

Aggregate Reliability Report

Summary

Aggregate Failure Rate:

1171.027453

Failure Rate Roll-up

Items Objects Functions	Failure Rate
Entire Design	1171.027453
ABS LED	7.760348
ABS LED	7.760348
BATTERY	57.039729
BATTERY	57.039729
BF Level Sensor	15.000000
BF Level Sensor	15.000000
Brake Fluid	50.000000
Brake Fluid-Fluid Level	16.666667
Brake Fluid-Front Fluid Reservoir	16.666667
Brake Fluid-Rear Fluid Reservoir	16.666667
Brake Fluid LED	87.751628
Brake Fluid LED	87.751628
Brake Light SW	12.399687
Brake Light SW	12.399687
Brake Pedal	8.577227
Brake Pedal-Foot Pressure	2.859076
Brake Pedal-Pedal Pressure	2.859076
Brake Pedal-Pedal SW	2.859076
CKV 1	4.959875
CKV1 Hydraulic Fluid To Pump	4.959875
CKV 2	4.959875
Hydraulic Fluid To Reservoir 1	4.959875
CKV 3	4.959875
CKV3 Hydraulic Fluid To Pump	4.959875
CKV 4	4.959875
Hydraulic Fluid To Reservoir 2	4.959875
D1	0.003400
D1	0.003400
DIAG CONN	0.000100
DIAG CONN-20_DIAG+	0.000050
DIAG CONN-34_DIAG-	0.000050
ECU	8.772000
Analog To Digital Converter	3.082054
6_Motor Relay Monitor	0.237081
14_PUMP MOTOR CNTL	0.237081
18_Solenoid Relay Monitor	0.237081
25_BRAKE LIGHT SWITCH	0.237081
27_SOLENOID RELAY LO	0.237081
LF INLET SOL	0.237081
LF OUTLET SOL	0.237081
LR INLET SOL	0.237081
LR OUTLET SOL	0.237081
RF INLET SOL	0.237081

RF OUTLET SOL	0.237081
RR INLET SOL	0.237081
RR OUTLET SOL	0.237081
DC Power Converter	0.711243
DC Power Converter-3.3V	0.237081
DC Power Converter-5V	0.237081
DC Power Converter-GND	0.237081
DIREG	1.659568
20_DIAG+	0.237081
34_DIAG+	0.237081
Brake Fluid SW	0.237081
LFWSS	0.237081
LRWSS	0.237081
RFWSS	0.237081
RRWSS	0.237081
RISC Processor	0.948324
ABS Indicators	0.237081
PCM Communications	0.237081
RISC Processor-BRAKE FLUID LED	0.237081
RISC Processor-RISC ADDR/DATA BUS	0.237081
Solenoid Controller CMOS Switch	2.370811
Solenoid Controller CMOS Switch-14_PUMP MOTOR CNTL	0.237081
Solenoid Controller CMOS Switch-27_Solenoid Relay	0.237081
Solenoid Controller CMOS Switch-LF INLET SOL	0.237081
Solenoid Controller CMOS Switch-LF OUTLET SOL	0.237081
Solenoid Controller CMOS Switch-LR INLET SOL	0.237081
Solenoid Controller CMOS Switch-LR OUTLET SOL	0.237081
Solenoid Controller CMOS Switch-RF INLET SOL	0.237081
Solenoid Controller CMOS Switch-RF OUTLET SOL	0.237081
Solenoid Controller CMOS Switch-RR INLET SOL	0.237081
Solenoid Controller CMOS Switch-RR OUTLET SOL	0.237081
F Pump PS	2.200000
F Pump PS	2.200000
FR Line	38.026486
FR Line	38.026486
Front Accumulator	0.100000
Front Accumulator	0.100000
Front Damper Chamber	5.700000
Front Damper Chamber	5.700000
Front Pump	20.013940
FPUMP OUT: Front Pump	10.006970
Front Pump-Load	10.006970
FS Line	38.026486
FS Line	38.026486
Fuse	11.407946
Fuse	11.407946
Ignition Switch	9.350583
Ignition Switch	9.350583
L Brake Bulb	87.751628
L Brake Bulb	87.751628
LF Disc Assy	34.250000
ABS Speed Sensor	2.953323
Speed Sensor	1.476661
ABS Speed Sensor-Speed Sensor-SS+	0.738331
ABS Speed Sensor-Speed Sensor-SS-	0.738331
SS Cable	1.476661

ABS Speed Sensor-SS Cable	1.476661
Brake Valves	0.529685
Inlet Valve	0.264843
Brake Valves-Back Pressure	0.066211
Brake Valves-Inlet Valve-Current Load	0.066211
Brake Valves-Inlet Valve-Pressure Build	0.066211
Brake Valves-Inlet Valve-Pressure Hold	0.066211
Outlet Valve	0.264843
Brake Valves-Outlet Valve-Fluid Out To Reservoir	0.088281
Brake Valves-Outlet Valve-Outlet Solenoid Control Current Load	0.088281
Brake Valves-Pressure Release	0.088281
Caliper Assy	6.349774
Caliper	1.476692
Caliper Piston Pressure	1.476692
Piston 1	2.436541
Caliper Assy-Piston 1-Piston Fluid	1.218271
Caliper Assy-Piston 1-Pressure	1.218271
Piston 2	2.436541
Caliper Assy-Piston 2-Piston Fluid	1.218271
Caliper Assy-Piston 2-Pressure	1.218271
PADS	19.776187
Pad1	9.888093
PADS-Pad1-Pad Breaking Pressue	4.944047
PADS-Pad1-Squealer	4.944047
Pad2	9.888093
PADS-Pad2-Pad Breaking Pressue	4.944047
PADS-Pad2-Squealer	4.944047
Rotor	2.320563
Rotor-Speed in - braking force out	1.160281
Rotor-Wheel Speed	1.160281
Tone Ring	2.320468
Tone Ring	2.320468
LF Tire	50.000000
LF Tire-Air Containment	25.000000
LF Tire-Traction	25.000000
LF Wheel	0.100000
LF Wheel	0.100000
LR Disc Assy	34.250000
ABS Speed Sensor	2.953323
Speed Sensor	1.476661
ABS Speed Sensor-Speed Sensor-SS+	0.738331
ABS Speed Sensor-Speed Sensor-SS-	0.738331
SS Cable	1.476661
ABS Speed Sensor-SS Cable	1.476661
Brake Valves	0.529685
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Caliper	1.476692

Caliper Piston Pressure	1.476692
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Caliper Assy-Piston 1-Piston Fluid	1.218271
Caliper Assy-Piston 1-Pressure	1.218271
Piston 2	2.436541
Caliper Assy-Piston 2-Piston Fluid	1.218271
Caliper Assy-Piston 2-Pressure	1.218271
PADS	19.776187
Pad1	9.888093
PADS-Pad1-Pad Breaking Pressue	4.944047
PADS-Pad1-Squealer	4.944047
Pad2	9.888093
PADS-Pad2-Pad Breaking Pressue	4.944047
PADS-Pad2-Squealer	4.944047
Rotor	2.320563
Rotor-Speed in - braking force out	1.160281
Rotor-Wheel Speed	1.160281
Tone Ring	2.320468
Tone Ring	2.320468
LR Tire	50.000000
LR Tire-Air Containment	25.000000
LR Tire-Traction	25.000000
LR Wheel	0.100000
LR Wheel	0.100000
Master Cylinder	15.844044
Master Cylinder-Front Cylinder Fluid	3.168809
Master Cylinder-Front Cylinder Intake	3.168809
Master Cylinder-Pedal Pressure to MC	3.168809
Master Cylinder-Rear Cylinder Fluid	3.168809
Master Cylinder-Rear Cylinder Intake	3.168809
Pump Relay	21.411843
Pump Relay	7.500000
Pump Relay-14_PUMP MOTOR CNTL	3.750000
Pump Relay-Pump Relay contact driver	3.750000
Pump Relay Contact	13.911843
Pump Relay Off	6.955922
Pump Relay On	6.955922
R Brake Bulb	87.751628
R Brake Bulb	87.751628
R Pump PS	0.100000
R Pump PS	0.100000
Rear Accumulator	0.020000
Rear Accumulator	0.020000
Rear Damper Chamber	5.700000
Rear Damper Chamber	5.700000
Rear Pump	20.013529
Rear Pump-Load	10.006765
RPUMP OUT: R Pump	10.006765
Reservior	5.700000
Reservior-Front Brake Fluid	1.425000
Reservior-Front Cylinder Intake	1.425000
Reservior-Rear Brake Fluid	1.425000
Reservior-Rear Cylinder Intake	1.425000
RF Disc Assy	34.250000
ABS Speed Sensor	2.953323
Speed Sensor	1.476661

ABS Speed Sensor-Speed Sensor-SS+	0.738331
ABS Speed Sensor-Speed Sensor-SS-	0.738331
SS Cable	1.476661
ABS Speed Sensor-SS Cable	1.476661
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Brake Valves-Inlet Valve-Pressure Hold	0.066211
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Caliper Assy-Piston 1-Piston Fluid	1.218271
Caliper Assy-Piston 1-Pressure	1.218271
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Caliper Assy-Piston 2-Piston Fluid	1.218271
Caliper Assy-Piston 2-Pressure	1.218271
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Pad1	9.888093
PADS-Pad1-Pad Breaking Pressue	4.944047
PADS-Pad1-Squealer	4.944047
Pad2	9.888093
PADS-Pad2-Pad Breaking Pressue	4.944047
PADS-Pad2-Squealer	4.944047
Rotor	2.320563
Rotor-Speed in - braking force out	1.160281
Rotor-Wheel Speed	1.160281
Tone Ring	2.320468
Tone Ring	2.320468
RF Tire	50.000000
RF Tire-Air Containment	25.000000
RF Tire-Traction	25.000000
RF Wheel	0.100000
RF Wheel	0.100000
RR Disc Assy	34.250000
ABS Speed Sensor	2.953323
Speed Sensor	1.476661
ABS Speed Sensor-Speed Sensor-SS+	0.738331
ABS Speed Sensor-Speed Sensor-SS-	0.738331
SS Cable	1.476661
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PADS-Pad1-Squealer	4.944047
Pad2	9.888093
PADS-Pad2-Pad Breaking Pressue	4.944047
PADS-Pad2-Squealer	4.944047
Rotor	2.320563
Rotor-Speed in - braking force out	1.160281
Rotor-Wheel Speed	1.160281
Tone Ring	2.320468
Tone Ring	2.320468
RR Line	38.027272
RR Line	38.027272
RR Tire	50.000000
RR Tire-Air Containment	25.000000
RR Tire-Traction	25.000000
RR Wheel	0.100000
RR Wheel	0.100000
RS Line	38.027272
RS Line	38.027272
RW Brake Bulb	87.751628
RW Brake Bulb	87.751628
SENS CONN 1A	0.000100
SENS CONN 1A-LF SS1	0.000050
SENS CONN 1A-LR SS1	0.000050
SENS CONN 2A	0.000100
SENS CONN 2A-RF SS1	0.000050
SENS CONN 2A-RR SS1	0.000050
Solenoid Relay	33.559351
Solenoid Relay Coil	16.532915
Solenoid Relay-Solenoid Relay Coil-EMF	8.266458
Solenoid Relay-Solenoid Relay Coil-HI	8.266458
Solenoid Relay Contacts	17.026435
Solenoid Relay contact ATCM	8.513218
Solenoid Relay contact GND	8.513218