	D71-1
72RQ1-000	12-L7	P35-3	J03-11
72RQ1-001	12-L8	P35-3	P35-A
72RQ1-002	12-L5	D70-2	P03-11
72RRQ-000	3-D18	PLREL-87A	PLLO-1
72RRQ-001	3-D18	D71-2	PLREL-87A
72SBT-000	12-O3	TB25-X1	PX4-25
72SBT-001	12-O5	P37-3	J03-8
72SBT-002	12-O4	TB25-X2	P03-8
72T-000	7-G14	J06-9	P8-8
72T-001	7-H11	TB44-E1	P06-9
72TC-000	12-N3	PX4-22	TB23-W1
72TC-001	12-N5	P33-3	J03-6
72TC-002	12-N7	P33-A	P33-3
72TC-003	12-N4	TB23-W2	P03-6
73DS-000	10-H3	TB44-F1	PX4-13
73DS-001	12-L15	TB44-F2	P5B-2
73DS-002	10-H11	DSS-NO	J06-12
73DS-003	10-H6	TB44-F4	P06-12
73S1-000	4-H9	J240-E	PBRPS-C
73S1-001	4-H5	TB32-M1	IM2-M
73S1-002	4-C12	TB32-M2	RB8-K8(-)
73S1-003	4-H7	TB32-M4	P240-E
73S1-004	4-H7	TB32-M3	J12-39
73S1-005	16-C15	P538-8	P12-39
73S1-006	16-C2	J538-8	P7-10
73V-000	5-L15	J04-F	SPR-42
73V-001	5-L13	P04-F	TB44-N1
74D-000	3-K2	T20-APL	ALT-T20
74DS-000	12-K14	P1-16	TB25-M1
74DS-001	13-L10	IM2-L	TB25-M2
74HB-000	14-N11	P264-10	COMMB-2
74LA-000	14-O11	P264-9	COMMB-3
74N-000	10-D3	PX3-21	TB41-N1
74N-001	10-D9	J01-12	P013-B
74N-002	10-D6	TB41-N2	P01-12
74X-000	10-F3	PX1-15	TB33-T1
74X-001	10-F6	TB33-T2	P830-A
74X1K-000	6-H2	TB27-N1	P806-25
74X1K-001	6-H4	TB27-N2	PX4-7
74Z-000	10-F3	PX1-27	TB33-V1
74Z-001	10-F6	TB33-V2	P830-B
74ZA-000	11-H6	TB31-L2	RB7-K4(+)
74ZA-001	11-H4	FB3-F24	TB31-L1
74ZB-000	11-H9	PX4-31	TB31-N1
74ZB-001	11-H7	RB7-K4(-)	TB31-N2
75A1-000	12-D7	BPSW-NC	J701-A
75A2-000	12-D3	TB35-V1	PX4-2
75A2-001	12-C7	BPSW-NO	J703-C
75A2-002	12-C9	P703-C	TB61-J1
75A2-003	12-C11	P16-28	TB61-J2
75A2-004	12-D5	J16-28	TB35-V2
75IOF-000	7-G5	RB8-K1(NC)	RB8-K4(C)
77-000	10-F3	PX1-40	TB37-G1
77-001	14-K8	P264-16	TB37-G2
77A-000	10-F3	PX1-26	TB37-H1
77A-001	14-L8	P264-6	TB37-H2
77B-000	10-C3	PX1-19	TB29-F1
77B-001	10-C6	TB29-F2	J15-5
77B-002	10-C9	P15-5	P721-D
77C-000	10-D3	PX1-31	TB29-C1
77C-001	10-D6	TB29-C2	J15-3
77C-002	10-D9	P15-3	P721-C
77DN-000	10-C3	PX1-18	TB29-E1
77DN-001	10-C6	TB29-E2	J15-6
77DN-002	10-C9	P15-6	P721-F
77DP-000	10-D3	PX1-46	TB29-D1
77DP-001	10-D6	TB29-D2	J15-4
77DP-002	10-D9	P15-4	P721-E
77G-000	10-C3	PX1-47	TB29-B1
77G-001	10-C6	TB29-B2	J15-2
77G-002	10-C9	P15-2	P721-B
77Y-000	10-I3	PX2-4	TB33-G1
77Z-000	10-I3	PX2-5	TB33-F1
79-000	11-C11	TB38-S1	RB7-K1(NO)
79-001	11-C13	FB3-F6	TB38-S2
79A-000	11-D9	TB35-W2	RB7-K1(C)
79A-001	11-D9	RB7-K2(NC)	TB35-W2
79A-002	11-B16	TB60-G2	RRBH(+)
79A-003	11-B16	TB60-G2	LRBH(+)
79A-004	11-D6	TB60-G1	P16-29
79A-005	11-D7	J16-29	TB35-W1
85-000	12-G14	TB21-F1	P1-6
85-001	12-G14	P1-7	TB21-F1
85-002	12-G16	FB2-F3	TB21-F2
85-003	12-G20	CNA-39	SP026
85-004	12-G20	CNA-40	SP026
85-005	12-G20	SP026	CNA-36
85-006	12-G18	J04-N	SP026
85-007	12-G16	P04-N	TB21-F4
86-500	4-J14	J712-2	TB-HTST-F4
86-501	4-I16	TB-HTST-G1	HEATER COOLANT LH
86-502	4-I16	TB-HTST-G2	HEATER COOLANT RH
86-503	4-I16	TB-HTST-G3	SP703
86-504	4-I19	SP703	EOH1-A
86-505	4-I19	SP703	EOH2-A
86-506	4-I16	CON1-A	TB-HTST-H1
86-507	4-K18	SP707	CON2-A
86-508	4-K19	SP707	HOHTR1-A
86-509	4-K19	SP707	HOHTR2-A
86-510	4-I16	TB-HTST-H2	CON3-B
86-511	4-I19	CON4-B	ECHTR1-B
87-000	13-C9	TB21-H1	IM3-G
87-001	13-C11	TB21-J2	R15-2
87-002	13-C11	FB3-F19	TB21-H2
87-500	4-J14	TB-HTST-K4	J712-1
87-501	4-K16	TB-HTST-J1	HEATER COOLANT LH
87-502	4-K16	TB-HTST-J2	HEATER COOLANT RH
87-503	4-K16	TB-HTST-J3	EOTS-A
87-506	4-K16	TB-HTST-K1	CON1-B
87-507	4-K18	CON2-B	HOSTAT-B
87-510	4-K16	TB-HTST-K2	CON3-A
87-511	4-I19	ECHTR2-A	CON4-A
90-500	4-J19	SP704	EOTS-B
90-501	4-J19	SP704	EOH1-B
90-502	4-J19	SP704	EOH2-B
90-503	4-K19	SP708	HOSTAT-A
90-506	4-K19	SP708	HOHTR1-B
90-507	4-K19	SP708	HOHTR2-B
90-510	4-J20	ECHTR2-B	ECHTR1-A
90CAG-000	12-J3	PX3-25	TB42-S1
90CAG-001	12-J10	J07-19	DIAG2-5
90CAG-002	12-J6	TB42-S2	P07-19
90CAR-000	12-J3	PX3-12	TB42-R1
90CAR-001	12-J10	J07-18	DIAG2-2
90CAR-002	12-J6	TB42-R2	P07-18
90CAT-000	12-J3	PX3-27	TB42-P1
90CAT-001	12-J10	J07-17	DIAG2-3
90CAT-002	12-J6	TB42-P2	P07-17
90DIG-000	12-I3	PX3-30	TB42-H1
90DIG-001	12-I10	J07-8	DID-3
90DIG-002	12-I6	P07-8	TB42-H2
90DIR-000	12-I3	PX3-28	TB42-G1
90DIR-001	12-I10	J07-7	DID-2
90DIR-002	12-I6	P07-7	TB42-G2
90DIT-000	12-I3	PX3-13	TB42-F1
90DIT-001	12-I10	J07-6	DID-1
90DIT-002	12-I6	P07-6	TB42-F2
90MG-000	13-I9	IM2-C	TB43-L1
90MG-001	13-I12	TB43-L1	J372-5
90MG-002	13-I14	J07-30	DIAG5-5
90MG-003	13-I12	TB43-L2	P07-30
90MR-000	13-H9	IM2-B	TB43-K1
90MR-001	13-H12	TB43-K1	J372-3
90MR-002	13-I14	J07-29	DIAG5-3
90MR-003	13-H12	TB43-K2	P07-29
90MT-000	13-H9	IM2-A	TB43-J1
90MT-001	13-H12	TB43-J1	J372-2
90MT-002	13-I14	J07-28	DIAG5-2
90MT-003	13-H12	TB43-J2	P07-28
90VHG-000	12-J14	P4A-9	TB42-M1
90VHG-001	12-J16	TB42-M2	J362-6
90VHG-002	12-K19	J07-13	DIAG4-5
90VHG-003	12-J16	TB42-M4	P07-13
90VHR-000	12-J14	P4A-10	TB42-L1
90VHR-001	12-J16	TB42-L2	J362-3
90VHR-002	12-K19	J07-12	DIAG4-3
90VHR-003	12-J16	TB42-L4	P07-12
90VHT-000	12-J14	P4A-11	TB42-K1
90VHT-001	12-J16	TB42-K2	J362-2
90VHT-002	12-K19	DIAG4-2	J07-11
90VHT-003	12-J16	TB42-K4	P07-11
439-000	6-C2	TB27-R1	P804-H
439-001	6-D5	TB27-S2	PX4-8
439-002	6-D3	TB27-S1	IM3-E
439-003	4-D17	ESSW1-4	J06-17
439-004	6-C5	TB27-R2	P06-17
439E-000	4-D13	FB1-F20	RB8-K7(NO)
509-000	6-H2	TB27-T1	P806-10
509-001	6-H4	TB27-T2	PX4-33
509-002	7-H17	TB27-T4	IM3-N
510E-000	4-C19	PX4-20	TB25-N2
510E-001	4-C18	RB8-K8(C)	TB25-N1
510E2-001	7-F17	IM3-P	TB43-A2
510E2-002	16-D2	P7-4	SP308
510E2-003	16-D3	SP308	UPS-B
510E2-004	7-F15	TB43-A4	J12-33
510E2-005	16-D15	P12-33	P538-1
510E2-006	16-D3	SP308	J538-1
525-000	10-N3	PX3-35	TB41-T1
525-001	10-N9	J01-8	P015-B
525-002	10-N6	TB41-T2	P01-8
712-000	4-F6	TB24-K2	PX5-28
712-001	4-E4	KSWPR-30	TB24-J1
712-002	5-B8	TB24-J2	12VPR-86
712-003	4-F5	TB24-K4	D7-2
712-004	4-F3	TB24-J3	FB1-A
712A-000	5-B16	DLSA-2	TB34-S2
712A-001	5-B14	FB1-F11	TB34-S1
712AP-000	6-L17	TB25-G1	RB9-K5(C)
712AF-001	6-L17	TB25-G2	FB1-F10
712BL-000	7-J17	TB23-L2	IM3-L
712BL-001	7-J16	D13-1	TB23-L1
712BL-002	7-K16	D14-1	TB23-L1
712BL-003	7-L14	J02-24	P39-2
712BL-004	7-K18	TB23-L4	P02-24
712DS-000	7-C7	FB1-F9	TB44-X1
712DS-001	7-C2	J229-A	SP028
712DS-002	7-C2	J228-A	SP028
712DS-003	7-C4	SP028	J06-2
712DS-004	7-C5	P06-2	TB44-X2
712E-000	5-J12	TB23-M1	FB1-F7
712E-001	5-J10	SPR-32	J03-1
712E-002	5-J11	TB23-M2	P03-1
712G-000	8-F15	TB41-L2	FB1-F3
712G-001	8-D14	J04-W	D9-2
712G-002	8-D7	JP2-4	TB10-F1
712G-003	8-E8	TB10-F1	J01-6
712G-004	8-E9	P01-6	TB41-L1
712G-005	8-E15	TB41-L4	P04-W
712H-000	10-L14	TB35-X1	FB1-F5
712H-001	10-M20	TB60-K1	HLSW-1
712H-002	10-M21	TB60-K2	P16-50
712H-003	10-L16	TB35-X2	J16-50
712IM-000	4-E11	RB8-K1(NO)	TB24-D1
712IM-001	4-E12	TB24-D1	KSWPR-86
712IM-002	4-I8	TB24-D1	D45-1
712K-000	4-I5	IM2-P	TB23-N1
712K-001	4-I7	TB23-N2	D45-2
712K-002	4-F10	KEYSW-BR	J03-14
712K-003	11-B9	KEYSW-BR	P23-2
712K-004	4-I7	P03-14	TB23-N4
712L-000	5-B17	DLSA-3	TB34-T1
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712SL-001	14-G12	RB10-K2(NO)	TB39-D1
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