



AIR SYSTEM SCHEMATICS:

DESCRIPTION DWG. NO. REV.

(EFFECTIVE W/ #61610 Thru 62221)

AIR SYSTEM (BASIC), E-COACH	04-20-1002	Rev. E
AIR SYSTEM (CONVERSION), E-COACH	04-20-1002	Rev. E
AIR SYSTEM (OPTIONS), E-COACH	04-20-1002	Rev. E
AIR SYSTEM, J-COACH	04-20-1192	Rev. A

(EFFECTIVE W/ #62049)

AIR SYSTEM (BASIC), J-COACH	04-20-1161	Rev. E
AIR SYSTEM (OPTIONS), J-COACH	04-20-1161	Rev. E

(EFFECTIVE W/ #62222 Thru 62805)

AIR SYSTEM (BASIC), E-COACH	04-20-1002	Rev. F
AIR SYSTEM (CONVERSION), E-COACH	04-20-1002	Rev. F
AIR SYSTEM (OPTIONS), E-COACH	04-20-1002	Rev. F
AIR SYSTEM, J-COACH	04-20-1192	Rev. B

DESCRIPTION DWG. NO. REV.

(EFFECTIVE W/ #62806)

AIR SYSTEM (BASIC), E-COACH	04-20-1002	Rev. G
AIR SYSTEM (CONVERSION), E-COACH	04-20-1002	Rev. G
AIR SYSTEM (OPTIONS), E-COACH	04-20-1002	Rev. G
AIR SYSTEM, J-COACH	04-20-1192	Rev. D
AIR SYSTEM, J-COACH (BASIC)	04-20-1228	Rev. A
AIR SYSTEM, J-COACH (OPTIONS)	04-20-1228	Rev. A

(EFFECTIVE W/ #63335)

AIR SYSTEM (CONVERSION), J-COACH	04-20-1320	Rev. B
AIR SYSTEM (CONVERSION W/OPTIONS), J-COACH ..	04-20-1320	Rev. B

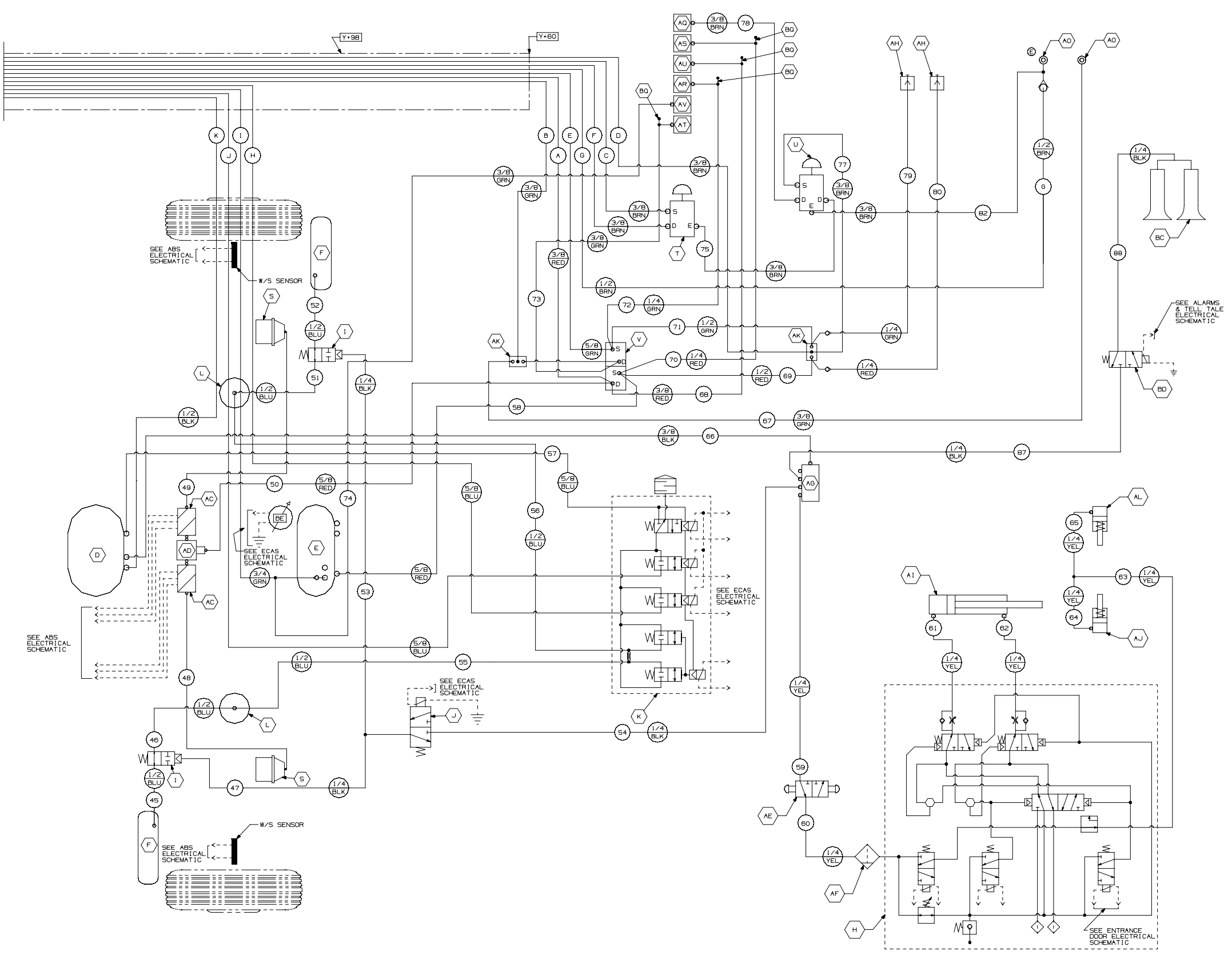
STEERING SYSTEM SCHEMATICS:

DESCRIPTION DWG. NO. REV.

(EFFECTIVE FROM UNIT #60001)

STEERING SYSTEM, E-COACH	11-07-1013	Rev. A
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CONTINUED
ON SHEET 2



ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	TANK-AUX SUSPENSION, FRONT
G	TANK-AUX SUSPENSION, REAR
H	MODULE-DOOR CONTROL
I	VALVE-AUX SUSPENSION
J	SOLENOID-AUX SUSPENSION
K	VALVE-ECAS
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-IP
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, EIS/EISR
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE-SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAV FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	ECAS SENSOR-FRONT
BF	ECAS SENSOR-REAR
BG	LEVELLING MANIFOLD, REAR
BH	LEVELLING MANIFOLD, FRONT
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BN	FILTER-OIL SEPARATOR
BP	COOLING COIL
BQ	TEST PORT
BR	FILTER

LEGEND

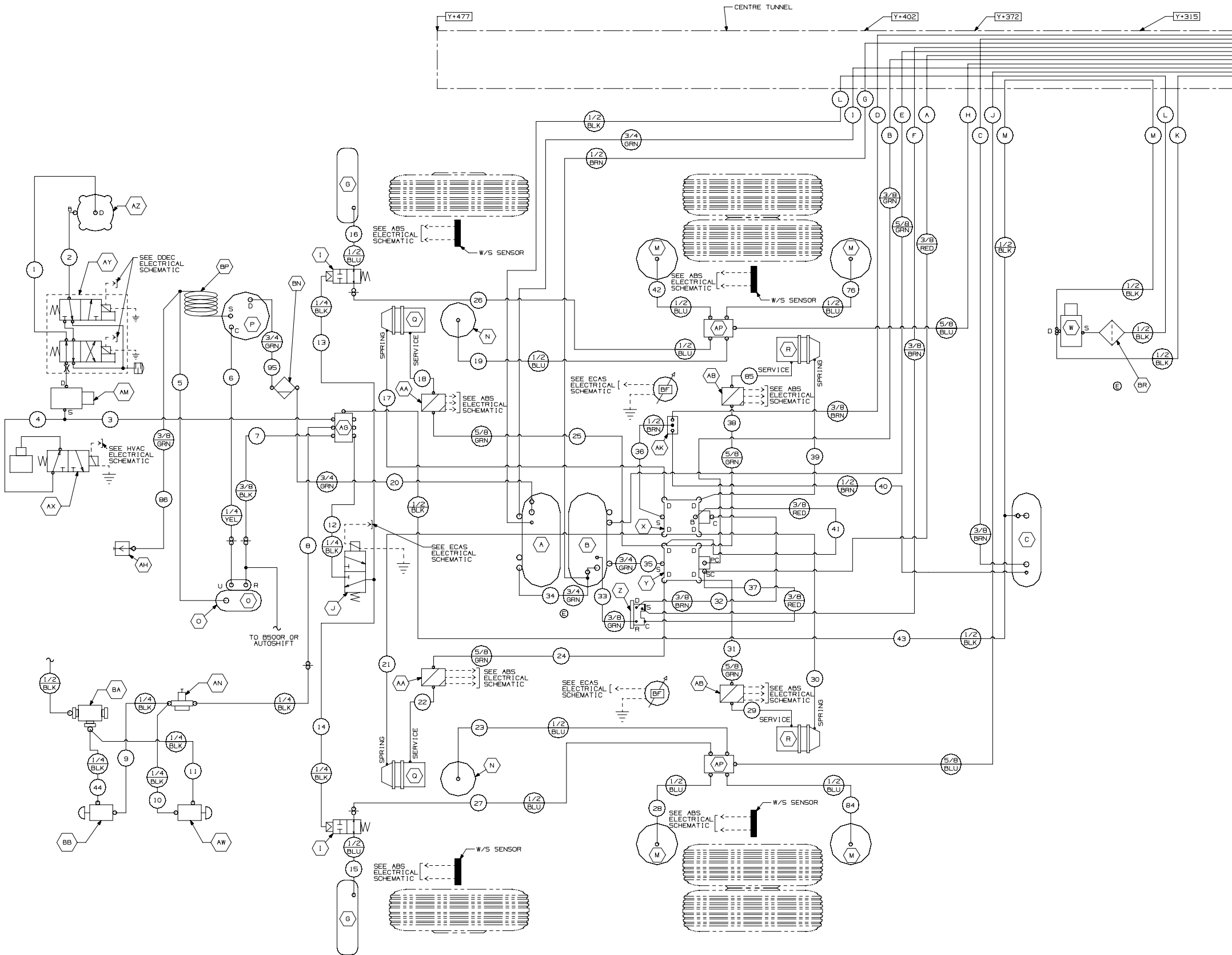
I DENOTES AIR LINE REFERENCE

A DENOTES COMPONENT REFERENCE

----- DENOTES ELECTRICAL LINE

----- DENOTES PNEUMATIC LINE

AIR SYSTEM (BASIC)
04-20-1002 (REV E)
SHEET 10F 5
(EFFECTIVE W/ #60001 THRU #62221)



CONTINUED
ON SHEET 1

ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	TANK-AUX SUSPENSION, FRONT
G	TANK-AUX SUSPENSION, REAR
H	MODULE-DOOR CONTROL
I	VALVE-AUX SUSPENSION
J	SOLENOID-AUX SUSPENSION
K	VALVE-ECAS
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E15R
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE-SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAV FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	ECAS SENSOR-FRONT
BF	ECAS SENSOR-REAR
BG	LEVELLING MANIFOLD, REAR
BH	LEVELLING MANIFOLD, FRONT
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BN	FILTER-OIL SEPARATOR
BP	COOLING COIL
BQ	TEST PORT
BR	FILTER

LEGEND
1 DENOTES AIR LINE REFERENCE
A DENOTES COMPONENT REFERENCE
- - - - - DENOTES ELECTRICAL LINE
— DENOTES PNEUMATIC LINE

AIR SYSTEM (BASIC)
04-20-1002 (REV E)
SHEET 2 OF 5
(EFFECTIVE W/ #60001 THRU #62221)

ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	TANK-AUX SUSPENSION, FRONT
G	TANK-AUX SUSPENSION, REAR
H	MODULE-DOOR CONTROL
I	VALVE-AUX SUSPENSION
J	SOLENOID-AUX SUSPENSION
K	VALVE-ECAS
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E1S/E1SR
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE- SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-ENGINE BAY
BB	FLUSH VALVE -ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	ECAS SENSOR-FRONT
BF	ECAS SENSOR-REAR
BG	LEVELING MANIFOLD,REAR
BH	LEVELING MANIFOLD,FRONT
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BN	FILTER-OIL SEPARATOR
BP	COOLING COIL
BO	TEST PORT
BR	FILTER

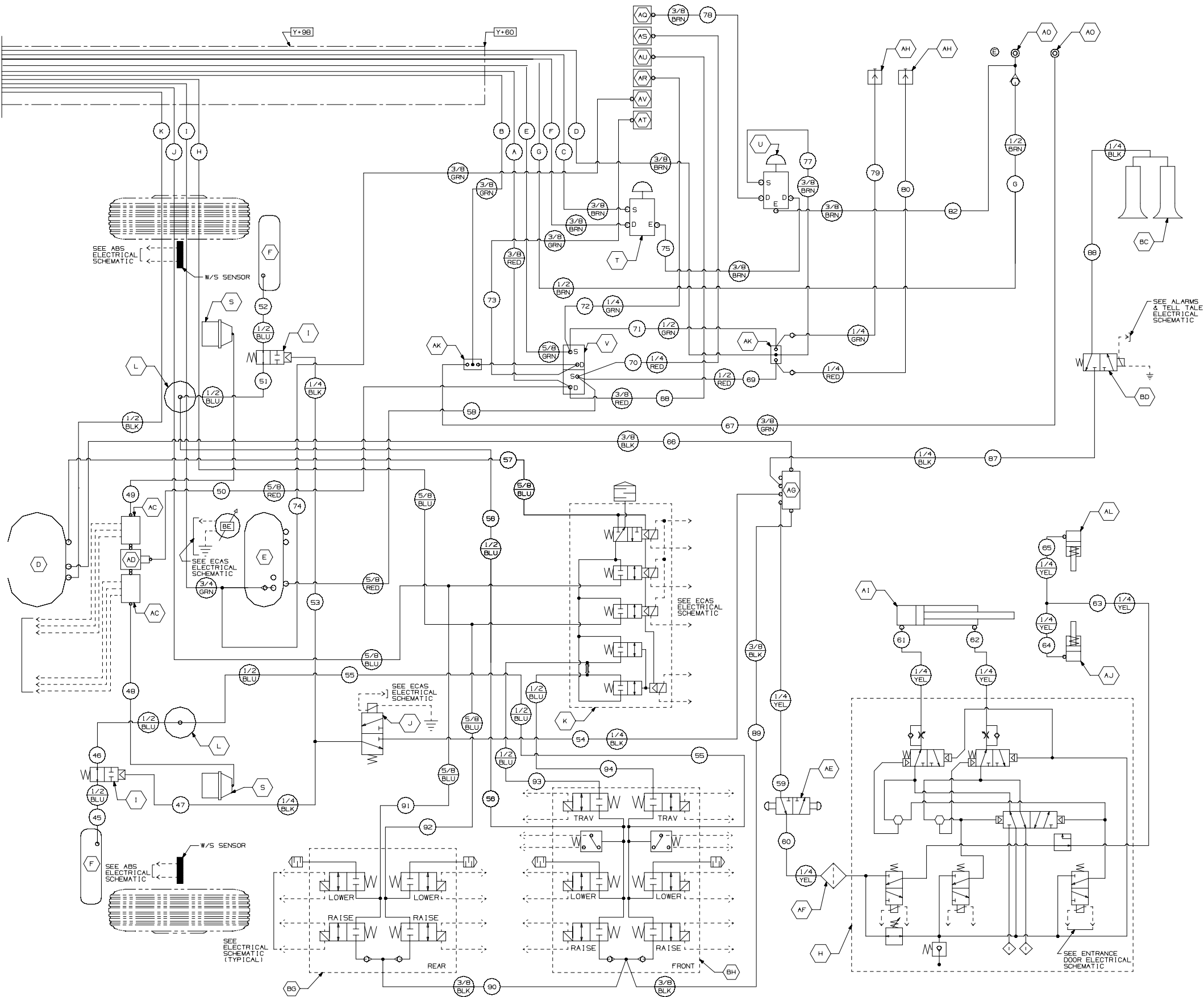
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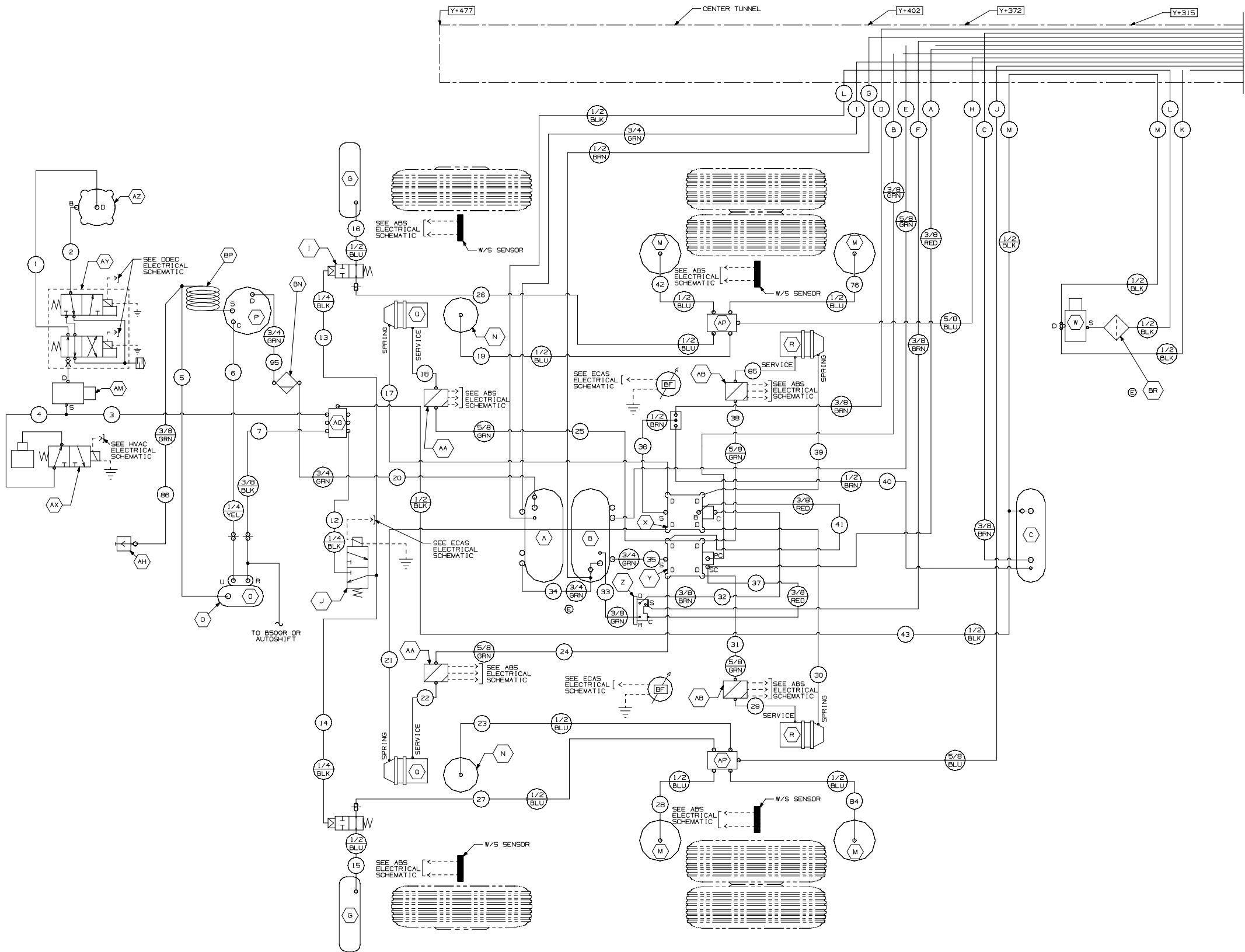
LEGEND

- (1) DENOTES AIR LINE REFERENCE
(A) DENOTES COMPONENT REFERENCE
- - - - - DENOTES ELECTRICAL LINE
— DENOTES PNEUMATIC LINE

AIR SYSTEM (CONVERSION)
04-20-1002 (REV E)
SHEET 3 OF 5
(EFFECTIVE W/ #60001 THRU #62221)

CONTINUED
ON SHEET 4





CONTINUED
ON SHEET 3

ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	TANK-AUX SUSPENSION, FRONT
G	TANK-AUX SUSPENSION, REAR
H	MODULE-DOOR CONTROL
I	VALVE-AUX SUSPENSION
J	SOLENOID-AUX SUSPENSION
K	VALVE-ECAS
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E1S/E1SR
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE- SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AJ	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AO	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-ENGINE BAY
BB	FLUSH VALVE -ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	ECAS SENSOR-FRONT
BF	ECAS SENSOR-REAR
BG	LEVELING MANIFOLD,REAR
BH	LEVELING MANIFOLD,FRONT
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BN	FILTER-OIL SEPARATOR
BP	COOLING COIL
BO	TEST PORT
BR	FILTER

04-20-1002

LEGEND

- 1 DENOTES AIR LINE REFERENCE
- A DENOTES COMPONENT REFERENCE
- DENOTES ELECTRICAL LINE
- DENOTES PNEUMATIC LINE

AIR SYSTEM (CONVERSION)
04-20-1002 (REV E)
SHEET 4 OF 5
(EFFECTIVE W/ #60001 THRU #62221)

LEGEND

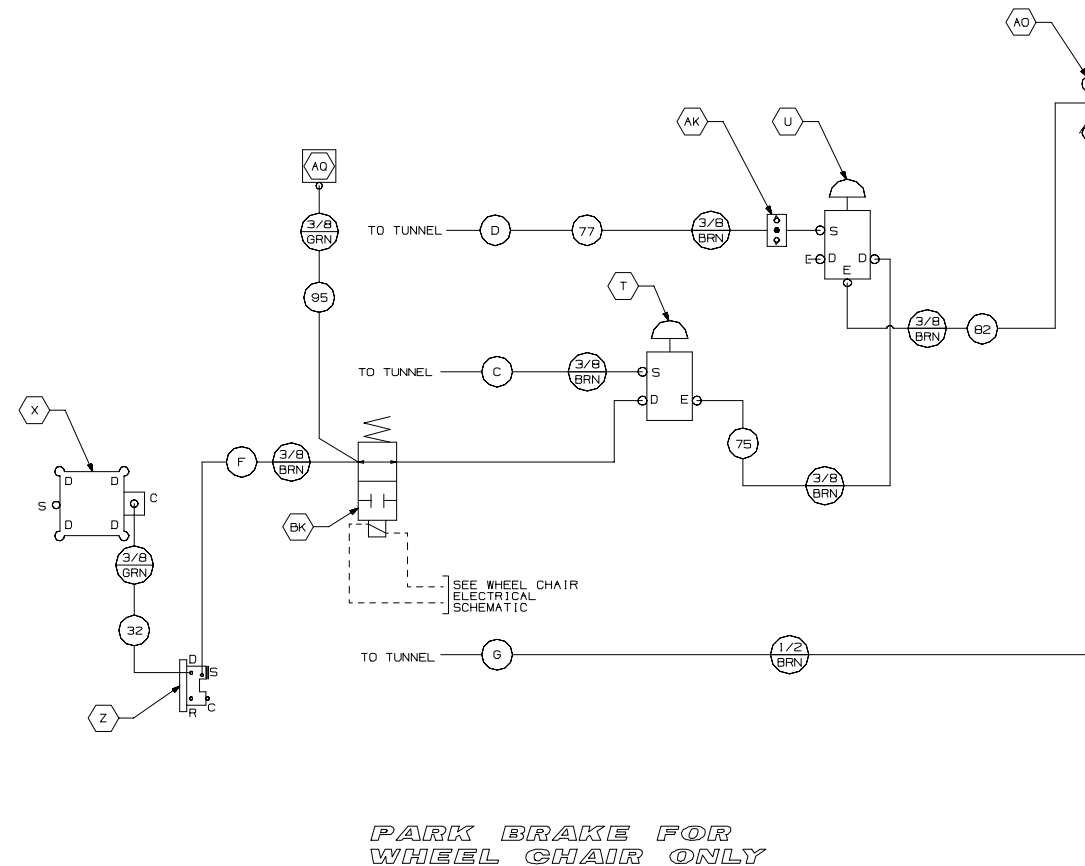
① DENOTES AIR LINE REFERENCE

⬡ DENOTES COMPONENT REFERENCE

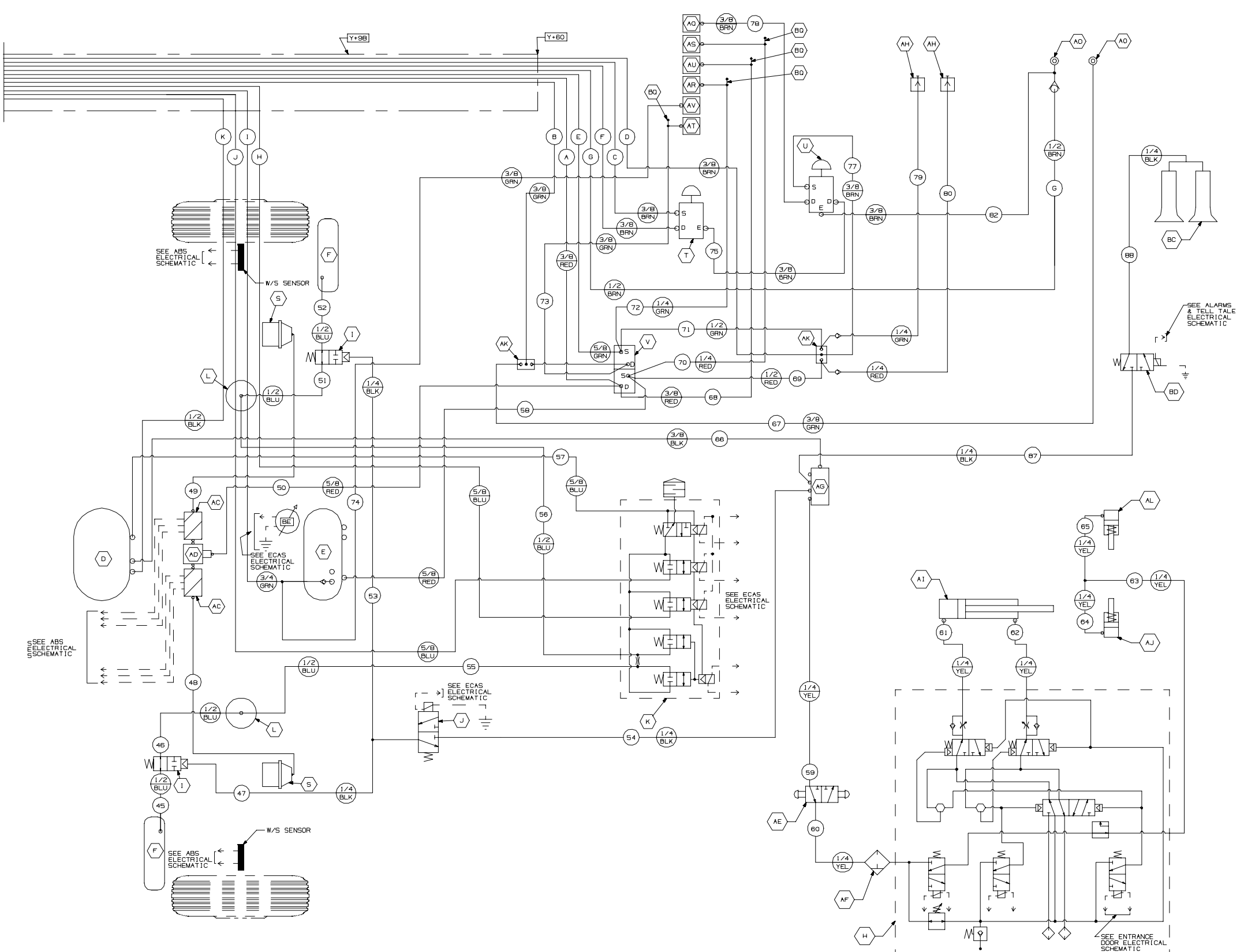
----- DENOTES ELECTRICAL LINE

———— DENOTES PNEUMATIC LINE

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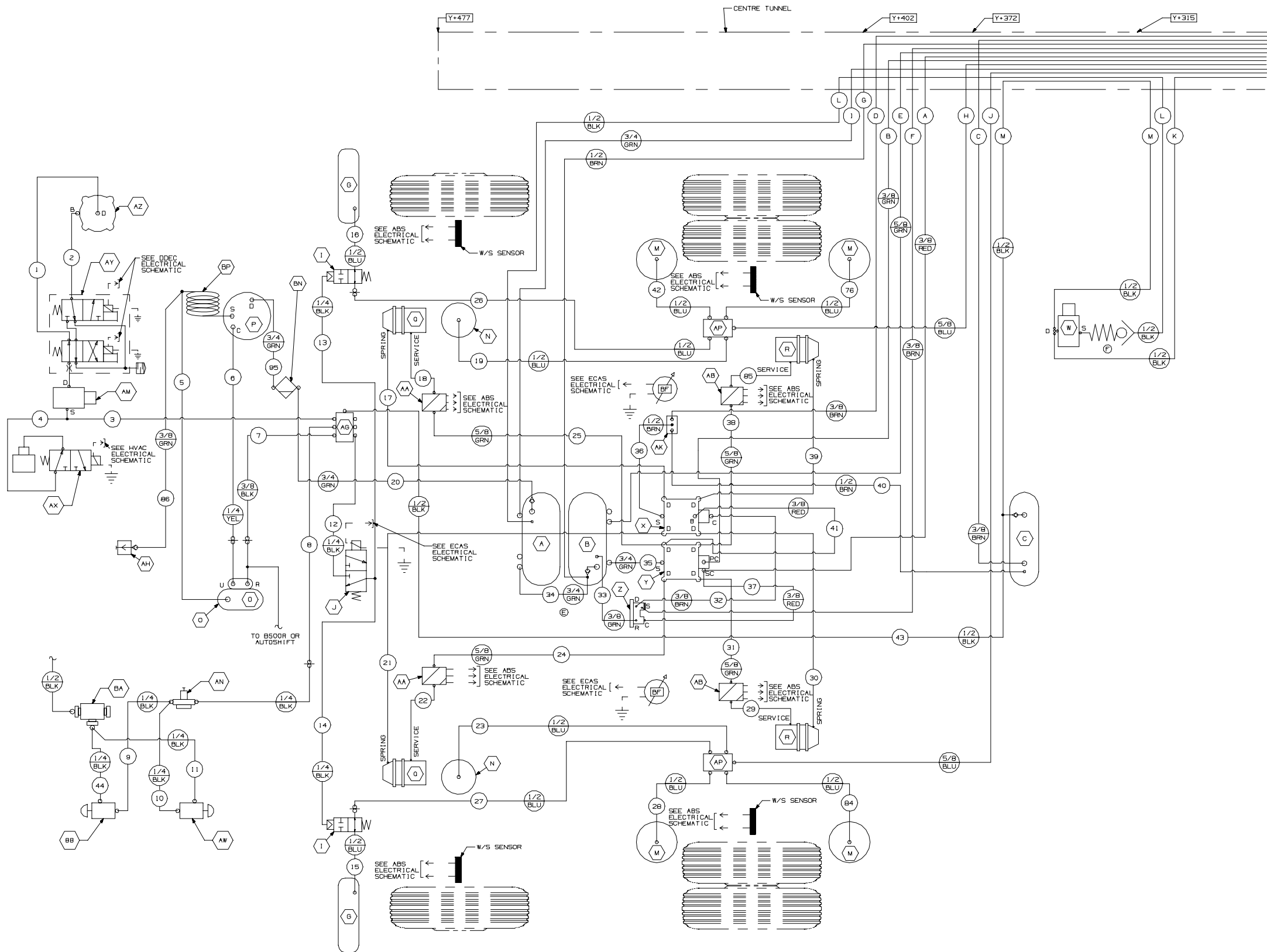
CONTINUED
ON SHEET 2



ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	TANK-AUX SUSPENSION, FRONT
G	TANK-AUX SUSPENSION, REAR
H	MODULE-DOOR CONTROL
I	VALVE-AUX SUSPENSION
J	SOLENOID-AUX SUSPENSION
K	VALVE-ECAS
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E15R
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELEASE, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE- SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAV FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	ECAS SENSOR-FRONT
BF	ECAS SENSOR-REAR
BG	LEVELLING MANIFOLD, REAR
BH	LEVELLING MANIFOLD, FRONT
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BN	FILTER-OIL SEPARATOR
BP	COOLING COIL
BQ	TEST PORT
BR	FILTER

LEGEND
I DENOTES AIR LINE REFERENCE
A DENOTES COMPONENT REFERENCE
---- DENOTES ELECTRICAL LINE
— DENOTES PNEUMATIC LINE

AIR SYSTEM (BASIC)
04-20-1002 (REV F)
SHEET 1 OF 5
(EFFECTIVE W/ #62222 THRU #62805)



CONTINUED
ON SHEET 1

ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
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AF	FILTER-ACCESSORY
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BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
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BF	ECAS SENSOR-REAR
BG	LEVELLING MANIFOLD, REAR
BH	LEVELLING MANIFOLD, FRONT
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BN	FILTER-OIL SEPARATOR
BP	COOLING COIL
BQ	TEST PORT
BR	FILTER

LEGEND
I DENOTES AIR LINE REFERENCE
A DENOTES COMPONENT REFERENCE
----- DENOTES ELECTRICAL LINE
----- DENOTES PNEUMATIC LINE

AIR SYSTEM (BASIC)
04-20-1002 (REV F)
SHEET 2 OF 5
(EFFECTIVE W/ #62222 THRU #62805)

04-20-1002

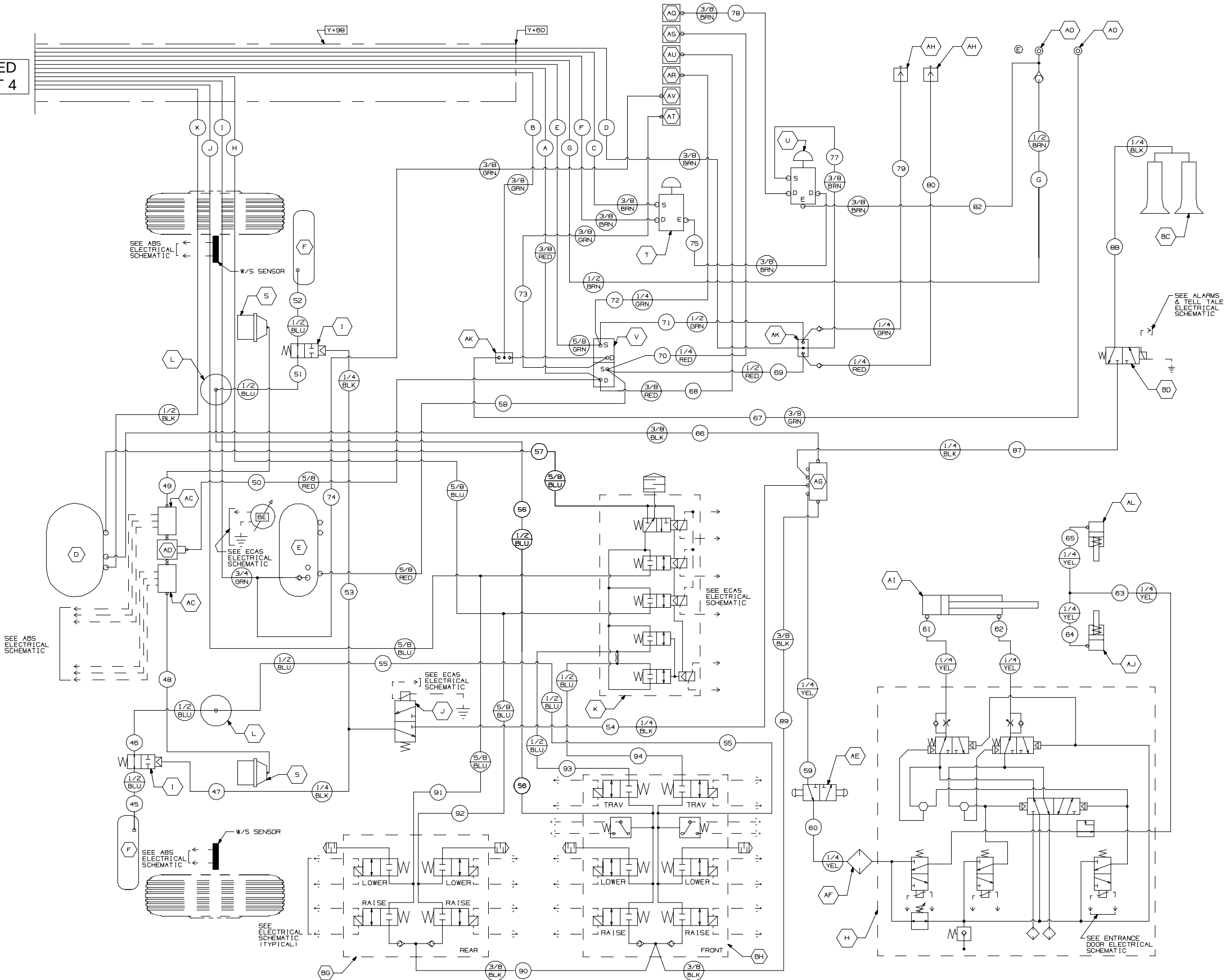
ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	TANK-AUX SUSPENSION, FRONT
G	TANK-AUX SUSPENSION, REAR
H	MODULE-DOOR CONTROL
I	VALVE-AUX SUSPENSION
J	SOLENOID-AUX SUSPENSION
K	VALVE-ECAS
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E15R
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
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AA	ABS MODULATOR-TAG
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AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
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AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-ENGINE BAY
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	ECAS SENSOR-FRONT
BF	ECAS SENSOR-REAR
BG	LEVELING MANIFOLD,REAR
BH	LEVELING MANIFOLD,FRONT
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BN	FILTER-OIL SEPARATOR
BP	COOLING COIL
BQ	TEST PORT
BR	FILTER

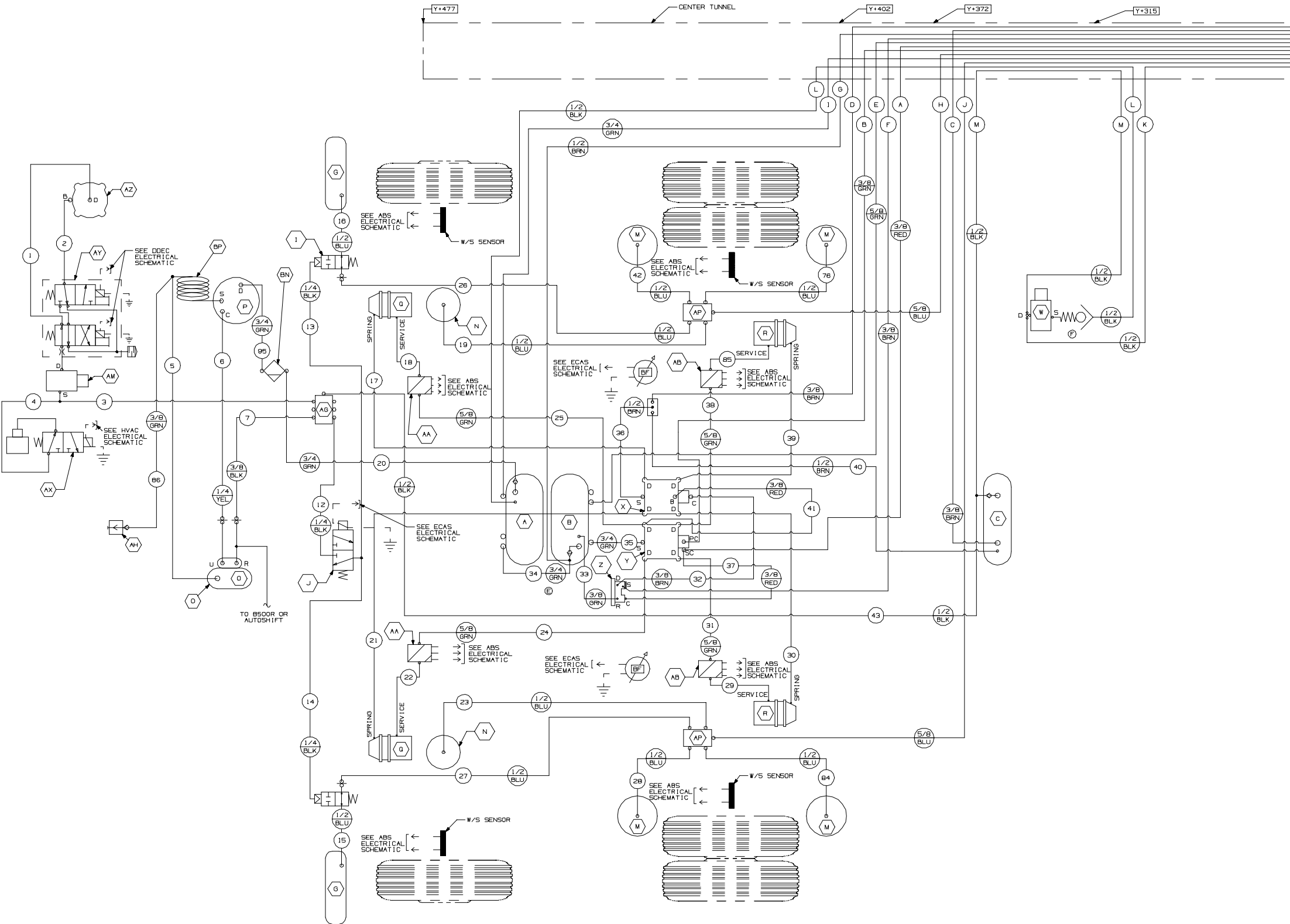
LEGEND

- (1) DENOTES AIR LINE REFERENCE
(A) DENOTES COMPONENT REFERENCE
- - - - - DENOTES ELECTRICAL LINE
————— DENOTES PNEUMATIC LINE

AIR SYSTEM (CONVERSION)
04-20-1002 (REV F)
SHEET 3 OF 5
(EFFECTIVE W/ #62222 THRU #62805)

CONTINUED
ON SHEET 4





CONTINUED
ON SHEET 3

ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	TANK-AUX SUSPENSION, FRONT
G	TANK-AUX SUSPENSION, REAR
H	MODULE-DOOR CONTROL
I	VALVE-AUX SUSPENSION
J	SOLENOID-AUX SUSPENSION
K	VALVE-ECAS
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E15R
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE-SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-ENGINE BAY
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	ECAS SENSOR-FRONT
BF	ECAS SENSOR-REAR
BG	LEVELING MANIFOLD,REAR
BH	LEVELING MANIFOLD,FRONT
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BN	FILTER-OIL SEPARATOR
BP	COOLING COIL
BO	TEST PORT
BR	FILTER

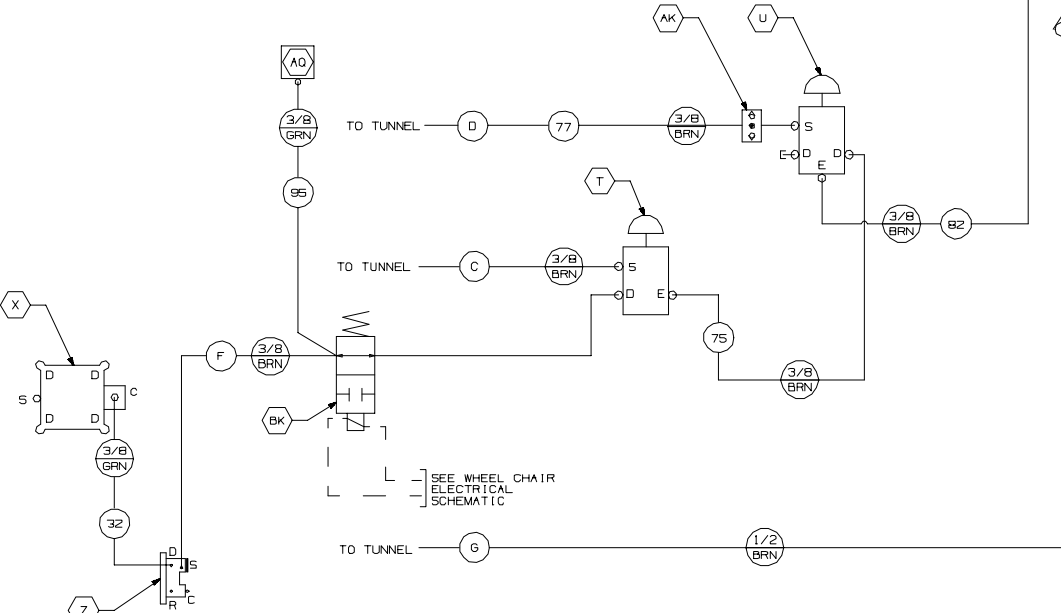
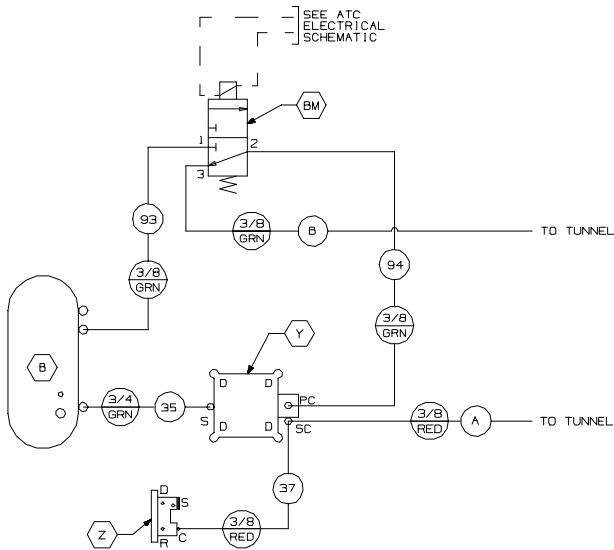
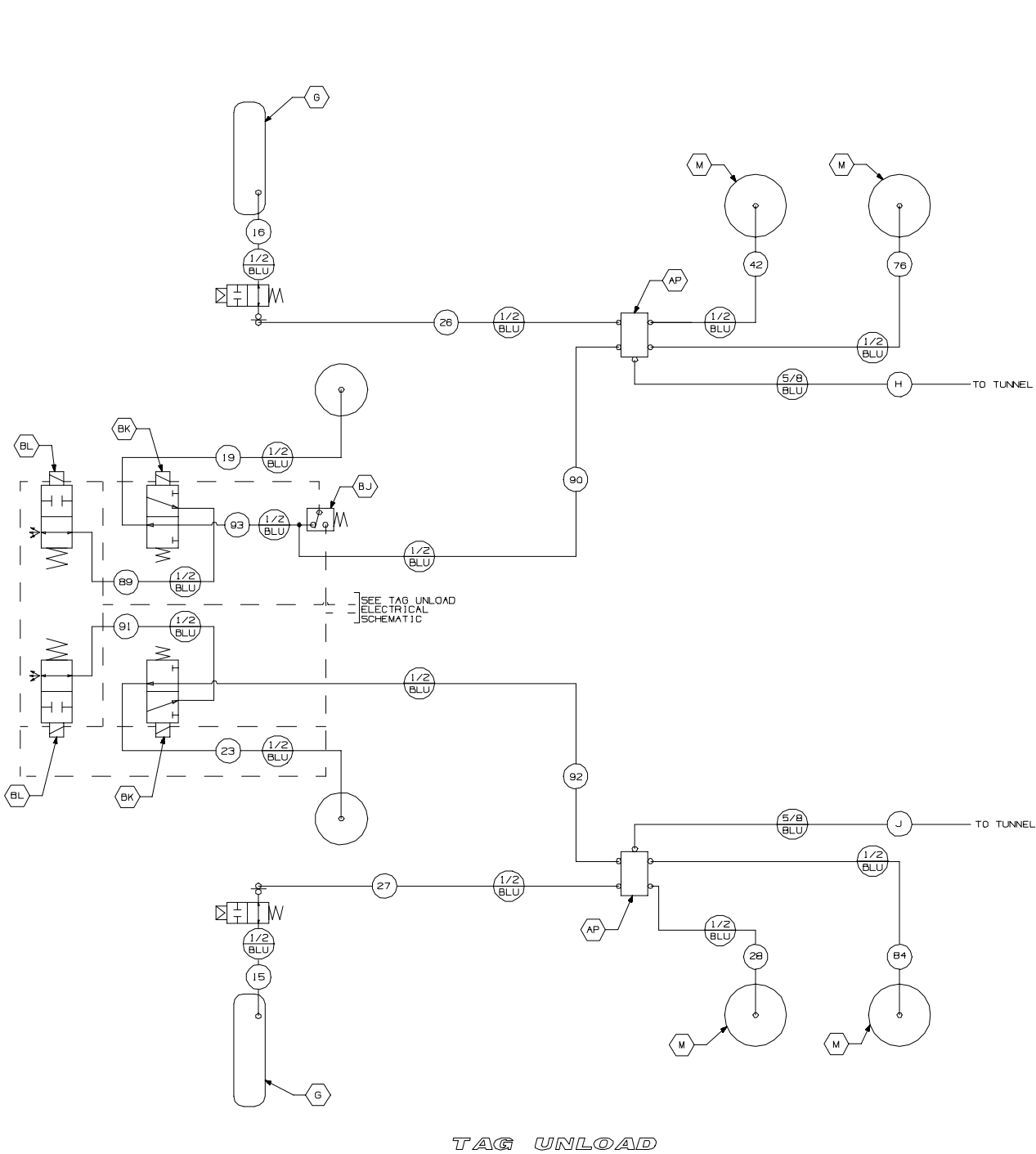
LEGEND
1 DENOTES AIR LINE REFERENCE
A DENOTES COMPONENT REFERENCE
--- DENOTES ELECTRICAL LINE
--- DENOTES PNEUMATIC LINE

AIR SYSTEM (CONVERSION)
04-20-1002 (REV F)
SHEET 4 OF 5
(EFFECTIVE W/ #62222 THRU #62805)

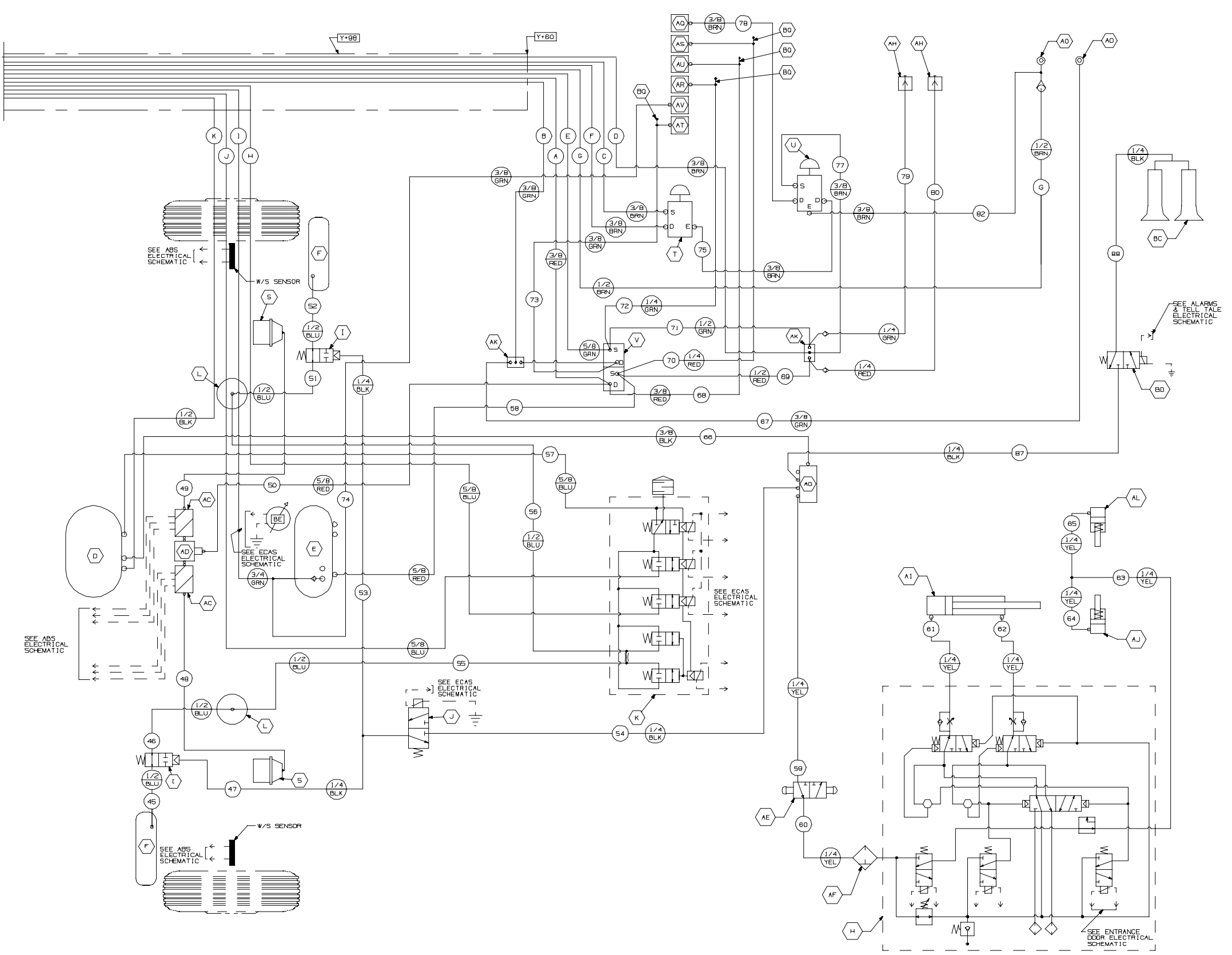
ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	TANK-AUX SUSPENSION, FRONT
G	TANK-AUX SUSPENSION, REAR
H	MODULE-DOOR CONTROL
I	VALVE-AUX SUSPENSION
J	SOLENOID-AUX SUSPENSION
K	VALVE-ECAS
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E15R
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE- SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAV FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	ECAS SENSOR-FRONT
BF	ECAS SENSOR-REAR
BG	LEVELLING MANIFOLD, REAR
BH	LEVELLING MANIFOLD, FRONT
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BN	FILTER-OIL SEPARATER
BP	COOLING COIL
BQ	TEST PORT

- LEGEND
- 1 DENOTES AIR LINE REFERENCE
 - A DENOTES COMPONENT REFERENCE
 - DENOTES ELECTRICAL LINE
 - DENOTES PNEUMATIC LINE

AIR SYSTEM (OPTIONS)
04-20-1002 (REV F)
SHEET 5 OF 5
(EFFECTIVE W/ #62222 THRU #62805)



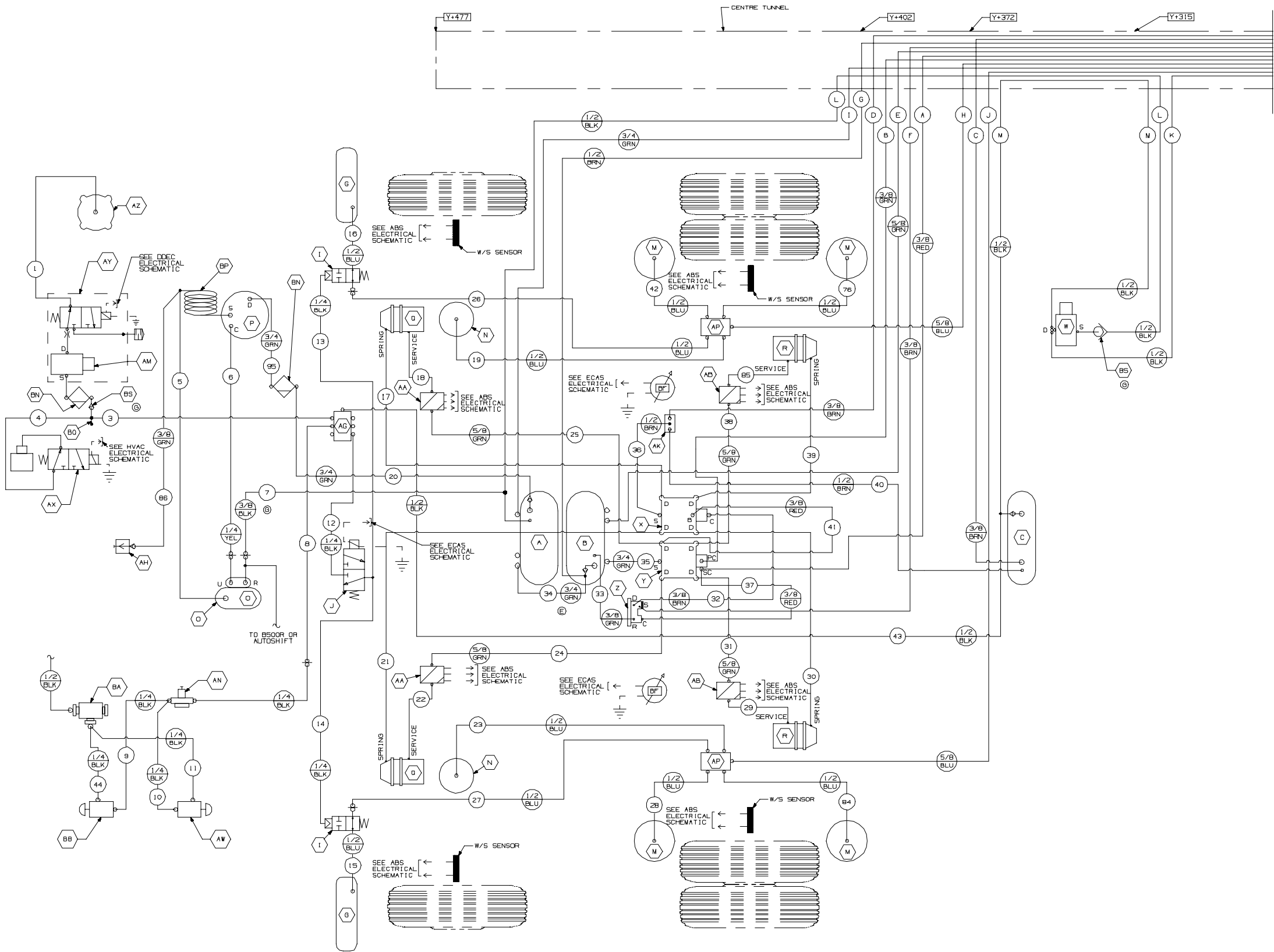
CONTINUED
ON SHEET 2



ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	TANK-AUX SUSPENSION, FRONT
G	TANK-AUX SUSPENSION, REAR
H	MODULE-DOOR CONTROL
I	VALVE-AUX SUSPENSION
J	SOLENOID-AUX SUSPENSION
K	VALVE-ECAS
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E15R
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-120C
Z	VALVE- SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAV FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	ECAS SENSOR-FRONT
BF	ECAS SENSOR-REAR
BG	LEVELLING MANIFOLD, REAR
BH	LEVELLING MANIFOLD, FRONT
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BN	FILTER-OIL SEPARATOR
BP	COOLING COIL
BQ	TEST PORT
BR	FILTER
BS	CHECK VALVE

LEGEND
I DENOTES AIR LINE REFERENCE
A DENOTES COMPONENT REFERENCE
--- DENOTES ELECTRICAL LINE
— DENOTES PNEUMATIC LINE

AIR SYSTEM (BASIC)
04-20-1002 (REV G)
SHEET 1 OF 5
(EFFECTIVE W/ #62806)



CONTINUED
ON SHEET 1

ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	TANK-AUX SUSPENSION, FRONT
G	TANK-AUX SUSPENSION, REAR
H	MODULE-DOOR CONTROL
I	VALVE-AUX SUSPENSION
J	SOLENOID-AUX SUSPENSION
K	VALVE-ECAS
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E1S/E1SR
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE- SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AO	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAV FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	ECAS SENSOR-FRONT
BF	ECAS SENSOR-REAR
BG	LEVELLING MANIFOLD, REAR
BH	LEVELLING MANIFOLD, FRONT
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BN	FILTER-OIL SEPARATOR
BP	COOLING COIL
BQ	TEST PORT
BR	FILTER
BS	CHECK VALVE

LEGEND
I DENOTES AIR LINE REFERENCE
A DENOTES COMPONENT REFERENCE
— DENOTES ELECTRICAL LINE
— DENOTES PNEUMATIC LINE

AIR SYSTEM (BASIC)
04-20-1002 (REV G)
SHEET 2 OF 5
(EFFECTIVE W/ #62806)

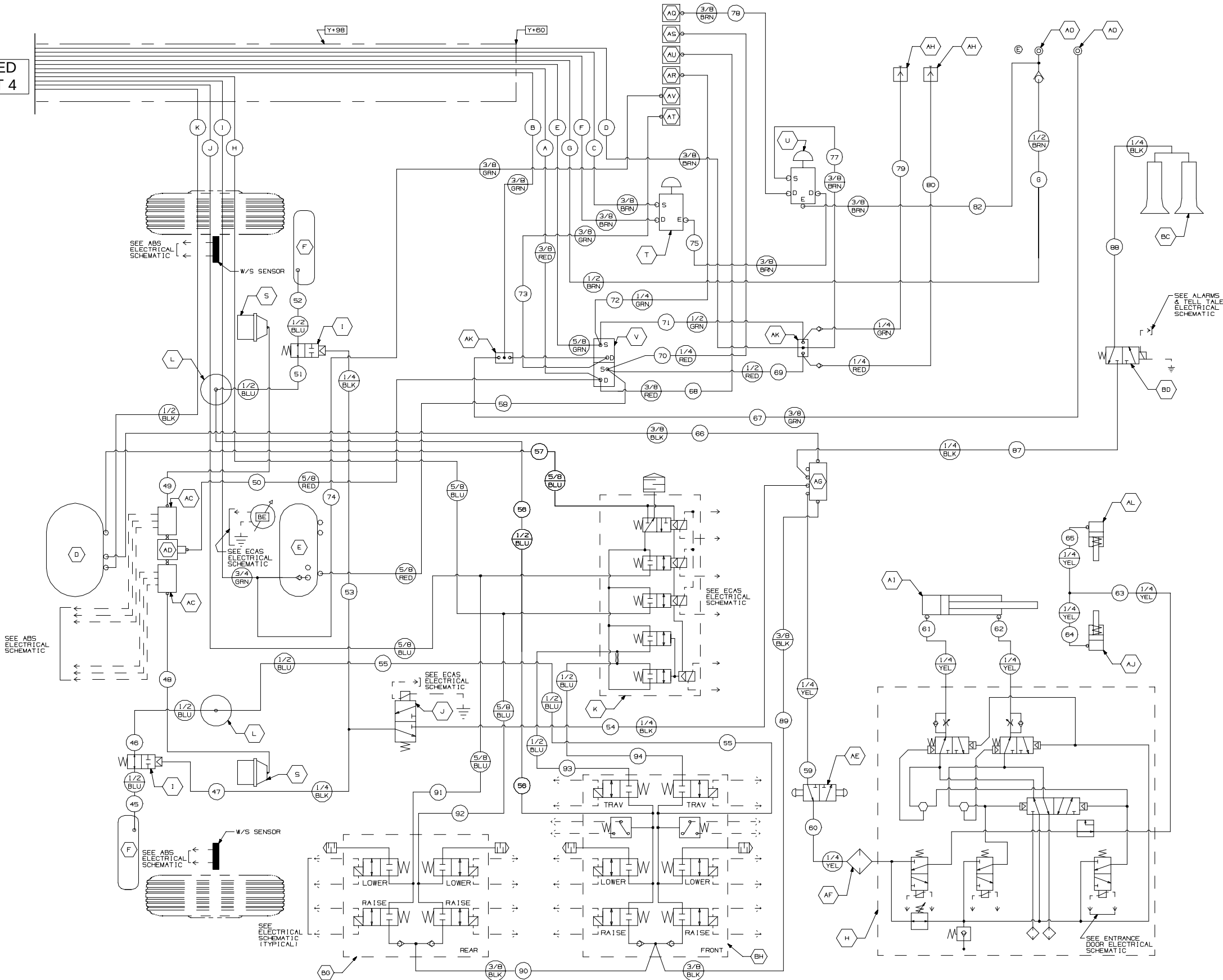
ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	TANK-AUX SUSPENSION, FRONT
G	TANK-AUX SUSPENSION, REAR
H	MODULE-DOOR CONTROL
I	VALVE-AUX SUSPENSION
J	SOLENOID-AUX SUSPENSION
K	VALVE-ECAS
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E1SR
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PS
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE- SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PS
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAV FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	ECAS SENSOR-FRONT
BF	ECAS SENSOR-REAR
BG	LEVELLING MANIFOLD, REAR
BH	LEVELLING MANIFOLD, FRONT
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BN	FILTER-OIL SEPARATOR
BP	COOLING COIL
BO	TEST PORT
BR	FILTER
BS	CHECK VALVE

LEGEND

- 1 DENOTES AIR LINE REFERENCE
- A DENOTES COMPONENT REFERENCE
- DENOTES ELECTRICAL LINE
- DENOTES PNEUMATIC LINE

AIR SYSTEM (CONVERSION)
04-20-1002 (REV G)
SHEET 3 OF 5
(EFFECTIVE W/ #62806)

CONTINUED
ON SHEET 4



CONTINUED
ON SHEET 3

ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	TANK-AUX SUSPENSION, FRONT
G	TANK-AUX SUSPENSION, REAR
H	MODULE-DOOR CONTROL
I	VALVE-AUX SUSPENSION
J	SOLENOID-AUX SUSPENSION
K	VALVE-ECAS
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E1SR
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PS
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE- SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PS
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
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AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAV FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	ECAS SENSOR-FRONT
BF	ECAS SENSOR-REAR
BG	LEVELLING MANIFOLD, REAR
BH	LEVELLING MANIFOLD, FRONT
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BW	VALVE-ATC
BN	FILTER-OIL SEPARATOR
BP	COOLING COIL
BO	TEST PORT
BR	FILTER
BS	CHECK VALVE

LEGEND

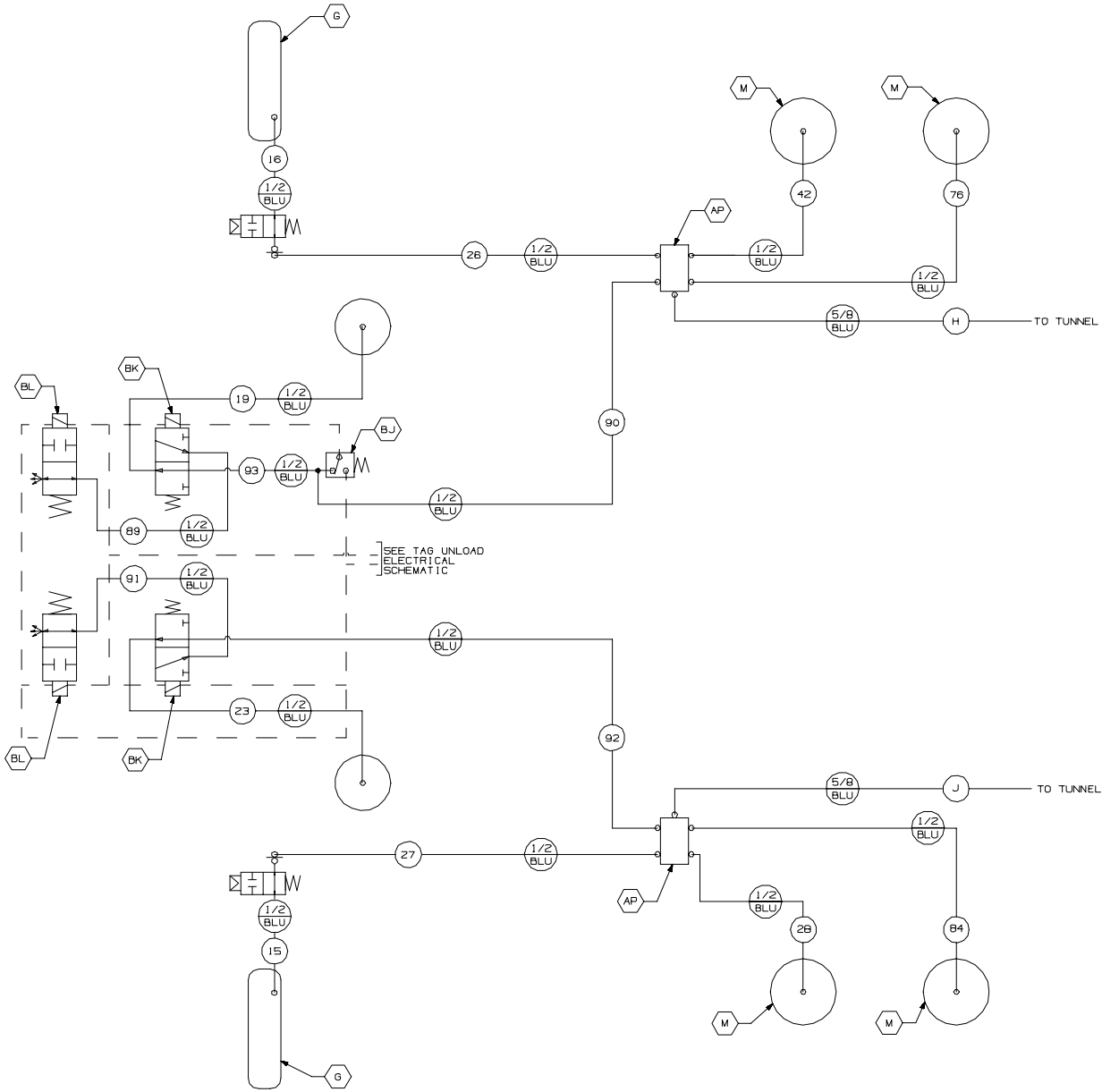
- 1 DENOTES AIR LINE REFERENCE
A DENOTES COMPONENT REFERENCE
- - - - DENOTES ELECTRICAL LINE
— DENOTES PNEUMATIC LINE

AIR SYSTEM (CONVERSION)
04-20-1002 (REV G)
SHEET 4 OF 5
(EFFECTIVE W/ #62806)

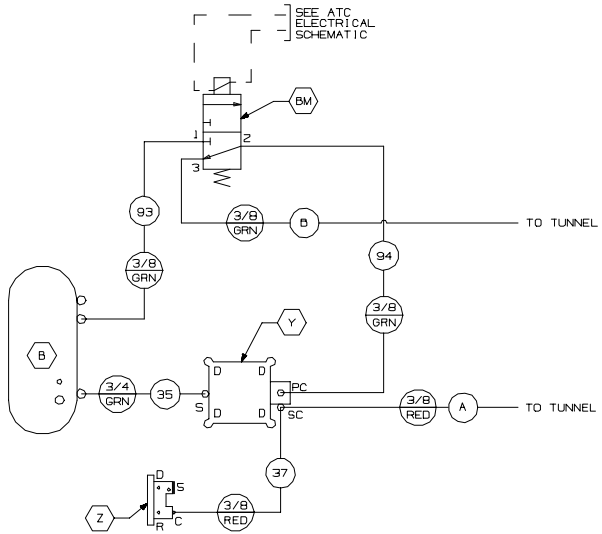
ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	TANK-AUX SUSPENSION, FRONT
G	TANK-AUX SUSPENSION, REAR
H	MODULE-DOOR CONTROL
I	VALVE-AUX SUSPENSION
J	SOLENOID-AUX SUSPENSION
K	VALVE-ECAS
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E15R
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE- SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAV FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	ECAS SENSOR-FRONT
BF	ECAS SENSOR-REAR
BG	LEVELLING MANIFOLD, REAR
BH	LEVELLING MANIFOLD, FRONT
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BN	FILTER-OIL SEPARATOR
BP	COOLING COIL
BQ	TEST PORT
BR	FILTER
BS	CHECK VALVE

- LEGEND
- 1 DENOTES AIR LINE REFERENCE
 - A DENOTES COMPONENT REFERENCE
 - DENOTES ELECTRICAL LINE
 - DENOTES PNEUMATIC LINE

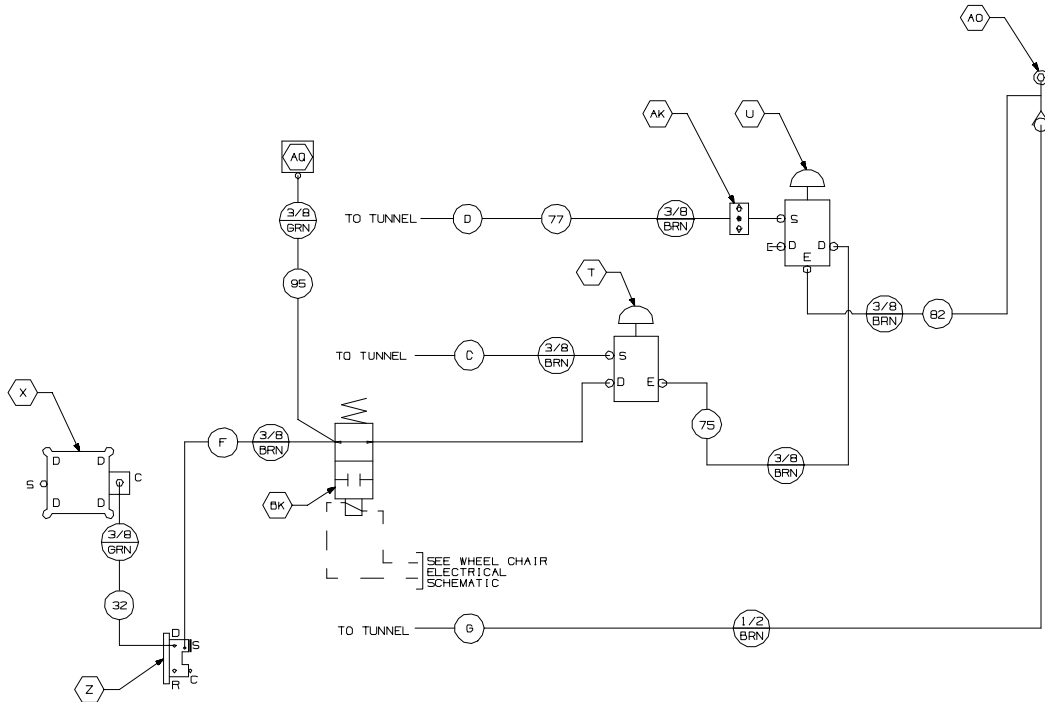
AIR SYSTEM (OPTIONS)
04-20-1002 (REV G)
SHEET 5 OF 5
(EFFECTIVE W/ #62806)



TAG UNLOAD



ATC

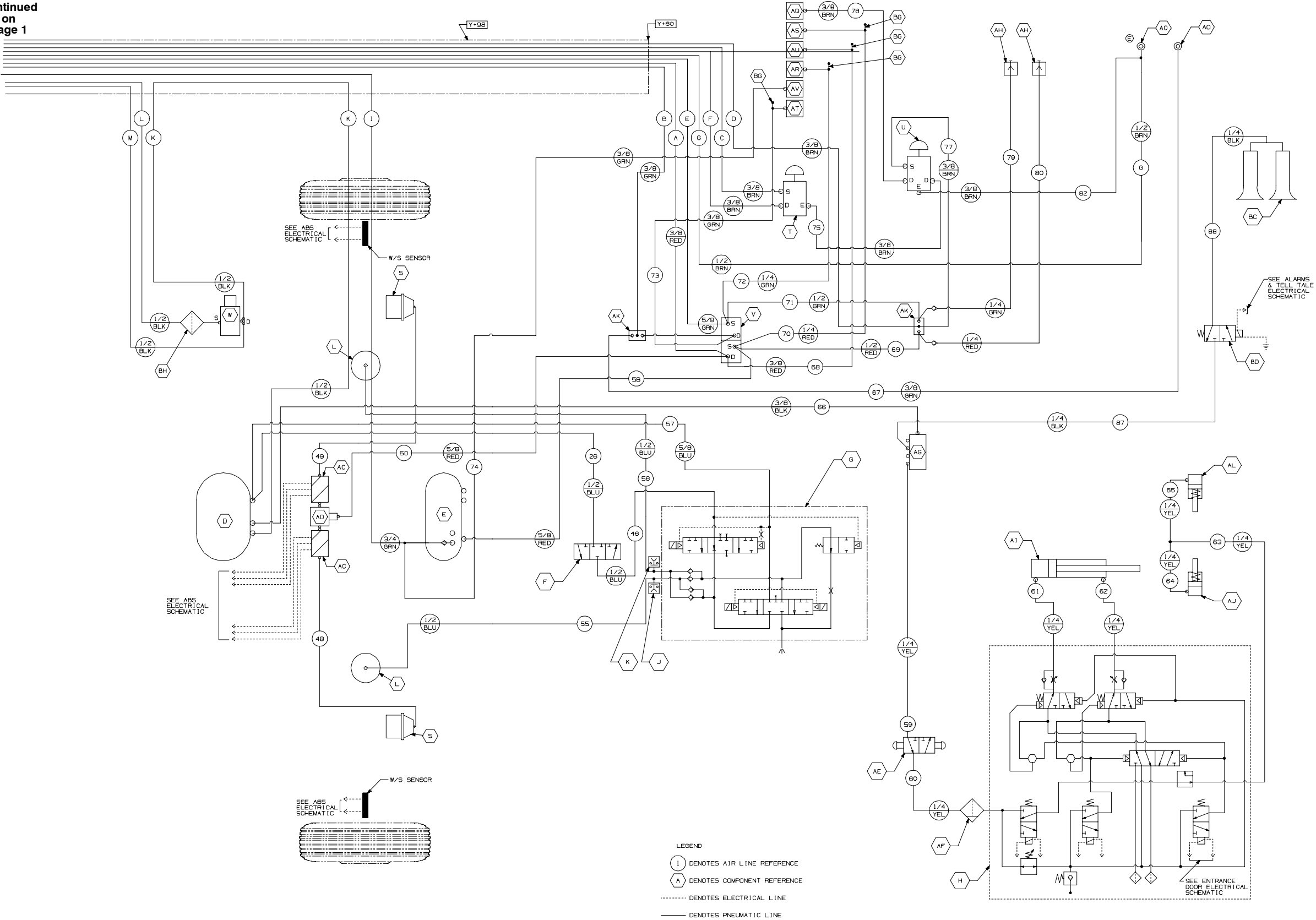


PARK BRAKE FOR
WHEEL CHAIR ONLY



AIR SYSTEM - J4500 (BASIC)
04-20-1161 (REV E)
SHEET 1 OF 3
(EFFECTIVE W/ 62049)

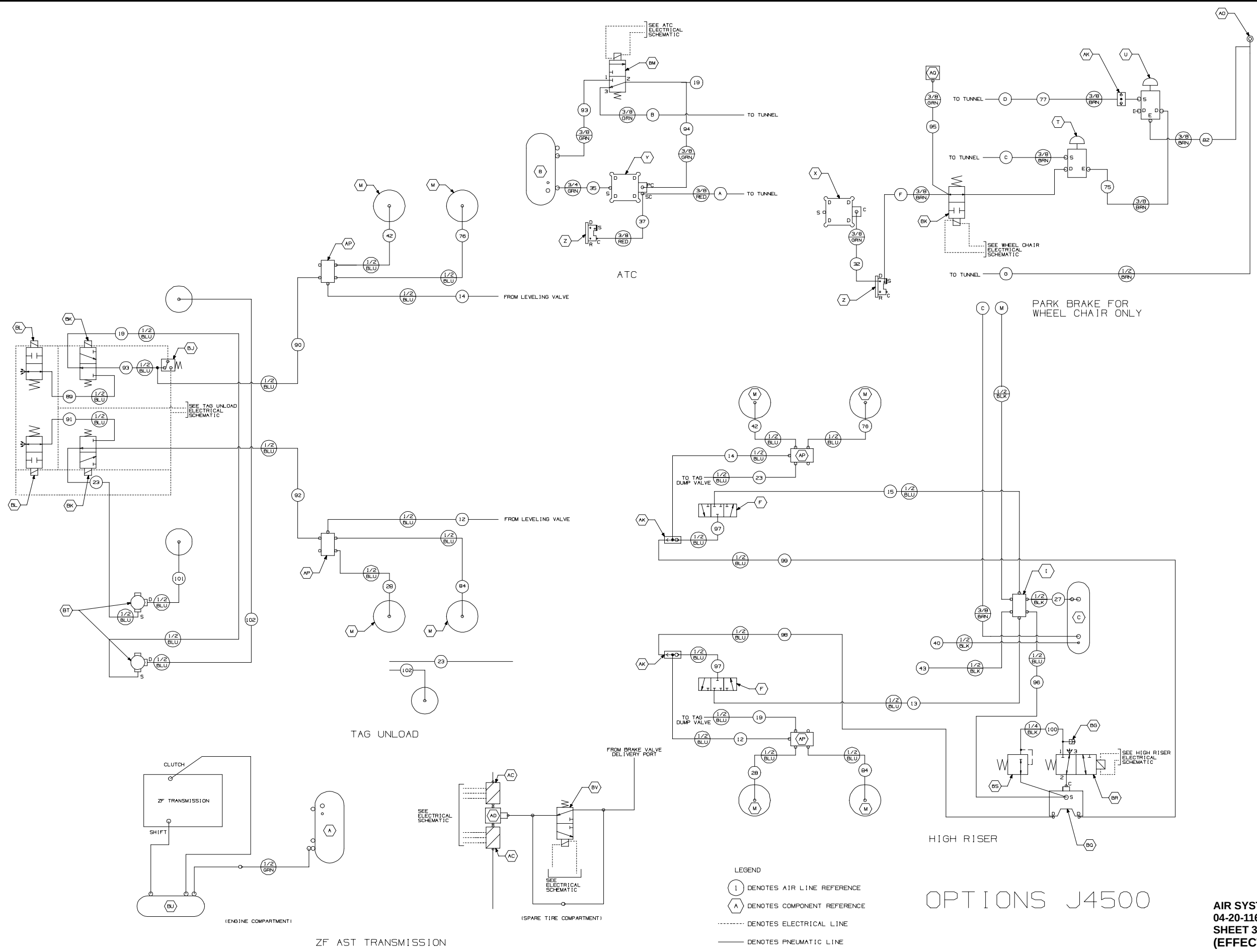
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on
Page 1



ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	LEVELING VALVE
G	MODULE-KNEELING
H	MODULE-DOOR CONTROL
I	MANIFOLD-AIR
J	PRESSURE SWITCH-KNEEL CUT OUT
K	PRESSURE SWITCH-RECOVERY CUT OUT
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E1S/E1SR
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE- SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAY FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	FILTER-OIL SEPARATOR
BF	COOLING COIL
BG	TEST PORT
BH	FILTER
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BN	
BO	
BP	
BQ	RELAY
BR	CONTROL VALVE
BS	REGULATOR, 80 PSI
BT	TAG DUMP VALVE
BU	AIR TANK - AST
BV	EZ START VALVE

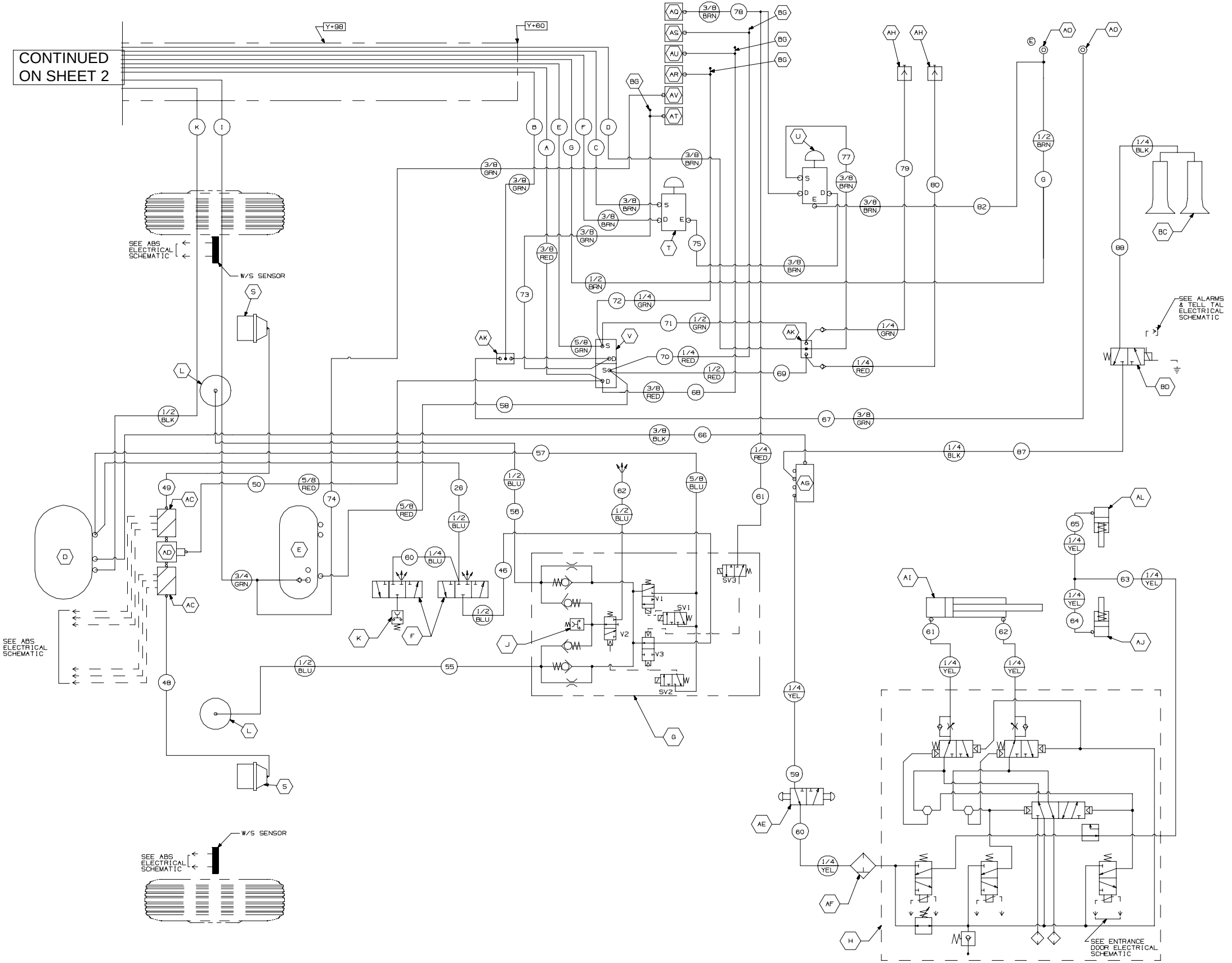
BASIC MODEL J4500

AIR SYSTEM - J4500 (BASIC)
04-20-1161 (REV E)
SHEET 2 OF 3
(EFFECTIVE W/ 62049)



ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	LEVELING VALVE
G	MODULE-KNEELING
H	MODULE-DOOR CONTROL
I	MANIFOLD-AIR
J	PRESSURE SWITCH-KNEEL CUT OUT
K	PRESSURE SWITCH-RECOVERY CUT OUT
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E18
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE-SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAV FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	FILTER-OIL SEPARATOR
BF	COOLING COIL
BG	TEST PORT
BH	FILTER
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BN	
BO	
BP	
BQ	RELAY
BR	CONTROL VALVE
BS	REGULATOR, 80 PSI
BT	TAG DUMP VALVE
BU	AIR TANK - AST
BV	EZ START VALVE

AIR SYSTEM - J4500 (OPTIONS)
04-20-1161 (REV E)
SHEET 3 OF 3
(EFFECTIVE W/ 62049)



CONTINUED
ON SHEET 2

ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	LEVELING VALVE
G	MODULE-KNEELING
H	MODULE-DOOR CONTROL
I	MANIFOLD-AIR
J	PRESSURE SWITCH-KNEEL OUT OUT
K	PRESSURE SWITCH-RECOVERY CUT OUT
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E15R
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE-SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAV FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	FILTER-OIL SEPARATOR
BF	COOLING COIL
BG	TEST PORT
BH	FILTER
BI	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BO	RELAY
BR	CONTROL VALVE
BS	REGULATOR, 80 PSI
BT	TAG DUMP VALVE
BU	AIR TANK - AST
BV	EZ START VALVE

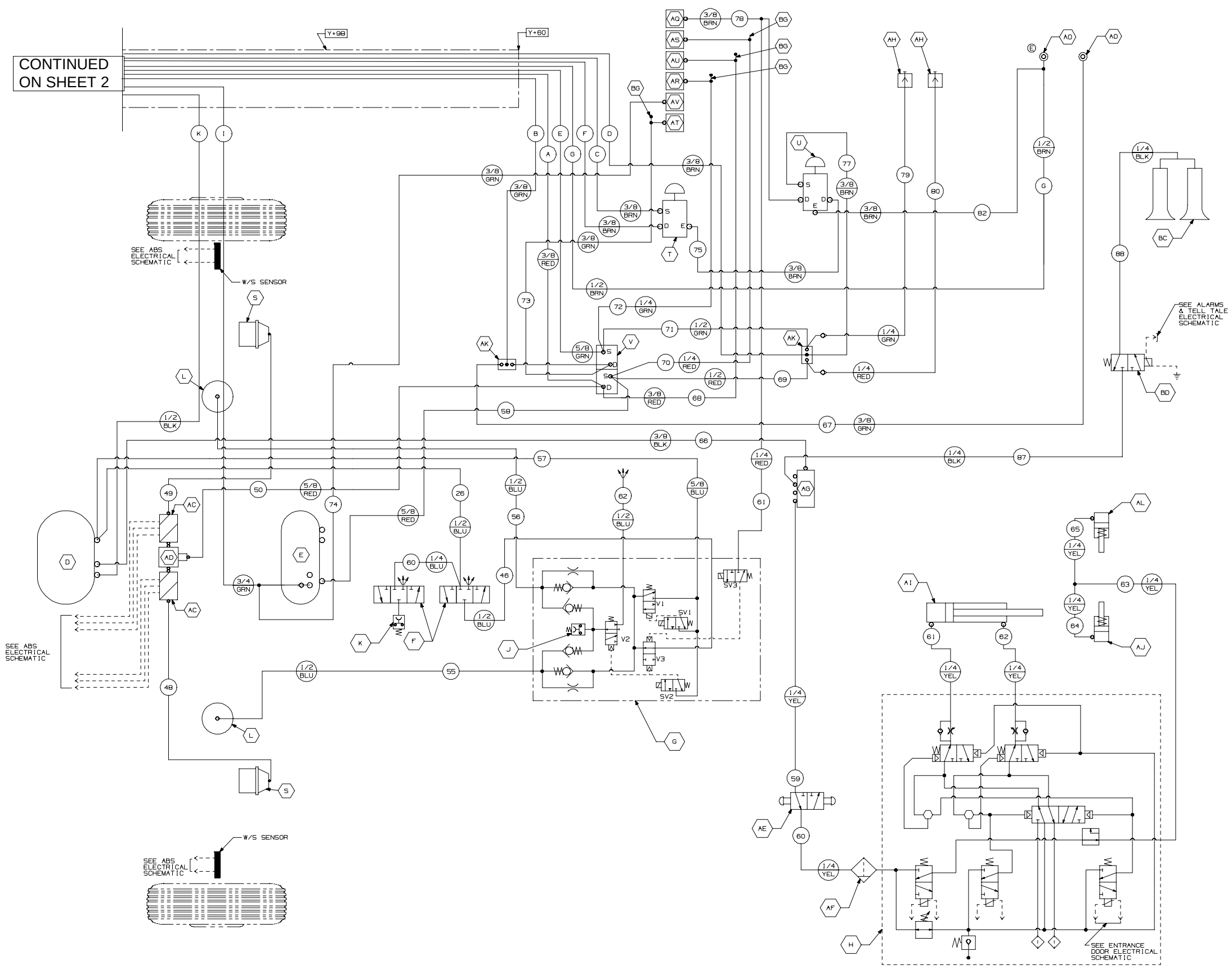
LEGEND
① DENOTES AIR LINE REFERENCE
A DENOTES COMPONENT REFERENCE
--- DENOTES ELECTRICAL LINE
— DENOTES PNEUMATIC LINE

AIR SYSTEM
04-20-1192 (REV A)
SHEET 1 OF 3
(EFFECTIVE W/ #61610 THRU #62221)

AIR SYSTEM
04-20-1192 (REV A)
SHEET 2 OF 3
(EFFECTIVE W/ #61610 THRU #62221)

LEGEND

	DENOTES AIR LINE REFERENCE
	DENOTES COMPONENT REFERENCE
-----	DENOTES ELECTRICAL LINE
————	DENOTES PNEUMATIC LINE



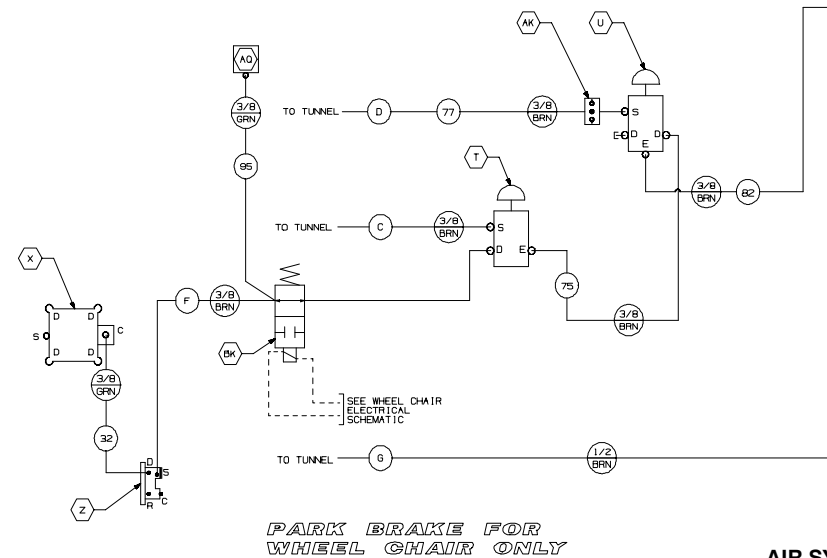
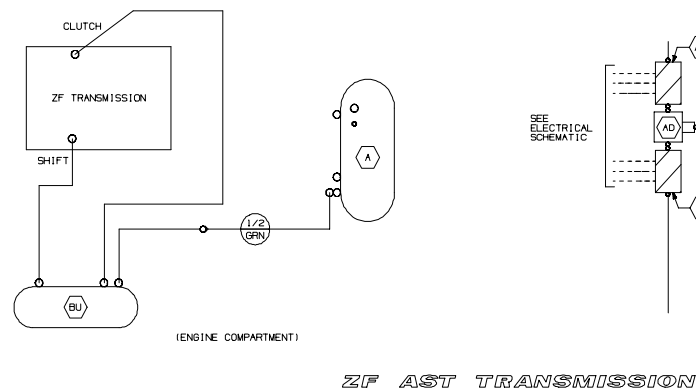
EM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	LEVELING VALVE
G	MODULE-KNEELING
H	MODULE-DOOR CONTROL
I	MANIFOLD-AIR
J	PRESSURE SWITCH-KNEEL CUT OUT
K	PRESSURE SWITCH-RECOVERY CUT OUT
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-IP
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E1SR
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE-SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAV FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	FILTER-OIL SEPARATOR
BF	COOLING COIL
BG	TEST PORT
BH	FILTER
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BN	RELAY
BR	CONTROL VALVE
BS	REGULATOR, 80 PSI
BT	TAG DUMP VALVE
BU	AIR TANK - AST
BV	EZ START VALVE

- LEGEND
- (I) DENOTES AIR LINE REFERENCE
 - (A) DENOTES COMPONENT REFERENCE
 - DENOTES ELECTRICAL LINE
 - DENOTES PNEUMATIC LINE

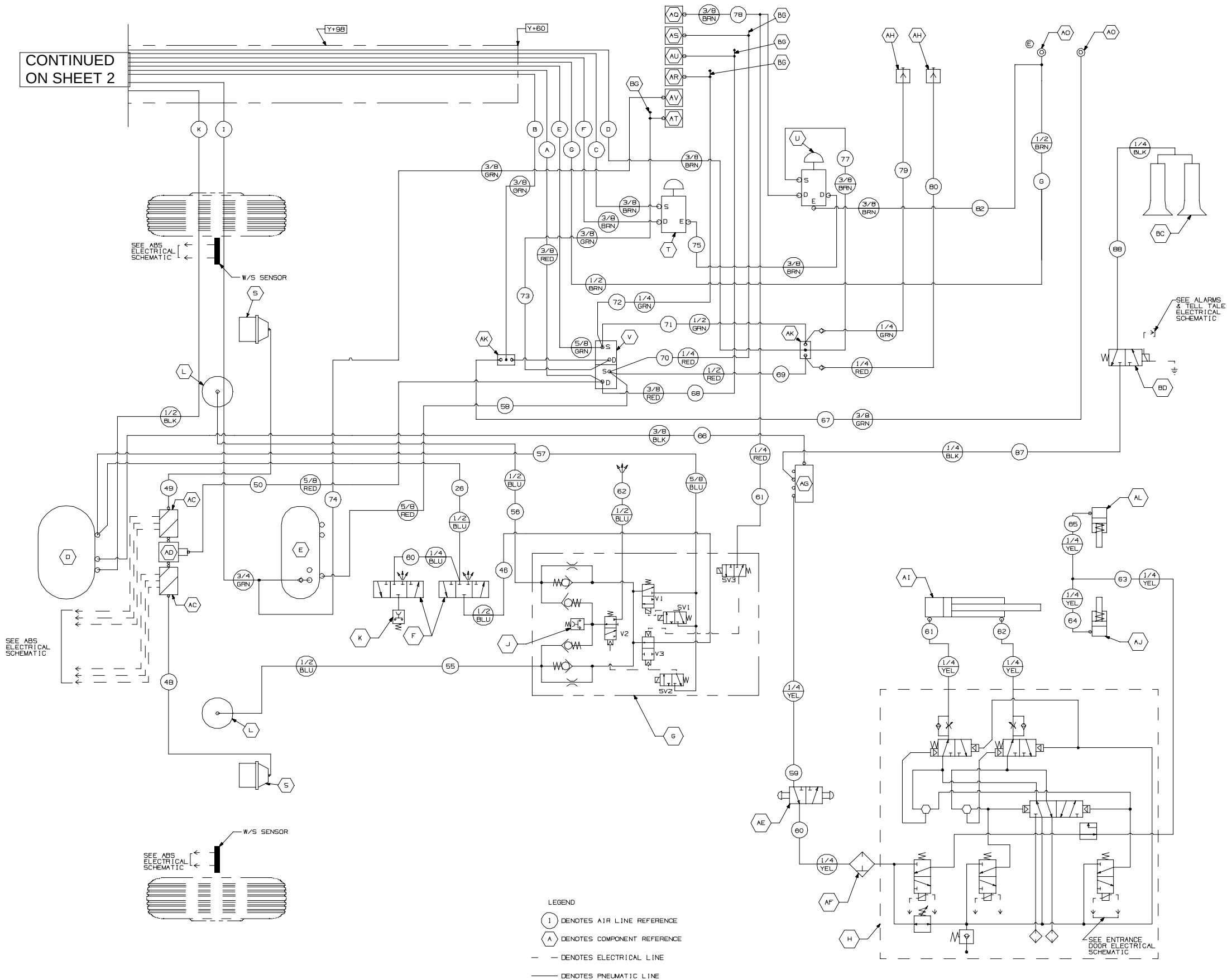
AIR SYSTEM J4500
04-20-1192 (REV B)
SHEET 1 OF 3
(EFFECTIVE W/ #62222 THRU #62805)



2007

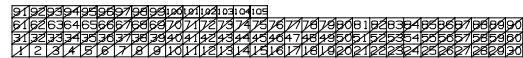


2007



ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	LEVELING VALVE
G	MODULE-KNEELING
H	MODULE-DOOR CONTROL
I	MANIFOLD-AIR
J	PRESSURE SWITCH-KNEEL CUT OUT
K	PRESSURE SWITCH-RECOVERY CUT OUT
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-IP
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E1S/E1SR
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE-SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAV FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	FILTER-OIL SEPARATOR
BF	COOLING COIL
BG	TEST PORT
BH	FILTER
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BO	RELAY
BR	CONTROL VALVE
BS	REGULATOR, 80 PSI
BT	TAG DUMP VALVE
BU	AIR TANK - AST
BV	BZ START VALVE
BW	CHECK VALVE

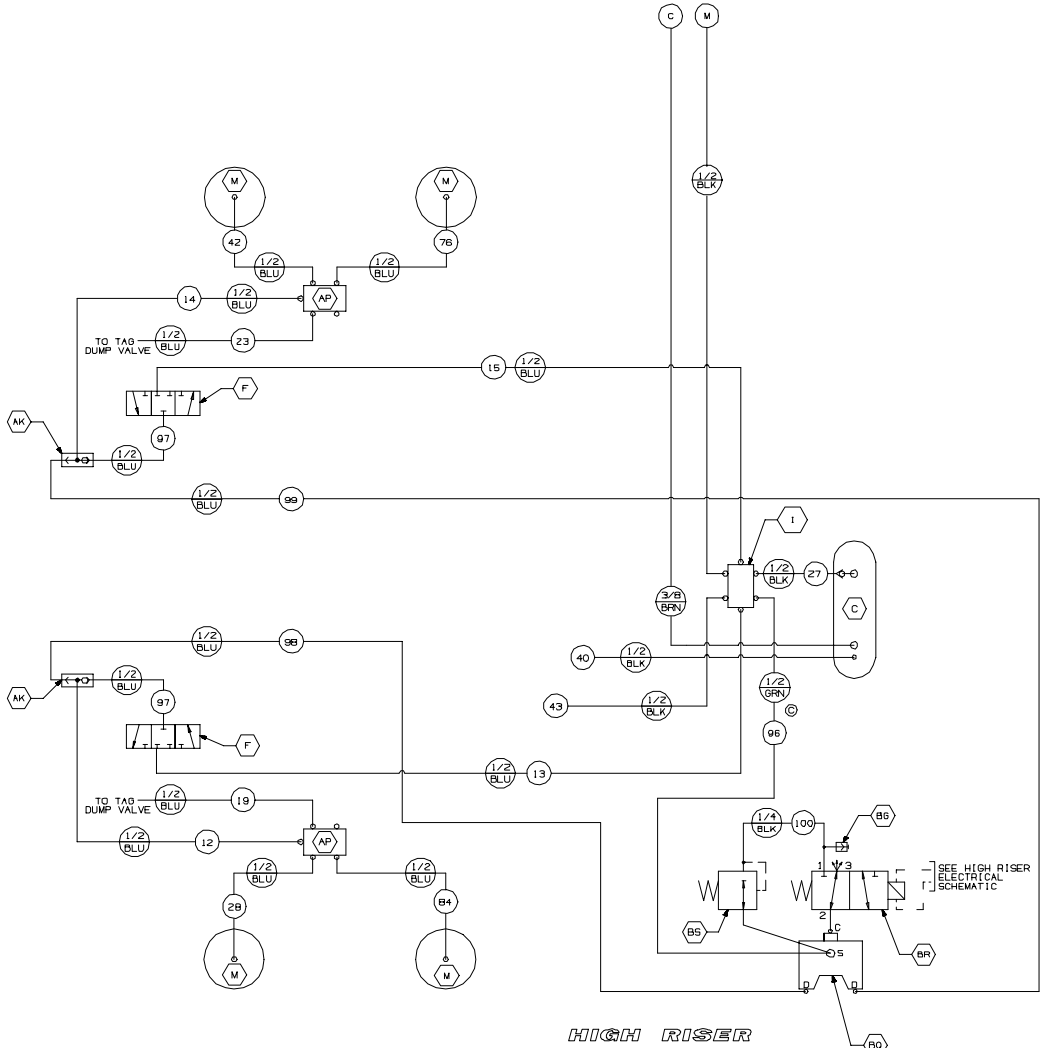
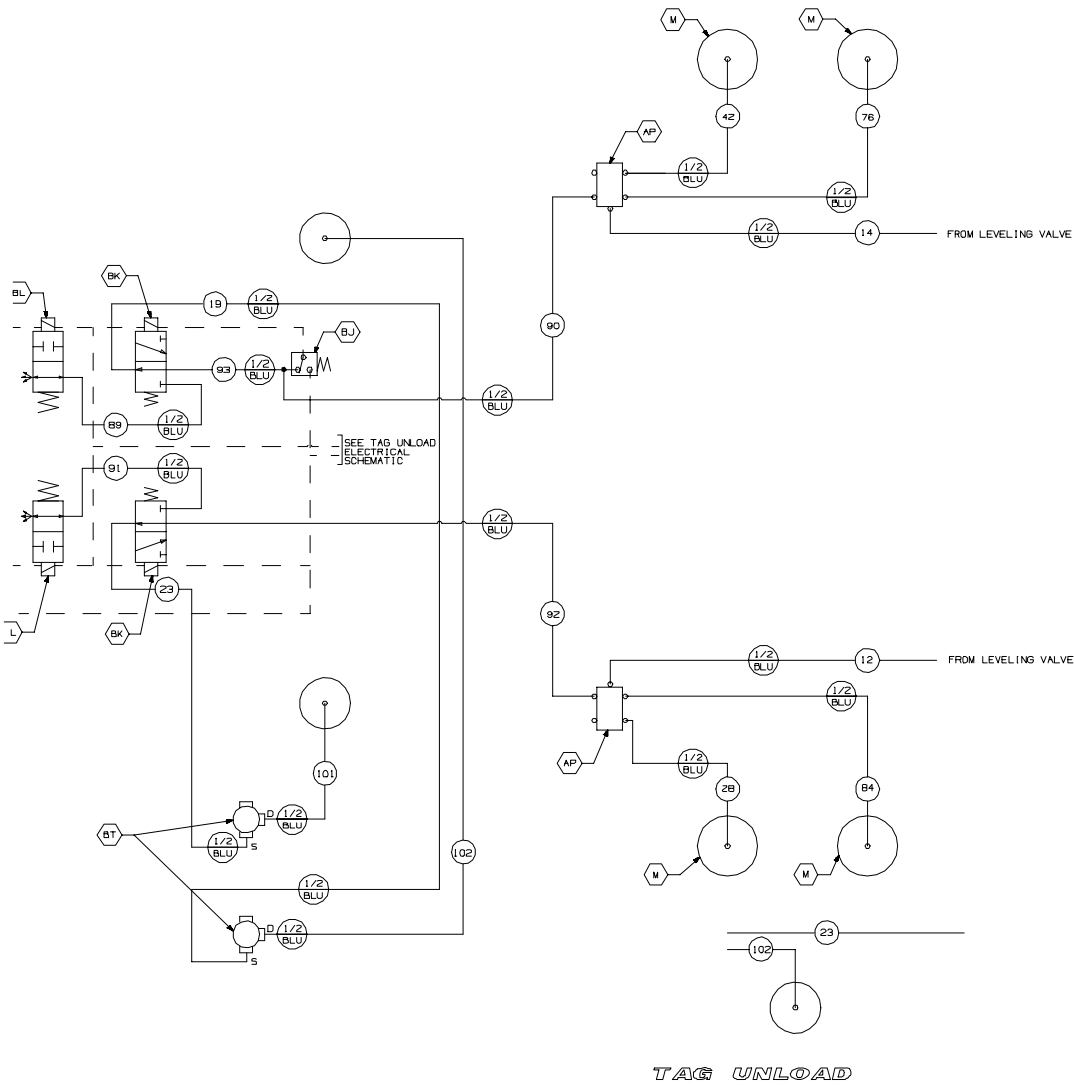
AIR SYSTEM J4500
04-20-1192 (REV D)
SHEET 1 OF 3
(EFFECTIVE W/ #62806)



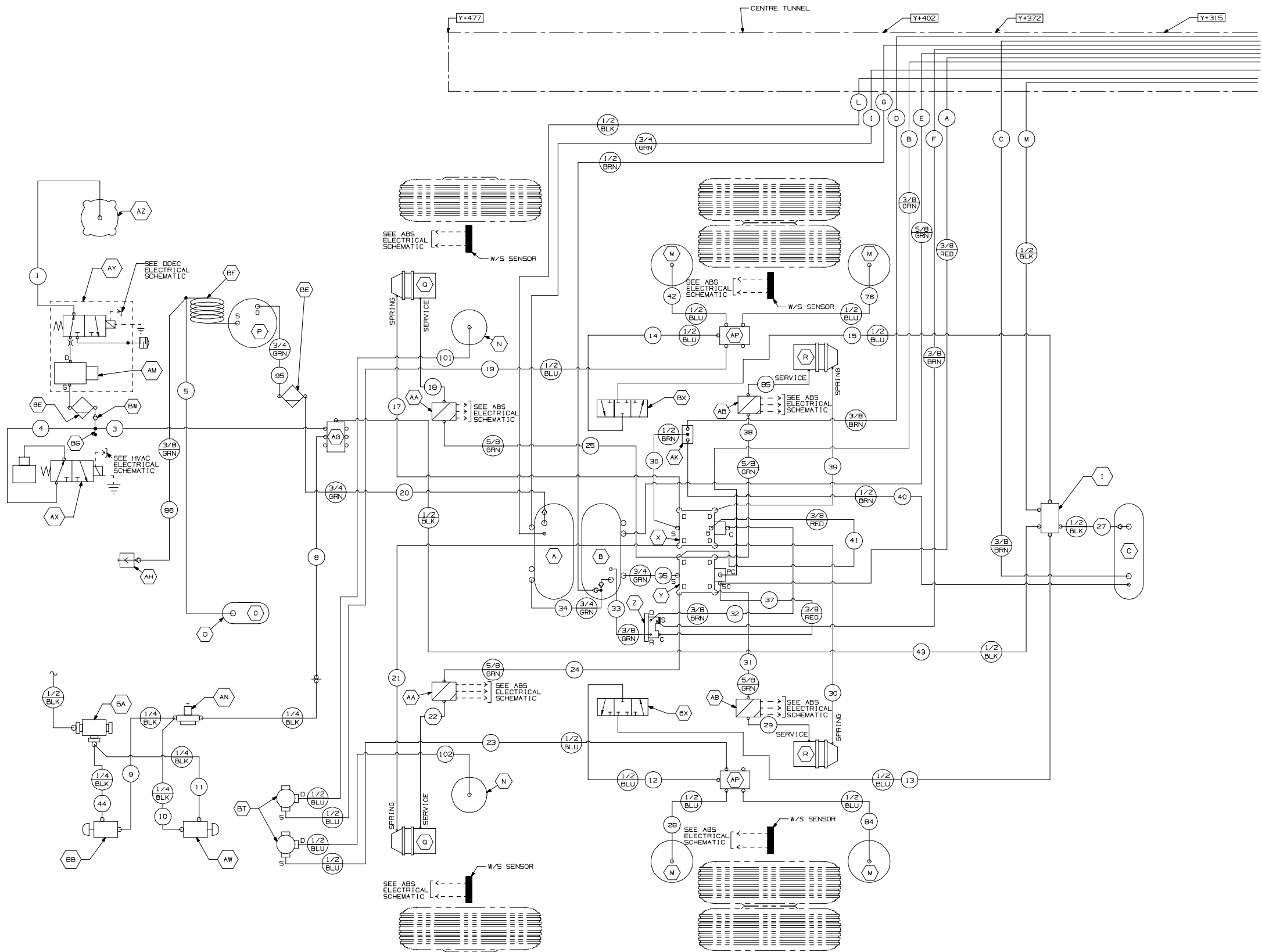
ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	LEVELING VALVE
G	MODULE-KNEELING
H	MODULE-DOOR CONTROL
I	MANIFOLD-AIR
J	PRESSURE SWITCH-KNEEL OUT
K	PRESSURE SWITCH-RECOVERY OUT
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E18
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE-SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAY FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	FILTER-OIL SEPARATOR
BF	COOLING COIL
BG	TEST PORT
BH	FILTER
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BN	RELAY
BO	CONTROL VALVE
BS	REGULATOR, 80 PSI
BT	TAG DUMP VALVE
BU	AIR TANK - AST
BV	EZ START VALVE
BW	CHECK VALVE

- LEGEND
- (1) DENOTES AIR LINE REFERENCE
 - (A) DENOTES COMPONENT REFERENCE
 - - - DENOTES ELECTRICAL LINE
 - DENOTES PNEUMATIC LINE

AIR SYSTEM J4500
04-20-1192 (REV D)
SHEET 3 OF 3
(EFFECTIVE W/ #62806)



Continued
on
Page 2



ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	ACCESSORY TANK
G	MODULE-KNEELING
H	MODULE-DOOR CONTROL
I	MANIFOLD-AIR
J	PRESSURE SWITCH-KNEEL CUT OUT
K	PRESSURE SWITCH-RECOVERY CUT OUT
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E1SR
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE-SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAY FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	FILTER-OIL SEPARATOR
BF	COOLING COIL
BG	TEST PORT
BH	FILTER
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BQ	RELAY
BR	CONTROL VALVE
BS	REGULATOR, 80 PSI
BT	TAG DUMP VALVE
BU	AIR TANK - AST
BV	EZ START VALVE
BW	CHECK VALVE
BX	LEVELING VALVE

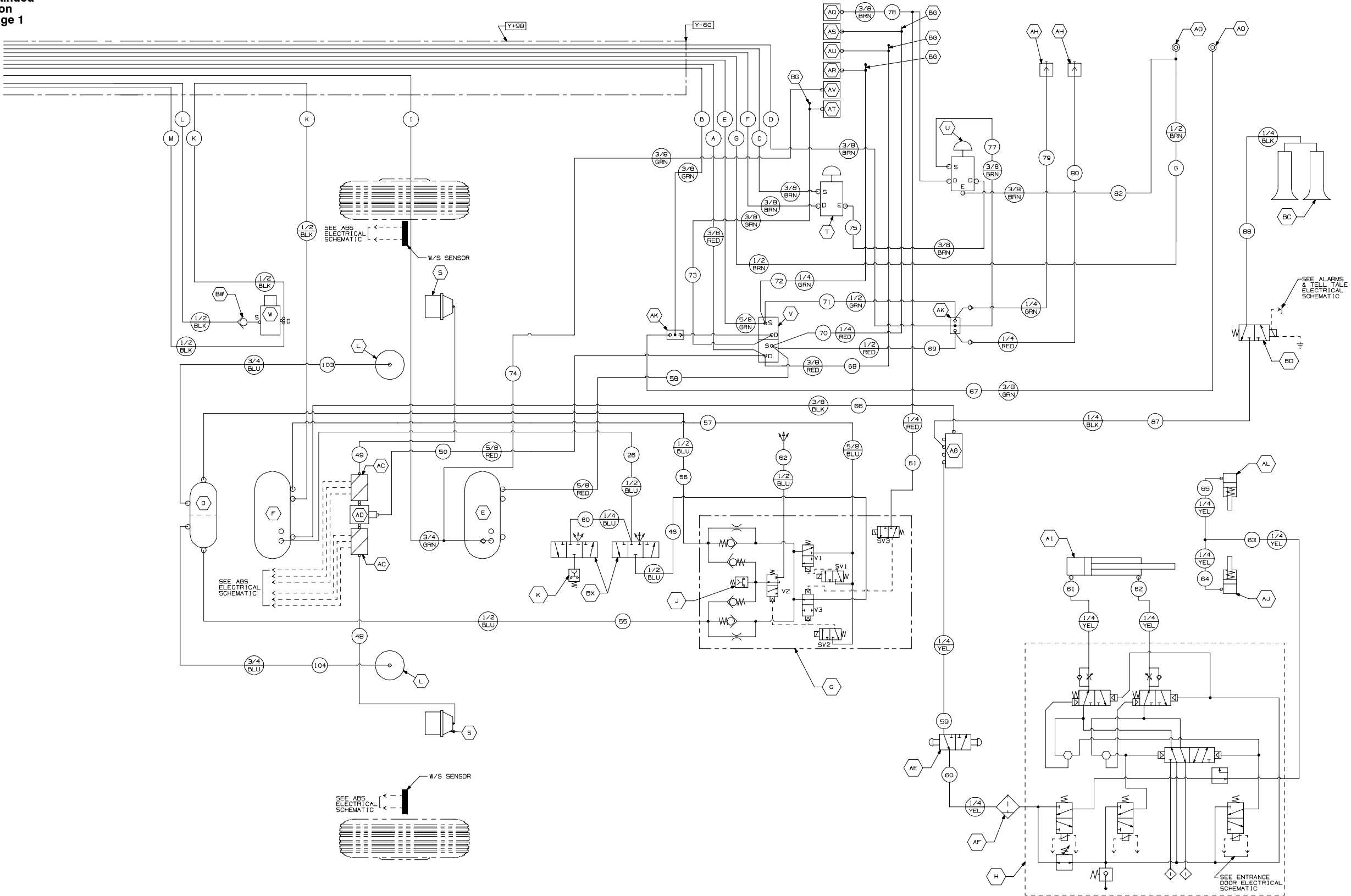
04-20-1228

LEGEND
① DENOTES AIR LINE REFERENCE
A DENOTES COMPONENT REFERENCE
--- DENOTES ELECTRICAL LINE
— DENOTES PNEUMATIC LINE

BASIC MODEL J4500 MUX

AIR SYSTEM (BASIC)
04-20-1228 (REV A)
SHEET 1 OF 3
(EFFECTIVE W/ #62806)

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on
Page 1

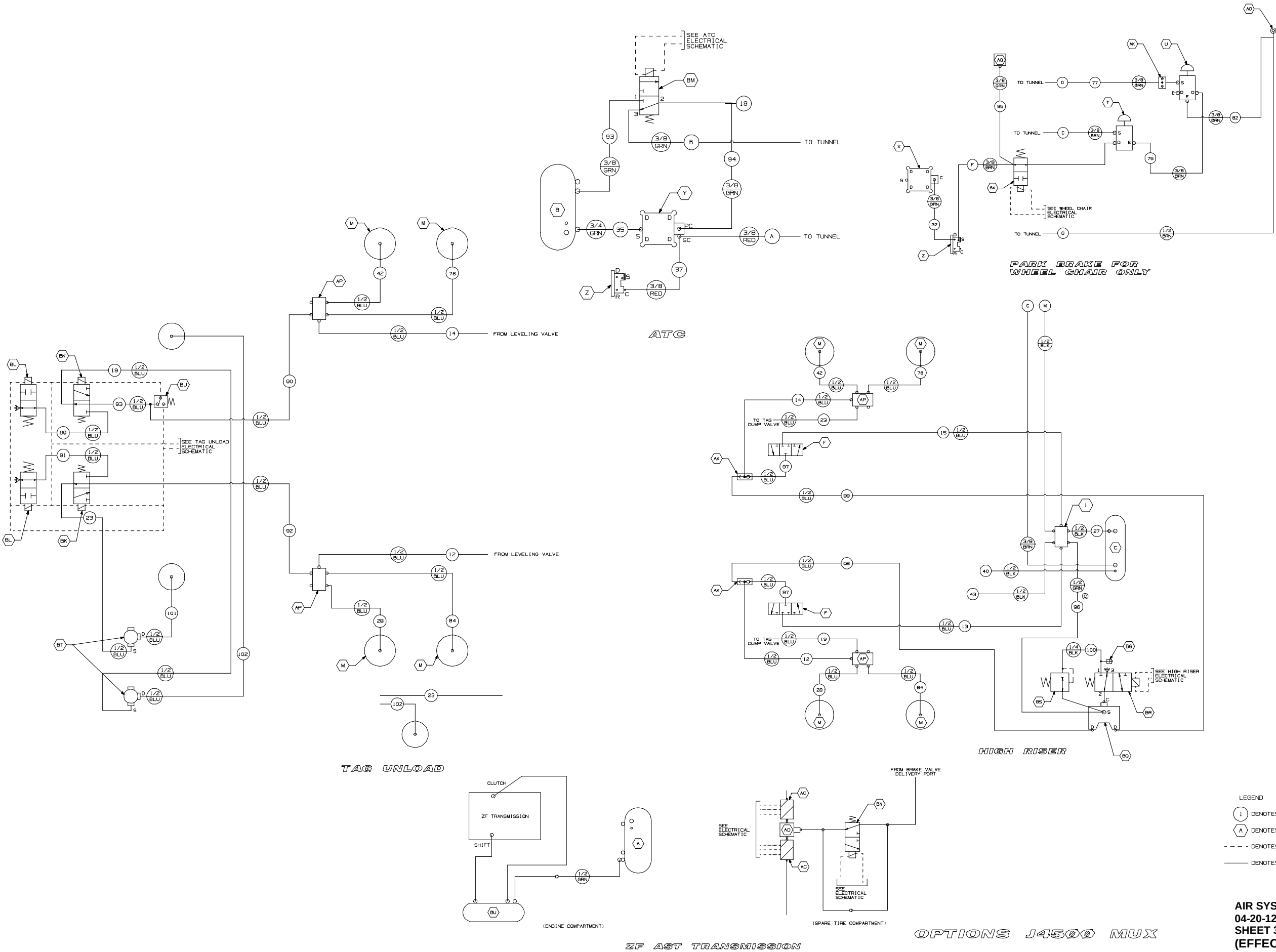


ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	ACCESSORY TANK
G	MODULE-KNEELING
H	MODULE-DOOR CONTROL
I	MANIFOLD-AIR
J	PRESSURE SWITCH-KNEEL CUT OUT
K	PRESSURE SWITCH-RECOVERY CUT OUT
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E18P
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE- SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAV FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	FILTER-OIL SEPARATOR
BF	COOLING COIL
BG	TEST PORT
BH	FILTER
BI	PRESSURE SWITCH-TAG UNLOAD
BJ	VALVE-UNLOAD, TAG UNLOAD
BK	VALVE-HOLD, TAG UNLOAD
BL	VALVE-ATC
BM	RELAY
BN	CONTROL VALVE
BS	REGULATOR, 80 PSI
BT	TAG DUMP VALVE
BU	AIR TANK - AST
BV	EZ START VALVE
BW	CHECK VALVE
BX	LEVELING VALVE

LEGEND
1 DENOTES AIR LINE REFERENCE
A DENOTES COMPONENT REFERENCE
--- DENOTES ELECTRICAL LINE
— DENOTES PNEUMATIC LINE

BASIC MODEL J4500 MUX

AIR SYSTEM (BASIC)
04-20-1228 (REV A)
SHEET 2 OF 3
(EFFECTIVE W/ #62806)



ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	ACCESSORY TANK
G	MODULE-KNEELING
H	MODULE-DOOR CONTROL
I	MANIFOLD-AIR
J	PRESSURE SWITCH-KNEEL CUT OUT
K	PRESSURE SWITCH-RECOVERY CUT OUT
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRIVER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E1SR
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE-SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAY FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	FILTER-OIL SEPARATOR
BF	COOLING COIL
BG	TEST PORT
BH	FILTER
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BN	RELAY
BO	CONTROL VALVE
BS	REGULATOR, 80 PSI
BT	TAG DUMP VALVE
BU	AIR TANK - AST
BV	EZ START VALVE
BW	CHECK VALVE
BX	LEVELING VALVE

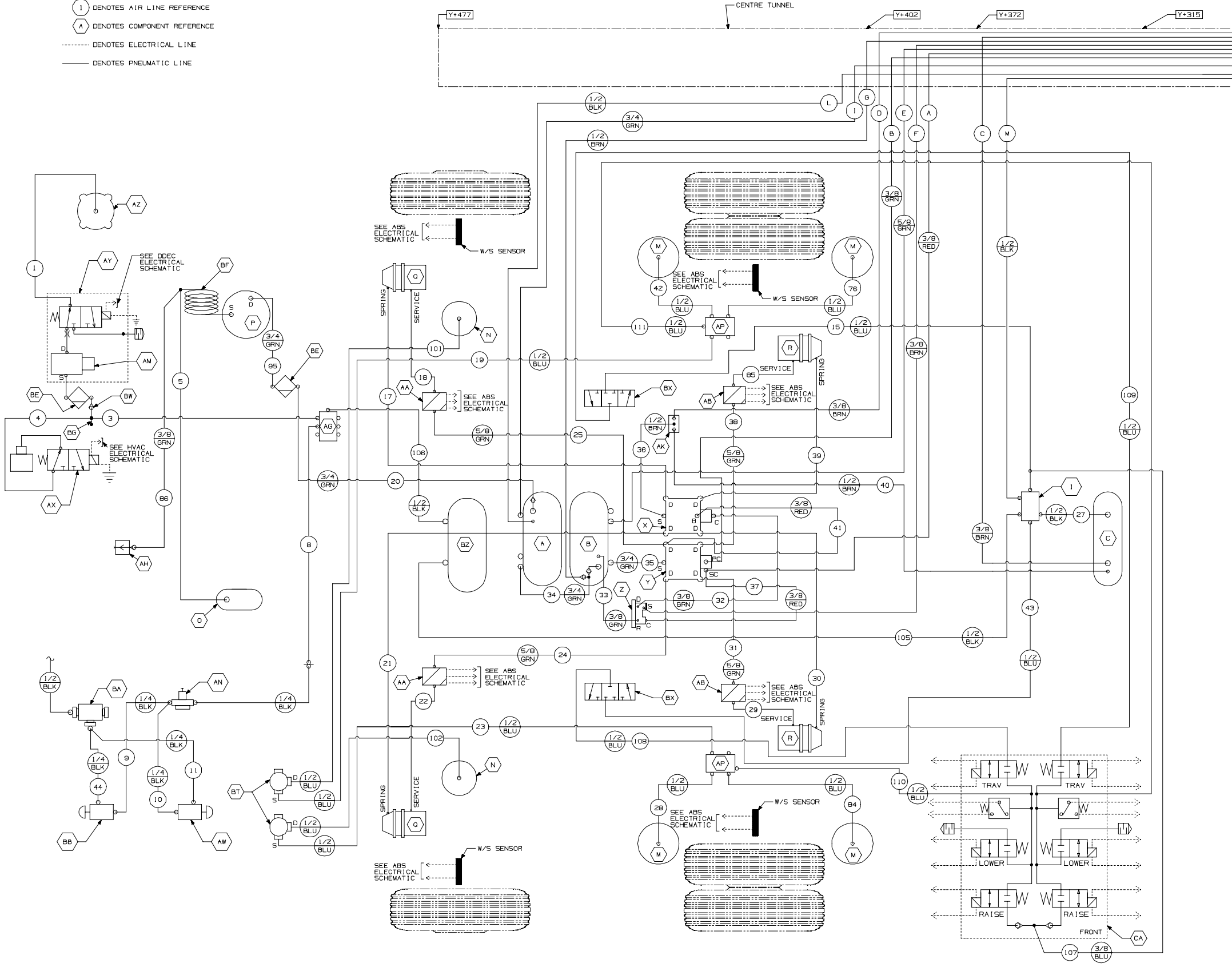
LEGEND
I DENOTES AIR LINE REFERENCE
A DENOTES COMPONENT REFERENCE
--- DENOTES ELECTRICAL LINE
--- DENOTES PNEUMATIC LINE

AIR SYSTEM (OPTIONS)
04-20-1228 (REV A)
SHEET 3 OF 3
(EFFECTIVE W/ #62806)

LEGEND
I DENOTES AIR LINE REFERENCE
A DENOTES COMPONENT REFERENCE
..... DENOTES ELECTRICAL LINE
——— DENOTES PNEUMATIC LINE

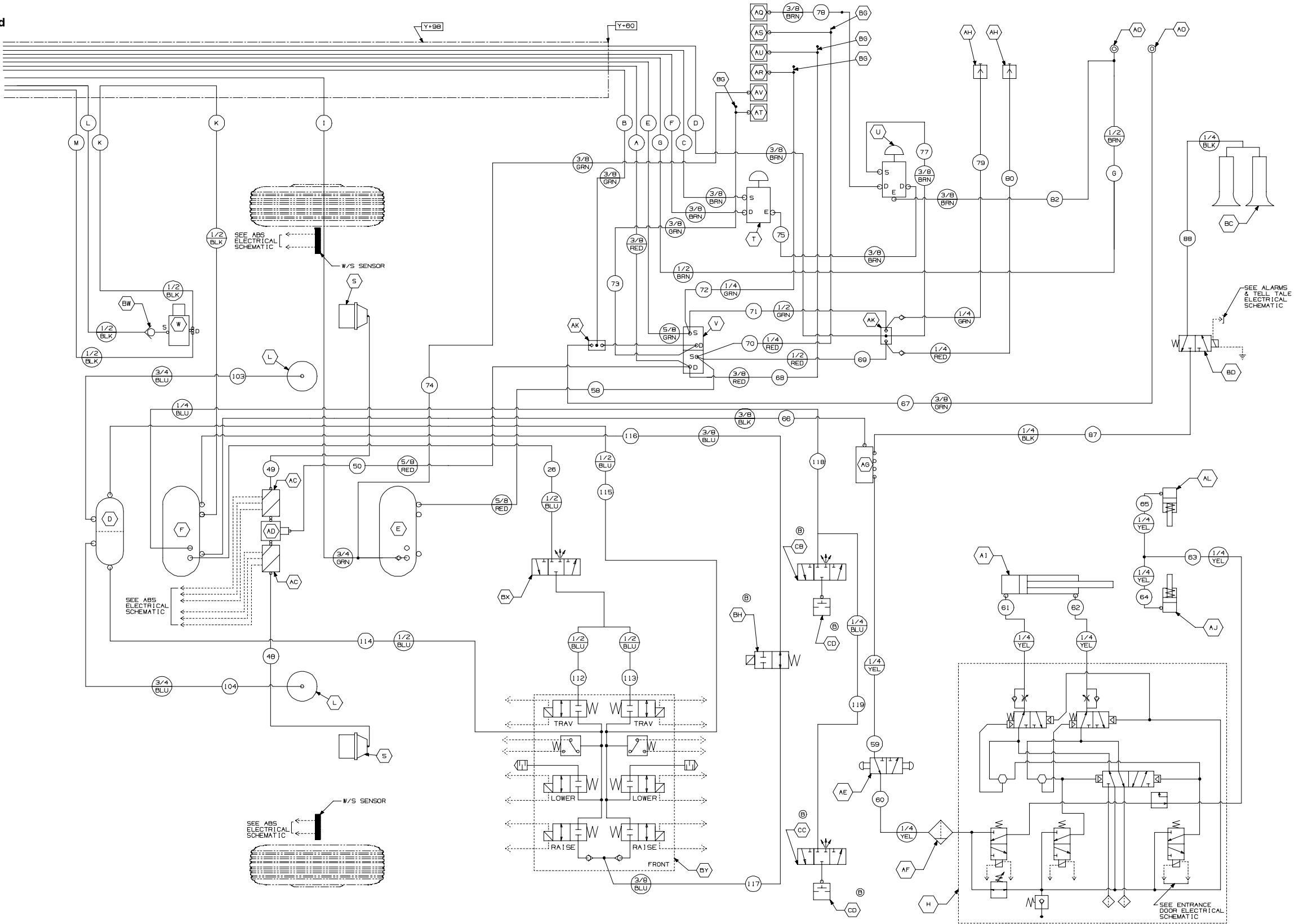
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ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	ACCESSORY TANK
G	MODULE-KNEELING
H	MODULE-DOOR CONTROL
I	MANIFOLD-AIR
J	PRESSURE SWITCH-KNEEL CUT OUT
K	PRESSURE SWITCH-RECOVERY CUT OUT
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E15R
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE- SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAV FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	FILTER-OIL SEPARATER
BF	COOLING COIL
BG	TEST PORT
BH	SOLENOID LIMITING HEIGHT VALVE
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BO	RELAY-HIGH RISE
BR	CONTROL VALVE-HIGH RISE
BS	REGULATOR, 80 PSI-HIGH RISE
BT	TAG DUMP VALVE
BU	AIR TANK - AST
BV	EZ START VALVE
BW	CHECK VALVE
BX	LEVELING VALVE
BY	HHW FRONT MANIFOLD
BZ	TANK-REAR ACCESSORIES
CA	HHW REAR MANIFOLD
CB	VALVE ASSY-LH LIMITING SYSTEM
CC	VALVE ASSY-RH LIMITING SYSTEM
CD	SWITCH NORMALLY OPEN LIMITING SYSTEM



AIR SYSTEM - J4500 MUX (CONVERSION)
04-20-1320 (REV B)
SHEET 1 OF 3
(EFFECTIVE W/63335)

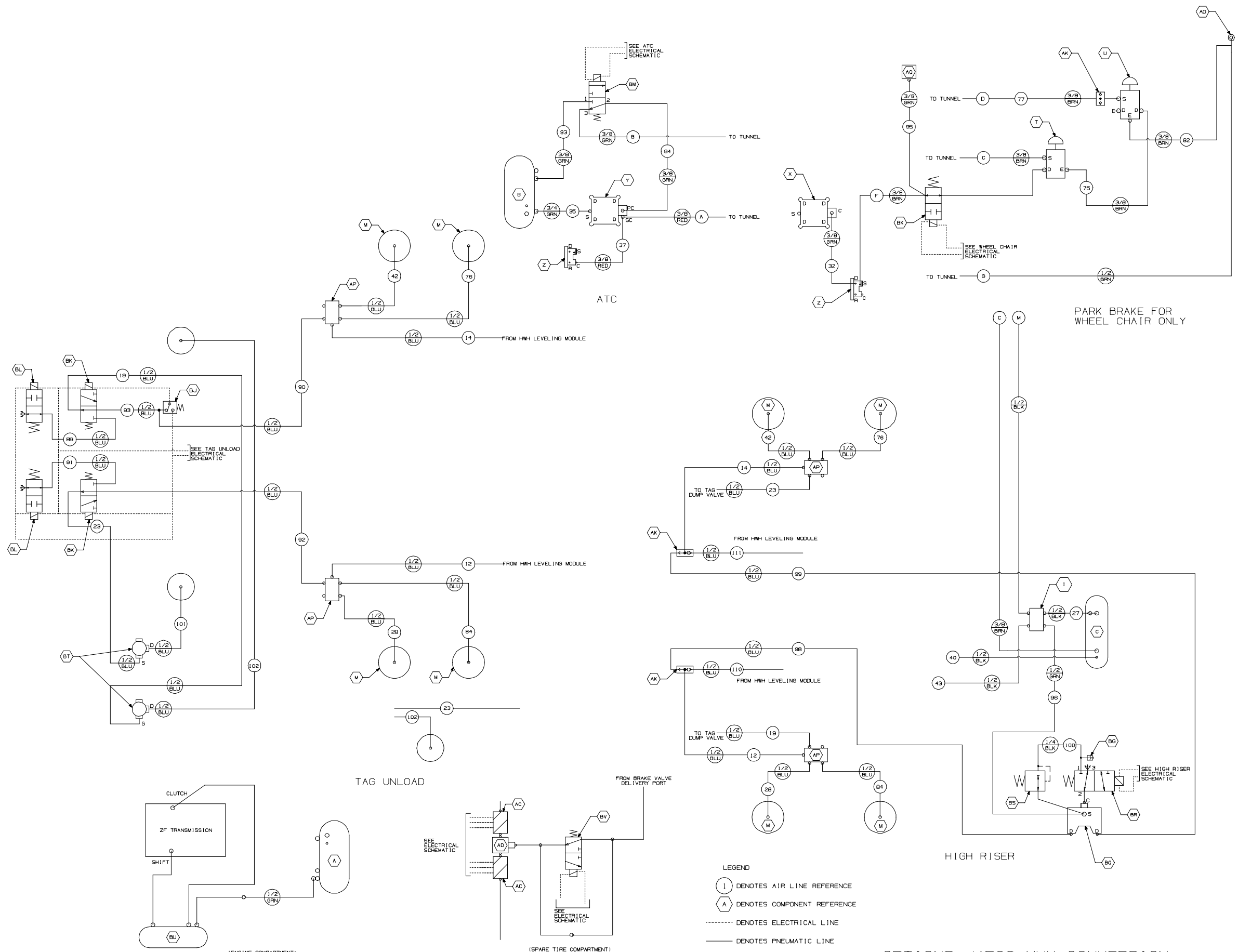
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ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	ACCESSORY TANK
G	MODULE-KNEELING
H	MODULE-DOOR CONTROL
I	MANIFOLD-AIR
J	PRESSURE SWITCH-KNEEL CUT OUT
K	PRESSURE SWITCH-RECOVERY CUT OUT
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-1P
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E15R
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE- SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAY FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	FILTER-OIL SEPARATOR
BF	COOLING COIL
BG	TEST PORT
BH	SOLENOID LIMITING HEIGHT VALVE
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BO	RELAY-HIGH RISE
BR	CONTROL VALVE-HIGH RISE
BS	REGULATOR, 80 PSI-HIGH RISE
BT	TAG DUMP VALVE
BU	AIR TANK - AST
BV	EZ START VALVE
BW	CHECK VALVE
BX	LEVELING VALVE
BY	HWH FRONT MANIFOLD
BZ	TANK-REAR ACCESSORIES
CA	HWH REAR MANIFOLD
CB	VALVE ASSY-LH LIMITING SYSTEM
CC	VALVE ASSY-RH LIMITING SYSTEM
CD	SWITCH NORMALLY OPEN LIMITING SYSTEM

BASIC MODEL J4500 MUX CONVERSION

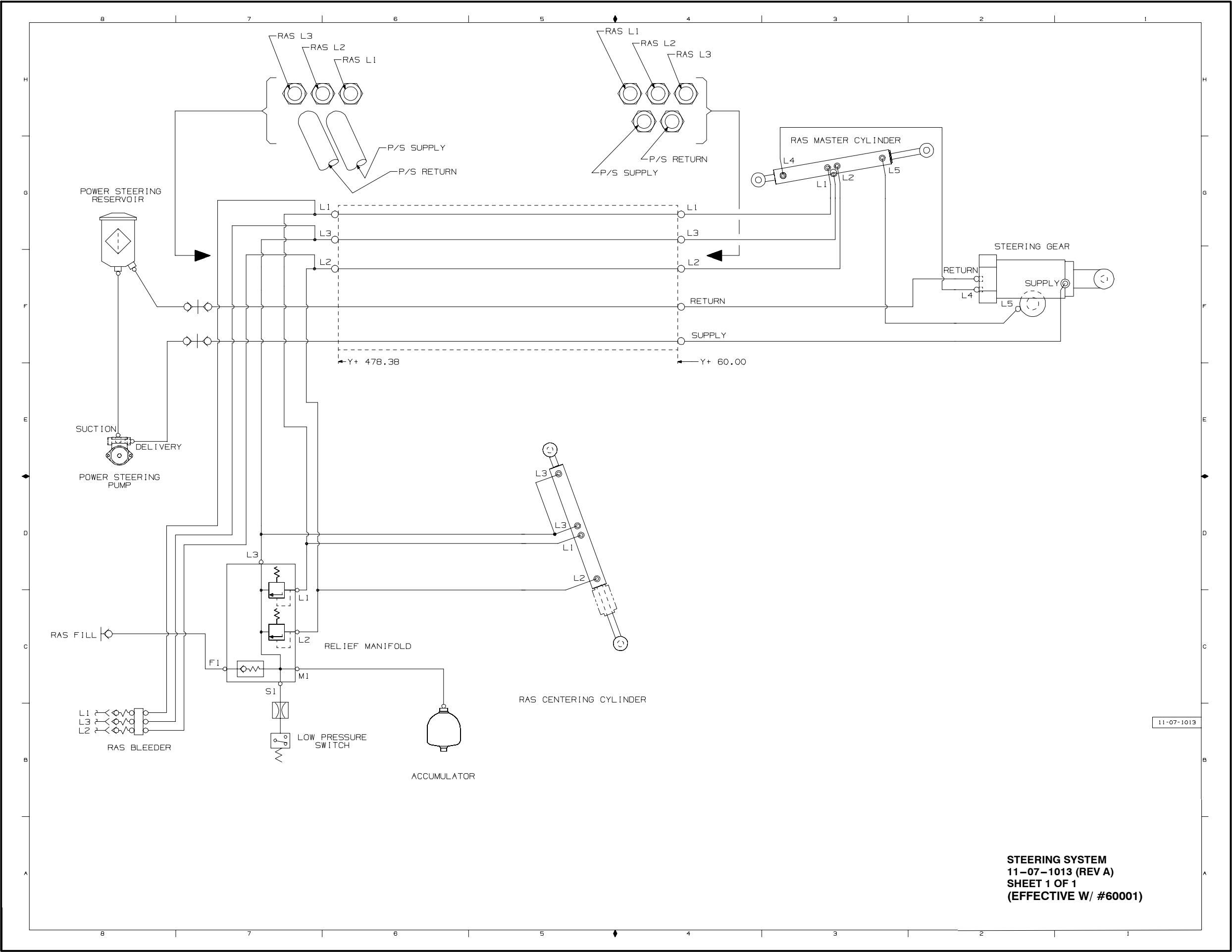
AIR SYSTEM - J4500 MUX (CONVERSION)
04-20-1320 (REV B)
SHEET 2 OF 3
(EFFECTIVE W/63335)



ITEM	DESCRIPTION
A	TANK-SUPPLY
B	TANK-REAR SERVICE
C	TANK-EMERGENCY RELEASE
D	TANK-SUSPENSION
E	TANK-SECONDARY SERVICE
F	ACCESSORY TANK
G	MODULE-KNEELING
H	MODULE-DOOR CONTROL
I	MANIFOLD-AIR
J	PRESSURE SWITCH-KNEEL CUT OUT
K	PRESSURE SWITCH-RECOVERY CUT OUT
L	AIR SPRING-FRONT
M	AIR SPRING-DRIVE
N	AIR SPRING-TAG
O	COMPRESSOR/GOVERNOR
P	AIR DRYER, AD-IP
Q	BRAKE CHAMBER-TAG
R	BRAKE CHAMBER-DRIVE
S	BRAKE CHAMBER-FRONT
T	VALVE-EMERGENCY RELEASE, RD-3
U	VALVE-PARK BRAKE, PP-1
V	VALVE-BRAKE, E15/E15R
W	VALVE-PRESSURE PROTECTION, PR-4, 70 PSI
X	VALVE-EMERGENCY RELAY, R-14
Y	VALVE-SERVICE RELAY, R-12DC
Z	VALVE- SPRING BRAKE, SR-1
AA	ABS MODULATOR-TAG
AB	ABS MODULATOR-DRIVE
AC	ABS MODULATOR-FRONT
AD	VALVE-QUICK RELEASE, QR-1
AE	DUMP VALVE-DOOR CONTROL
AF	FILTER-ACCESSORY
AG	JUNCTION BLOCK-ACCESSORY
AH	VALVE-QUICK DISCONNECT
AI	CYLINDER-DOOR CONTROL
AJ	CYLINDER-UPPER LATCH
AK	VALVE-DOUBLE CHECK, DC-4
AL	CYLINDER-LOWER LATCH
AM	VALVE-PRESSURE PROTECTION, PR-4, 90 PSI
AN	PRESSURE REGULATOR, 15 PSI
AO	MUFFLER
AP	MANIFOLD-SUSPENSION
AQ	PRESSURE SWITCH-PARKLIGHTS
AR	PRESSURE TRANSDUCER-PRIMARY SUPPLY
AS	PRESSURE TRANSDUCER-SECONDARY SUPPLY
AT	STOPLIGHT SWITCH-PRIMARY BRAKE
AU	STOPLIGHT SWITCH-SECONDARY BRAKE
AV	PRESSURE SWITCH-LOW AIR
AW	FLUSH VALVE-INTERIOR
AX	VALVE-COOLANT BY-PASS
AY	VALVE-FAN CLUTCH
AZ	FAN CLUTCH
BA	THROTTLE VALVE-LAV FLUSH
BB	FLUSH VALVE-ENGINE BAY
BC	AIR HORN
BD	SOLENOID VALVE-AIR HORN
BE	FILTER-OIL SEPARATER
BF	COOLING COIL
BG	TEST PORT
BH	SOLENOID LIMITING HEIGHT VALVE
BJ	PRESSURE SWITCH-TAG UNLOAD
BK	VALVE-UNLOAD, TAG UNLOAD
BL	VALVE-HOLD, TAG UNLOAD
BM	VALVE-ATC
BQ	RELAY-HIGH RISE
BR	CONTROL VALVE-HIGH RISE
BS	REGULATOR, 80 PSI-HIGH RISE
BT	TAG DUMP VALVE
BU	AIR TANK - AST
BV	EZ START VALVE
BW	CHECK VALVE
BX	LEVELING VALVE
BY	HWH FRONT MANIFOLD
BZ	TANK-REAR ACCESORIES
CA	HWH REAR MANIFOLD
CB	VALVE ASSY-LH LIMITING SYSTEM
CC	VALVE ASSY-RH LIMITING SYSTEM
CD	SWITCH NORMALLY OPEN LIMITING SYSTEM

AIR SYSTEM - J4500 MUX (OPTIONS)
04-20-1320 (REV B)
SHEET 3 OF 3
(EFFECTIVE W/63335

OPTIONS J4500 MUX CONVERSION



11-07-1013

STEERING SYSTEM
11-07-1013 (REV A)
SHEET 1 OF 1
(EFFECTIVE W/ #60001)



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ELECTRICAL SCHEMATICS – E/J MODELS

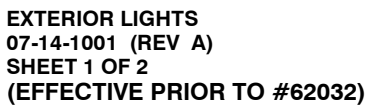
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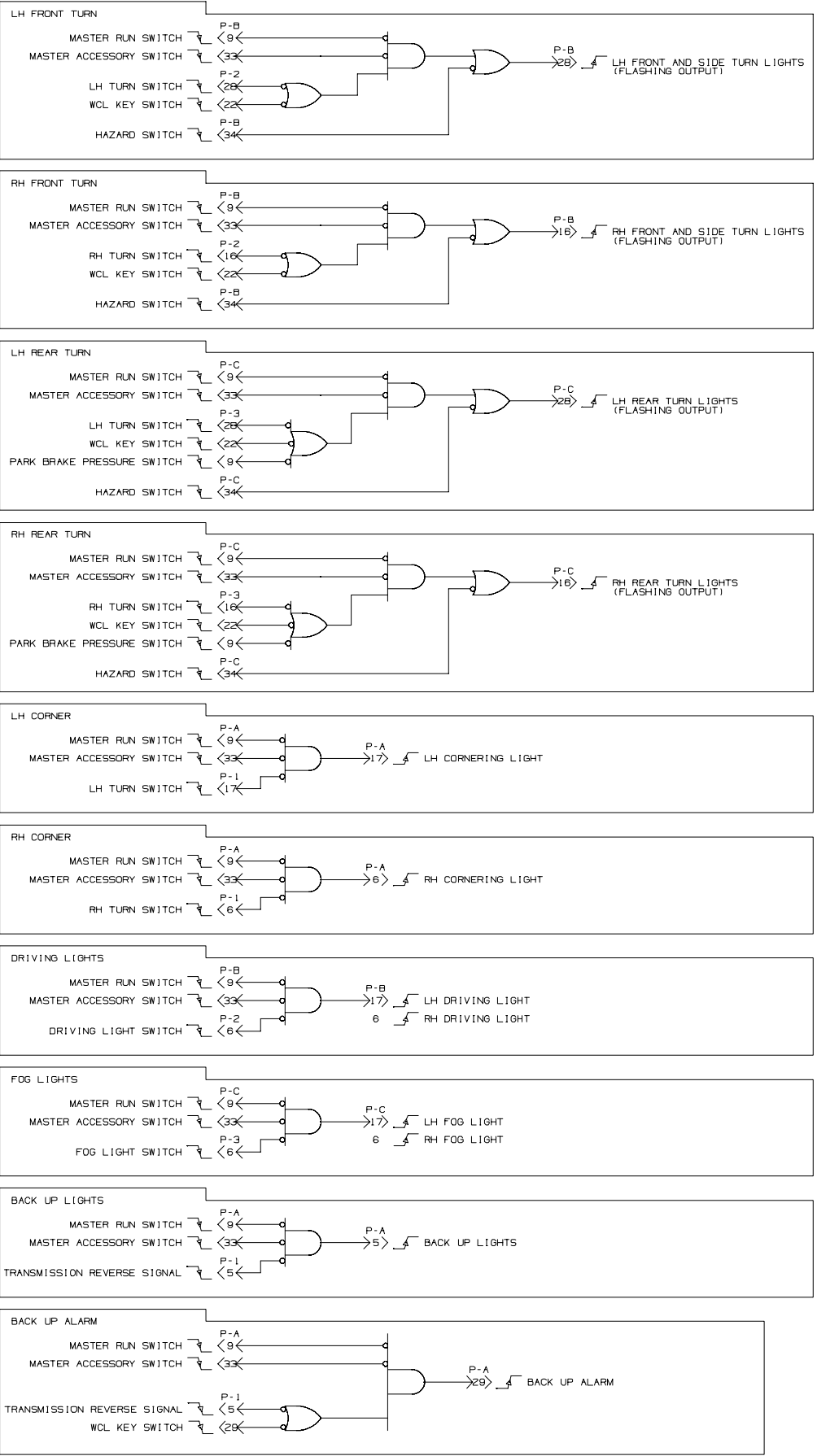
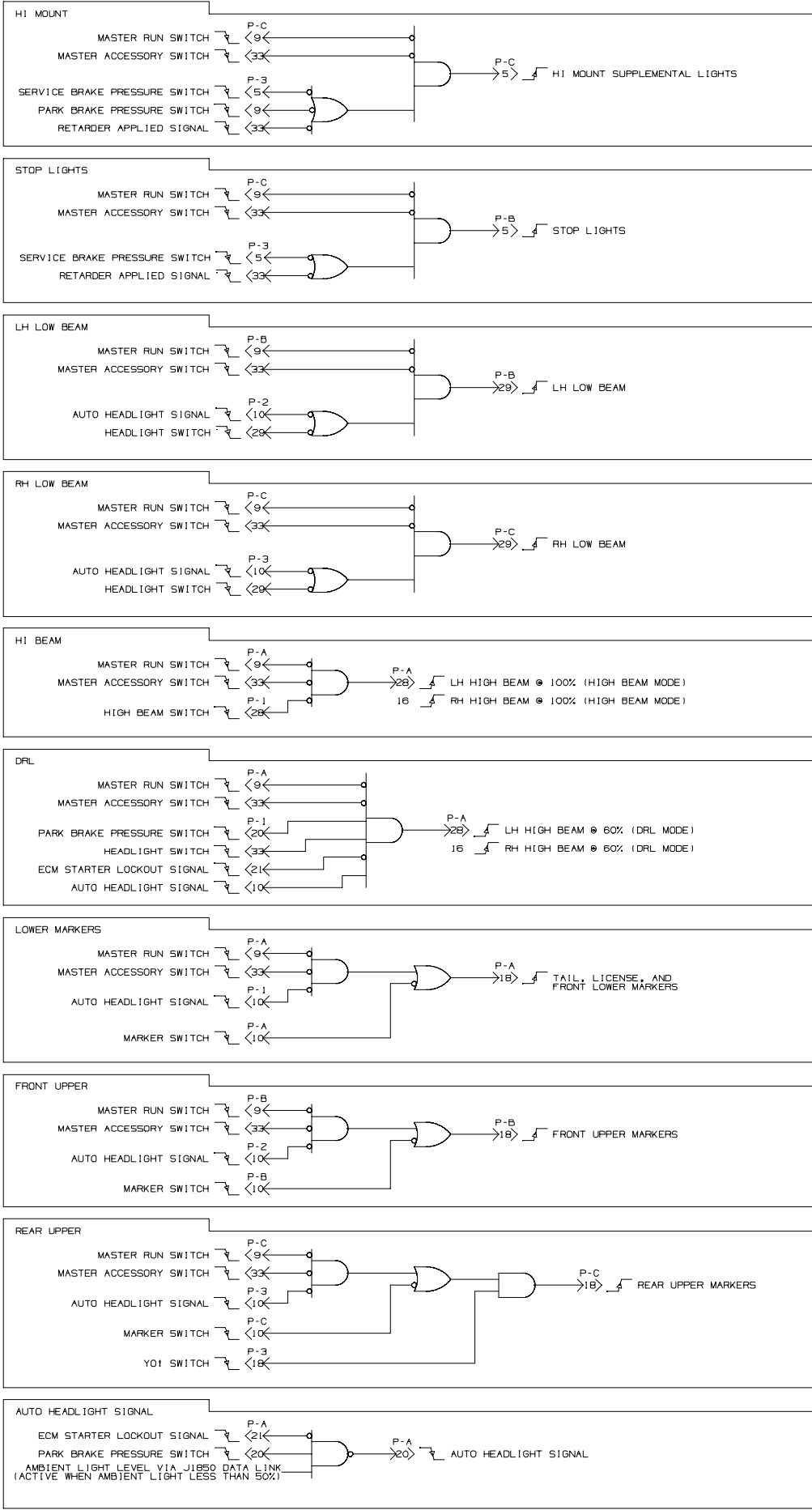
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M		
MIRRORS E/J MODELS – (EFF PRIOR TO 62032)	07-14-1087	Rev. A
MIRRORS, MUX E/J MODELS – (EFF W/ 62032)	07-14-1276	Rev. A
MODULE CONTROL E/J MODELS – (EFF W/ 62032 THRU 63306)	07-14-1335	Rev. B
MODULE CONTROL E/J MODELS – (EFF W/ 63307)	07-14-2160	Rev. A
R		
REAR RISE E/J MODELS – (EFF W/ 62032)	07-14-1316	Rev. A
Page 2 of 2	07-14-1316	Rev. A
S		
SERVICE LIGHTS E4500 – (EFF PRIOR TO 62032)	07-14-1036	Rev. B
Page 2 of 2	07-14-1036	Rev. B
SERVICE LIGHTS E/J MODELS – (EFF W/ 62032)	07-14-1279	Rev. C
Page 2 of 2	07-14-1279	Rev. C
SMARTIRE E/J MODELS	07-14-2126	Rev. B
SERVICE LIGHTS J4500 – (EFF PRIOR TO 62032)	07-14-6307	Rev. A
Page 2 of 2	07-14-6307	Rev. A
T		
TAG AXLE UNLOAD E4500 – (EFF PRIOR TO 62032)	07-14-1093	Rev. A
TAG AXLE UNLOAD J4500 – (EFF PRIOR TO 62032)	07-14-6319	Rev. A
W		
WCL E4500 – (EFF PRIOR TO 62032)	07-14-1014	Rev. A
WCL J4500 – (EFF PRIOR TO 62032)	07-14-6318	Rev. B
Page 2 of 2	07-14-6318	Rev. B
WCL MUX E/J MODELS – (EFF W/ 62032)	07-14-1315	Rev. C
Page 2 of 2	07-14-1315	Rev. C
WIPER CONTROL E/J MODELS – (EFF W/ 62032)	07-14-1274	Rev. B

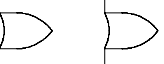
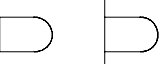
ELECTRICAL SCHEMATICS – E/J MODELS

DESCRIPTION	DWG. NO	.....	REV.
W			
WIPER CONTROL J4500 – (EFF PRIOR TO 62032)	07-14-6305	.....	Rev. B
Page 2 of 2	07-14-6305	.....	Rev. B
WIPERS E4500 – (EFF PRIOR TO 62032)	07-14-1018	.....	Rev. D
Page 2 of 2	07-14-1018	.....	Rev. D
WTEC E4500 – (EFF W/ 60001 THRU 60074)	07-14-1005	.....	Rev. A
Page 2 of 2	07-14-1005	.....	Rev. A
WTEC 3 E4500 – (EFF W/ 60075 THRU 62031)	07-14-1059	.....	Rev. B
Page 2 of 2	07-14-1059	.....	Rev. B

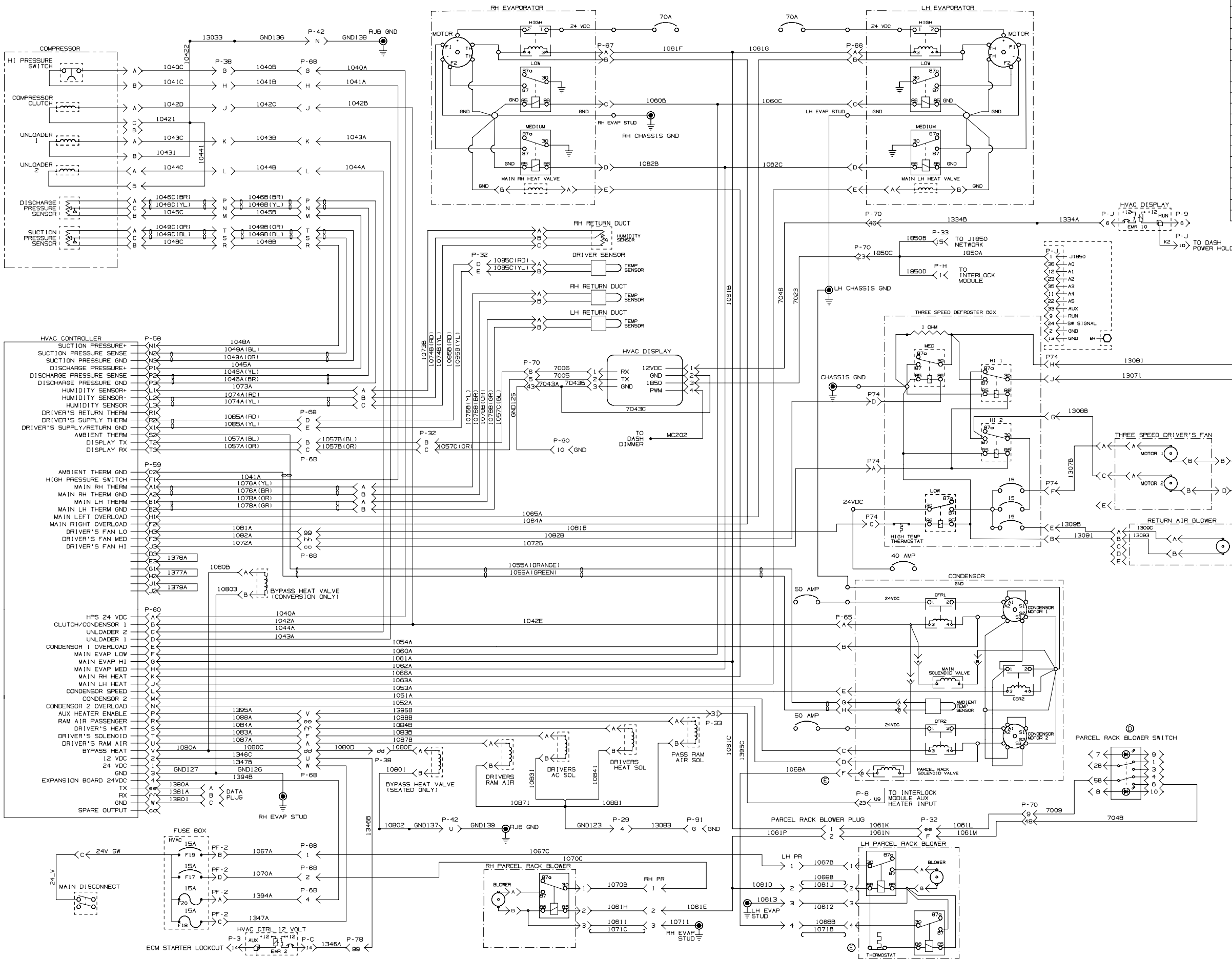
DESCRIPTION	DWG. NO	.....	REV.
W			
WTEC 3 J4500 – (EFF PRIOR TO 62032)	07-14-6308	.....	Rev. A
WTEC 3, MUX E/J MODELS – (EFF W/ 62032)	07-14-1285	.....	Rev. A
Z			
ZF TRANS E/J MODELS – (EFF W/ 62032 THRU 63810)	07-14-1292	.....	Rev. A
ZF TRANS E/J MODELS – (EFF W/ 63810)	07-14-1292	.....	Rev. E
ZF TRANS E/J MODELS – (EFF W/ 63811)	07-14-2577	.....	Rev. A



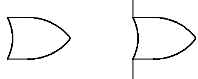
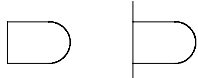
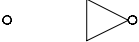


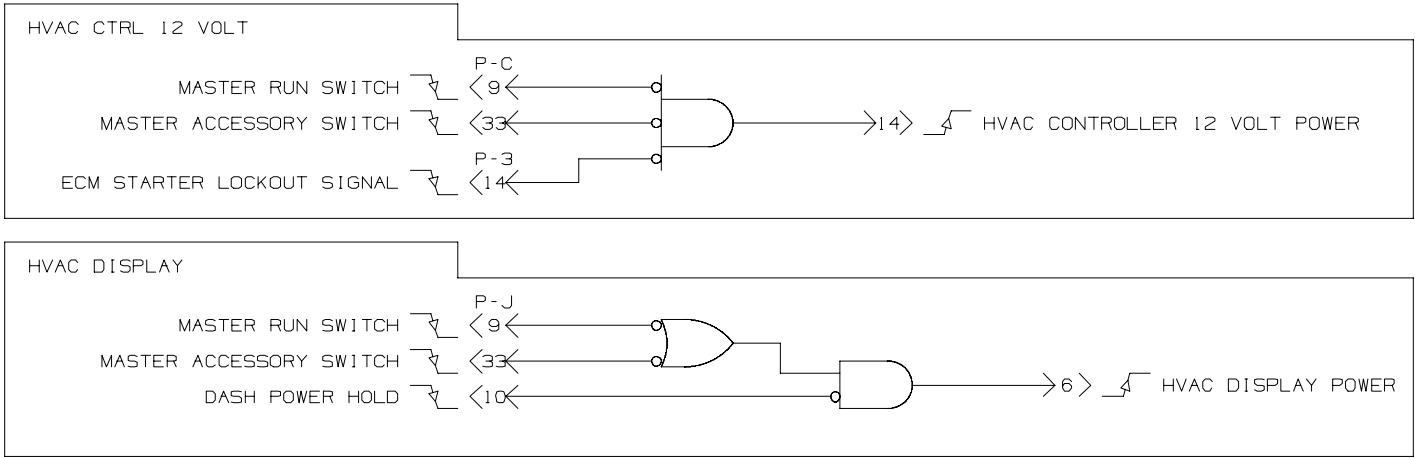
SYMBOL	MEANING
	OR
	AND
	NOT (INVERT)
	ACTIVE HIGH
	ACTIVE LOW

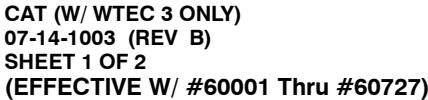
PLUG	SIZE	LOCATION
P-3	36 WAY	MODULE BOX #3 BAGG CMPT
P-9	36 WAY	FRONT J BOX
P-8	36 WAY	FRONT J BOX
P-29	4-28 WAY	FRONT J BOX
P-32	4-28 WAY	FRONT J BOX
P-33	48 WAY	FRONT J BOX
P-38	4-28 WAY	ENGINE CMPT
P-42	4-28 WAY	REAR J BOX
P-58	27 WAY	BATTERY CMPT
P-59	30 WAY	BATTERY CMPT
P-60	4-28 WAY	BATTERY CMPT
P-65	12 WAY	CONDENSOR CMPT
P-66	12 WAY	LH EVAPORATOR
P-67	12 WAY	RH EVAPORATOR
P-68	4-28 WAY	CTR TUNNEL AT FUEL TANK
P-70	48 WAY	FRONT J BOX
P-74	12 WAY	RH HEADLIGHT
P-C	36 WAY	MODULE BOX #3 BAGG CMPT
P-J	36 WAY	FRONT J BOX



HVAC
07-14-1002 (REV D)
SHEET 1 OF 2
(EFFECTIVE PRIOR TO #61731)

SYMBOL		MEANING
		OR
		AND
		NOT (INVERT)
		ACTIVE HIGH
		ACTIVE LOW

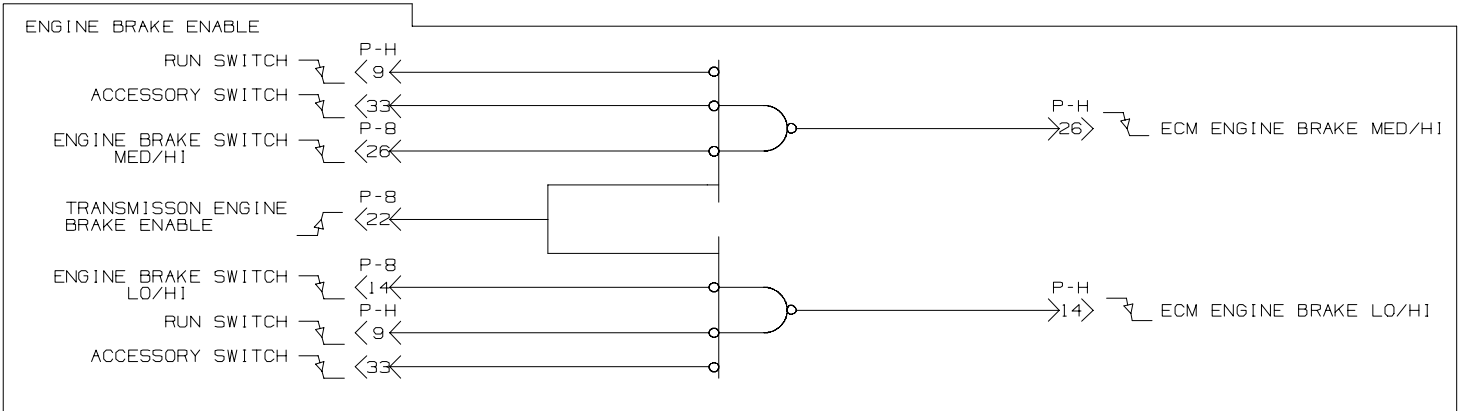
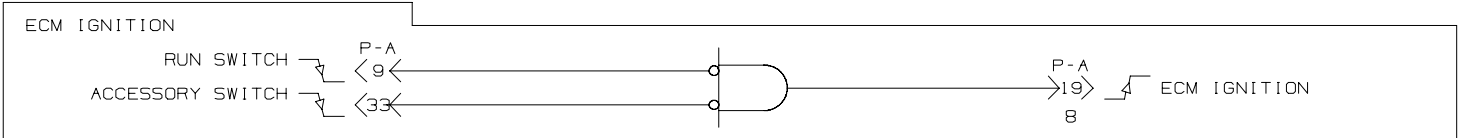
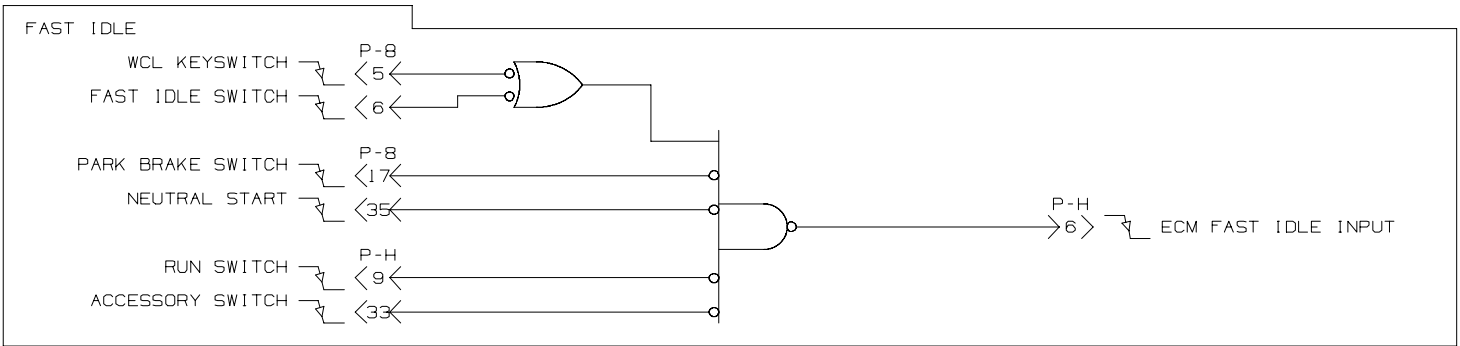


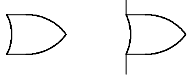
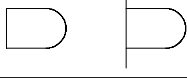
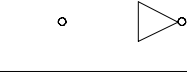


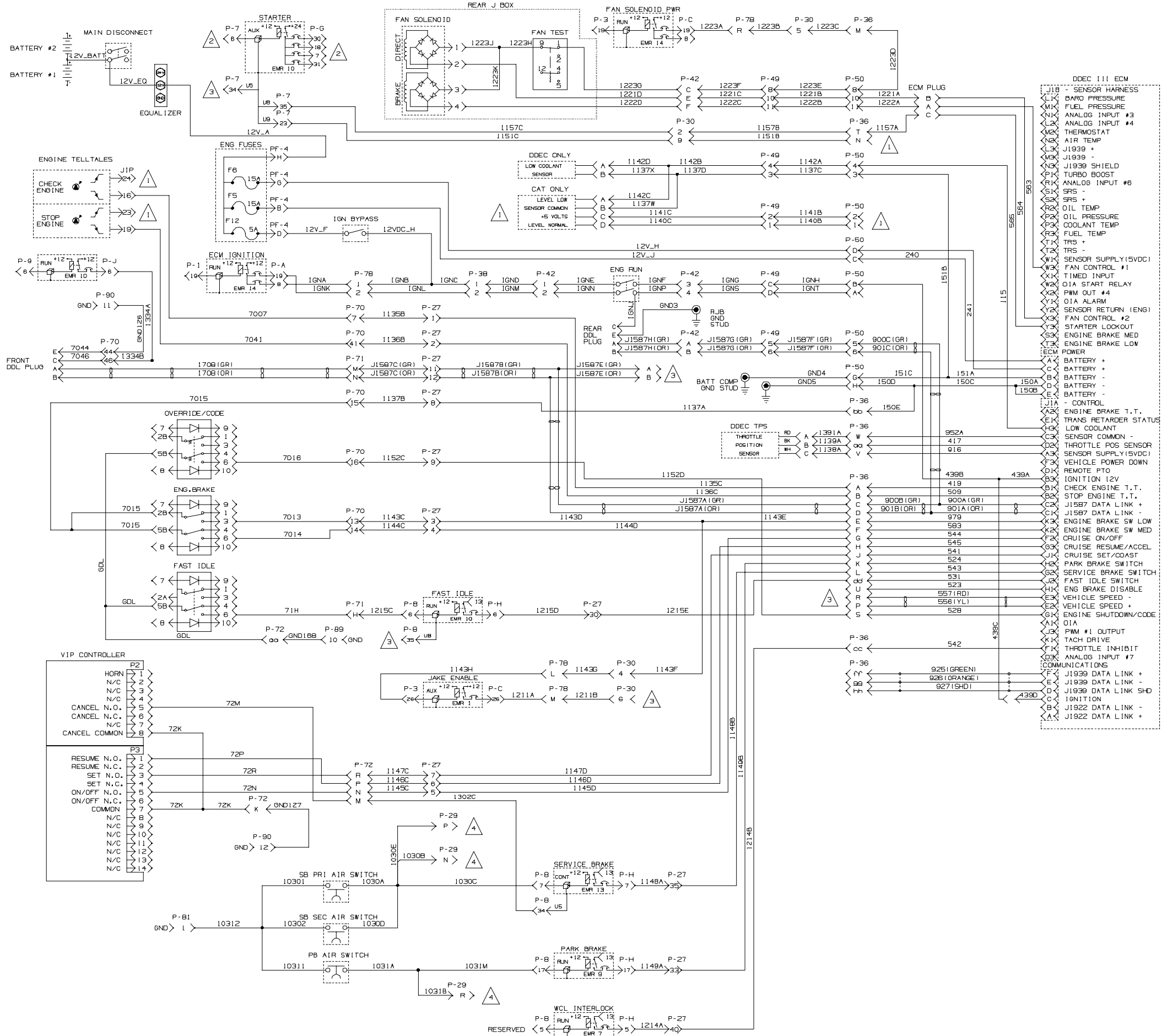
1 REFER TO CHARGING AND STARTING SCHEMATIC.

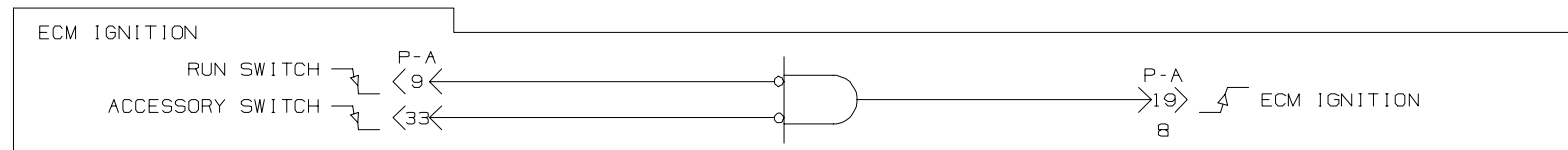
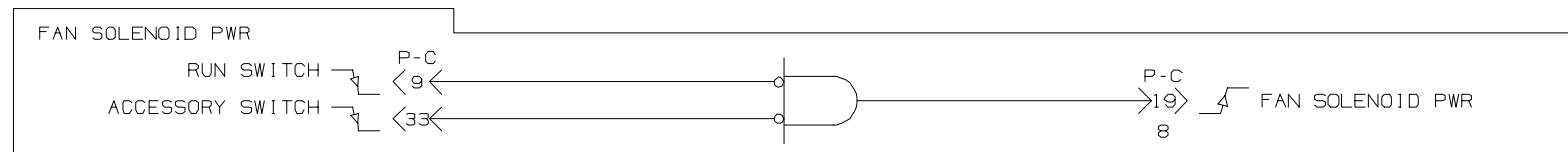
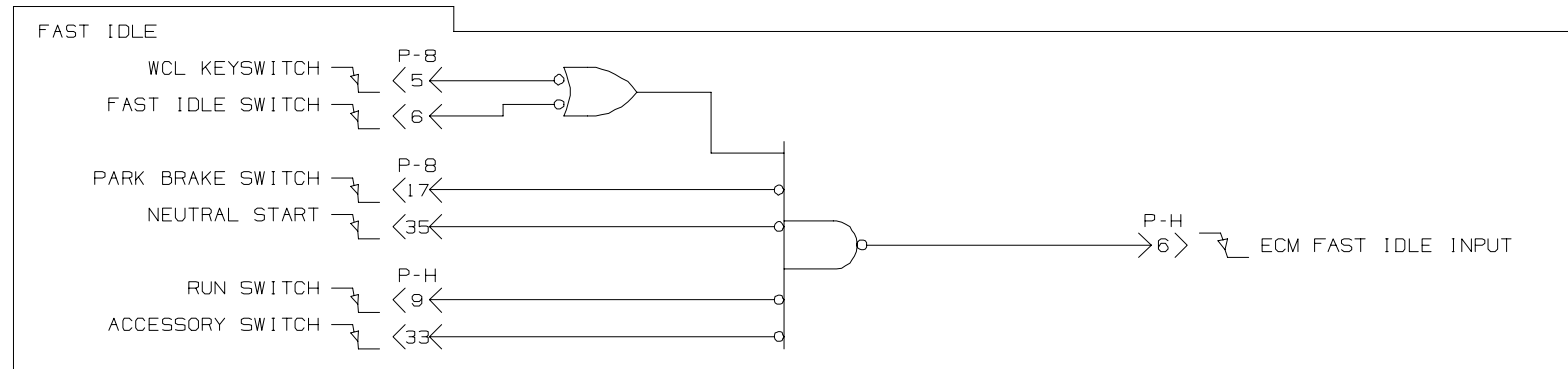
2 REFER TO WTEC SCHEMATIC.

3 REFER TO EXTERIOR LIGHTING SCHEMATIC.



SYMBOL	MEANING
	OR
	AND
	NOT (INVERT)
	ACTIVE HIGH
	ACTIVE LOW





STARTER

REFER TO CHARGING AND STARTING SCHEMATIC

JAKE ENABLE

REFER TO WTEC SCHEMATIC

SERVICE BRAKE

REFER TO EXTERIOR LIGHTING SCHEMATIC

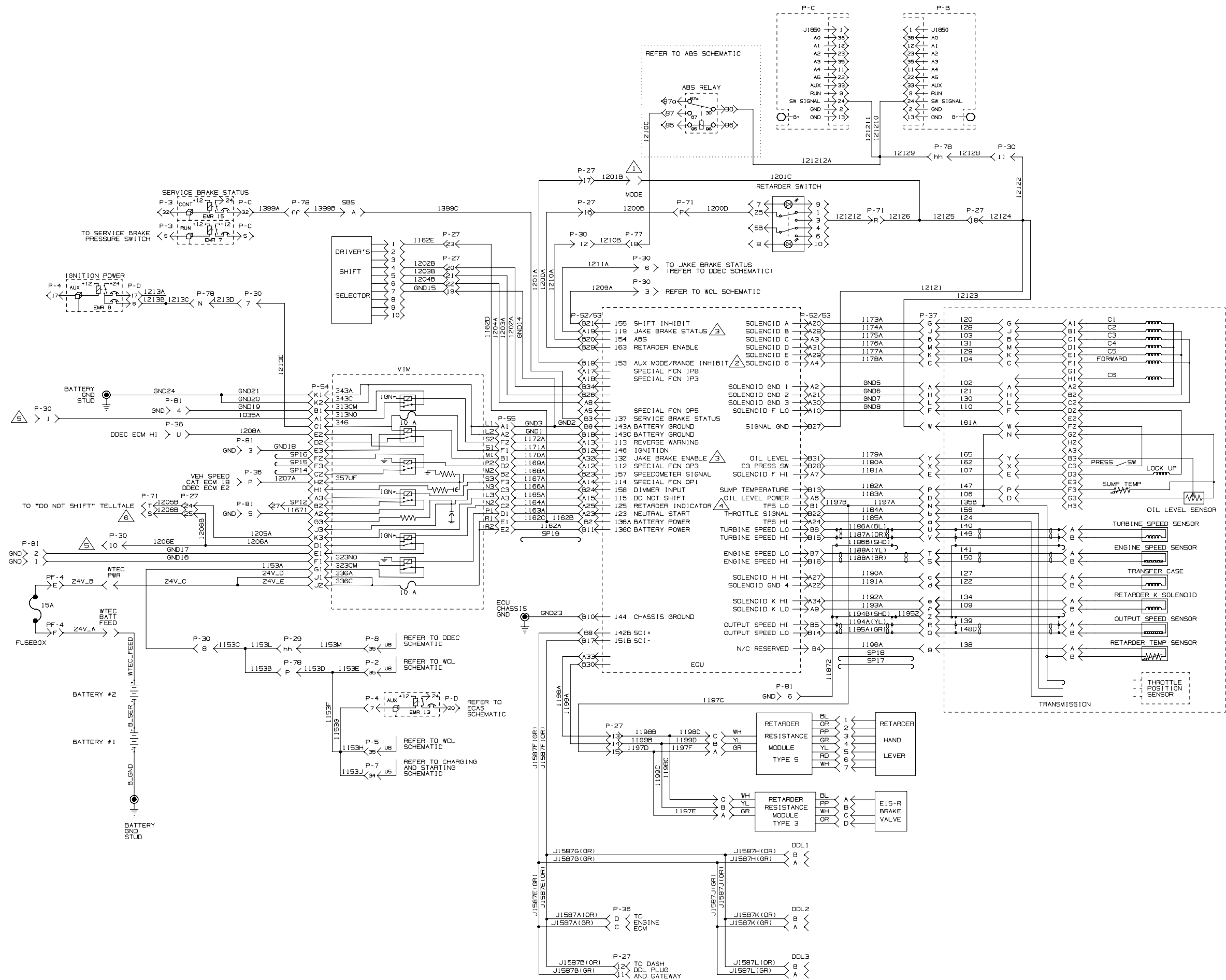
PARK BRAKE

REFER TO EXTERIOR LIGHTING SCHEMATIC

WCL INTERLOCK

REFER TO WHEELCHAIR LIFT SCHEMATIC

SYMBOL	MEANING
 	OR
 	AND
 	NOT (INVERT)
	ACTIVE HIGH
	ACTIVE LOW

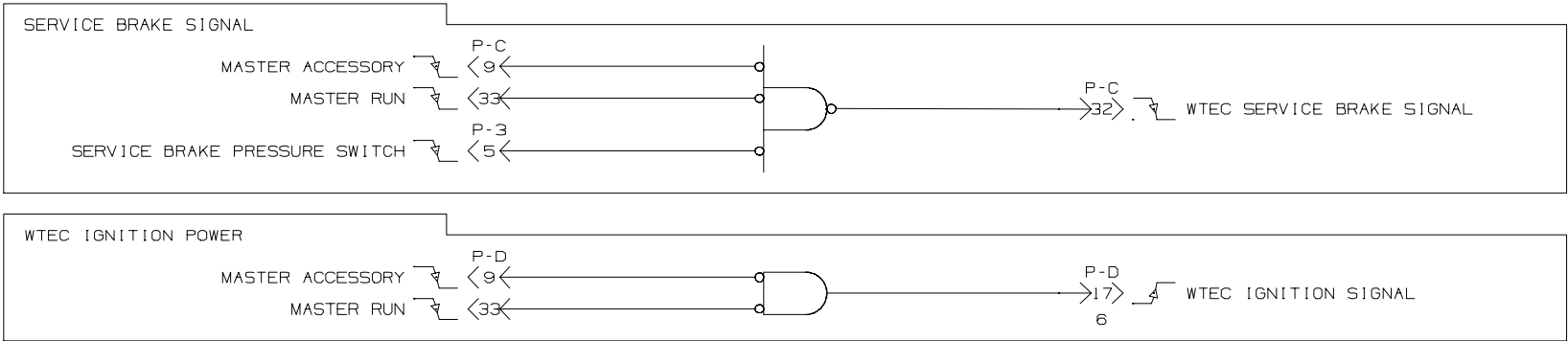


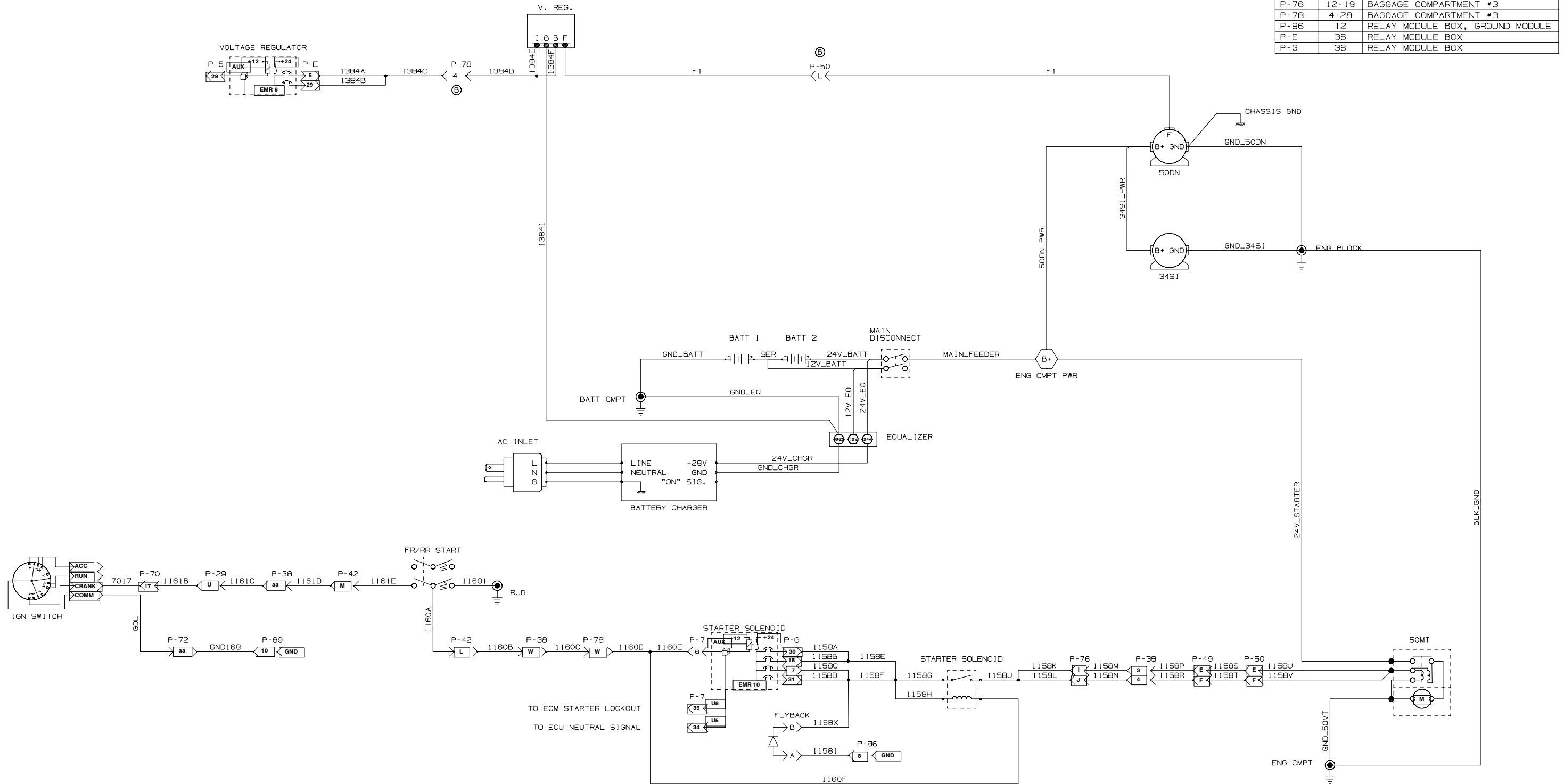
PLUG	SIZE	LOCATION
P-1	36 WAY	RELAY MODULE BOX, #3 BAGGAGE CMPT.
P-4	36 WAY	RELAY MODULE BOX, #3 BAGGAGE CMPT.
P-42	4-28 WAY	ENGINE CMPT.
P-70	48 WAY	FJB
P-71	19 WAY	FJB
P-78	4-28 WAY	BULKHEAD, #3 BAGGAGE CMPT.
P-81	12 WAY	GROUND MODULE, BATTERY COMPARTMENT
P-A	36 WAY	RELAY MODULE BOX, #3 BAGGAGE CMPT.
P-D	36 WAY	RELAY MODULE BOX, #3 BAGGAGE CMPT.

- 1 THIS CONNECTOR NORMALLY SUPPLIED OPEN.
CAL SCHEDULE 64: OPEN - PERFORMANCE MODE
CLOSED - ECONOMY MODE
- 2 THIS INPUT NORMALLY SUPPLIED DISABLED. ENABLE THIS INPUT FOR INSTALLATIONS REQUIRING AN INPUT FOR SECONDARY SHIFT SCHEDULE SELECTION OR RANGE INHIBIT.
- 3 NO FUNCTION WITH B500R INSTALLATION.
- 4 NO FUNCTION WITH JAKE BRAKE INSTALLATION.
- 5 REFER TO EXTERIOR LIGHTING SCHEMATIC.
- 6 NO TELLTALE FUNCTION ON THIS CKT. TELLTALE CONTROLLED VIA J1850 DATALINK. REFER TO ALARMS AND TELLTALES SCHEMATIC.

WTEC
07-14-1005 (REV A)
SHEET 1 OF 2
(EFFECTIVE W/ #60001 Thru #60074)

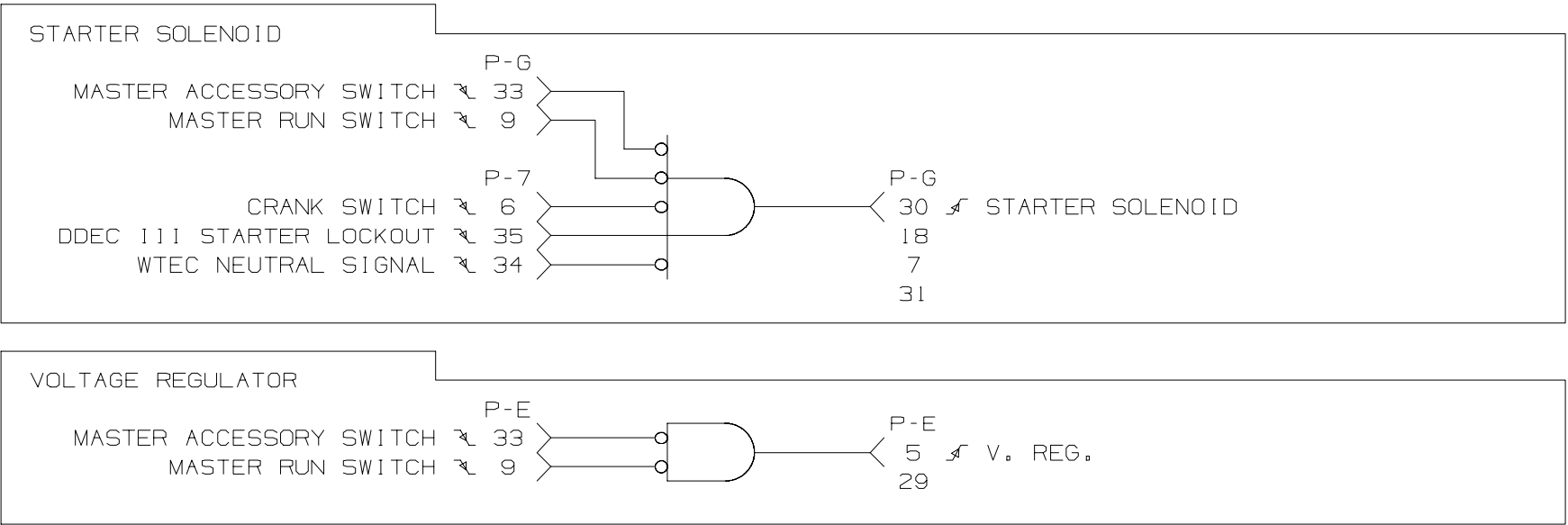
SYMBOL		MEANING
		OR
		AND
		NOT (INVERT)
		ACTIVE HIGH
		ACTIVE LOW

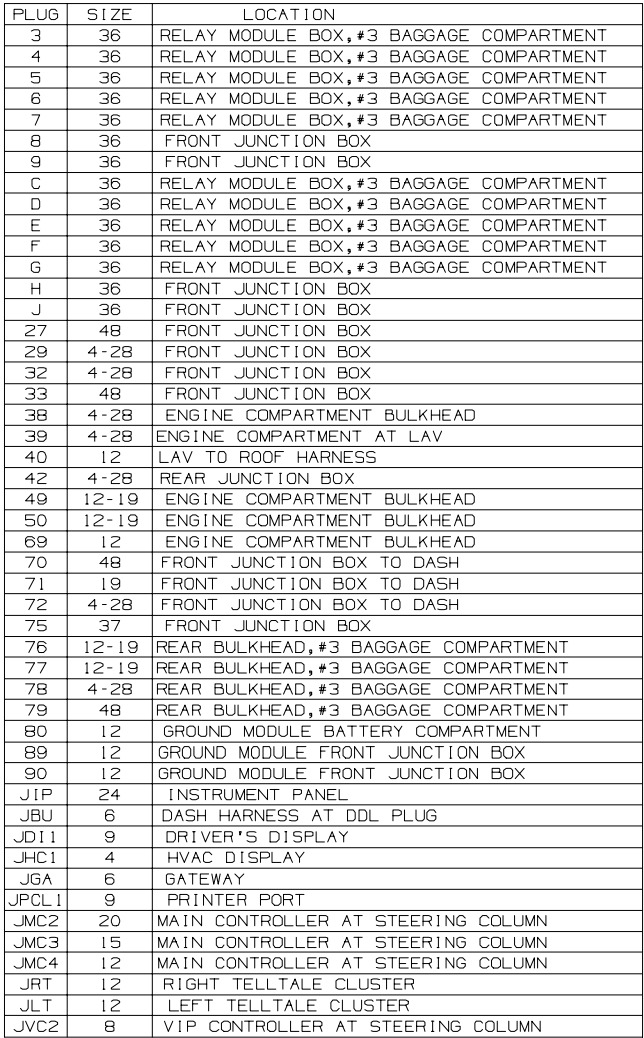




CHARGING & STARTING E4500, DELCO
07-14-1006 (REV B)
SHEET 1 OF 2
(EFFECTIVE PRIOR TO #61554)

SYMBOL		MEANING
		OR
		AND
		NOT (INVERT)
		ACTIVE HIGH
		ACTIVE LOW

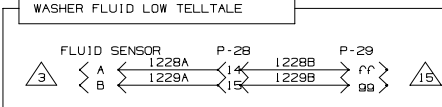
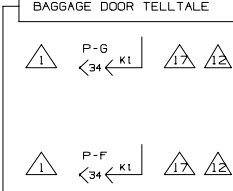
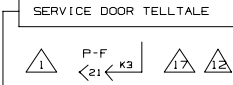
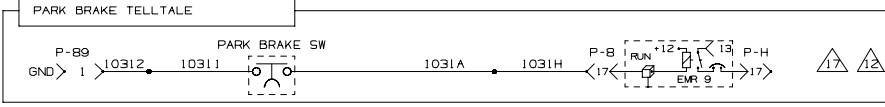
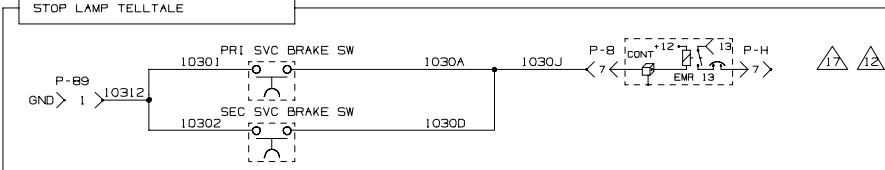
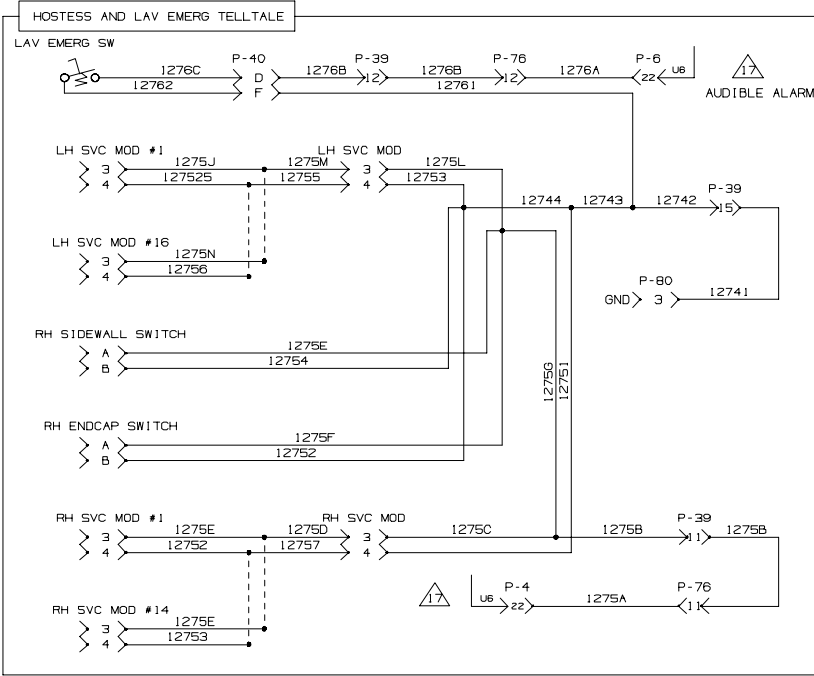
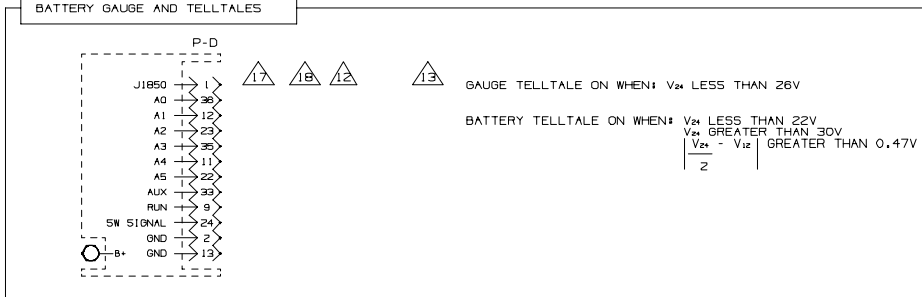
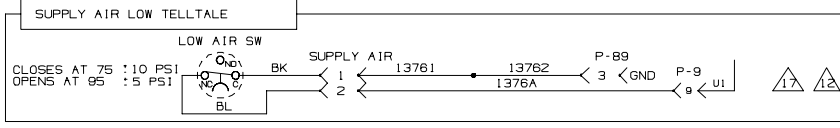
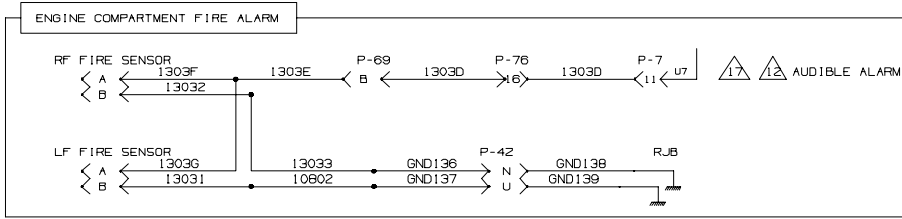
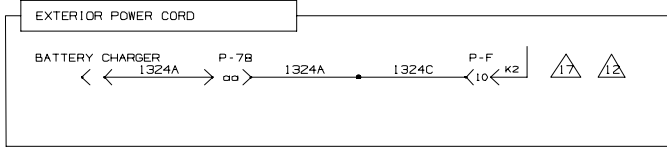
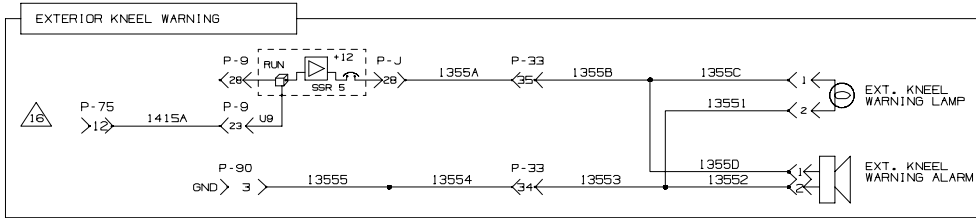
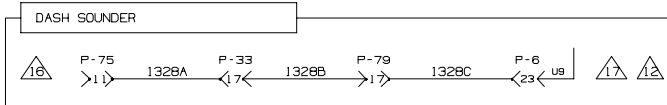
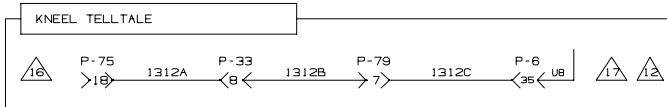
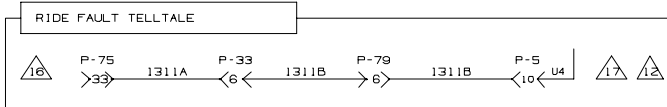
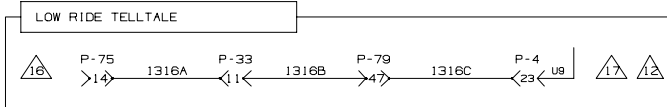
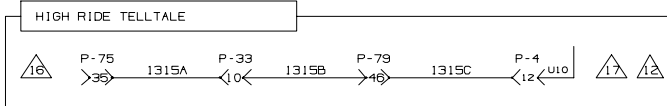




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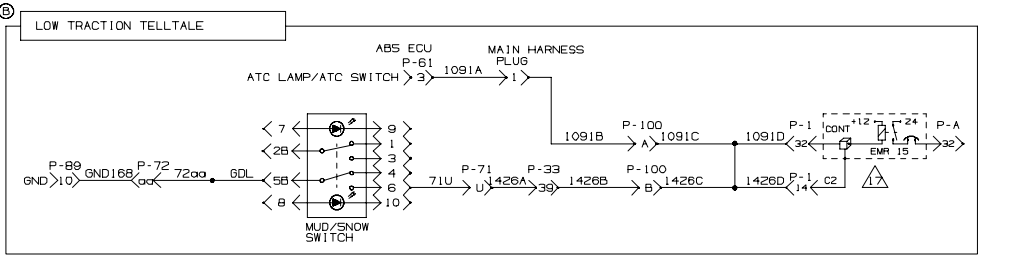
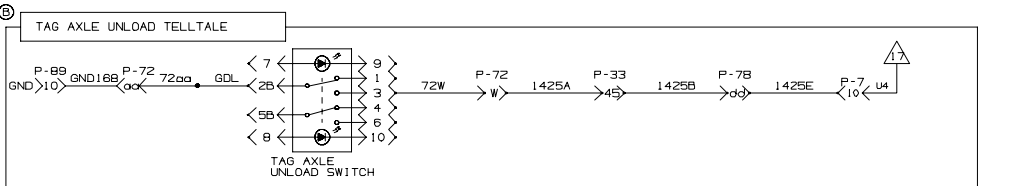
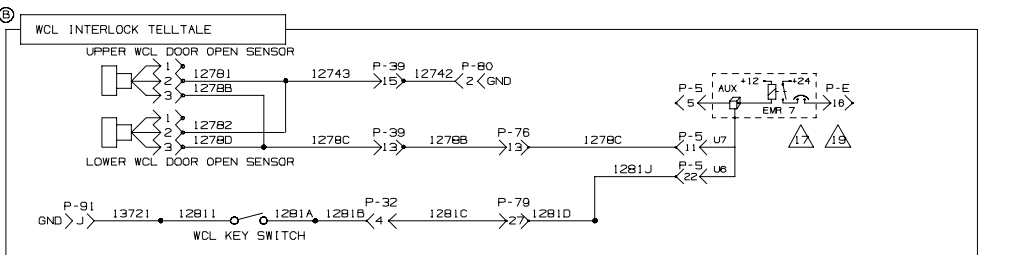
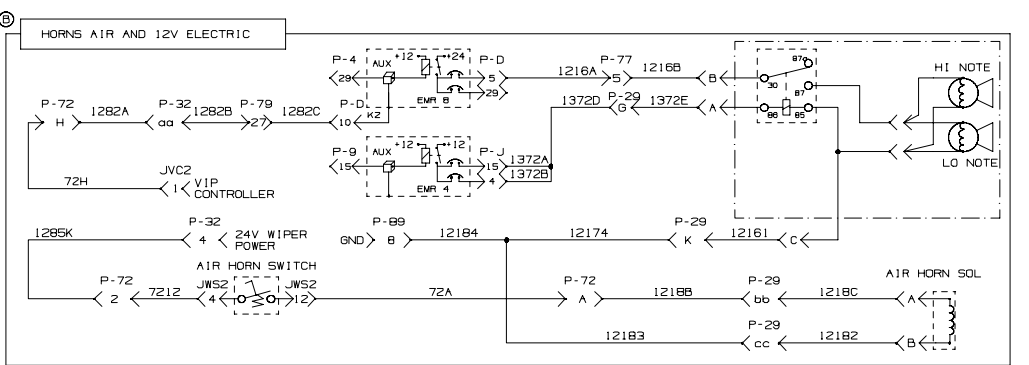
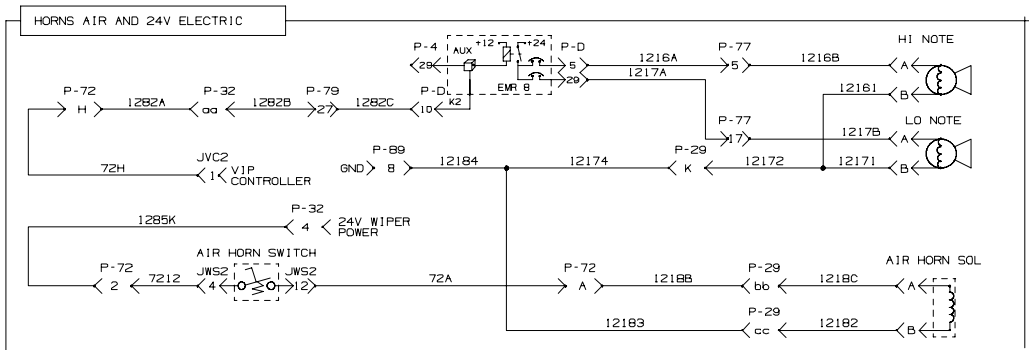
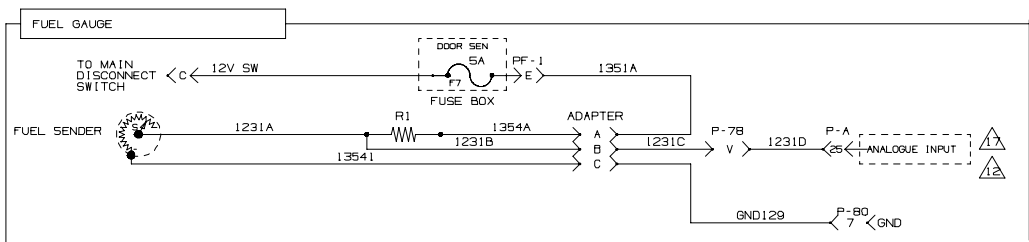
19 INTERNAL CONFIGURATION FOR DIAGNOSTIC PURPOSES ONLY, ALL COMPONENTS NOT SHOWN.

ALARM & TELLTALES (W/ WTEC 3 ONLY)
07-14-1008 (REV B)
SHEET 1 OF 3
(EFFECTIVE PRIOR TO #62032)



PLUG	SIZE	LOCATION
3	36	RELAY MODULE BOX, #3 BAGGAGE COMPARTMENT
4	36	RELAY MODULE BOX, #3 BAGGAGE COMPARTMENT
5	36	RELAY MODULE BOX, #3 BAGGAGE COMPARTMENT
6	36	RELAY MODULE BOX, #3 BAGGAGE COMPARTMENT
7	36	RELAY MODULE BOX, #3 BAGGAGE COMPARTMENT
8	36	FRONT JUNCTION BOX
9	36	FRONT JUNCTION BOX
C	36	RELAY MODULE BOX, #3 BAGGAGE COMPARTMENT
D	36	RELAY MODULE BOX, #3 BAGGAGE COMPARTMENT
E	36	RELAY MODULE BOX, #3 BAGGAGE COMPARTMENT
F	36	RELAY MODULE BOX, #3 BAGGAGE COMPARTMENT
G	36	RELAY MODULE BOX, #3 BAGGAGE COMPARTMENT
H	36	FRONT JUNCTION BOX
J	36	FRONT JUNCTION BOX
27	48	FRONT JUNCTION BOX
29	4-28	FRONT JUNCTION BOX
32	4-28	FRONT JUNCTION BOX
33	48	MAIN HARNESS TO FRONT JUNCTION BOX
38	4-28	MAIN HARNESS ENGINE COMPARTMENT
39	4-28	MAIN HARNESS ENGINE COMPARTMENT
40	12	LAV TO REAR ROOF IN LAV
42	4-28	REAR JUNCTION BOX
49	12-19	POWER FEED HARNESS ENGINE COMPARTMENT
50	12-19	POWER FEED HARNESS ENGINE COMPARTMENT
69	12	MAIN HARNESS ENGINE COMPARTMENT
70	48	FRONT JUNCTION BOX TO DASH
71	19	FRONT JUNCTION BOX TO DASH
72	4-28	FRONT JUNCTION BOX TO DASH
75	37	ECAS ECU FRONT JUNCTION BOX
76	12-19	BULKHEAD REAR #3 BAGGAGE COMPARTMENT
77	12-19	BULKHEAD REAR #3 BAGGAGE COMPARTMENT
78	4-28	BULKHEAD REAR #3 BAGGAGE COMPARTMENT
79	48	BULKHEAD REAR #3 BAGGAGE COMPARTMENT
80	12	GROUND MODULE BATTERY COMPARTMENT
89	12	GROUND MODULE FRONT JUNCTION BOX
90	12	GROUND MODULE FRONT JUNCTION BOX
J1P	24	INSTRUMENT PANEL
JBU	6	DASH HARNESS AT DDL PLUG
JD11	9	DRIVER'S DISPLAY
JHC1	4	HVAC DISPLAY
JGA	6	GATEWAY
JPCL1	9	PRINTER PORT
JMC2	20	MAIN DASH CONTROLLER AT STEERING COLUMN
JMC3	15	MAIN DASH CONTROLLER AT STEERING COLUMN
JMC4	12	MAIN DASH CONTROLLER AT STEERING COLUMN
JRT	12	RIGHT TELLTALE ASSY
JLT	12	LEFT TELLTALE ASSY
JVC2	8	VIP CONTROLLER AT STEERING COLUMN

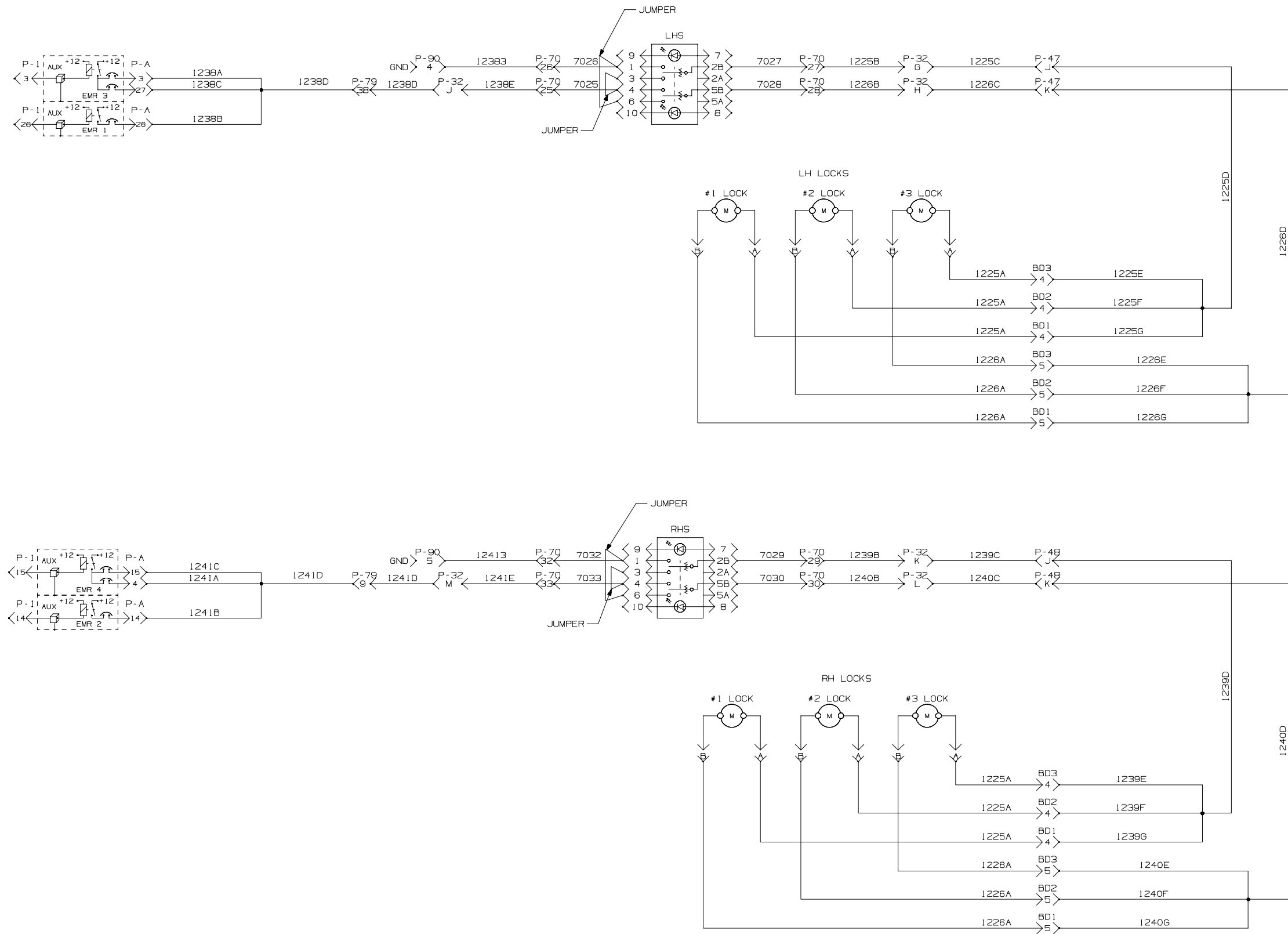
- 1 REFER TO SERVICE LIGHT SCHEMATIC
- 2 REFER TO ENTRANCE DOOR SCHEMATIC
- 3 NO SENSOR
- 4 GAUGE CONTROLLED BY DDEC VIA J1587 AND J1850 DATALINKS
- 5 REFER TO AUX HEAT SCHEMATIC
- 6 TELLTALE CONTROLLED BY WTEC VIA J1587 AND J1850 DATALINKS
- 7 TELLTALE CONTROLLED BY DDEC VIA J1587 AND J1850 DATALINKS
- 8 REFER TO DDEC SCHEMATIC
- 9 REFER TO ABS SCHEMATIC
- 10 REFER TO EXTERIOR LIGHT SCHEMATIC
- 11 REFER TO WTEC SCHEMATIC
- 12 SEE SHEET 3
- 13 "ON" THRESHOLD A FUNCTION OF INSTRUMENT PANEL FIRMWARE
- 14 GAUGE CONTROLLED BY WTEC VIA J1587 AND J1850 DATALINKS
- 15 NO CONNECTION, RESERVED FOR FUTURE USE
- 16 REFER TO ECAS SCHEMATIC
- 17 STATUS BROADCAST ON J1850 DATALINK
- 18 GAUGE CONTROLLED BY RELAY MODULE VIA J1850 DATALINK

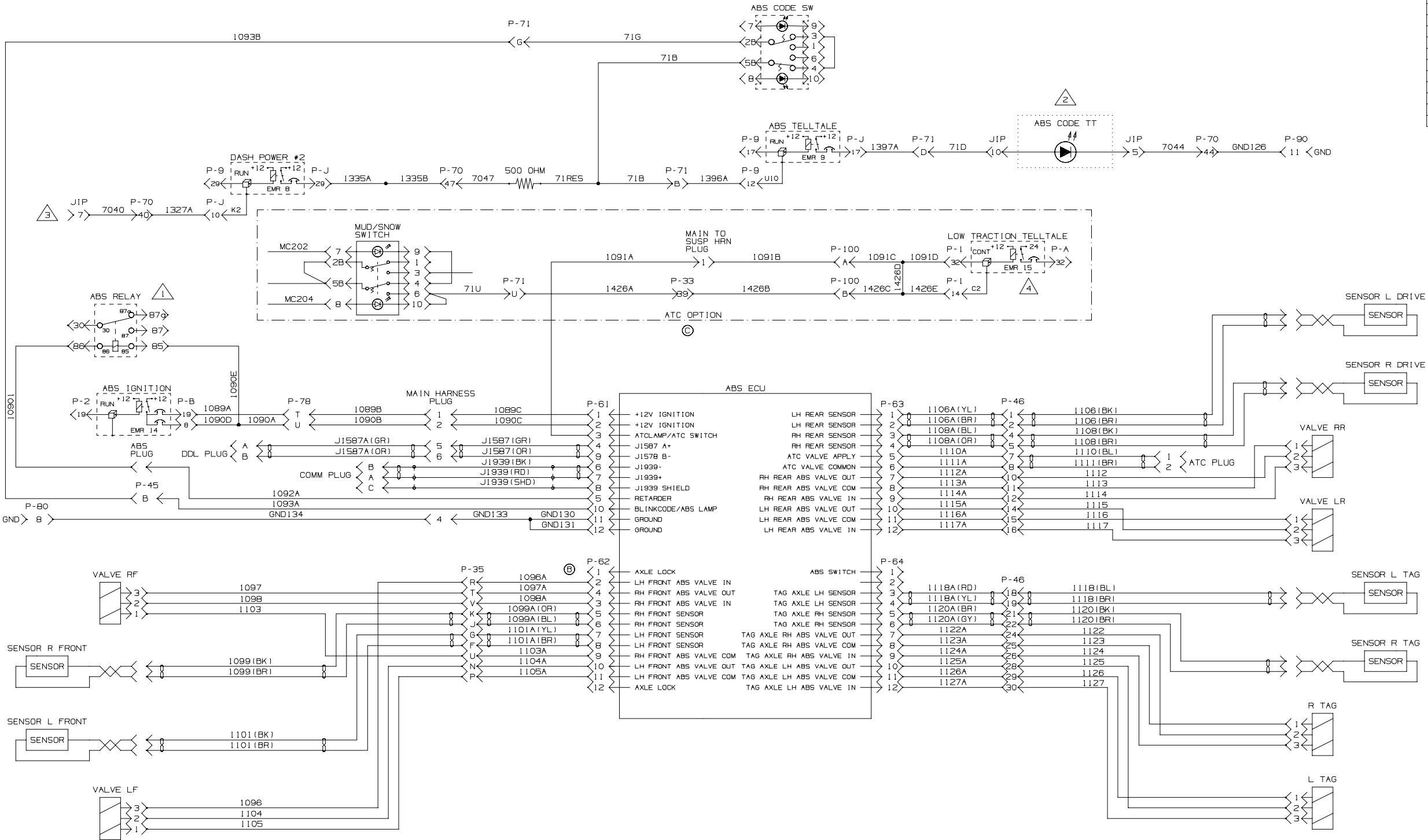


1	REFER TO SERVICE LIGHT SCHEMATIC
2	REFER TO ENTRANCE DOOR SCHEMATIC
3	NO SENSOR
4	GAUGE CONTROLLED BY DDEC VIA J1587 AND J1850 DATALINKS
5	REFER TO AUX HEAT SCHEMATIC
6	TELLTALE CONTROLLED BY WTEC VIA J1587 AND J1850 DATALINKS
7	TELLTALE CONTROLLED BY DDEC VIA J1587 AND J1850 DATALINKS
8	REFER TO DDEC SCHEMATIC
9	REFER TO ABS SCHEMATIC
10	REFER TO EXTERIOR LIGHT SCHEMATIC
11	REFER TO WTEC SCHEMATIC
12	SEE SHEET 3
13	"ON" THRESHOLD A FUNCTION OF INSTRUMENT PANEL FIRMWARE
14	GAUGE CONTROLLED BY WTEC VIA J1587 AND J1850 DATALINKS
15	NO CONNECTION, RESERVED FOR FUTURE USE
16	REFER TO ECAS SCHEMATIC
17	STATUS BROADCAST ON J1850 DATALINK
18	GAUGE CONTROLLED BY RELAY MODULE VIA J1850 DATALINK
19	REFER TO WCL SCHEMATIC

2007

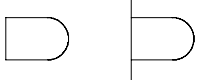
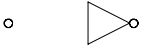
BAGGAGE LOCKS
07-14-1009 (REV A)
SHEET 1 OF 1
(EFFECTIVE PRIOR TO #62032)

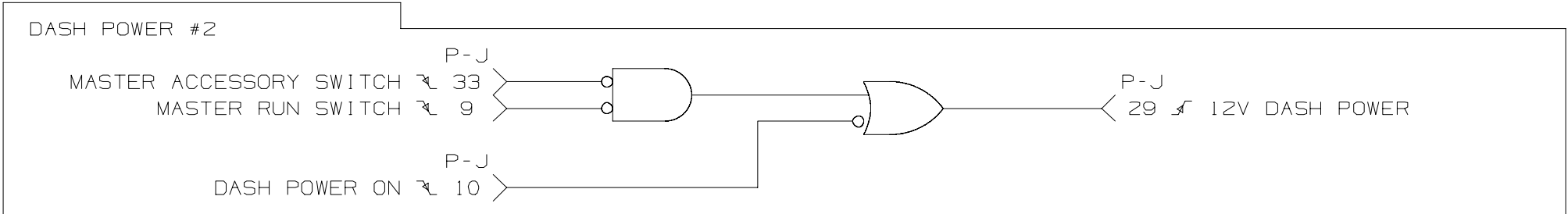
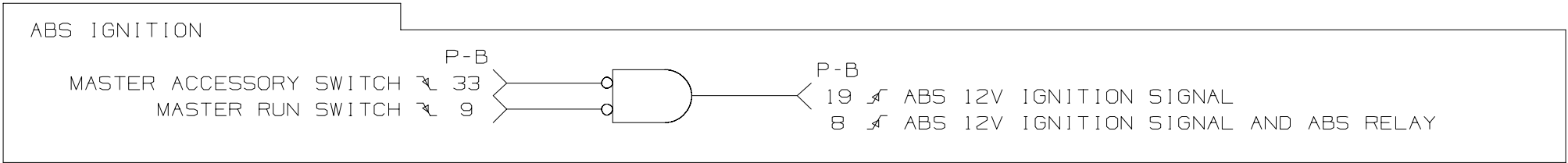
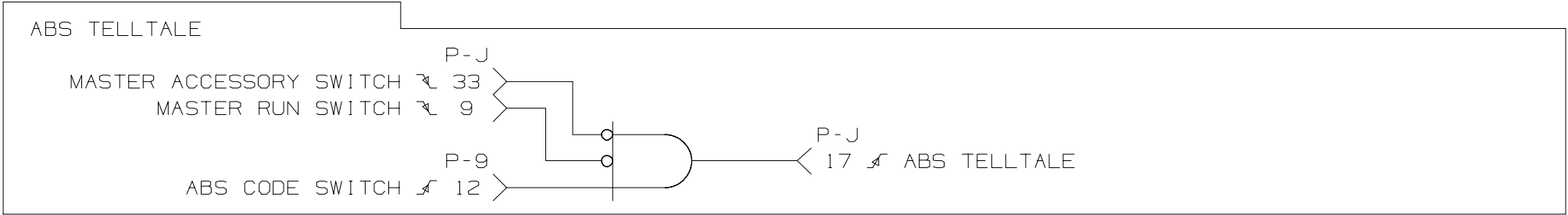




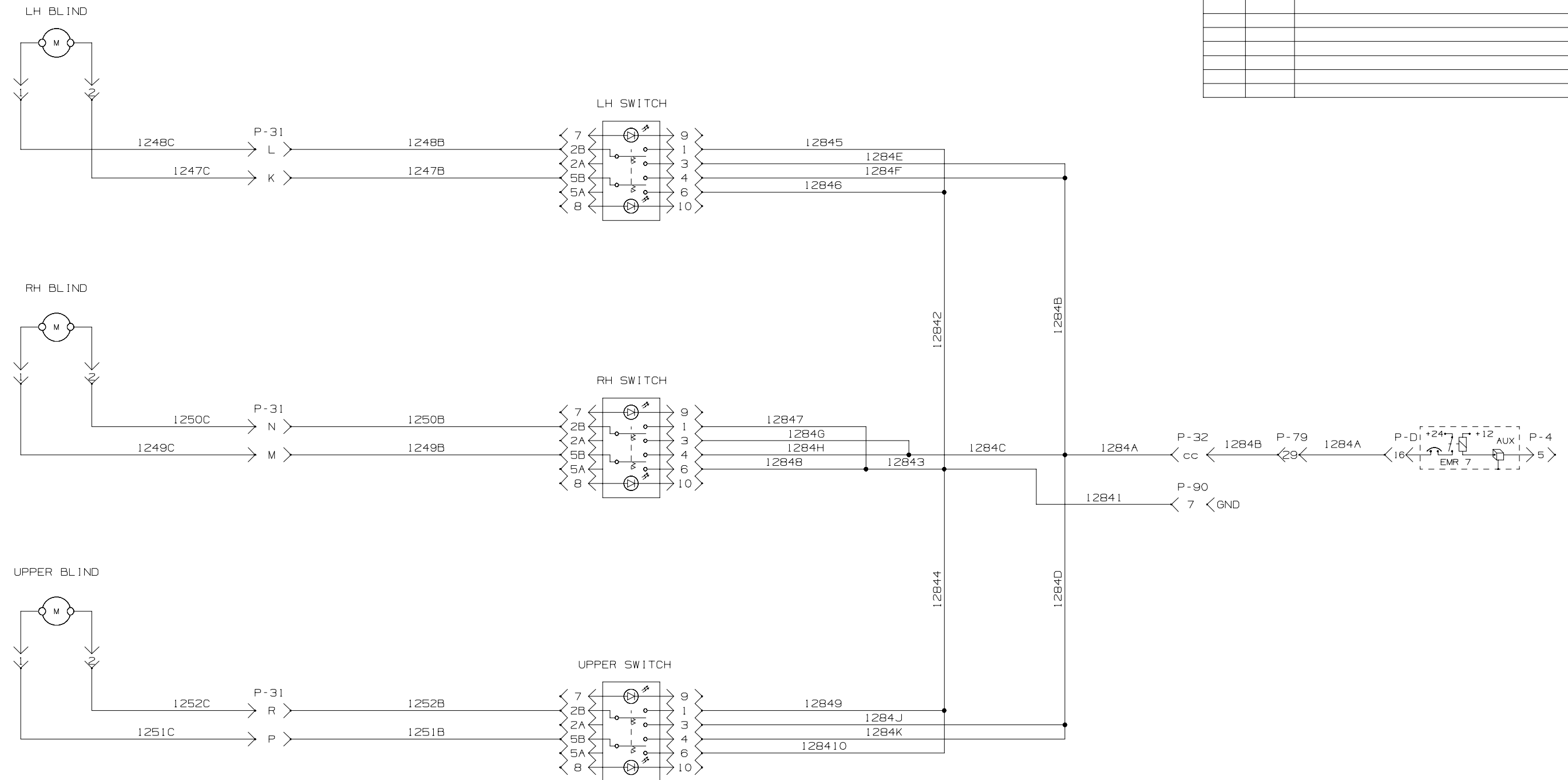
PLUG	SIZE	LOCATION
P-2	36 WAY	MODULE BOX
P-9	36 WAY	FRONT J BOX
P-30	12 WAY	CTR TUNNEL FT OF FUEL TANK
P-35	19 WAY	FRONT BULKHEAD PANEL
P-45	4-28 WAY	FRONT J BOX
P-46	48 WAY	REAR BULKHEAD PANEL
P-61	12 WAY	CTR TUNNEL FT OF FUEL TANK
P-62	12 WAY	CTR TUNNEL FT OF FUEL TANK
P-63	12 WAY	CTR TUNNEL FT OF FUEL TANK
P-64	12 WAY	CTR TUNNEL FT OF FUEL TANK
P-70	48 WAY	FRONT J BOX TO DASH
P-71	19 WAY	FRONT J BOX TO DASH
P-77	12-19 WAY	REAR OF #3 BAGGAGE BAY
P-78	4-28 WAY	REAR OF #3 BAGGAGE BAY
P-80	12 WAY	BATTERY COMPARTMENT
P-90	12 WAY	FRONT J BOX
P-B	36 WAY	MODULE BOX
P-C	36 WAY	MODULE BOX
P-J	36 WAY	FRONT J BOX
P-JIP	24 WAY	INSTRUMENT PANEL, REAR

- 1 REFER TO WTEC SCHEMATIC.
- 2 TELLTALE SHOWN FOR REFERENCE ONLY. INSTRUMENT PANEL INTERNAL CIRCUITRY NOT SHOWN.
- 3 FEEDBACK SIGNAL FROM DASH USED TO MAINTAIN POWER DURING POWER DOWN SEQUENCE.
- 4 STATUS BROADCAST ON J1850 DATA LINK.

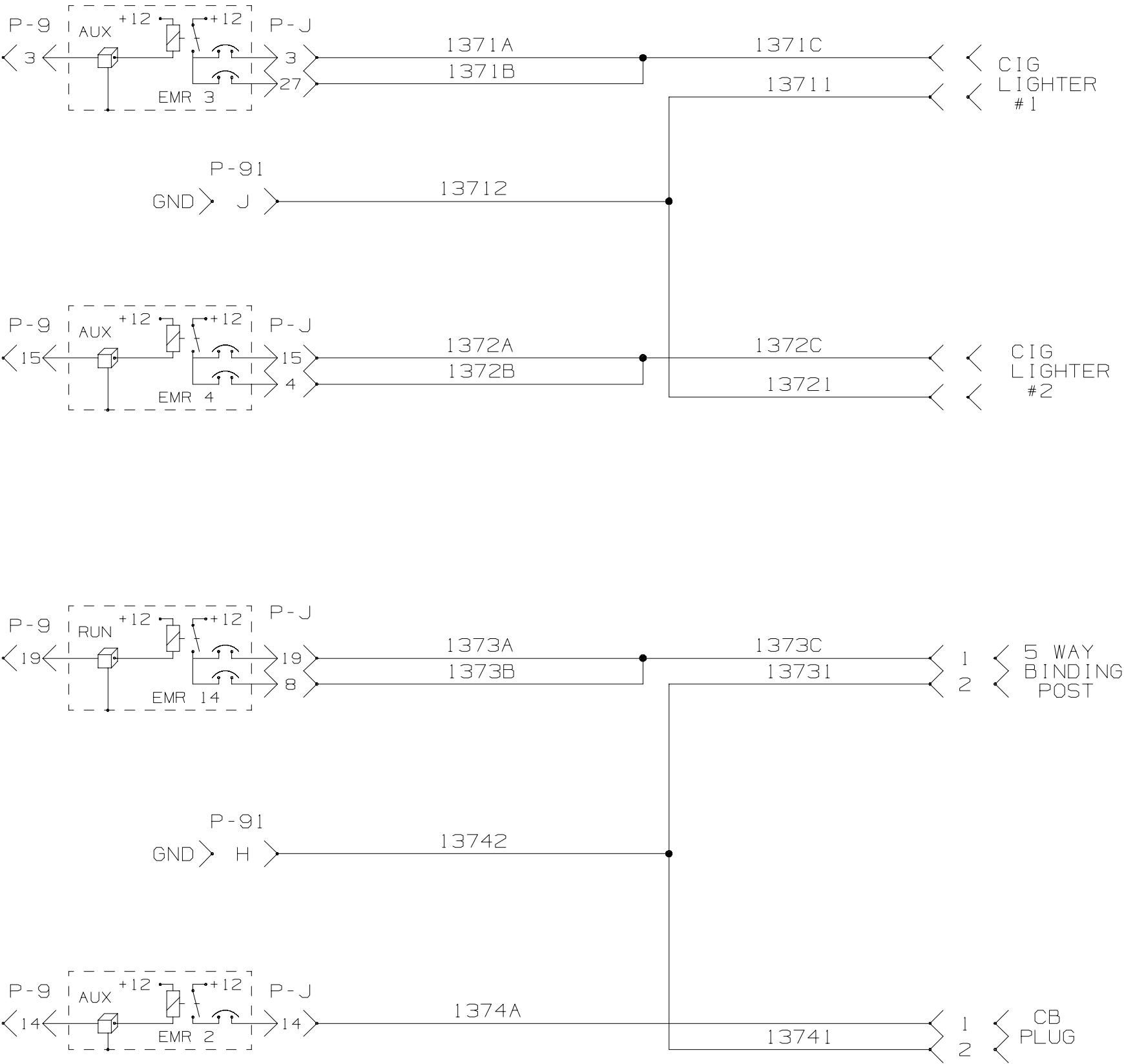
SYMBOL	MEANING
	OR
	AND
	NOT (INVERT)
	ACTIVE HIGH
	ACTIVE LOW



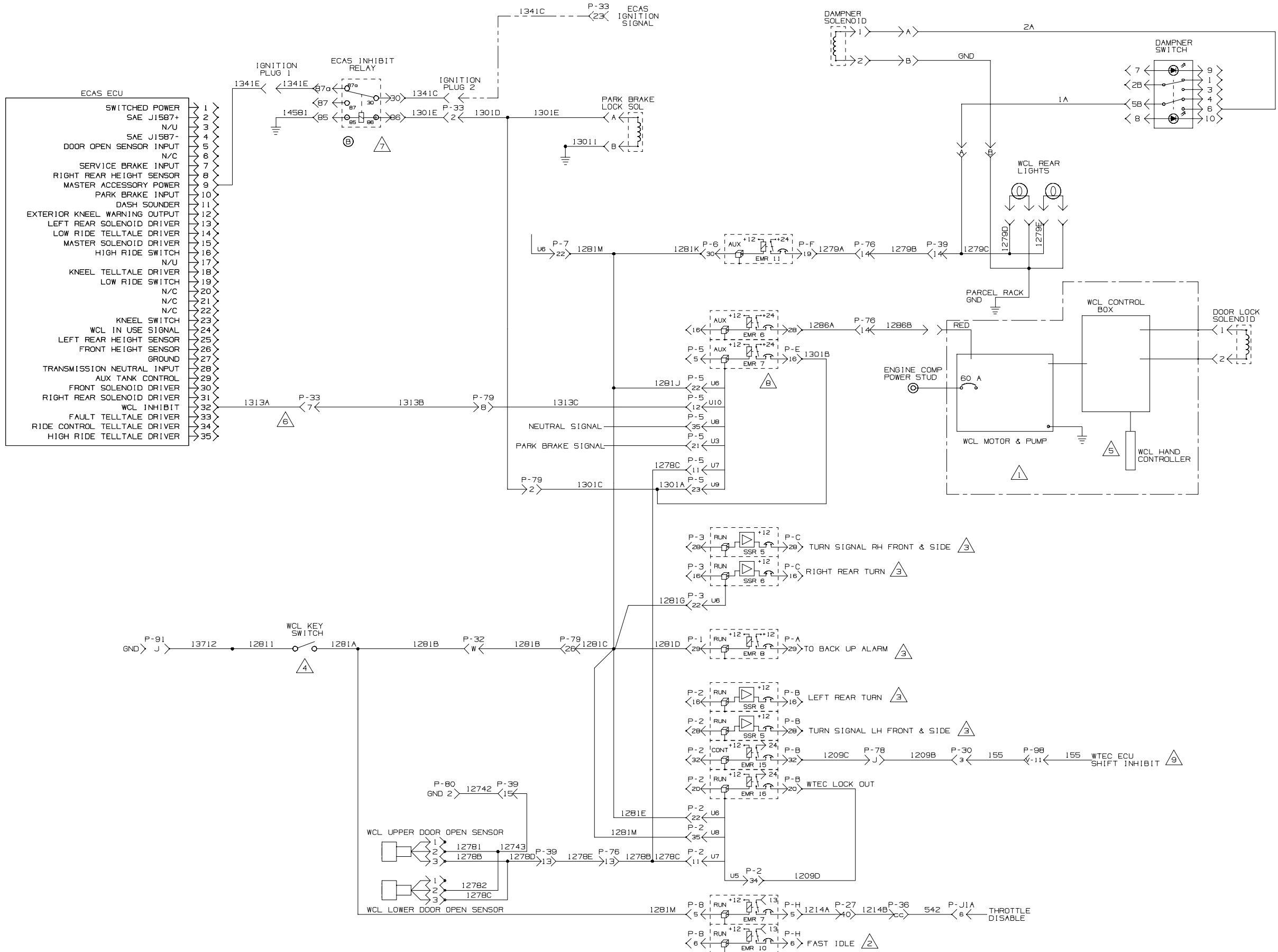
BLINDS
07-14-1011 (REV A)
SHEET 1 OF 1
(EFFECTIVE PRIOR TO #62032)



PLUG	SIZE	LOCATION
P-9	36	FRONT JUNCTION BOX
P-J	36	FRONT JUNCTION BOX
P-91	12	FRONT JUNCTION BOX

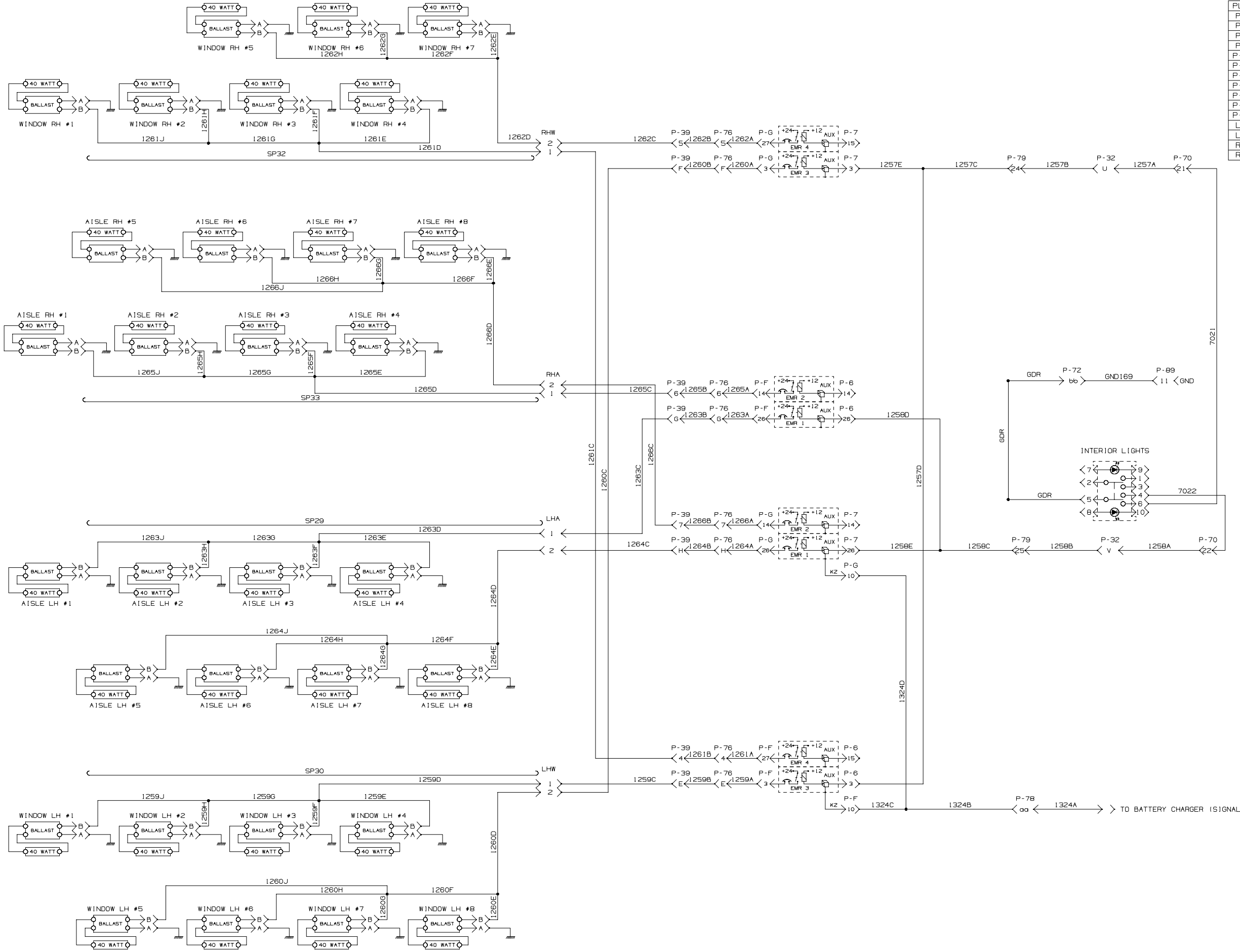


DRIVER'S ACCESS PANEL
07-14-1013 (REV A)
SHEET 1 OF 1
(EFFECTIVE PRIOR TO #62032)



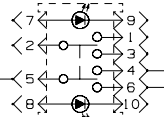
PLUG	SIZE	LOCATION
P-1	36 WAY	MOD BOX #3 BAGGAGE COMPT
P-2	36 WAY	MOD BOX #3 BAGGAGE COMPT
P-3	36 WAY	MOD BOX #3 BAGGAGE COMPT
P-5	36 WAY	MOD BOX #3 BAGGAGE COMPT
P-6	36 WAY	MOD BOX #3 BAGGAGE COMPT
P-8	36 WAY	FRONT JUNCTION BOX
P-27	48 WAY	FRONT JUNCTION BOX
P-30	12 WAY	ABOVE FUEL TANK
P-32	4-2B WAY	FRONT JUNCTION BOX
P-33	4B WAY	FRONT JUNCTION BOX
P-36	4-2B WAY	ENGINE COMPT
P-39	4-2B WAY	ENGINE COMPT
P-76	12-19 WAY	#3 BAGGAGE COMPT
P-78	12-19 WAY	#3 BAGGAGE COMPT
P-79	4B WAY	#3 BAGGAGE COMPT
P-80	12 WAY	BATTERY COMPT
P-91	9 WAY	FRONT JUNCTION BOX
P-98	24 WAY	BATTERY COMPT
P-A	36 WAY	MOD BOX #3 BAGGAGE COMPT
P-B	36 WAY	MOD BOX #3 BAGGAGE COMPT
P-C	36 WAY	MOD BOX #3 BAGGAGE COMPT
P-E	36 WAY	MOD BOX #3 BAGGAGE COMPT
P-F	36 WAY	MOD BOX #3 BAGGAGE COMPT
P-H	36 WAY	FRONT JUNCTION BOX
IGN 1	1 WAY	FRONT JUNCTION BOX
IGN 2	1 WAY	FRONT JUNCTION BOX

- 1 SEE S&S MANUAL FOR SERVICE
- 2 SEE DDEC SCHEMATIC
- 3 SEE EXTERIOR LIGHTING SCHEMATIC
- 4 KEY CAN ONLY BE REMOVED IN THE ON POSITION
- 5 KEY CAN ONLY BE REMOVED IN THE OFF POSITION
- 6 LIFT CANNOT BE OPERATED IN HIGH RIDE
- 7 COACH RIDE HEIGHT CANNOT BE CHANGED WHEN LIFT IS ON
- 8 WCL INTERLOCK T.T. BROADCAST ON J1850 DATALINK
- 9 AUX FUNCTION RANGE INHIBIT WHEN THIS FUNCTION IS SELECTED NEUTRAL TO RANGE SHALL BE INHIBITED WHEN WCL IS IN USE. USE PRO-LINK TO TURN FUNCTION ON.



PLUG	SIZE	LOCATION
P-6	36 WAY	RELAY MODULE BOX#3 BAGGAGE CMPT
P-7	36 WAY	RELAY MODULE BOX#3 BAGGAGE CMPT
P-F	36 WAY	RELAY MODULE BOX#3 BAGGAGE CMPT
P-G	36 WAY	RELAY MODULE BOX#3 BAGGAGE CMPT
P-32	4-28 WAY	FRONT JUNCTION BOX
P-39	4-28 WAY	ENGINE CMPT AT LOWER LAV
P-70	48 WAY	FRONT JUNCTION BOX
P-72	4-28 WAY	FRONT JUNCTION BOX
P-76	12-19 WAY	RH#3 BAGGAGE CMPT BULKHEAD
P-79	48 WAY	RH#3 BAGGAGE CMPT BULKHEAD
P-89	12 WAY	FRONT JUNCTION BOX
LHA	6 WAY	LH REAR P.R. AT AISLE LIGHTS
LHW	6 WAY	LH REAR P.R. AT WINDOW LIGHTS
RHA	6 WAY	RH REAR P.R. AT AISLE LIGHTS
RHW	6 WAY	RH REAR P.R. AT WINDOW LIGHTS

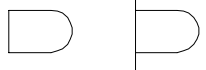
INTERIOR LIGHTS

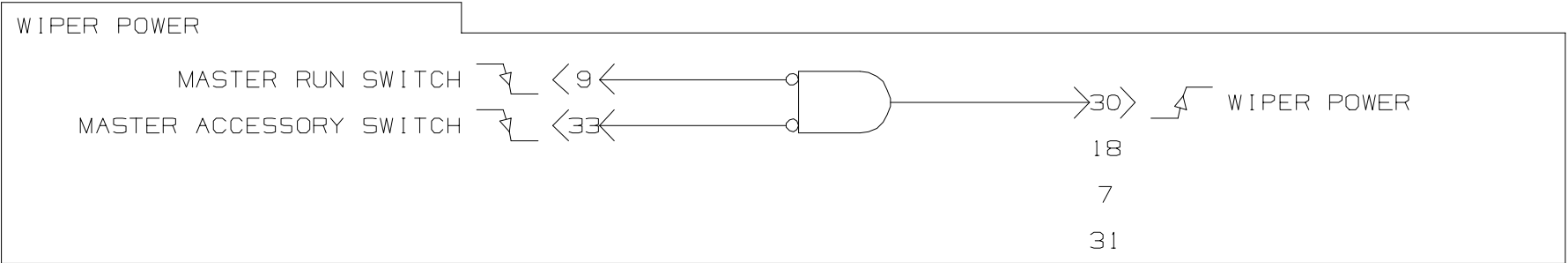


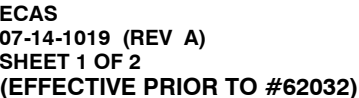
INTERIOR LIGHTS
07-14-1017 (REV A)
SHEET 1 OF 2
(EFFECTIVE PRIOR TO #62032)



INTERIOR LIGHTS
07-14-1017 (REV A)
SHEET 2 OF 2
(EFFECTIVE PRIOR TO #62032)

SYMBOL		MEANING
		OR
		AND
		NOT (INVERT)
		ACTIVE HIGH
		ACTIVE LOW



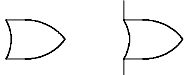
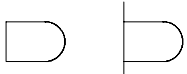
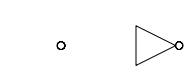


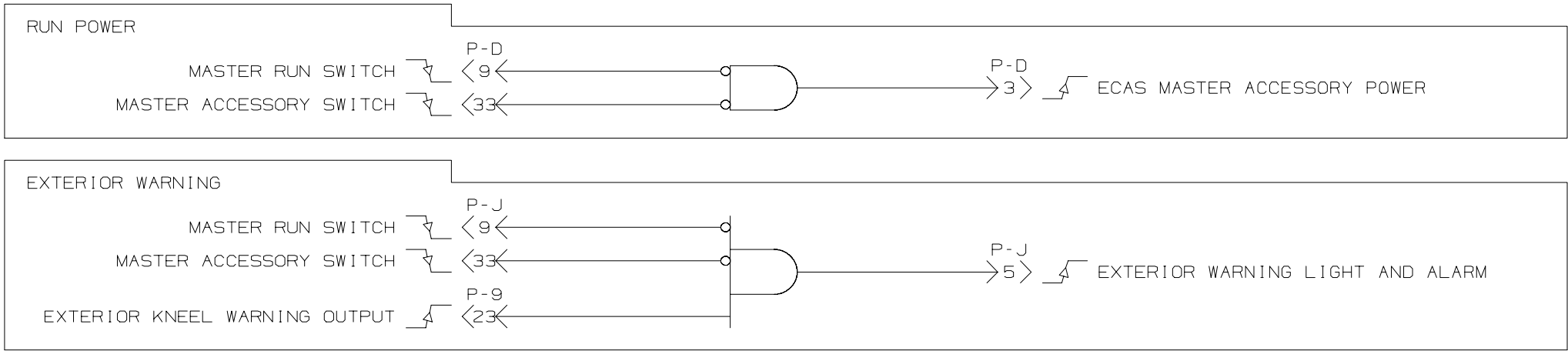
1 REFER TO EXTERIOR LIGHTING SCHEMATIC.

2 REFER TO WTEC SCHEMATIC.

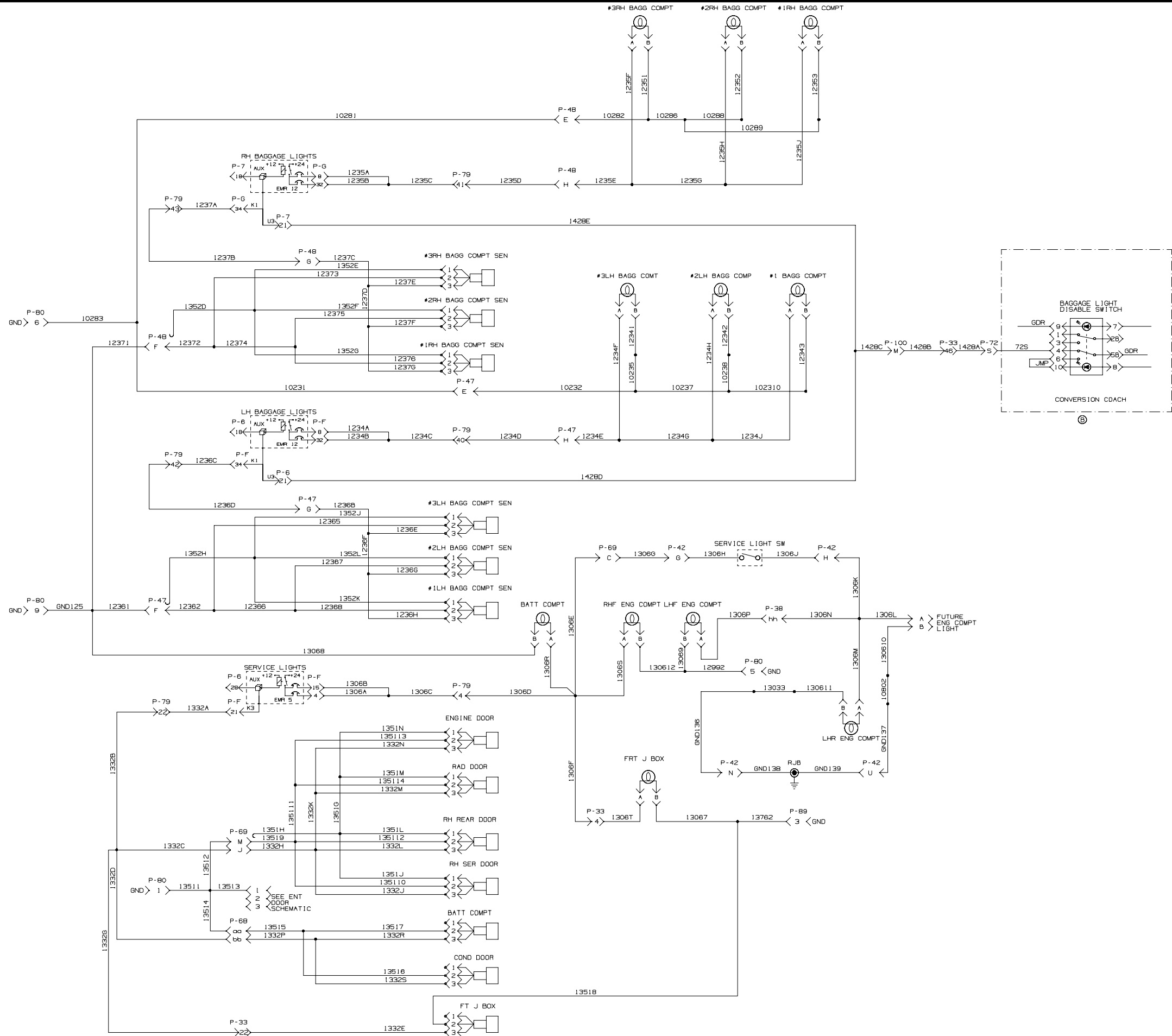
3 REFER TO ENTRANCE DOOR SCHEMATIC.

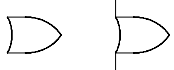
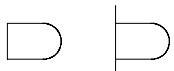
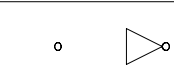
4 REFER TO ALARMS AND TELLTALES SCHEMATIC.

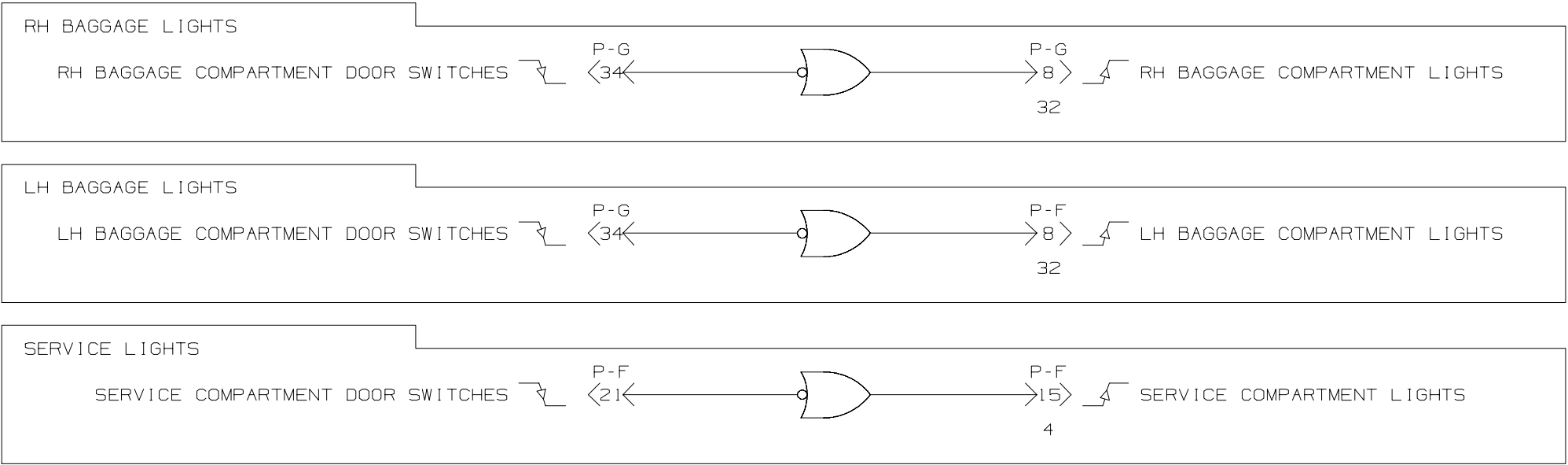
SYMBOL		MEANING
		OR
		AND
		NOT (INVERT)
		ACTIVE HIGH
		ACTIVE LOW



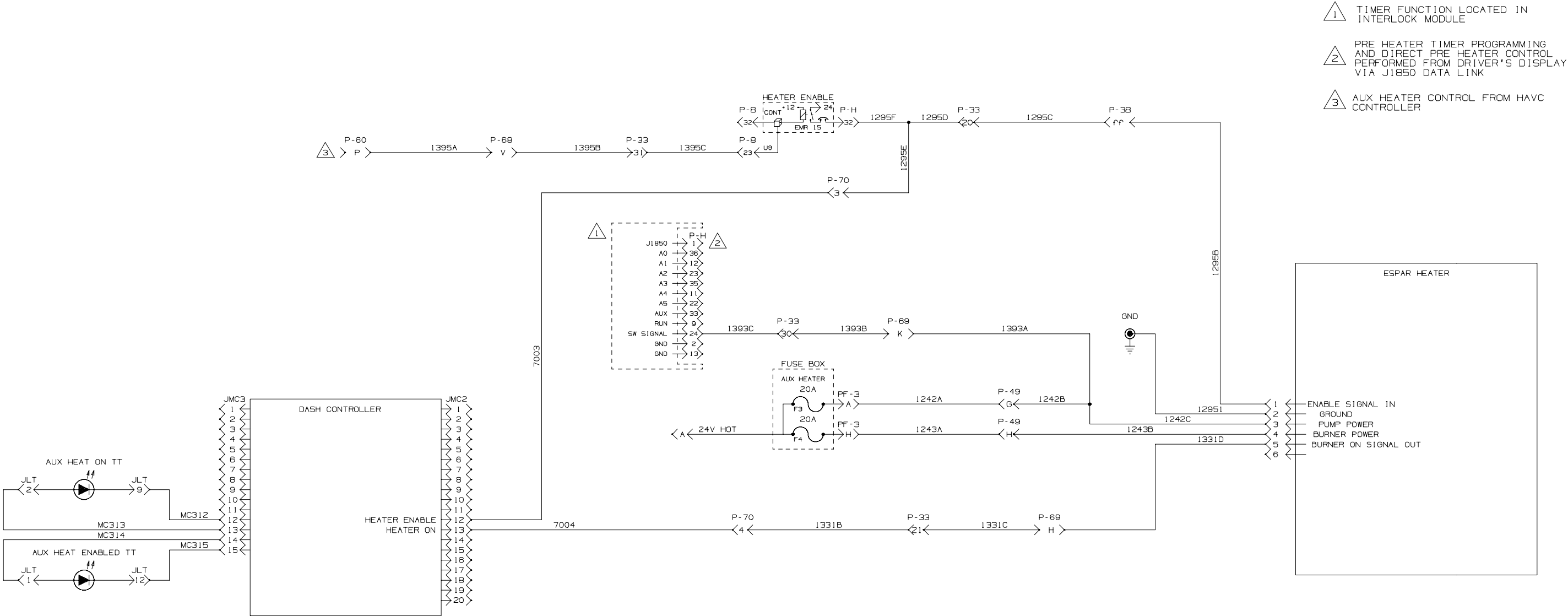
PLUG	SIZE	LOCATION
P-6	36 WAY	MODULE BOX #3 BAGGAGE BAY
P-7	36 WAY	MODULE BOX #3 BAGGAGE BAY
P-F	36 WAY	MODULE BOX #3 BAGGAGE BAY
P-G	36 WAY	MODULE BOX #3 BAGGAGE BAY
P-33	48 WAY	FRONT J BOX
P-38	4-28 WAY	ENGINE COMPT RH
P-42	4-28 WAY	REAR REMOTE J BOX
P-47	12 WAY	#3 LH BAGGAGE BAY
P-48	12 WAY	#3 RH BAGGAGE BAY
P-68	4-28 WAY	CENTER TUNNEL ABOVE
P-69	12 WAY	CENTER TUNNEL #3 BAG BAY
P-80	12 WAY	BATTERY COMPT
P-89	12 WAY	FRONT J BOX



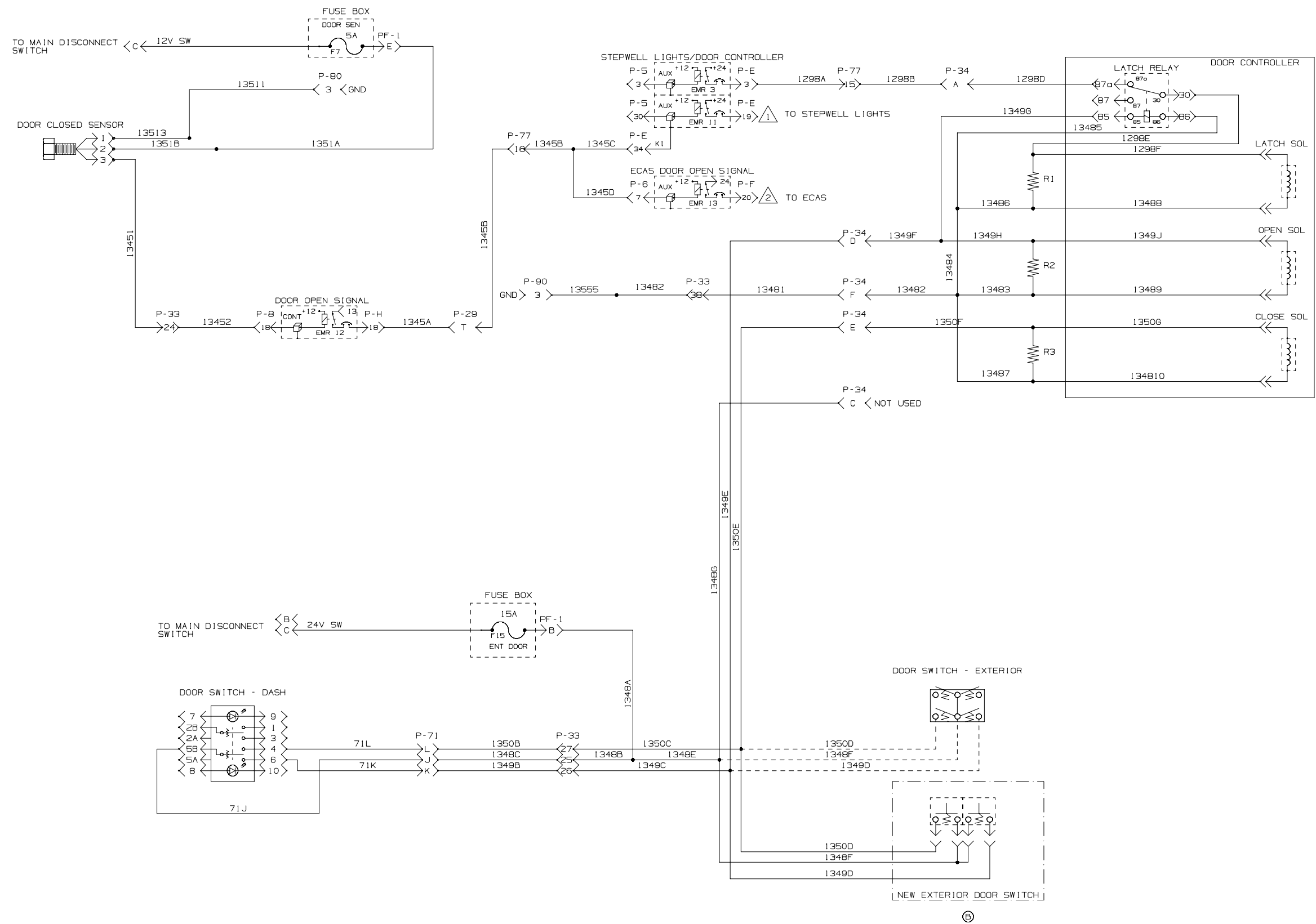
SYMBOL	MEANING
	OR
	AND
	NOT (INVERT)
	ACTIVE HIGH
	ACTIVE LOW



PLUG	SIZE	LOCATION
P-8	36 WAY	FRONT JUNCTION BOX
P-F	8 WAY	BATTERY COMPARTMENT
P-H	36 WAY	FRONT JUNCTION BOX
P-33	48 WAY	FRONT JUNCTION BOX
P-38	4-28 WAY	ENGINE COMPARTMENT
P-49	12-19 WAY	ENGINE COMPARTMENT
P-60	4-28 WAY	BATTERY COMPARTMENT
P-68	4-28 WAY	#3 BAGGAGE CMPT ABOVE FUEL TANK
P-69	12 WAY	ENGINE COMPARTMENT
P-70	48 WAY	FRONT JUNCTION BOX
JLT	12 WAY	LH TT CLUSTER
JMC2	20 WAY	MAIN CONTROLLER STEERING COL
JMC3	15 WAY	MAIN CONTROLLER STEERING COL
GND		ESPAR MOUNTING BOLT ENGINE CMPT



ESPAR/WABASTO HEATER
07-14-1039 (REV A)
SHEET 1 OF 1
(EFFECTIVE PRIOR TO #62032)



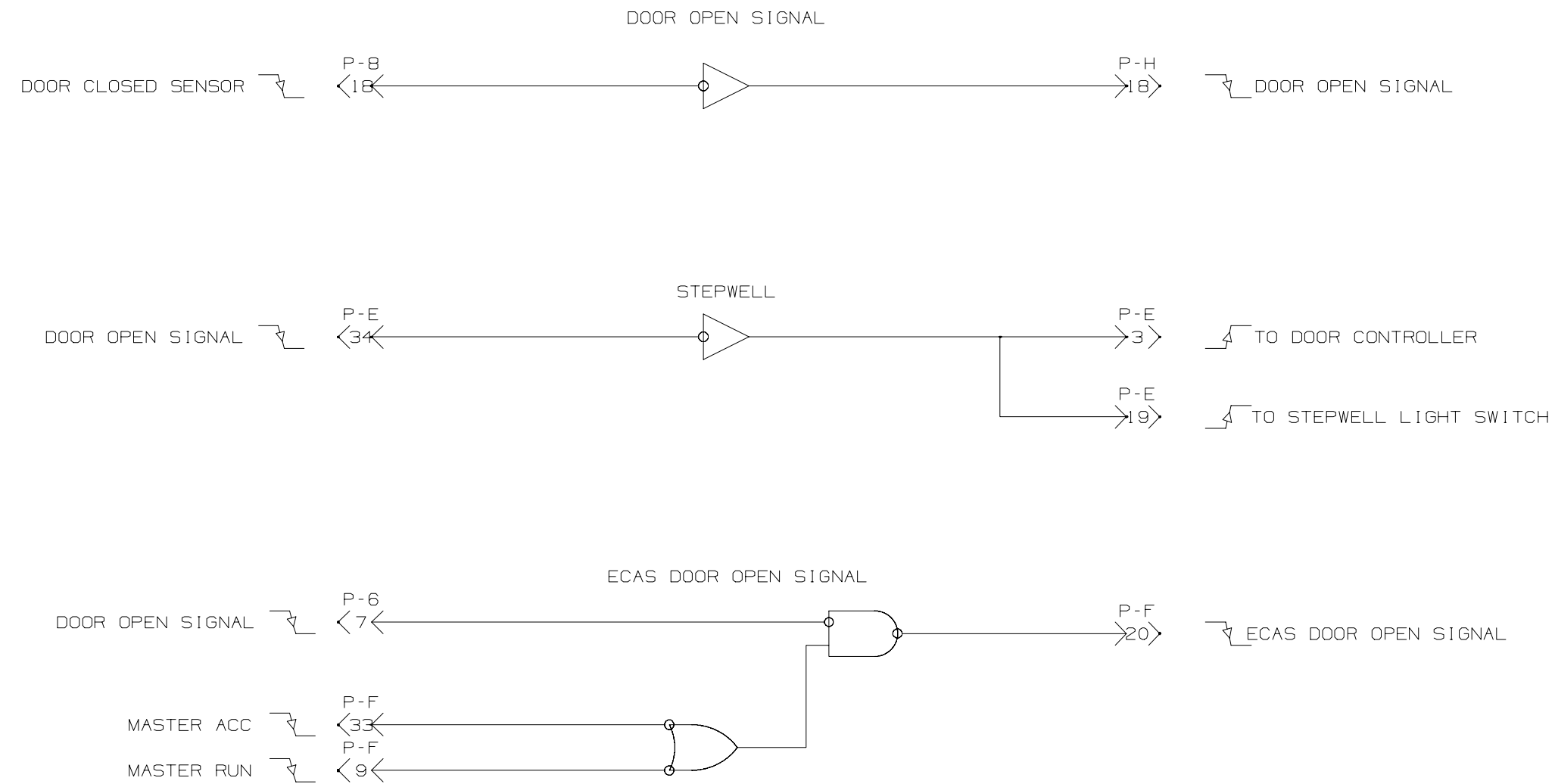
PLUG	SIZE	LOCATION
P-5	36 WAY	RELAY MODULE BOX#3 BAGGAGE CMPT
P-6	36 WAY	RELAY MODULE BOX#3 BAGGAGE CMPT
P-8	36 WAY	FRONT JUNCTION BOX
P-E	36 WAY	RELAY MODULE BOX#3 BAGGAGE CMPT
P-F	36 WAY	RELAY MODULE BOX#3 BAGGAGE CMPT
P-H	36 WAY	FRONT JUNCTION BOX
P-29	4-28 WAY	FRONT JUNCTION BOX
P-33	48 WAY	FRONT JUNCTION BOX
P-34	12 WAY	BEHIND STEPWELL CLOSING PANEL
P-71	19 WAY	FRONT JUNCTION BOX
P-77	12-19 WAY	FRONT JUNCTION BOX
P-80	12 WAY	BATTERY CMPT
P-90	12 WAY	FRONT JUNCTION BOX
PF-1	8 WAY	BATTERY CMPT

1 SEE INTERIOR LIGHTING SCHEMATIC

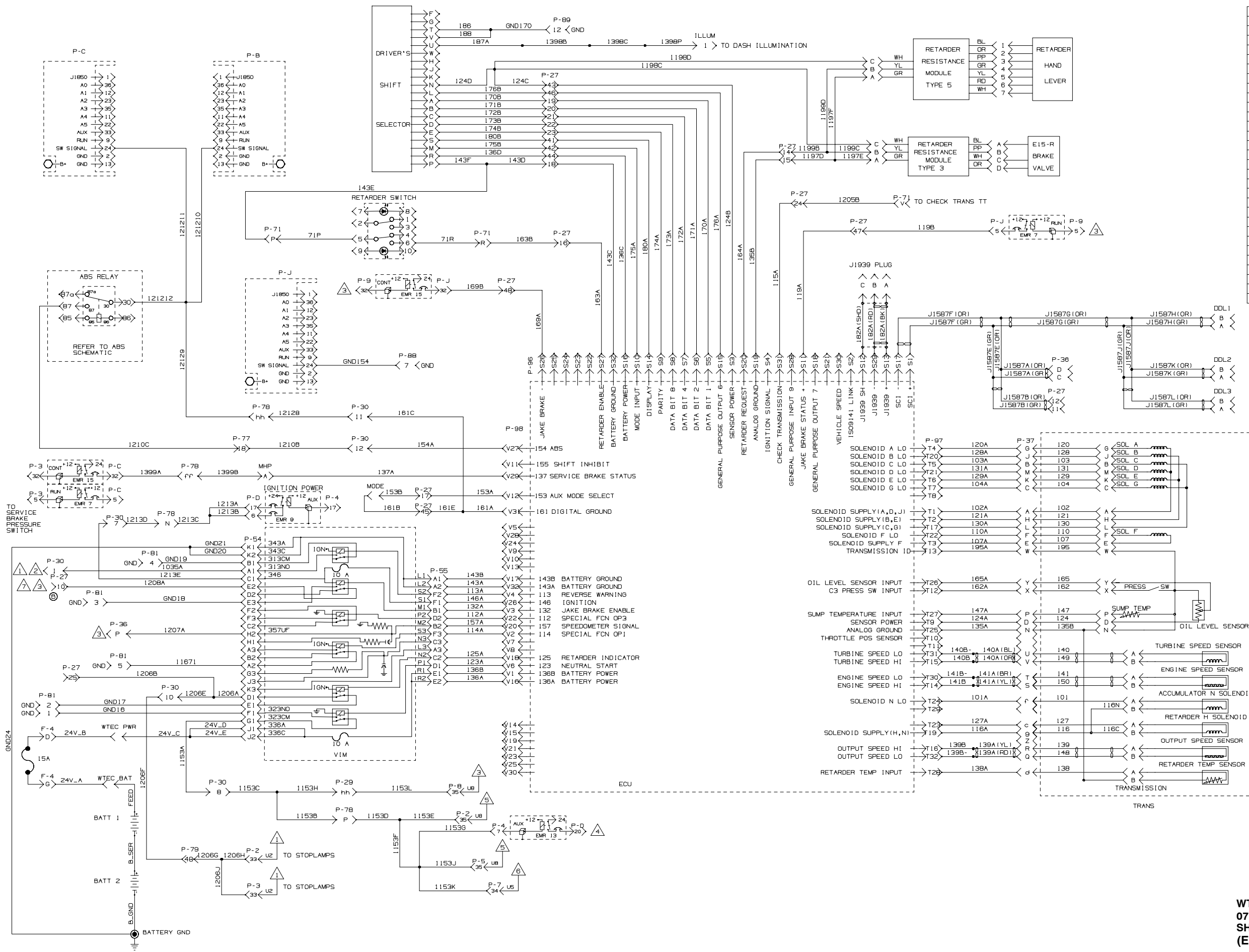
2 SEE ECAS SCHEMATIC

REFER TO ALARM AND TELL TALE SCHEMATIC
FOR DOOR OPEN TELL TALE

R1= 5.6K 1/4 WATT
R2= 5.6K 1/4 WATT
R3= 5.6K 1/4 WATT



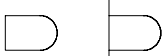
LEGEND		
SYMBOL		MEANING
		OR
		AND
		NOT (INVERT)
		ACTIVE HIGH
		ACTIVE LOW

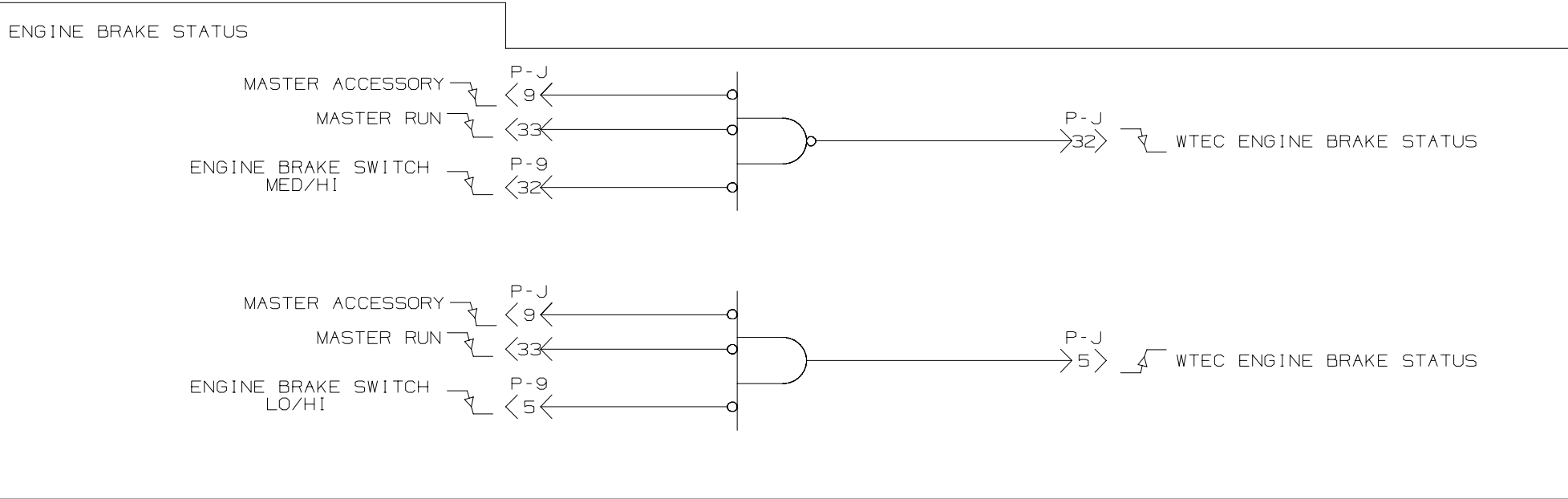
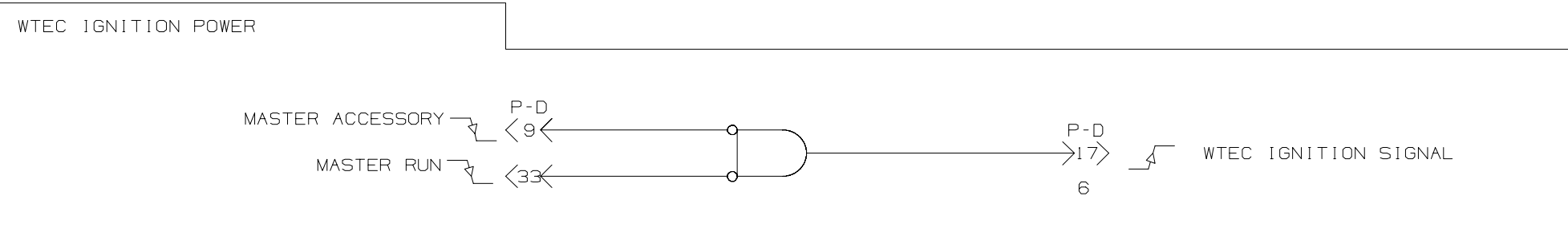
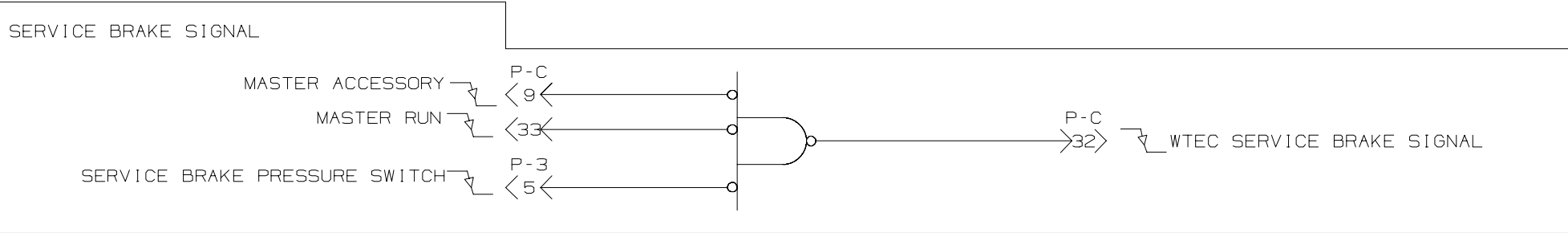


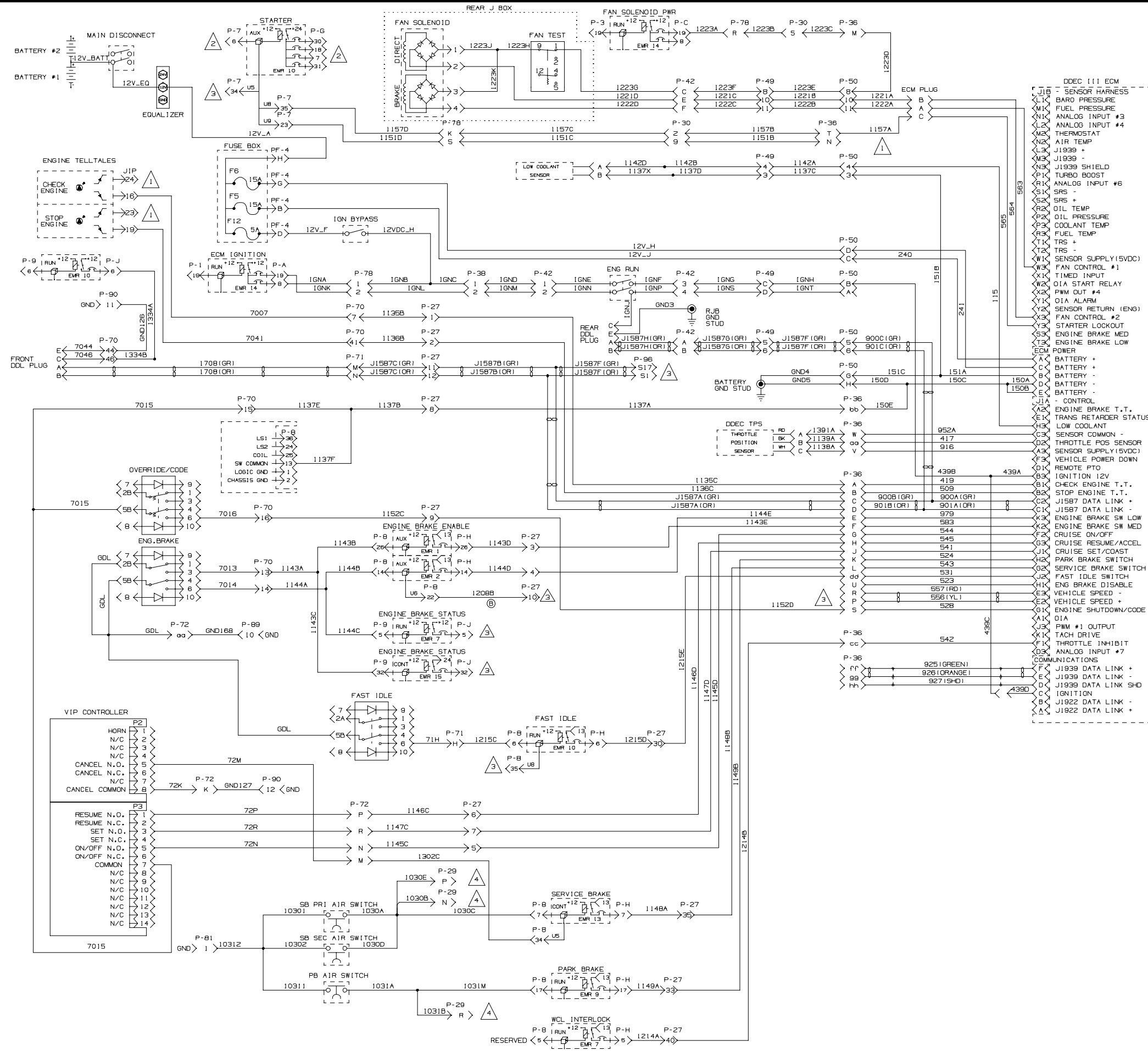
PLUG	SIZE	LOCATION
P-B	36 WAY	MODULE BOX, #3 BAGGAGE CMPT.
P-C	36 WAY	MODULE BOX, #3 BAGGAGE CMPT.
P-D	36 WAY	MODULE BOX, #3 BAGGAGE CMPT.
P-J	36 WAY	FRONT JUNCTION BOX
P-2	36 WAY	MODULE BOX, #3 BAGGAGE CMPT.
P-3	36 WAY	MODULE BOX, #3 BAGGAGE CMPT.
P-5	36 WAY	MODULE BOX, #3 BAGGAGE CMPT.
P-7	36 WAY	MODULE BOX, #3 BAGGAGE CMPT.
P-8	36 WAY	FRONT JUNCTION BOX
P-9	36 WAY	FRONT JUNCTION BOX
P-27	48 WAY	FRONT JUNCTION BOX
P-29	4-28 WAY	FRONT JUNCTION BOX
P-30	12 WAY	ABOVE FUEL TANK
P-36	4-28 WAY	RH ENGINE COMPARTMENT
P-37	31 WAY	ENGINE CMPT ABOVE TRANS.
P-54	30 WAY	BATTERY COMPARTMENT
P-55	18 WAY	BATTERY COMPARTMENT
P-71	19 WAY	FRONT JUNCTION BOX
P-77	12-19 WAY	RH, #3 BAGGAGE CMPT.
P-78	4-28 WAY	RH, #3 BAGGAGE CMPT.
P-81	12 WAY	BATTERY COMPARTMENT
P-89	12 WAY	FRONT JUNCTION BOX
P-96	24 WAY	BATTERY COMPARTMENT
P-97	24 WAY	BATTERY COMPARTMENT
P-98	24 WAY	BATTERY COMPARTMENT
F-4	8 WAY	BATTERY COMPARTMENT
ILLUM	2 WAY	FRONT JUNCTION BOX
MODE	1 WAY	FRONT JUNCTION BOX
WTEC	1 WAY	BATTERY COMPARTMENT
WTEC	1 WAY	BATTERY COMPARTMENT

- 1 REFER TO EXTERIOR LIGHTING
- 2 REFER TO ALARMS AND TELLTALES
- 3 REFER TO ENGINE SCHEMATIC
- 4 REFER TO ECAS SCHEMATIC
- 5 REFER TO WCL SCHEMATIC
- 6 REFER TO CHARGING AND STARTING SCHEMATIC
- 7 FOR COACHES PRIOR TO 60396 1208A TERMINATED AT P36-U

WTEC 3 - E4500
07-14-1059 (REV B)
SHEET 1 OF 2
(EFFECTIVE W/ #60075 Thru #62031)

SYMBOL	MEANING
	OR
	AND
	NOT (INVERT)
	ACTIVE HIGH
	ACTIVE LOW



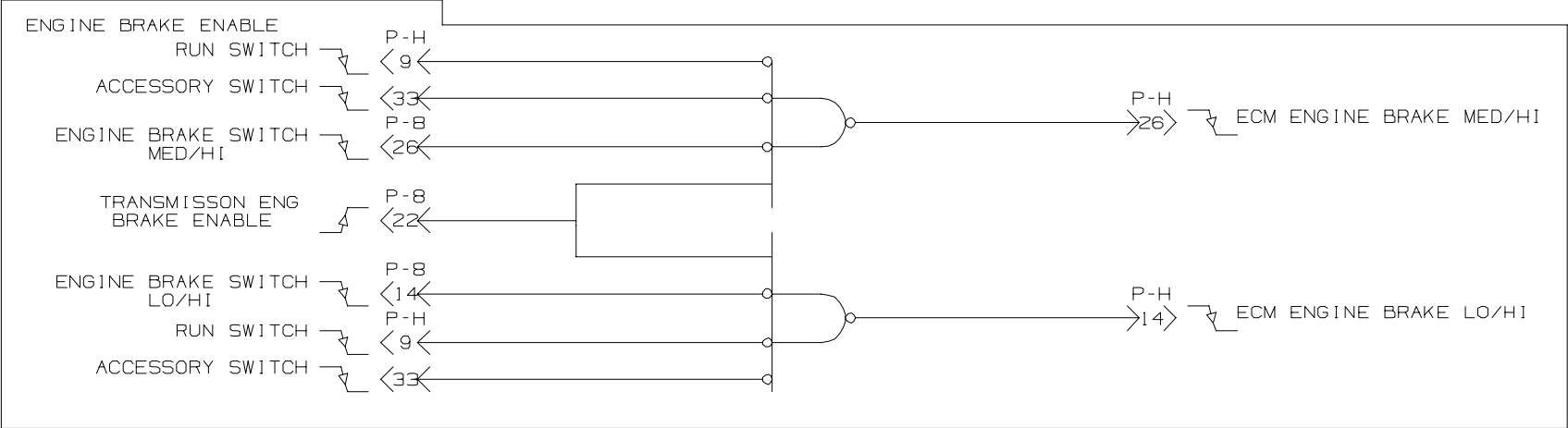
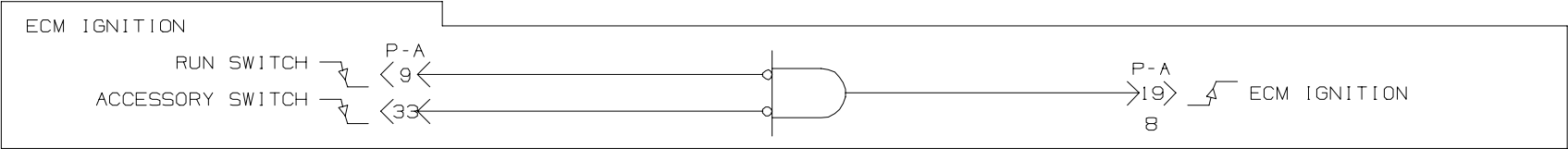
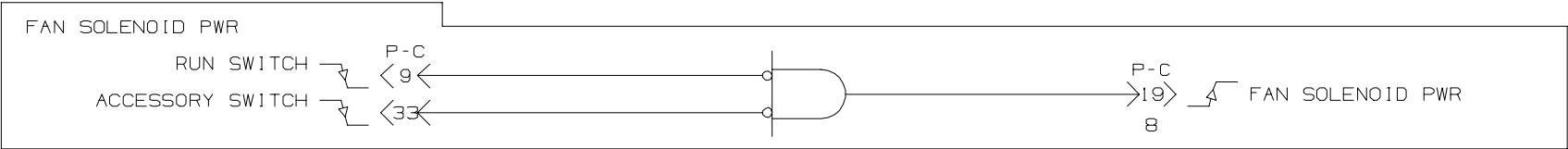
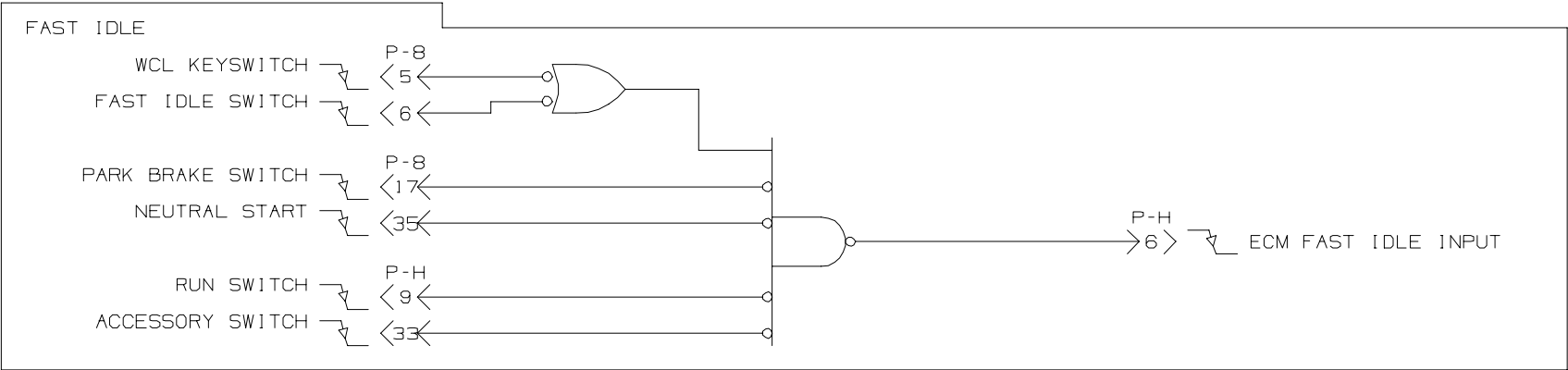


PLUG	SIZE	LOCATION
P-1	36 WAY	RELAY MODULE BOX, #3 BAGGAGE CMPT.
P-3	36 WAY	RELAY MODULE BOX, #3 BAGGAGE CMPT.
P-7	36 WAY	RELAY MODULE BOX, #3 BAGGAGE CMPT.
P-8	36 WAY	FRONT J BOX
P-27	48 WAY	POWERTRAIN HRN AT FRONT J BOX
P-29	4-28 WAY	MAIN HRN AT FRONT J BOX
P-30	19 WAY	BEHIND ACCESS PANEL, #3 BAGGAGE CMPT.
P-36	4-28 WAY	ENGINE CMPT.
P-38	4-28 WAY	ENGINE CMPT.
P-42	4-28 WAY	REAR J BOX
P-49	12-19 WAY	ENGINE CMPT.
P-50	12-19 WAY	ENGINE CMPT.
P-70	48 WAY	FRONT J BOX
P-71	4-28 WAY	FRONT J BOX
P-72	19 WAY	FRONT J BOX
P-78	4-28 WAY	RELAY MODULE BOX, #3 BAGGAGE CMPT.
P-A	36 WAY	RELAY MODULE BOX, #3 BAGGAGE CMPT.
P-C	36 WAY	RELAY MODULE BOX, #3 BAGGAGE CMPT.
P-G	36 WAY	RELAY MODULE BOX, #3 BAGGAGE CMPT.
P-H	36 WAY	FRONT J BOX

NOTE:
11 DISCONNECT DDEC COMMUNICATIONS PLUG IF J1939 DATA LINK IS NOT USED TO PREVENT ERROR CODE GENERATION. TIE BACK PLUG IN HARNESS AND CAP DDEC CONNECTOR.

1 NOT REQUIRED FOR DDEC 111.
2 REFER TO CHARGING AND STARTING SCHEMATIC.
3 REFER TO WTEC SCHEMATIC.
4 REFER TO EXTERIOR LIGHTING SCHEMATIC.

DDEC W/WTEC 3 - E4500
07-14-1063 (REV B)
SHEET 1 OF 2
(EFFECTIVE W/ #60075 THRU #62031)



SERVICE BRAKE

REFER TO EXTERIOR LIGHTING SCHEMATIC

PARK BRAKE

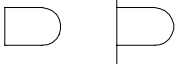
REFER TO EXTERIOR LIGHTING SCHEMATIC

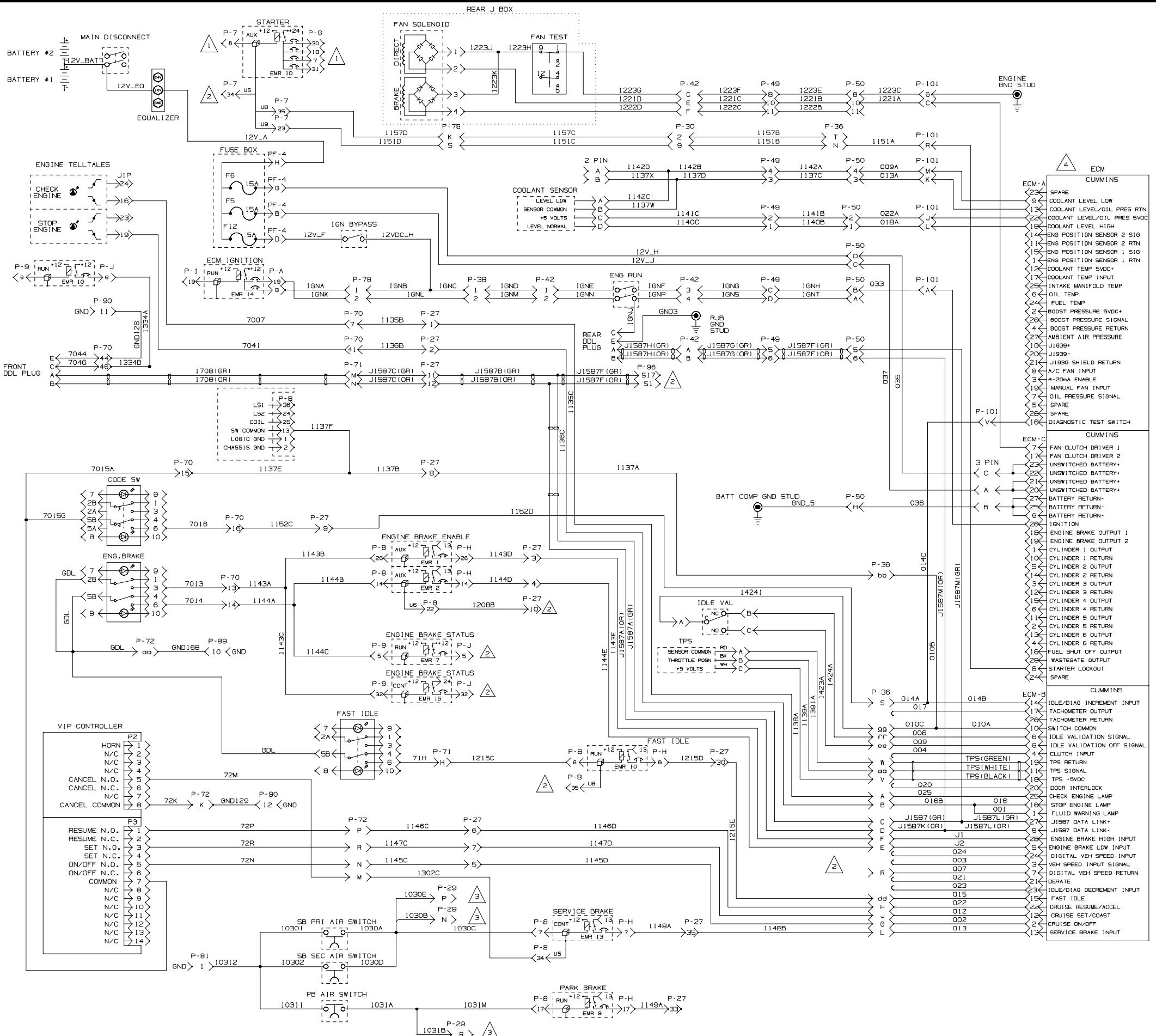
WCL INTERLOCK

REFER TO WHEELCHAIR LIFT SCHEMATIC

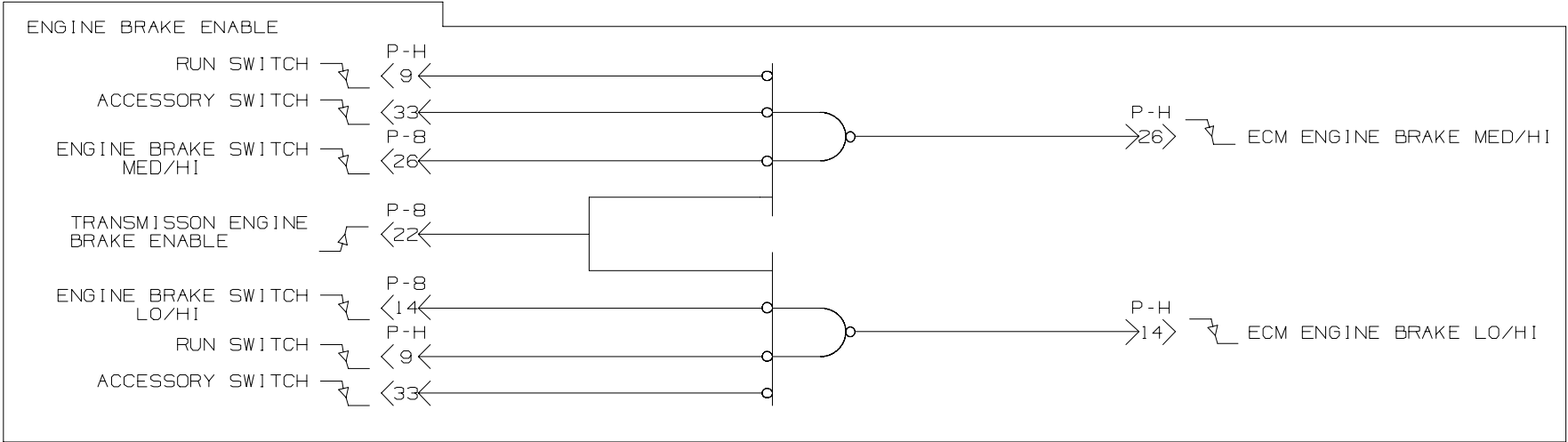
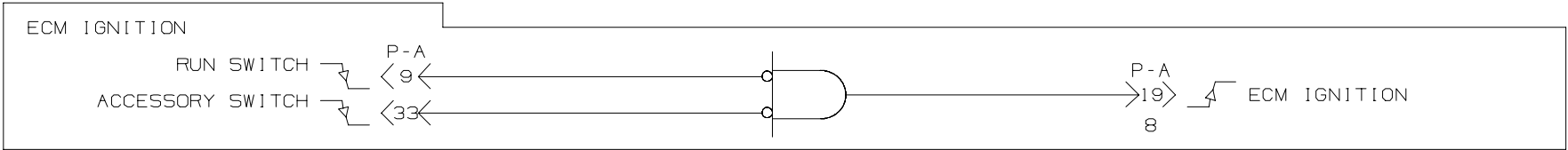
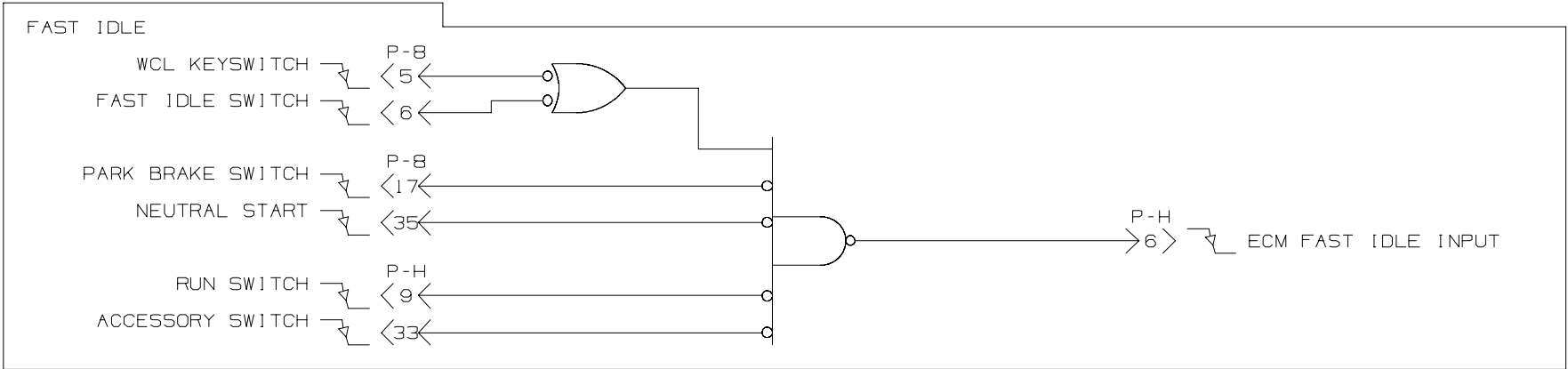
STARTER

REFER TO CHARGING AND STARTING SCHEMATIC

SYMBOL	MEANING
	OR
	AND
	NOT (INVERT)
	ACTIVE HIGH
	ACTIVE LOW



CUMMINS M11
07-14-1088 (REV A)
SHEET 1 OF 2
(EFFECTIVE PRIOR TO #62032)



STARTER

REFER TO CHARGING AND STARTING SCHEMATIC

SERVICE BRAKE

REFER TO EXTERIOR LIGHTING SCHEMATIC

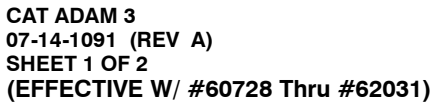
PARK BRAKE

REFER TO EXTERIOR LIGHTING SCHEMATIC

WCL INTERLOCK

REFER TO WHEELCHAIR LIFT SCHEMATIC

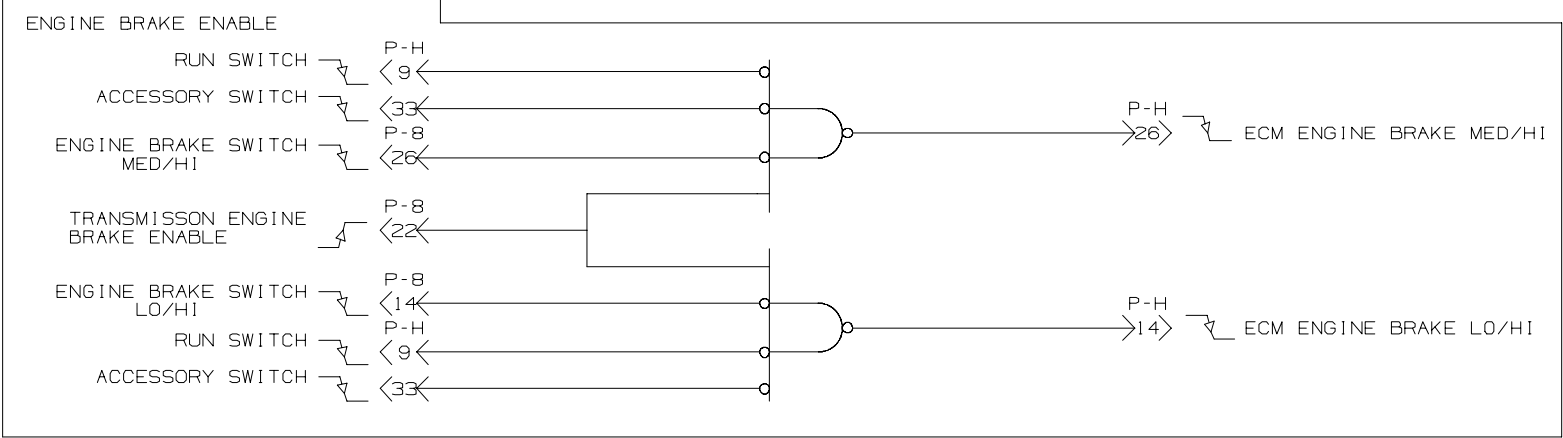
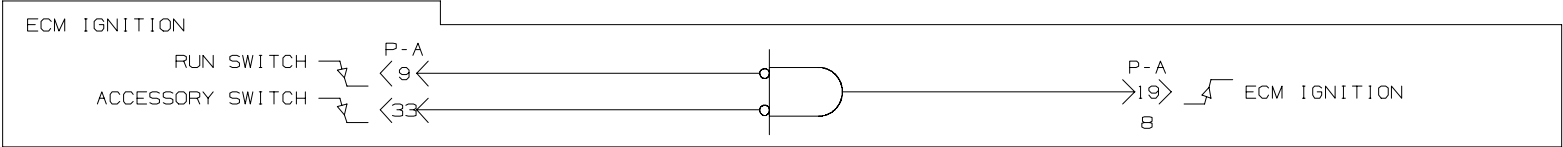
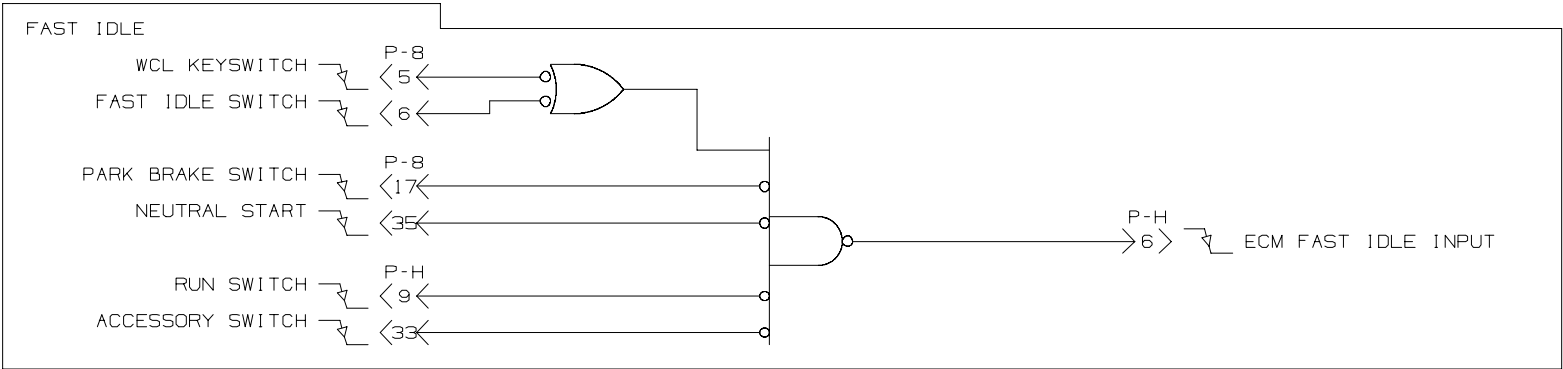
SYMBOL	MEANING
	OR
	AND
	NOT (INVERT)
	ACTIVE HIGH
	ACTIVE LOW



1 REFER TO CHARGING AND STARTING SCHEMATIC.

2 REFER TO WTEC SCHEMATIC.

3 REFER TO EXTERIOR LIGHTING SCHEMATIC.



STARTER

REFER TO CHARGING AND STARTING SCHEMATIC

SERVICE BRAKE

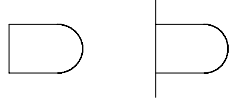
REFER TO EXTERIOR LIGHTING SCHEMATIC

PARK BRAKE

REFER TO EXTERIOR LIGHTING SCHEMATIC

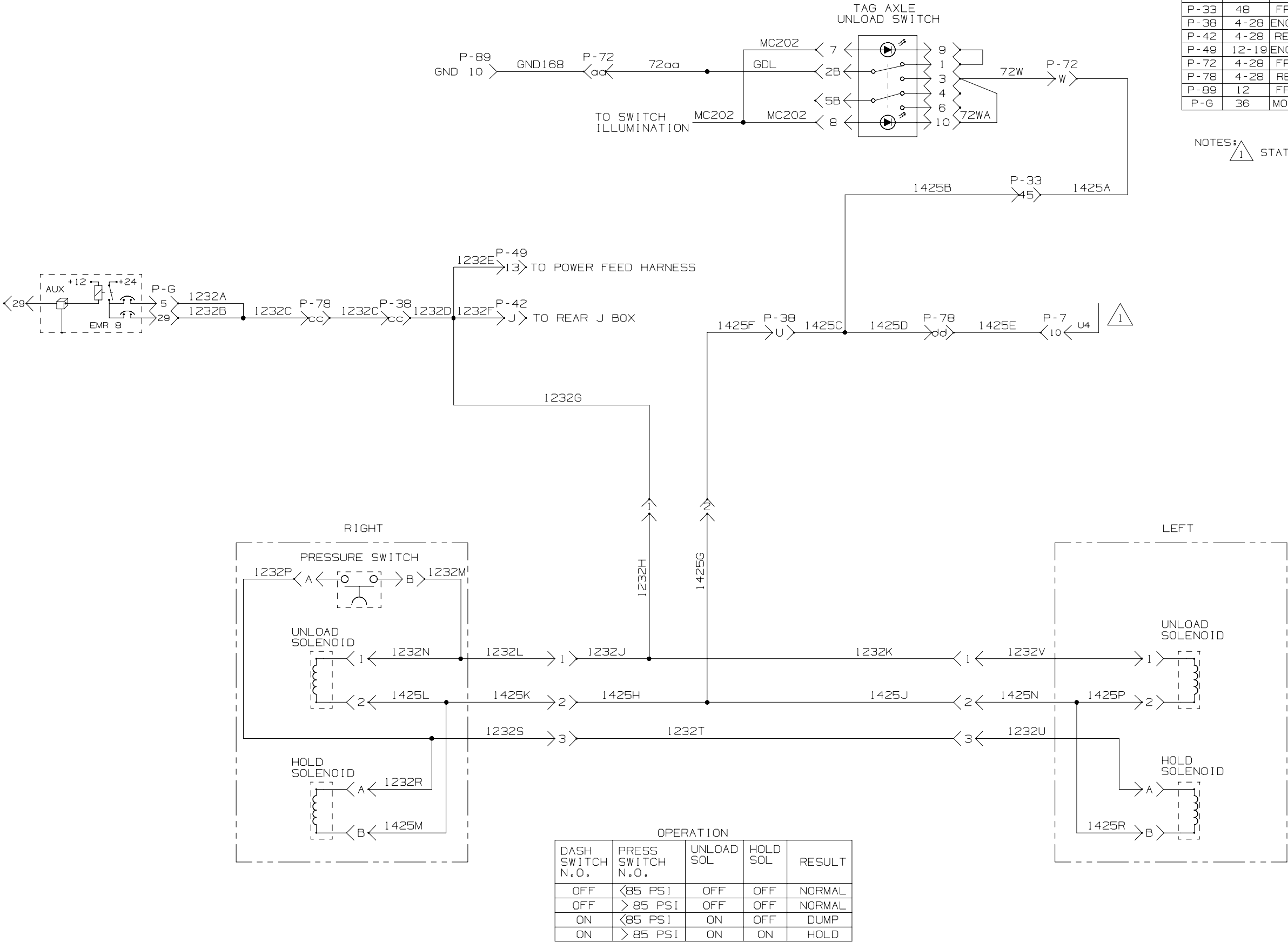
WCL INTERLOCK

REFER TO WHEELCHAIR LIFT SCHEMATIC

SYMBOL	MEANING
	OR
	AND
	NOT (INVERT)
	ACTIVE HIGH
	ACTIVE LOW

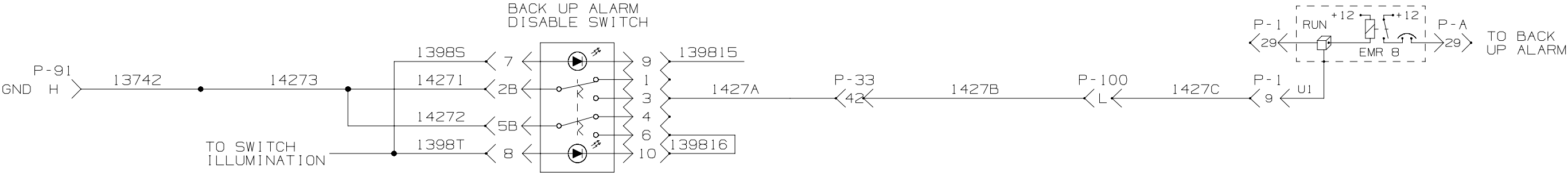
PLUG	SIZE	LOCATION
P-7	36	MODULE BOX
P-33	48	FRONT J BOX
P-38	4-28	ENGINE COMPARTMENT
P-42	4-28	REAR REMOTE BOX
P-49	12-19	ENGINE COMPARTMENT
P-72	4-28	FRONT J BOX
P-78	4-28	REAR BULKHEAD # 3 BAGGAGE COMPT
P-89	12	FRONT J BOX
P-G	36	MODULE BOX

NOTES:
1 STATUS BROADCAST ON J1850 DATA LINK

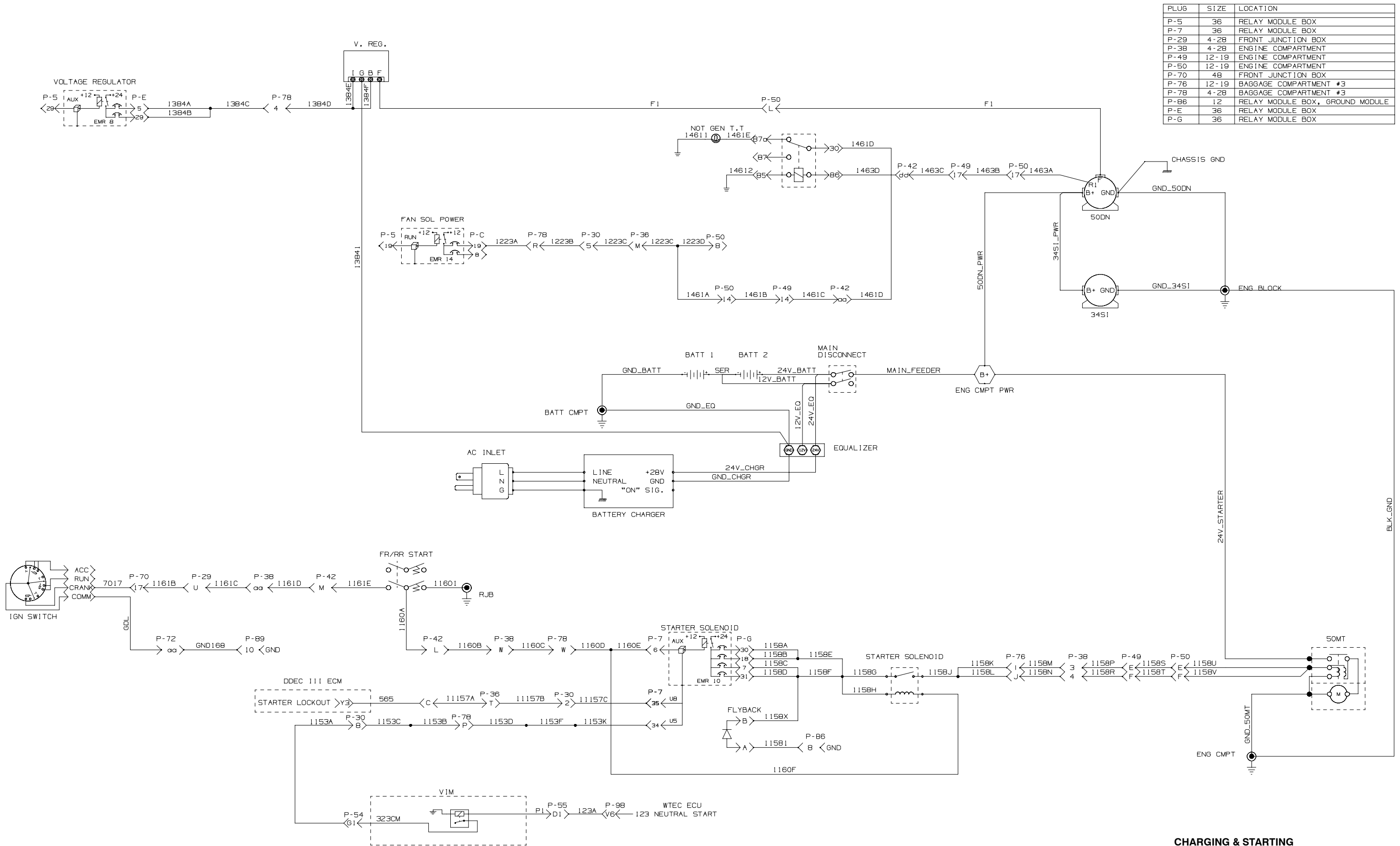


TAG AXLE UNLOAD
07-14-1093 (REV A)
SHEET 1 OF 1
(EFFECTIVE PRIOR TO #62032)

PLUG	SIZE	LOCATION
P-1	36	MODULE BOX
P-33	48	FRONT J BOX
P-91	9	FRONT J BOX
P-100	19	REAR BULKHEAD # 3 BAGGAGE COMPT



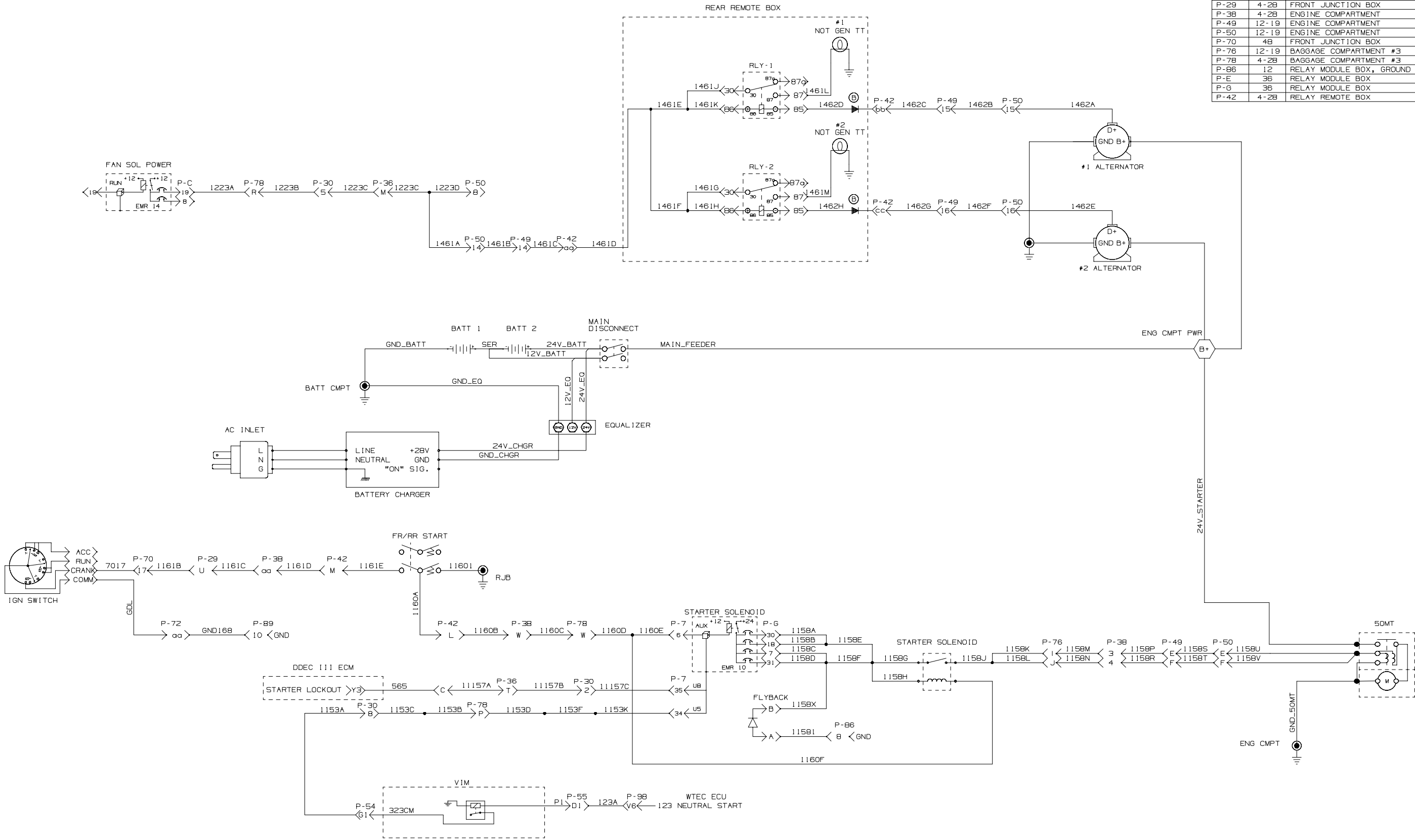
BACK-UP ALARM DISABLE
07-14-1123 (REV A)
SHEET 1 OF 1
(EFFECTIVE PRIOR TO #62032)



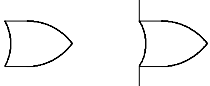
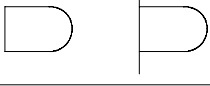
PLUG	SIZE	LOCATION
P-5	36	RELAY MODULE BOX
P-7	36	RELAY MODULE BOX
P-29	4-28	FRONT JUNCTION BOX
P-38	4-28	ENGINE COMPARTMENT
P-49	12-19	ENGINE COMPARTMENT
P-50	12-19	ENGINE COMPARTMENT
P-70	48	FRONT JUNCTION BOX
P-76	12-19	BAGGAGE COMPARTMENT #3
P-78	4-28	BAGGAGE COMPARTMENT #3
P-86	12	RELAY MODULE BOX, GROUND MODULE
P-E	36	RELAY MODULE BOX
P-G	36	RELAY MODULE BOX

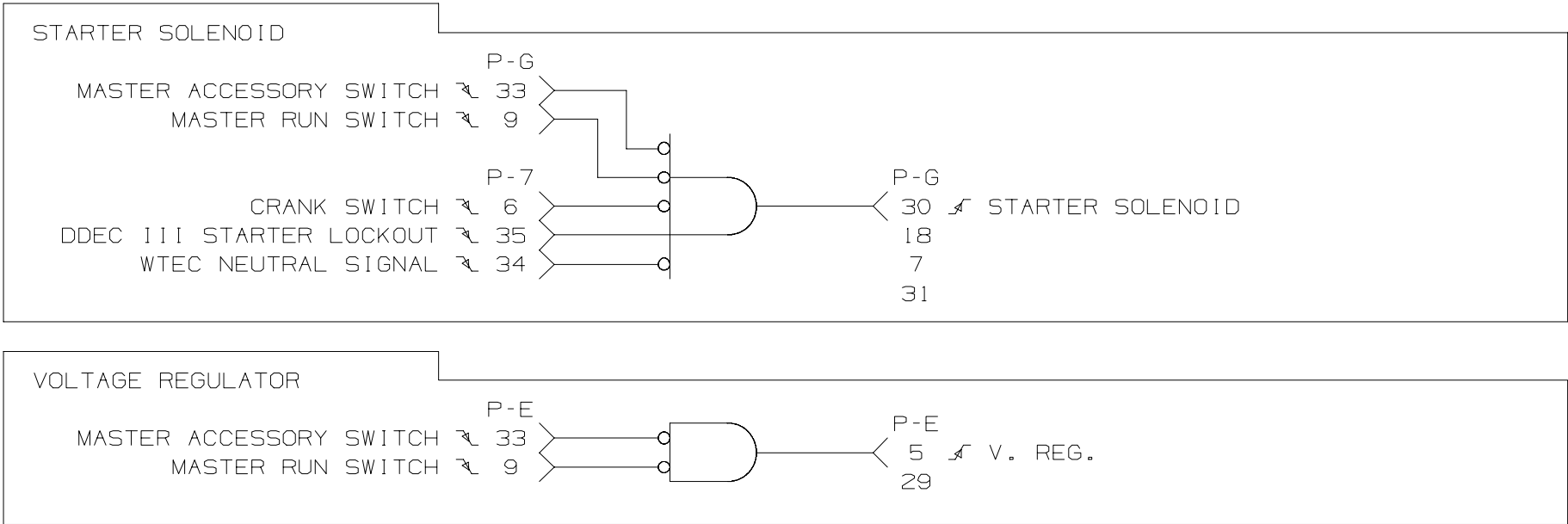
CHARGING & STARTING
(2001 MODEL YEAR – DELCO & BOSCH)
07-14-1174 (REV B)
SHEET 1 OF 3
(EFFECTIVE W/ #61554 Thru #62031)

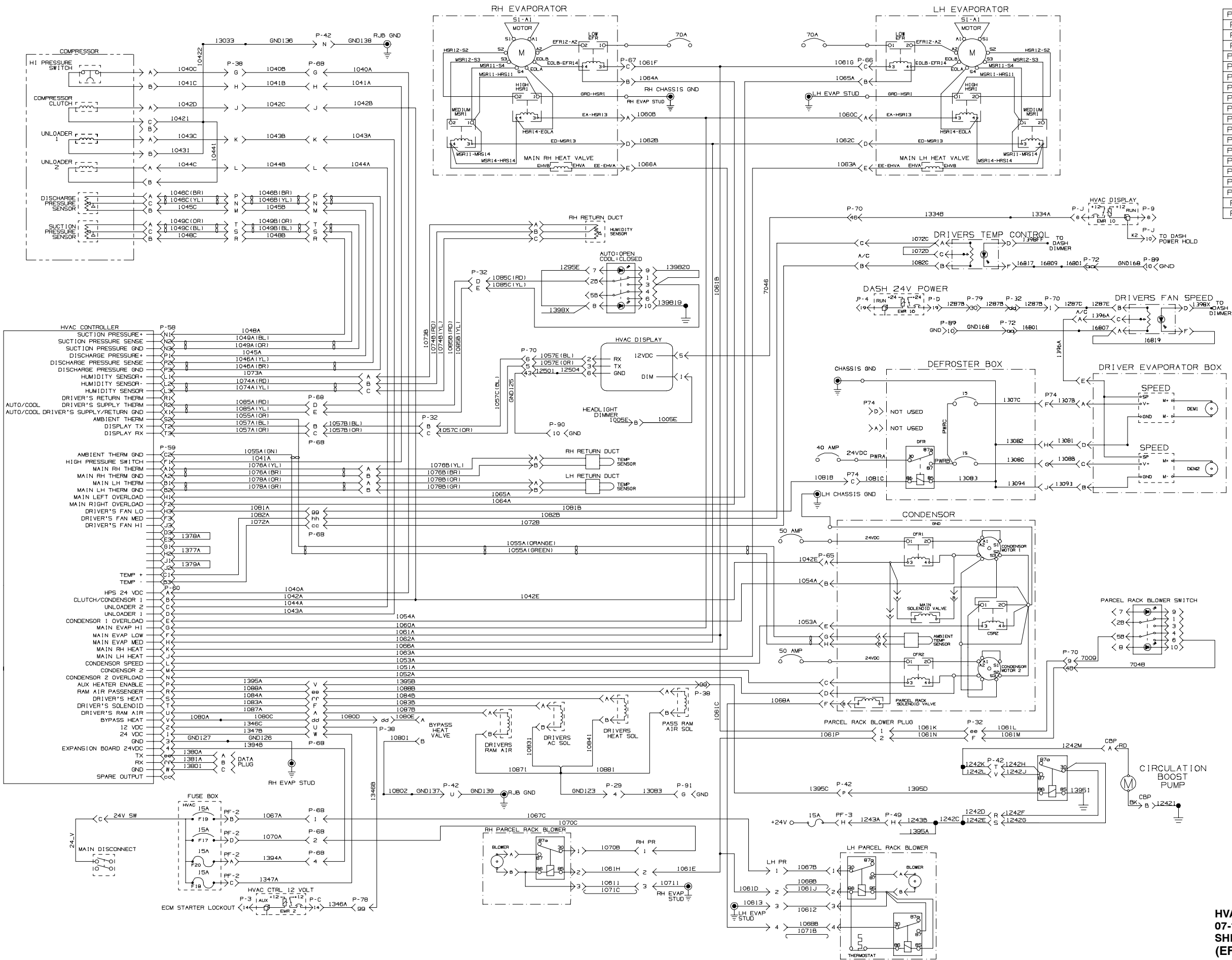
PLUG	SIZE	LOCATION
P-5	36	RELAY MODULE BOX
P-7	36	RELAY MODULE BOX
P-29	4-28	FRONT JUNCTION BOX
P-38	4-28	ENGINE COMPARTMENT
P-49	12-19	ENGINE COMPARTMENT
P-50	12-19	ENGINE COMPARTMENT
P-70	48	FRONT JUNCTION BOX
P-76	12-19	BAGGAGE COMPARTMENT #3
P-78	4-28	BAGGAGE COMPARTMENT #3
P-86	12	RELAY MODULE BOX, GROUND MODULE
P-E	36	RELAY MODULE BOX
P-G	36	RELAY MODULE BOX
P-42	4-28	RELAY REMOTE BOX



CHARGING & STARTING
(2001 MODEL YEAR – DELCO & BOSCH)
07-14-1174 (REV B)
SHEET 2 OF 3
(EFFECTIVE W/ #61554 Thru #62031)

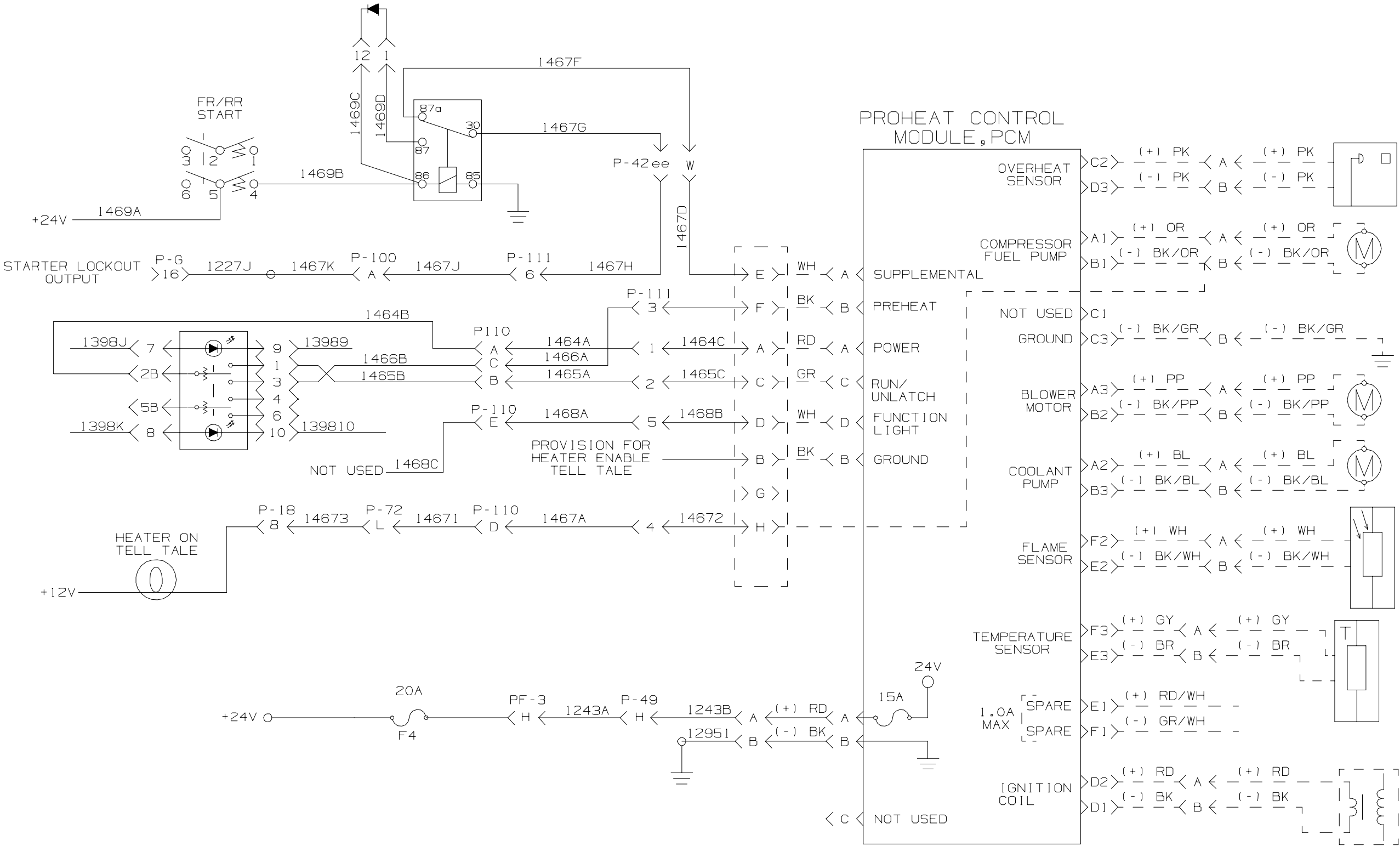
SYMBOL	MEANING
	OR
	AND
	NOT (INVERT)
	ACTIVE HIGH
	ACTIVE LOW

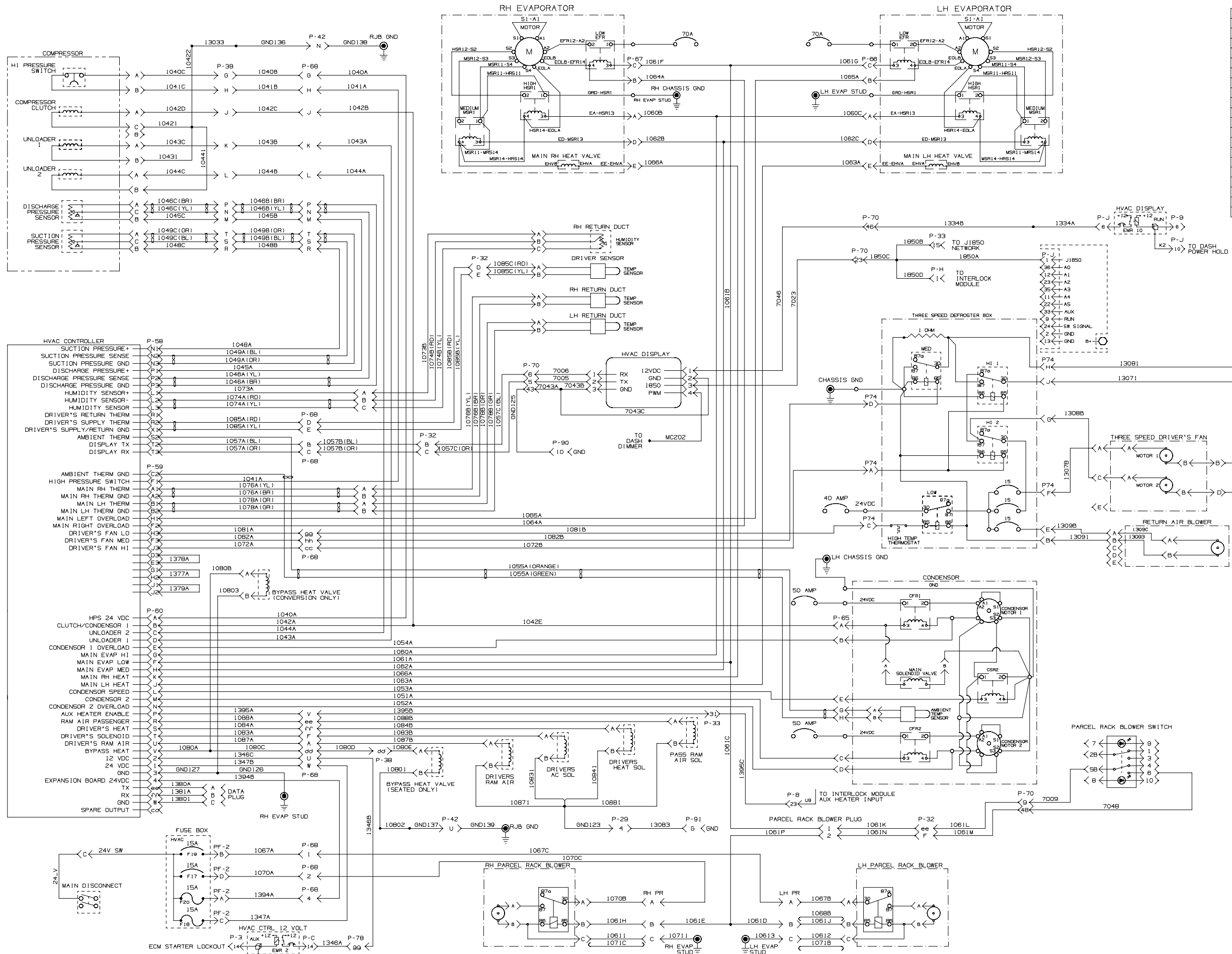




PLUG	SIZE	LOCATION
P-3	36 WAY	MODULE BOX #3 BAGG CMPT
P-9	36 WAY	FRONT J BOX
P-8	36 WAY	FRONT J BOX
P-29	4-28 WAY	FRONT J BOX
P-32	4-28 WAY	FRONT J BOX
P-33	48 WAY	FRONT J BOX
P-38	4-28 WAY	ENGINE CMPT
P-42	4-28 WAY	REAR J BOX
P-58	27 WAY	BATTERY CMPT
P-59	30 WAY	BATTERY CMPT
P-60	4-28 WAY	BATTERY CMPT
P-65	12 WAY	CONDENSOR CMPT
P-66	12 WAY	LH EVAPORATOR
P-67	12 WAY	RH EVAPORATOR
P-68	4-28 WAY	CTR TUNNEL AT FUEL TANK
P-70	48 WAY	FRONT J BOX
P-74	12 WAY	RH HEADLIGHT
P-C	36 WAY	MODULE BOX #3 BAGG CMPT
P-J	36 WAY	FRONT J BOX

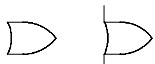
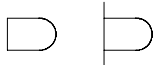
HVAC (W/ GE MOTORS)
07-14-1207 (REV A)
SHEET 1 OF 1
(EFFECTIVE W/ #61731 THRU #62031)

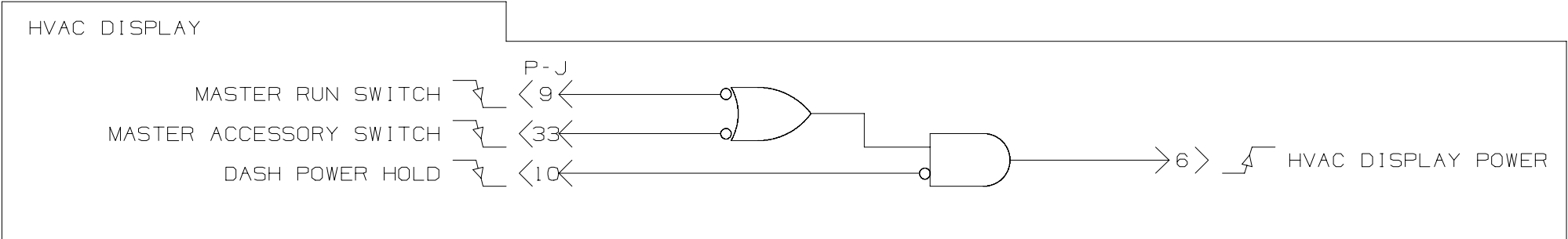
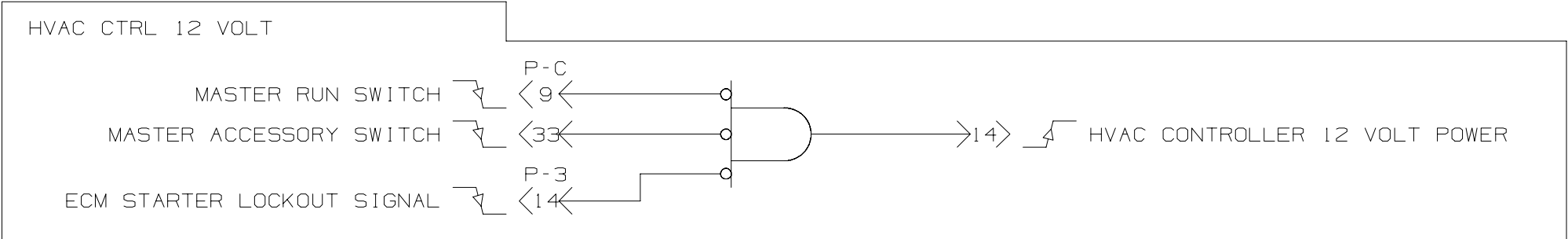


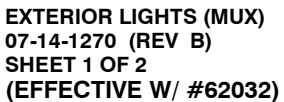


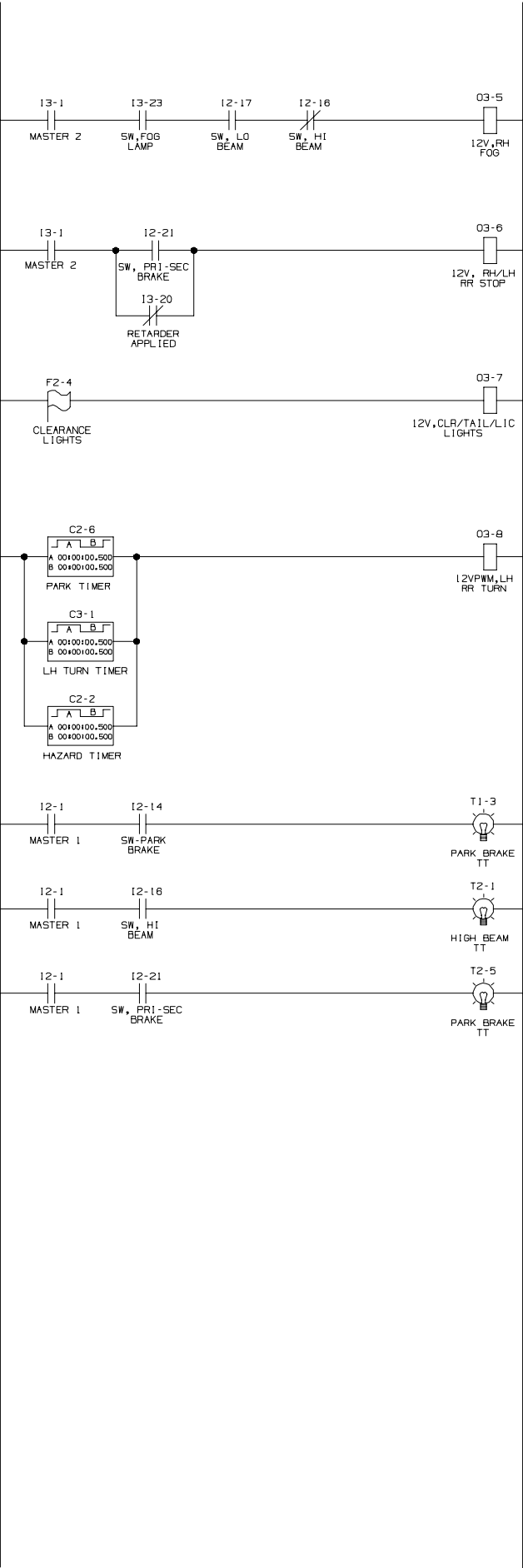
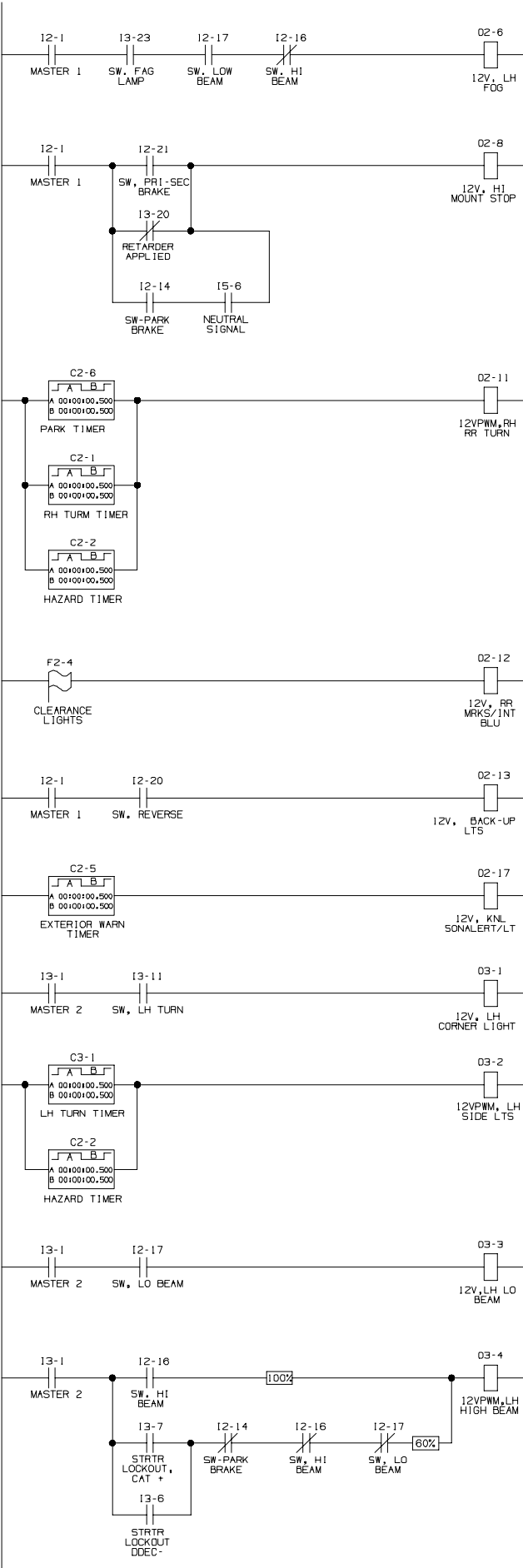
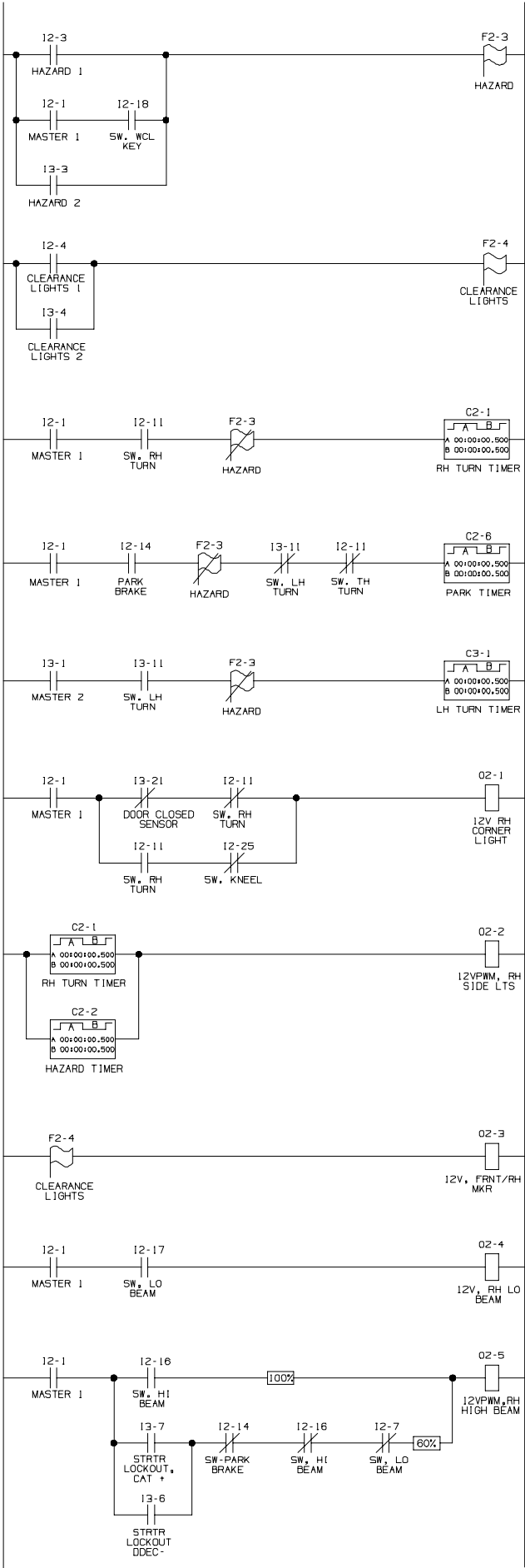
PLUG	SIZE	LOCATION
P-3	36 WAY	MODULE BOX #3 BAGG CMPT
P-9	36 WAY	FRONT J BOX
P-8	36 WAY	FRONT J BOX
P-29	4-28 WAY	FRONT J BOX
P-32	4-28 WAY	FRONT J BOX
P-33	48 WAY	FRONT J BOX
P-38	4-28 WAY	ENGINE CMPT
P-42	4-28 WAY	REAR J BOX
P-58	27 WAY	BATTERY CMPT
P-59	30 WAY	BATTERY CMPT
P-60	4-28 WAY	BATTERY CMPT
P-65	12 WAY	CONDENSOR CMPT
P-66	12 WAY	LH EVAPORATOR
P-67	12 WAY	RH EVAPORATOR
P-68	4-28 WAY	CTR TUNNEL AT FUEL TANK
P-70	48 WAY	FRONT J BOX
P-74	12 WAY	RH HEADLIGHT
P-C	36 WAY	MODULE BOX #3 BAGG CMPT
P-J	36 WAY	FRONT J BOX

HVAC (W/ GE MOTORS)
07-14-1213 (REV A)
SHEET 1 OF 2
(EFFECTIVE PRIOR TO #62032)

SYMBOL	MEANING
	OR
	AND
	NOT (INVERT)
	ACTIVE HIGH
	ACTIVE LOW

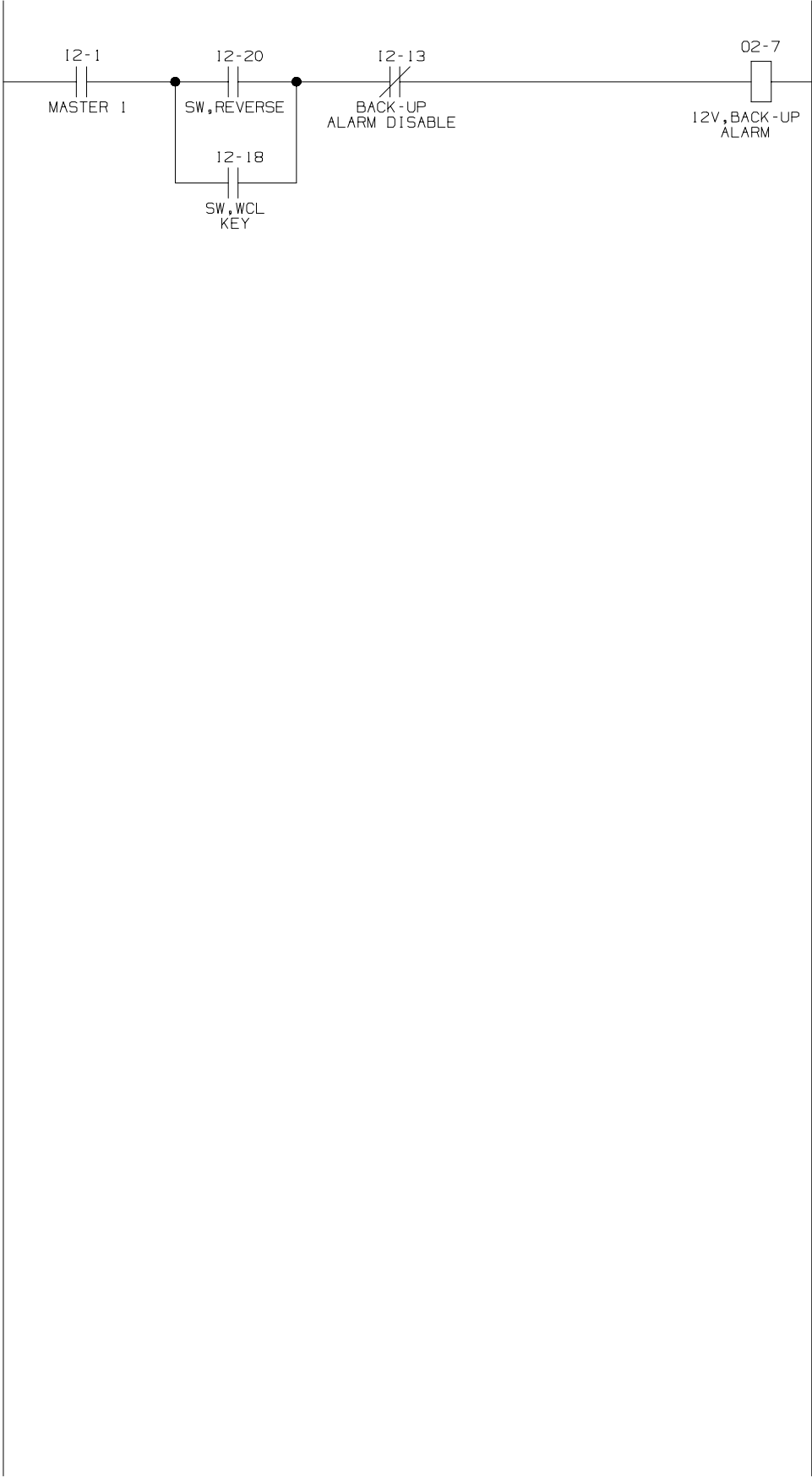




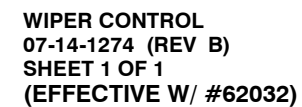


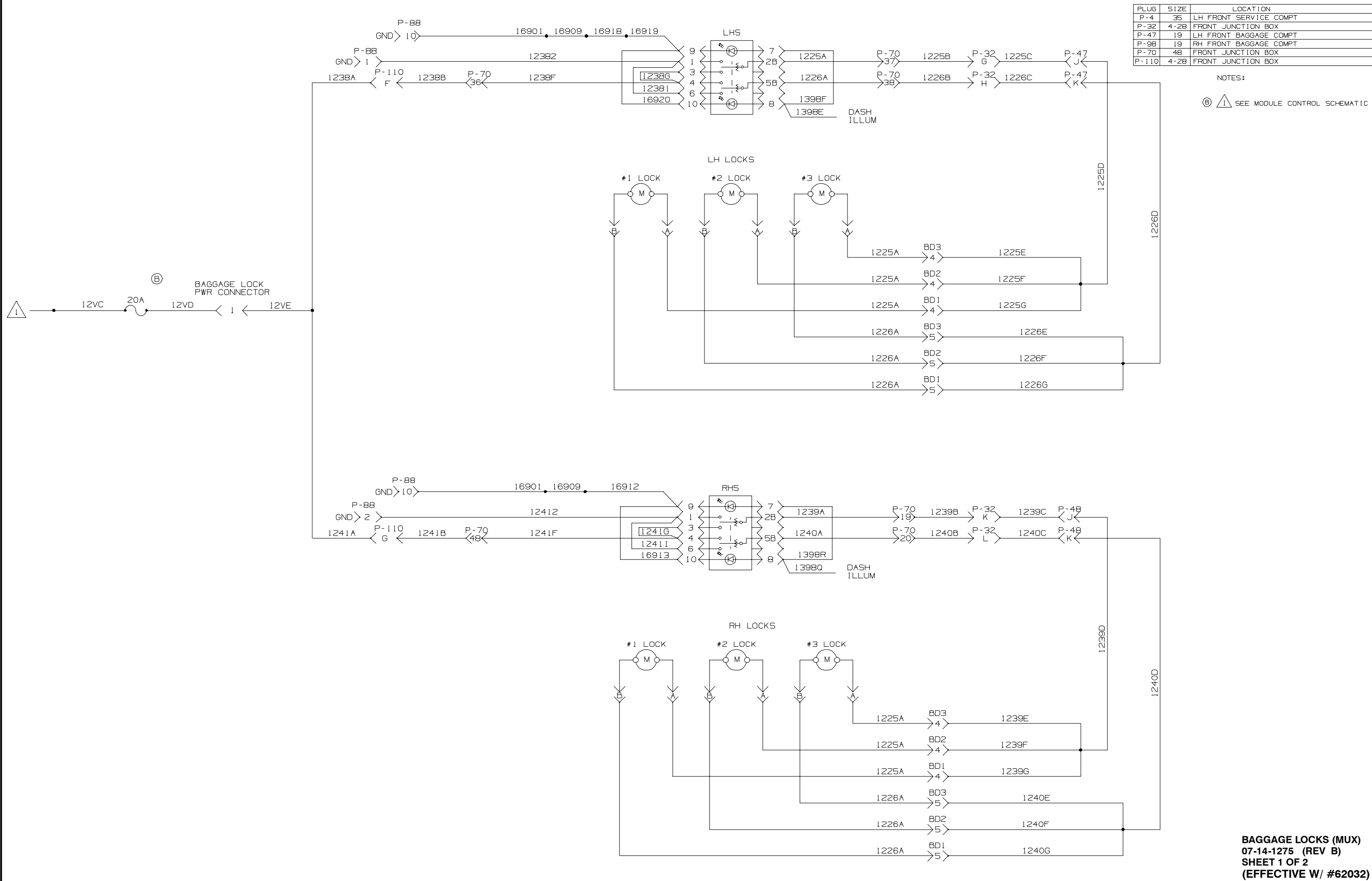
SYMBOL	MEANING
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	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WIDTH MODULATION
	LOG
	MATHEMATICAL
	TIMER
	J1939 MESSAGE
	TELLTALE

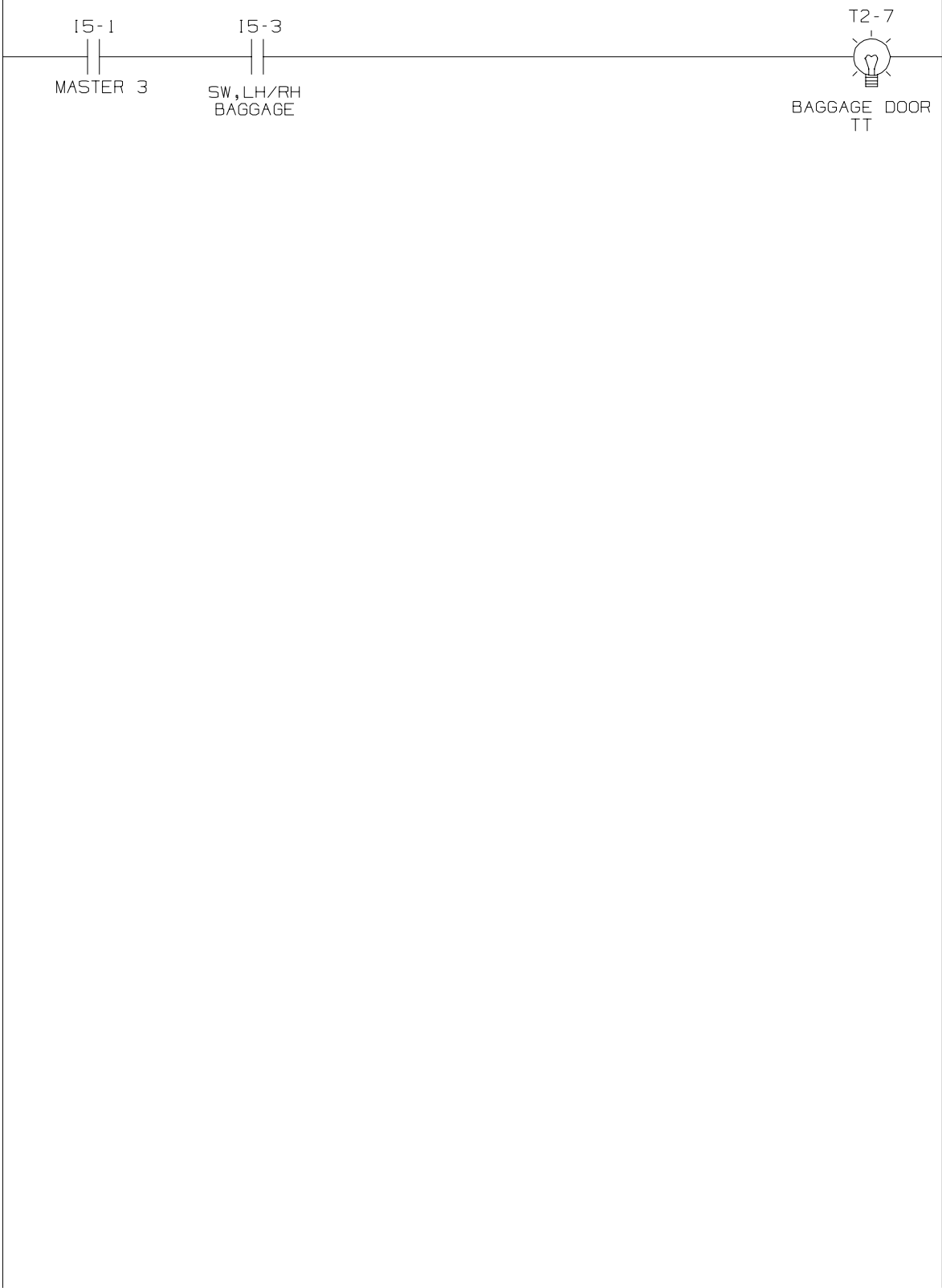
EXTERIOR LIGHTS (MUX)
07-14-1270 (REV B)
SHEET 2 OF 2
(EFFECTIVE W/ #62032)



SYMBOL	MEANING
	ACTIVE DIGITAL INPUT
	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WITDTH MODULATION
	LOG
	MATHEMATICAL
	TIMER
	J1939 MESSAGE
	TELLTALE

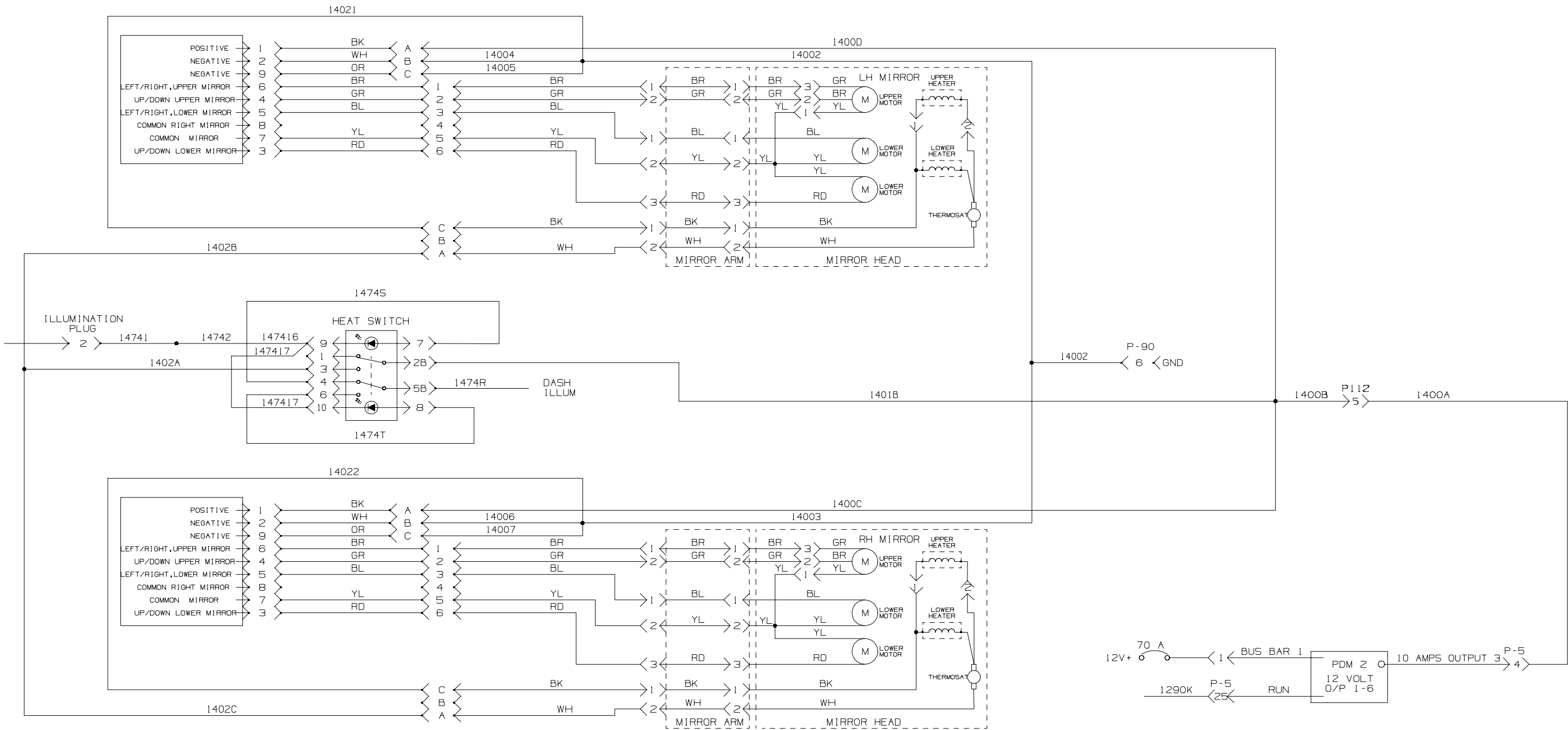


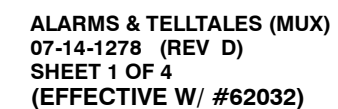


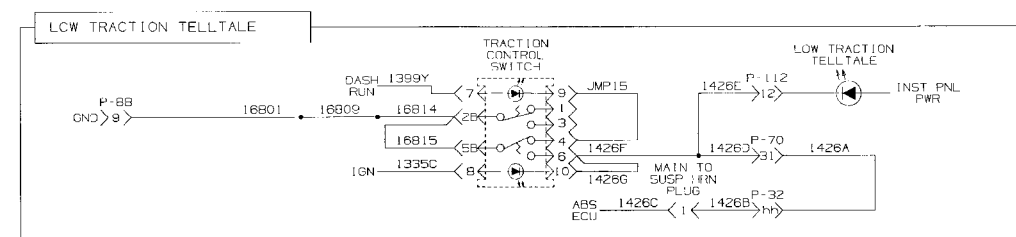
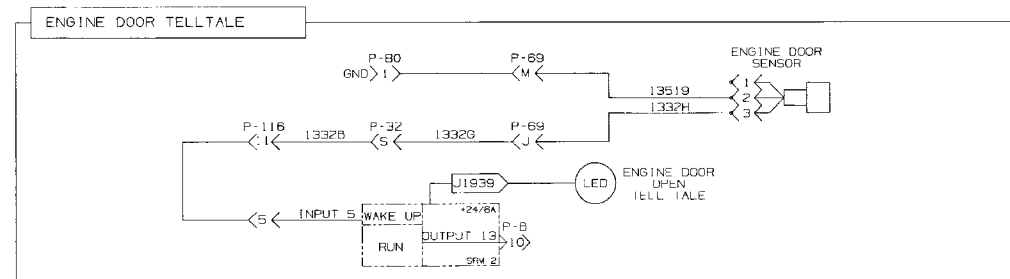
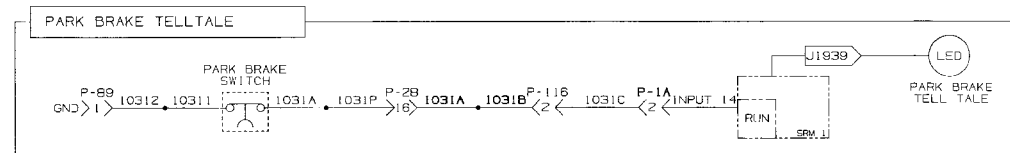
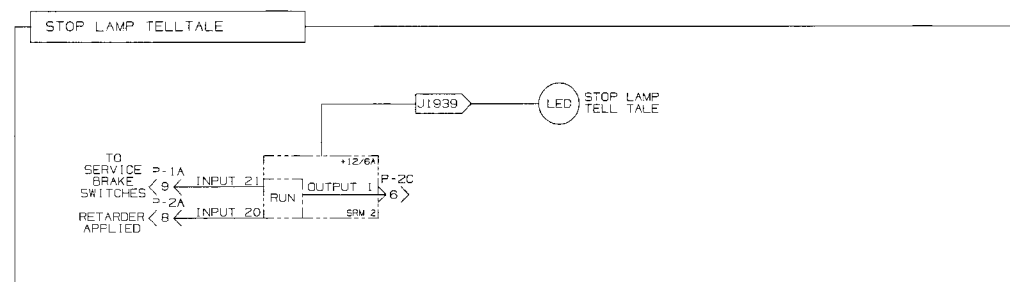
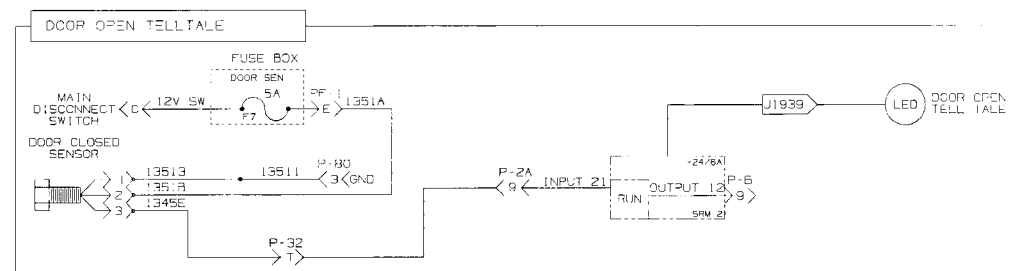


SYMBOL	MEANING
	ACTIVE DIGITAL INPUT
	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WIDTH MODULATION
	LOG
	MATHEMATICAL
	TIMER
	J1939 MESSAGE
	TELLTALE

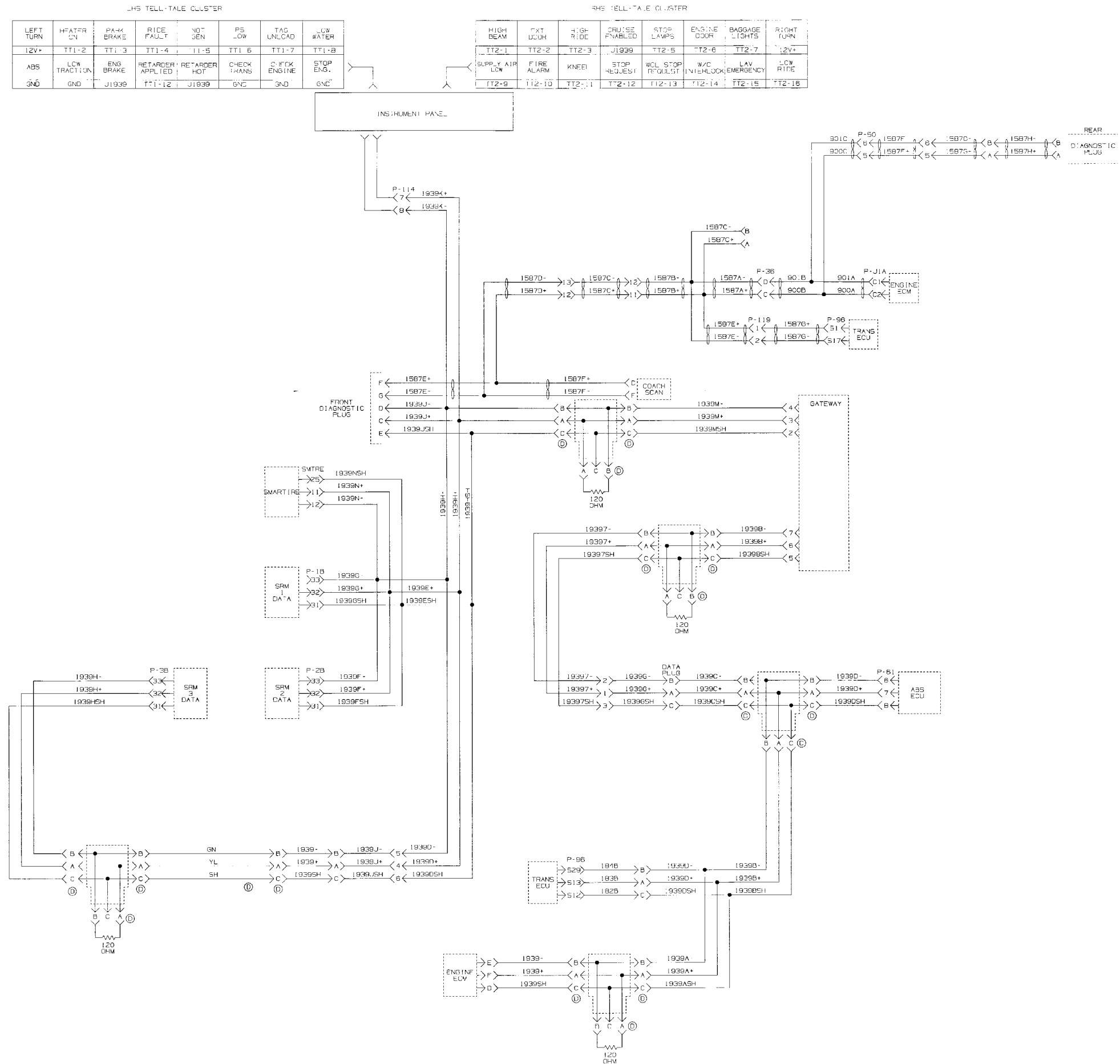
PLUG	SIZE	LOCATION
P-5	35	LH FRONT PARCEL RACK
P-90	12	FRONT JUNCTION BOX
P-112	15	FRONT JUNCTION BOX

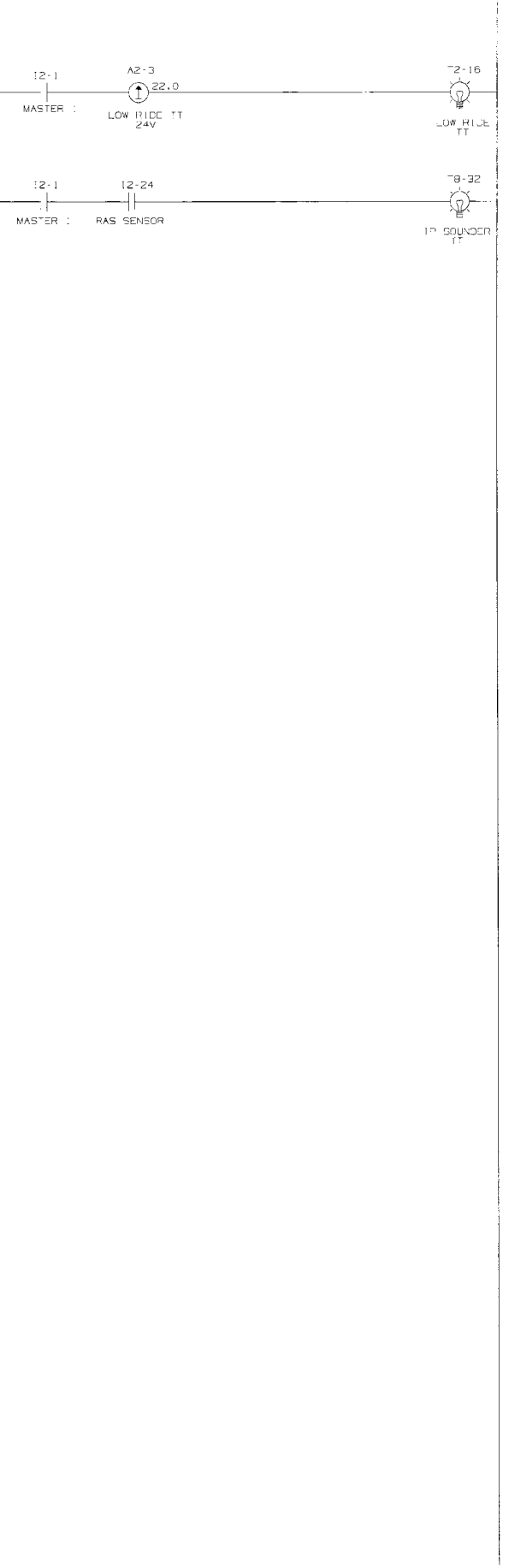
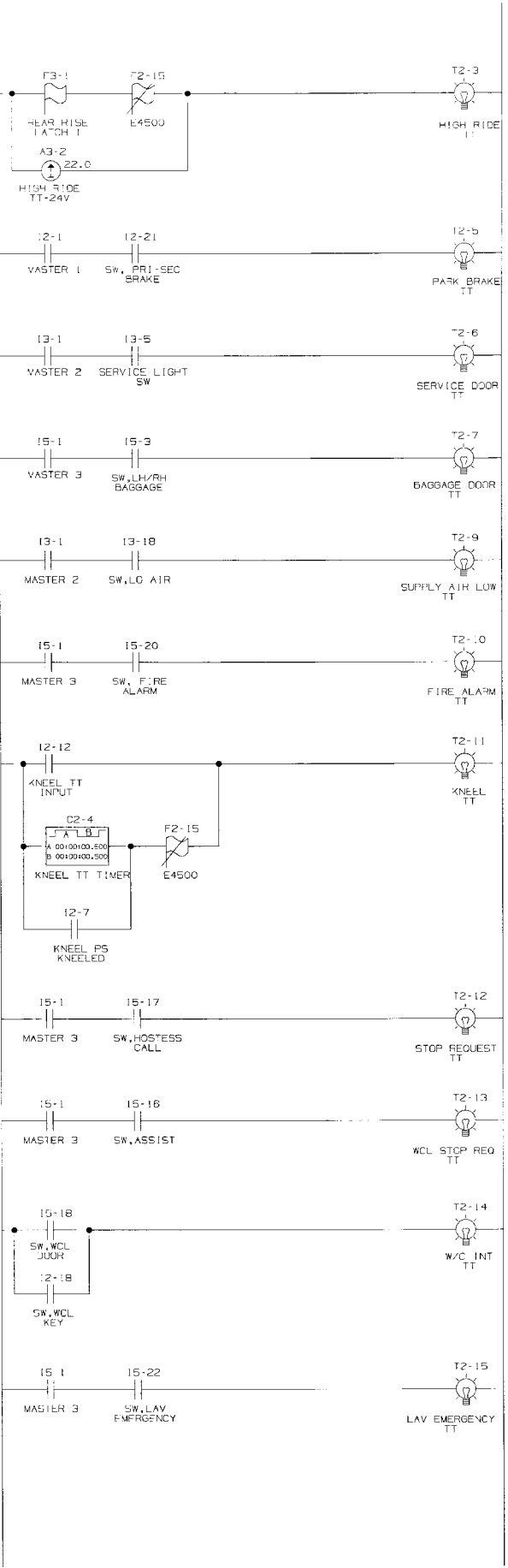
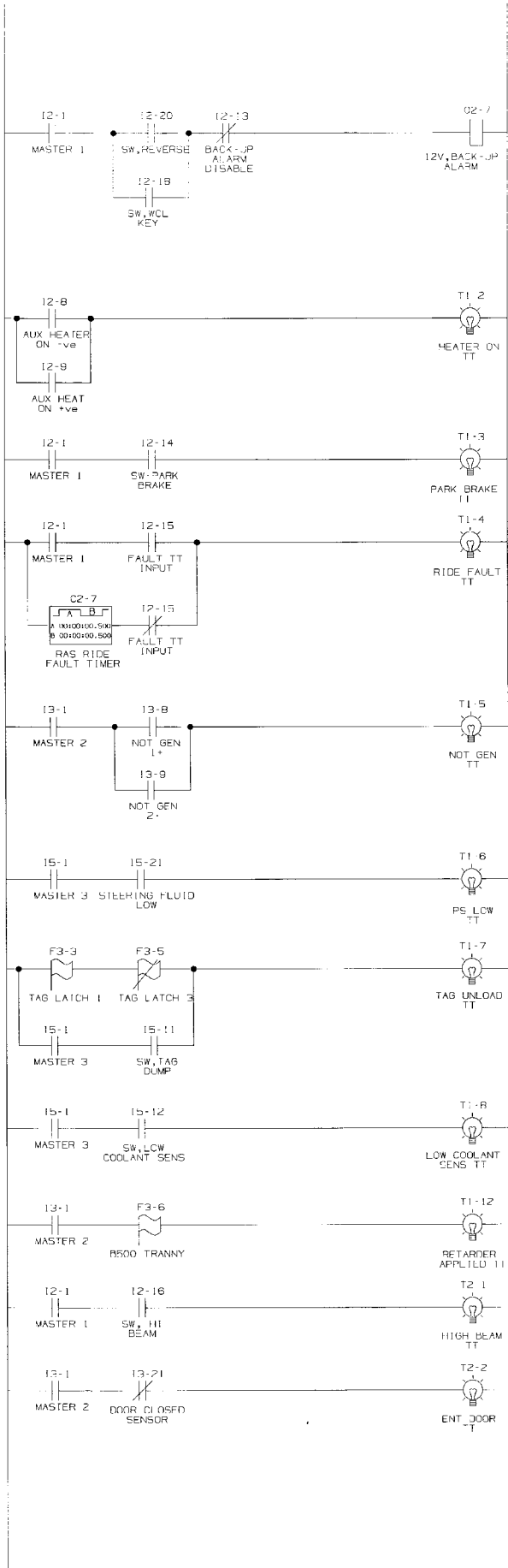




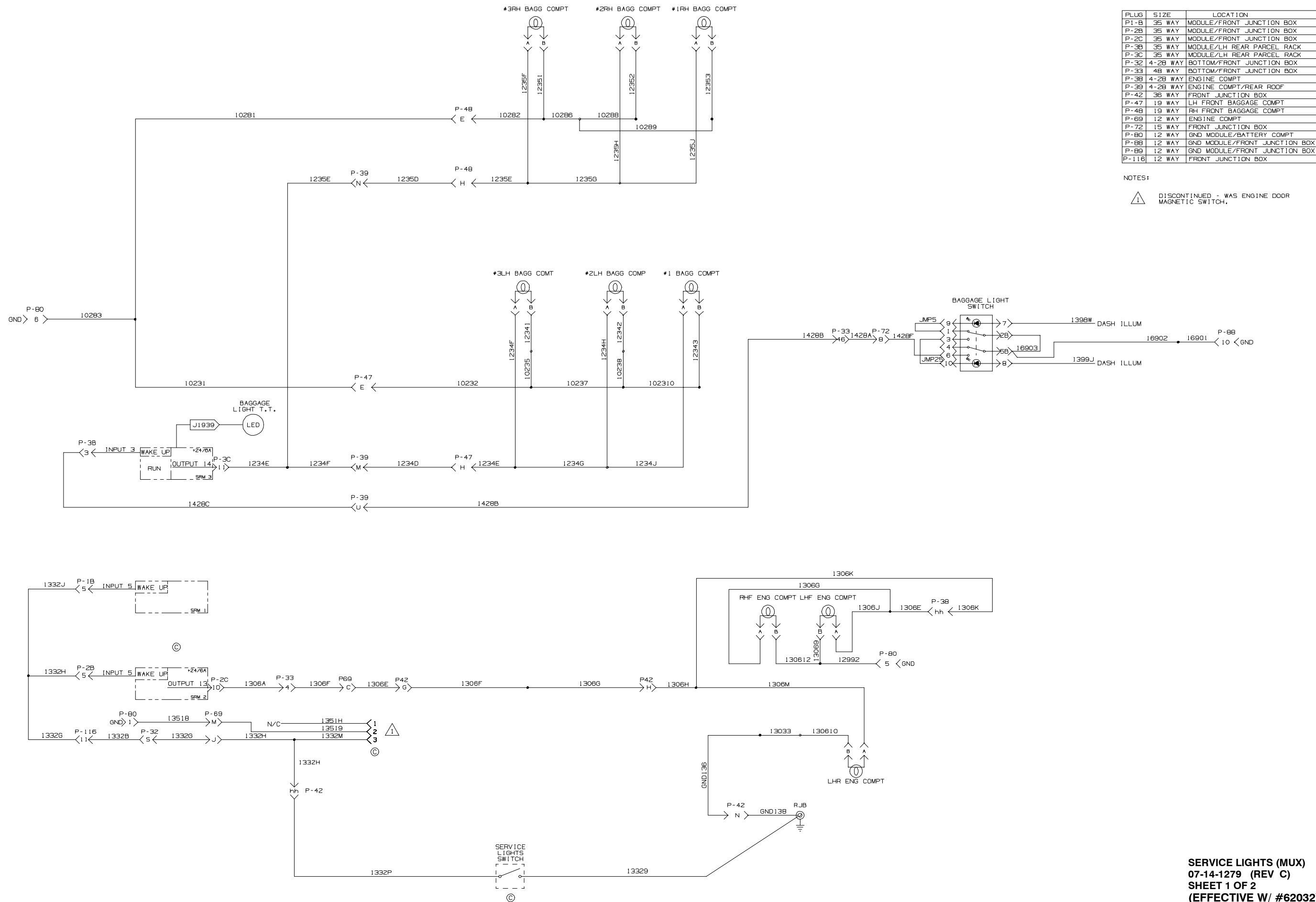


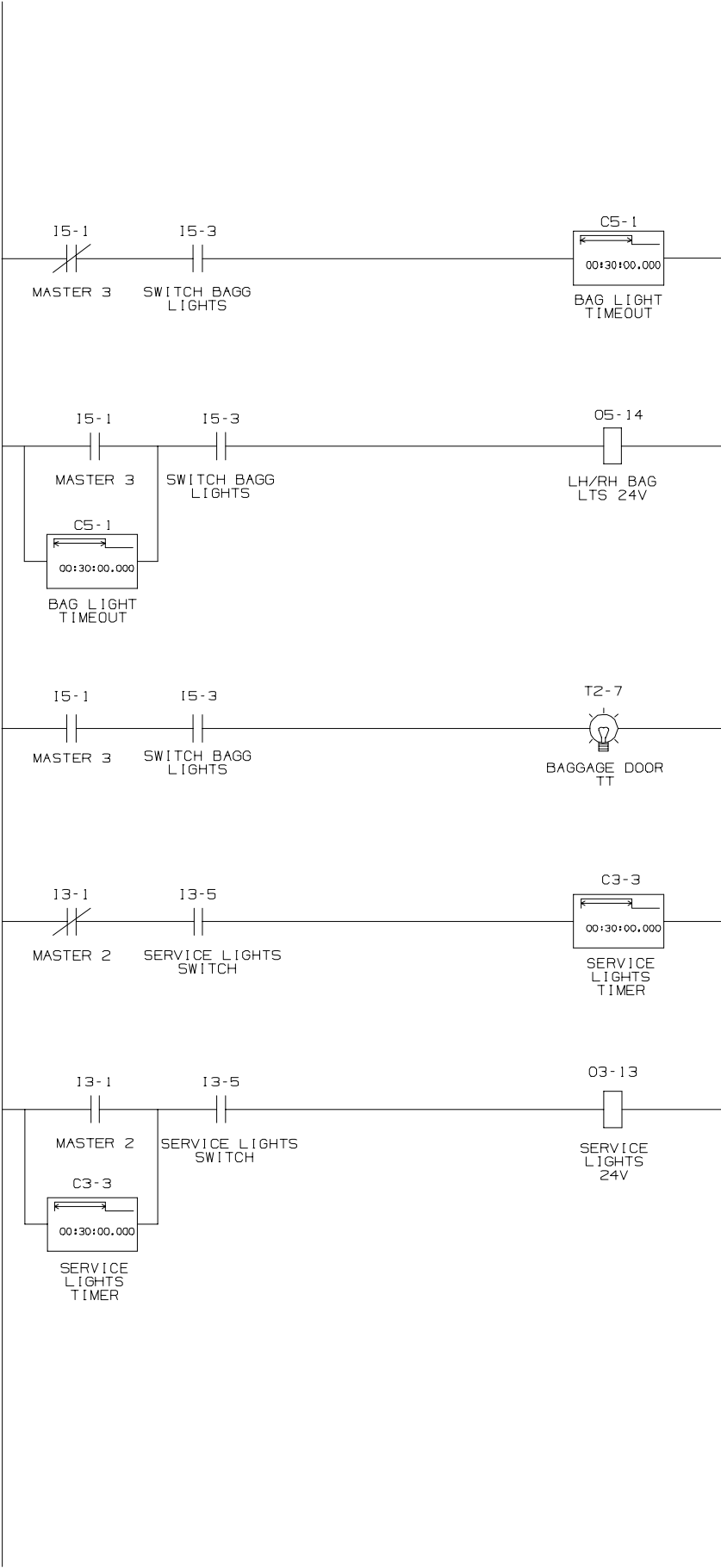
ALARMS & TELLTALES (MUX)
07-14-1278 (REV D)
SHEET 2 OF 4
(EFFECTIVE W/ #62032)





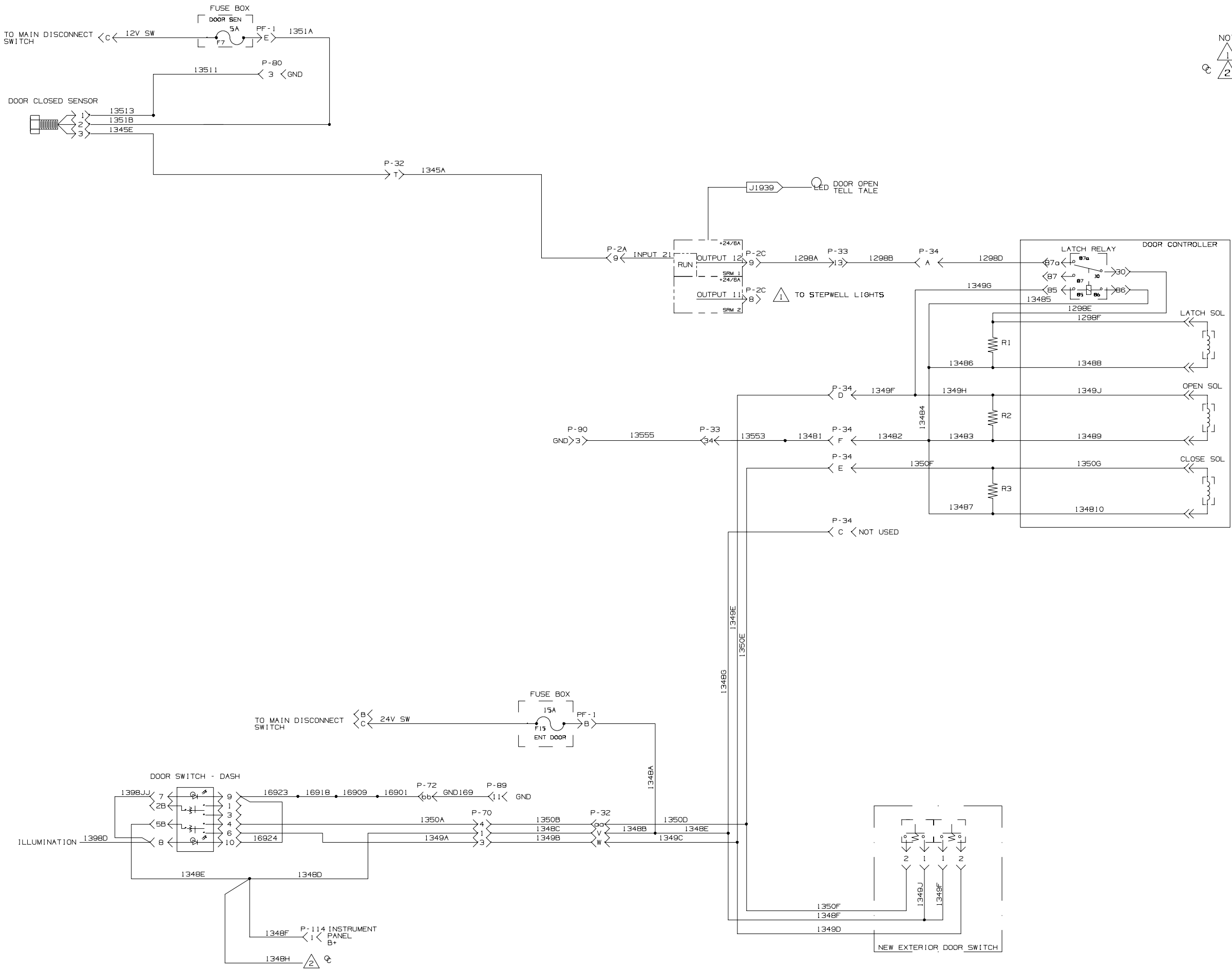
SYMBOL	MEANING
	ACTIVE DIGITAL INPUT
	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WIDTH MODULATION
	LOGIC
	MATHEMATICAL
	TIMER
	J1939 MESSAGE
	TELLTALE





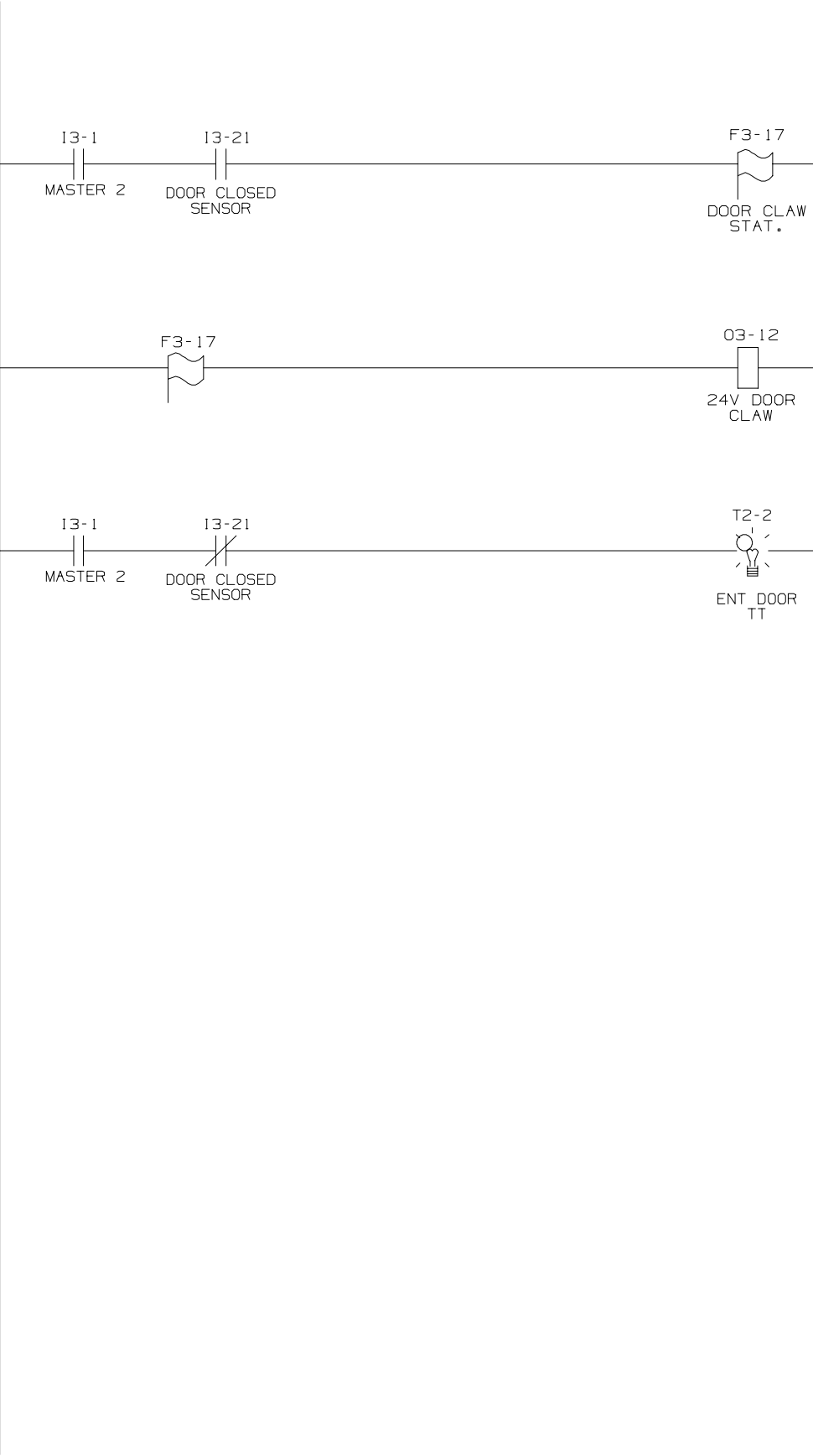
©

SYMBOL	MEANING
	ACTIVE DIGITAL INPUT
	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WITDTH MODULATION
	LOG
	MATHEMATICAL
	TIMER
	J1939 MESSAGE
	TELLTALE



NOTES:
1 SEE INTERIOR LIGHTING SCHEMATIC
2 SEE ZF TRANS SCHEMATIC

ENTRANCE DOOR (MUX)
07-14-1280 (REV C)
SHEET 1 OF 2
(EFFECTIVE W/ #62032)

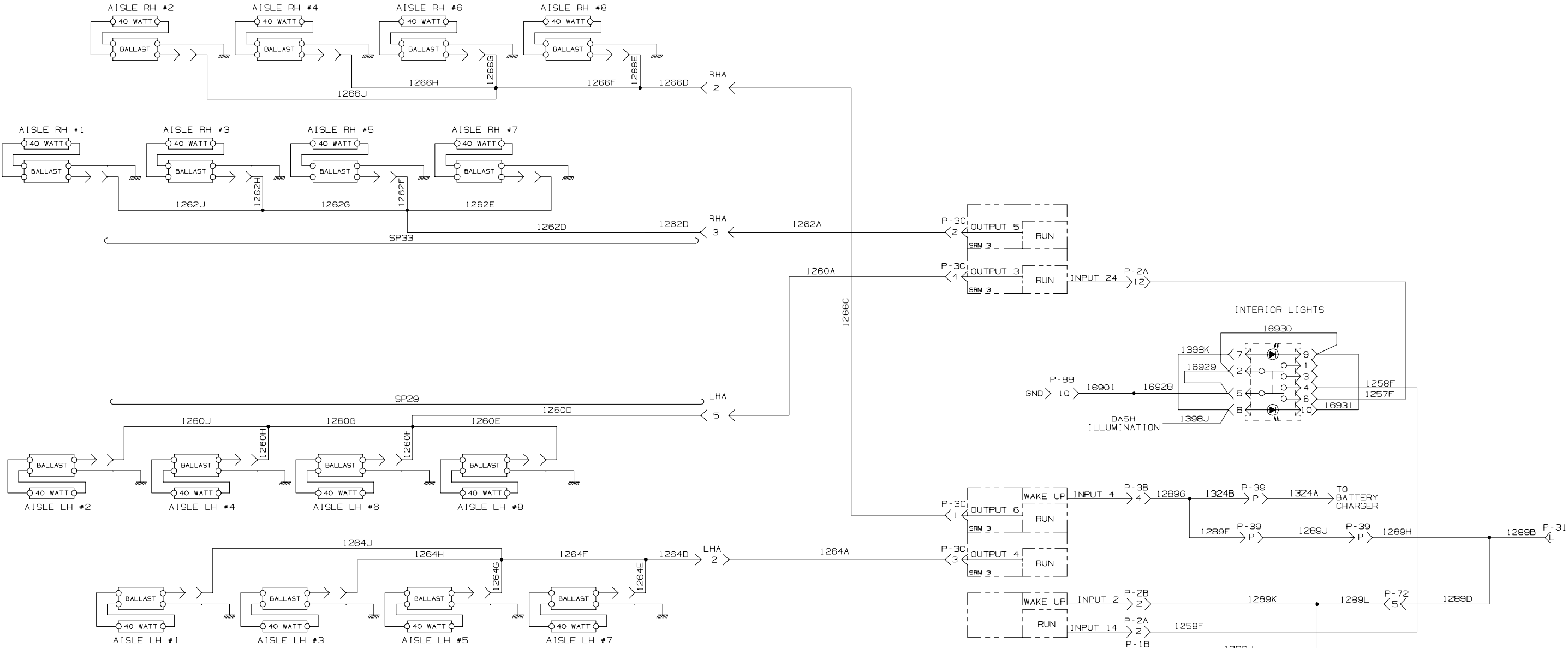


SYMBOL	MEANING
	ACTIVE DIGITAL INPUT
	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WITDTH MODULATION
	LOG
	MATHEMATICAL
	TIMER
	J1939 MESSAGE
	TELLTALE

PLUG	SIZE	LOCATION
P-2A	23 WAY	MODULE/FRONT JUNCTION BOX
P-2B	35 WAY	MODULE/FRONT JUNCTION BOX
P-3B	35 WAY	MODULE/LH REAR PARCEL RACK
P-3C	35 WAY	MODULE/LH REAR PARCEL RACK
P-39	4-28 WAY	ENGINE COMPT/REAR ROOF
P-88	12 WAY	GND MODULE/FRONT JUNCTION BOX

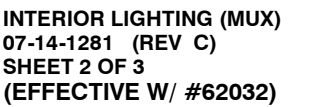
NOTES:

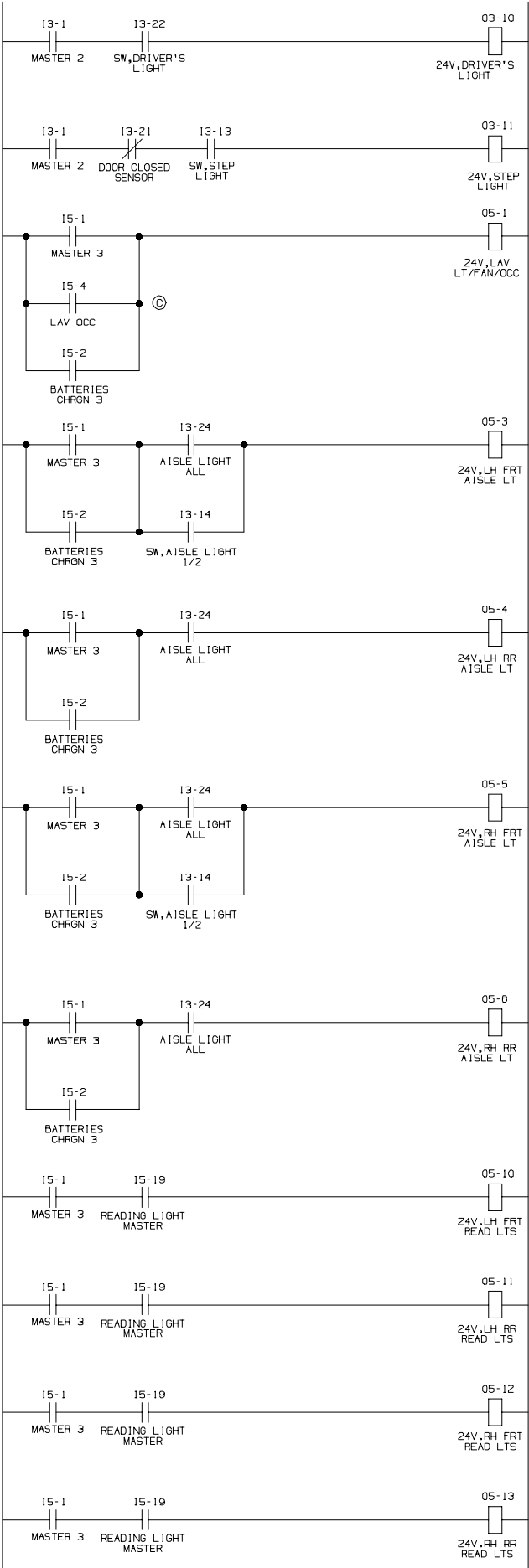
 REFER TO LADDER LOGIC ON PAGE 3.



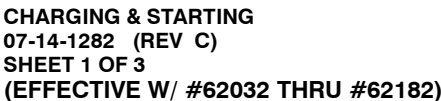
INTERIOR LIGHTING (MUX)
07-14-1281 (REV C)
SHEET 1 OF 3
(EFFECTIVE W/ #62032)

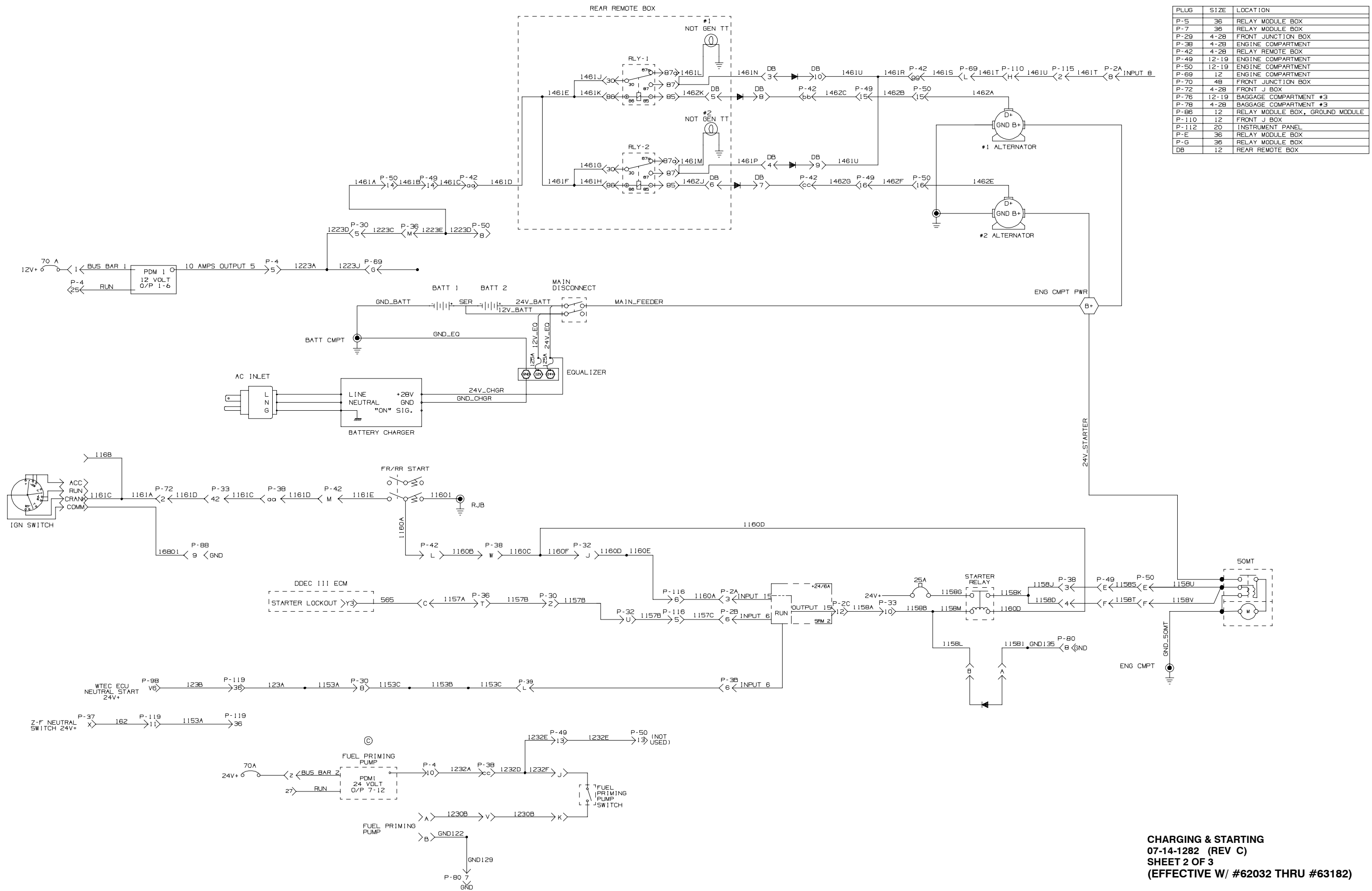
2 CKT 1269J AND 12692 ARE CONNECTED
TO PIN 1 AND 2 RESPECTIVELY ON RH
SERVICE MODULE 14 FOR LAV EQUIPPED
COACHS





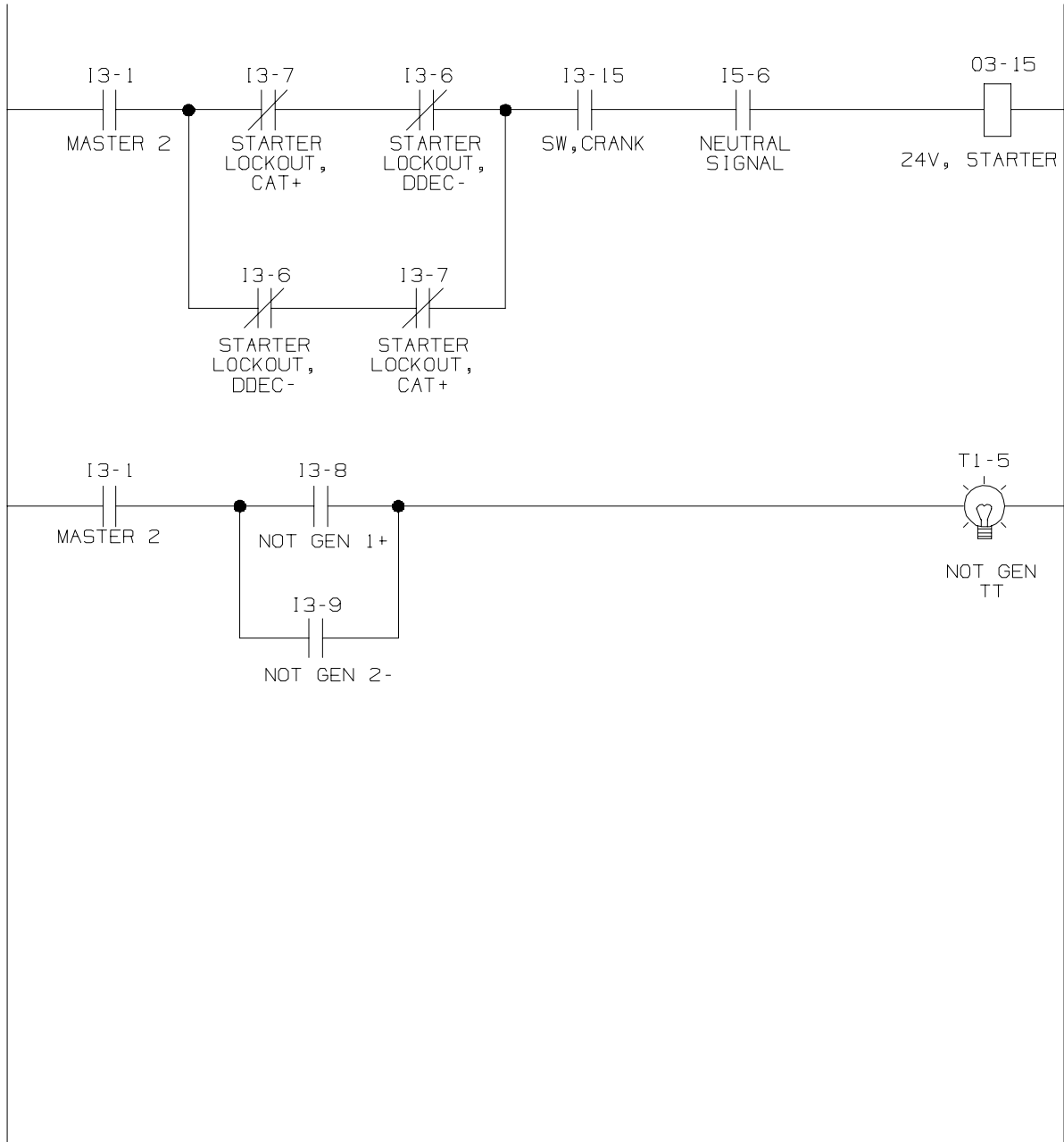
SYMBOL	MEANING
	ACTIVE DIGITAL INPUT
	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WIDTH MODULATION
	LOG
	MATHEMATICAL
	TIMER
	J1939 MESSAGE
	TELLTALE



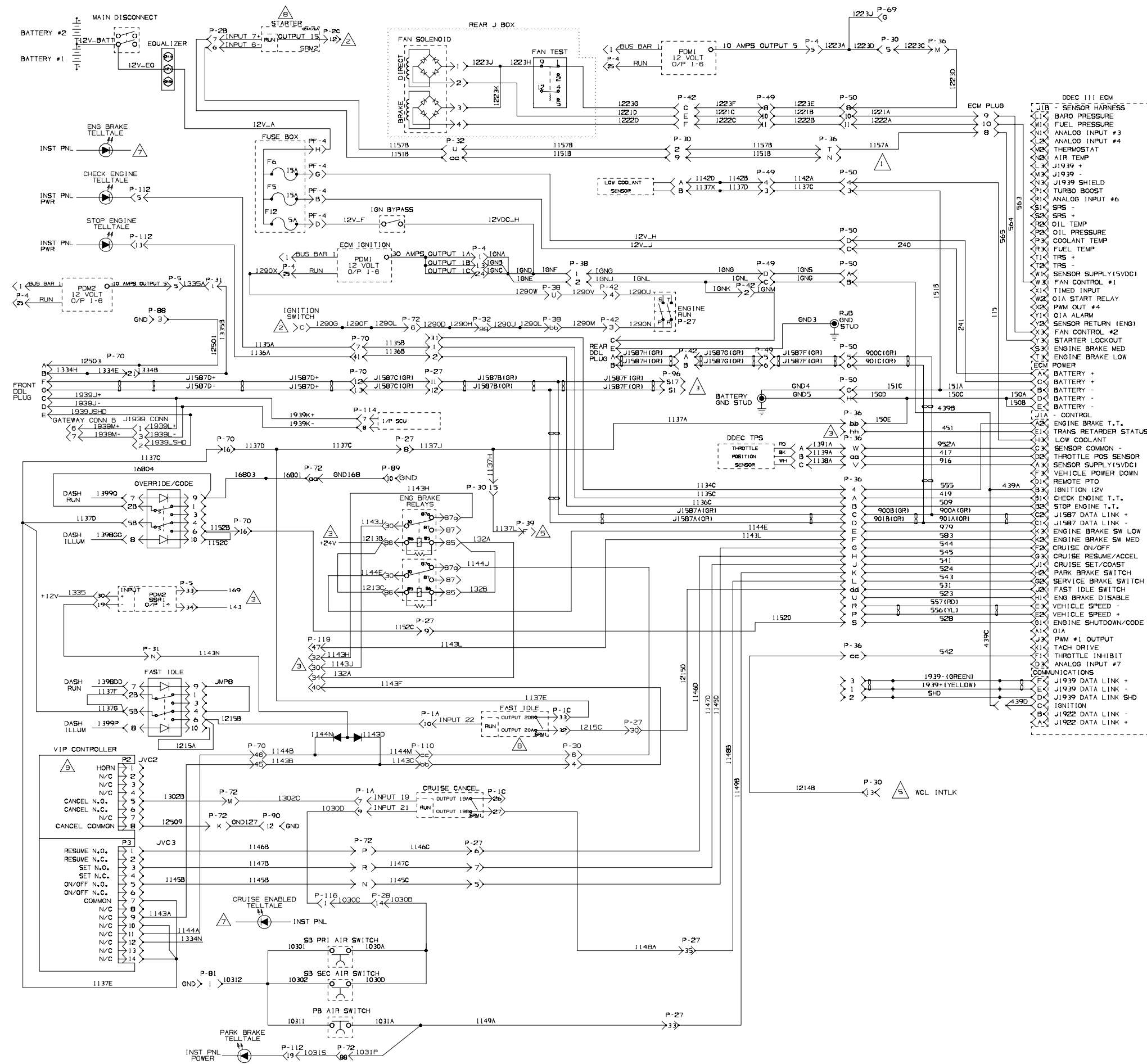


PLUG	SIZE	LOCATION
P-5	36	RELAY MODULE BOX
P-7	36	RELAY MODULE BOX
P-29	4-28	FRONT JUNCTION BOX
P-38	4-28	ENGINE COMPARTMENT
P-42	4-28	RELAY REMOTE BOX
P-49	12-19	ENGINE COMPARTMENT
P-50	12-19	ENGINE COMPARTMENT
P-69	12	ENGINE COMPARTMENT
P-70	48	FRONT JUNCTION BOX
P-72	4-28	FRONT J BOX
P-76	12-19	BAGGAGE COMPARTMENT #3
P-78	4-28	BAGGAGE COMPARTMENT #3
P-86	12	RELAY MODULE BOX, GROUND MODULE
P-110	12	FRONT J BOX
P-112	20	INSTRUMENT PANEL
P-E	36	RELAY MODULE BOX
P-G	36	RELAY MODULE BOX
DB	12	REAR REMOTE BOX

CHARGING & STARTING
07-14-1282 (REV C)
SHEET 2 OF 3
(EFFECTIVE W/ #62032 THRU #63182)



SYMBOL	MEANING
	ACTIVE DIGITAL INPUT
	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WIDTH MODULATION
	LOG
	MATHEMATICAL
	TIMER
	J1939 MESSAGE
	TELLTALE

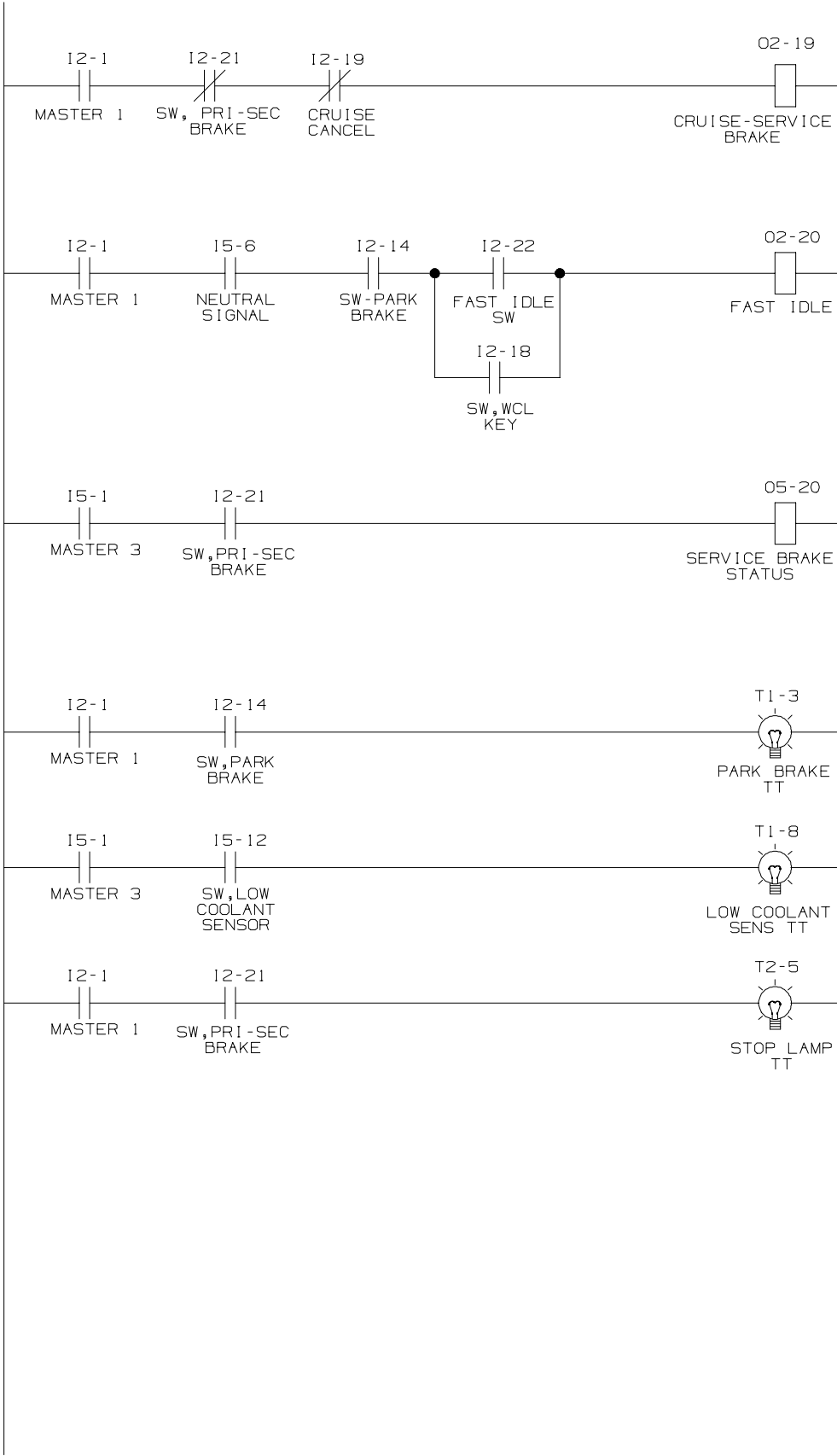


PLUG	SIZE	LOCATION
P-1	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-3	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-7	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-27	48 WAY	POWERTRAIN HRN AT FRONT J BOX
P-29	4-28 WAY	MAIN HRN AT FRONT J BOX
P-30	19 WAY	BEHIND ACCESS PANEL, #3 BAGGAGE CMPT.
P-36	4-28 WAY	ENGINE CMPT.
P-38	4-28 WAY	ENGINE CMPT.
P-42	4-28 WAY	REAR J BOX
P-49	12-19 WAY	ENGINE CMPT.
P-50	12-19 WAY	ENGINE CMPT.
P-54	30 WAY	BATTERY COMPARTMENT
P-70	48 WAY	FRONT J BOX
P-71	4-28 WAY	FRONT J BOX
P-72	19 WAY	FRONT J BOX
P-78	4-28 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-112	20 WAY	INSTRUMENT PANEL
P-114	24 WAY	INSTRUMENT PANEL
P-A	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-C	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-G	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.

NOTE:
1) DISCONNECT DDEC COMMUNICATIONS PLUG IF J1939 DATA LINK IS NOT USED TO PREVENT ERROR CODE GENERATION. TIE BACK PLUG IN HARNESS AND CAP DDEC CONNECTOR.

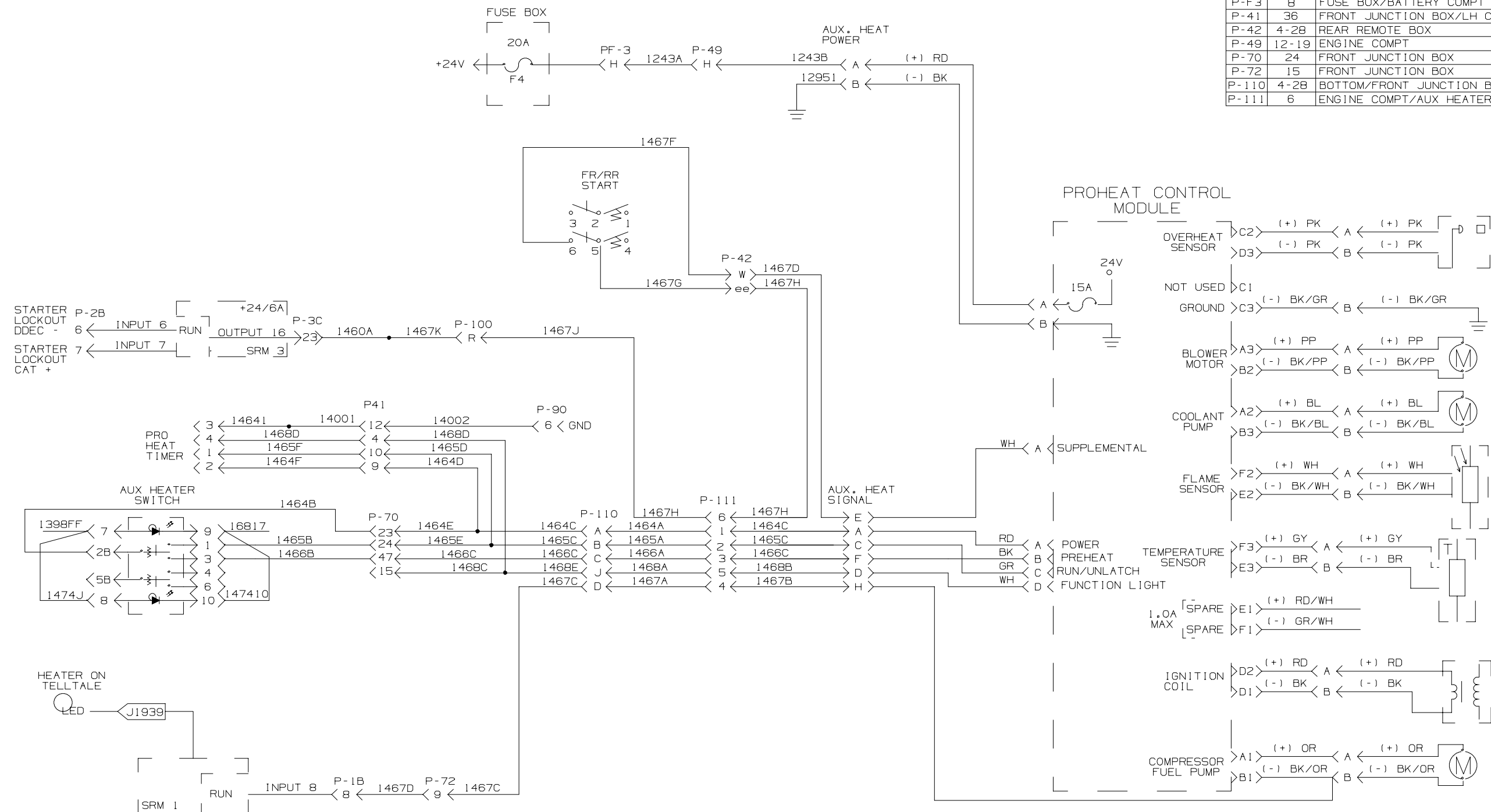
- 1 NOT REQUIRED FOR DDEC III.
- 2 REFER TO CHARGING AND STARTING SCHEMATIC.
- 3 REFER TO WTEC SCHEMATIC.
- 4 REFER TO EXTERIOR LIGHTING SCHEMATIC.
- 5 REFER TO WCL SCHEMATIC.
- 6 REFER TO KNEEL SCHEMATIC.
- 7 TELLTALE ACTIVATED WITH J1939 MESSAGE.
- 8 REFER TO LADDER LOGIC.
- 9 REFER TO VIP W/CRUISE & ENG BRK SCHEMATIC.

DDEC W/ WTEC 3
07-14-1283 (REV A)
SHEET 1 OF 2
(EFFECTIVE W/ #62032 THRU #62098)



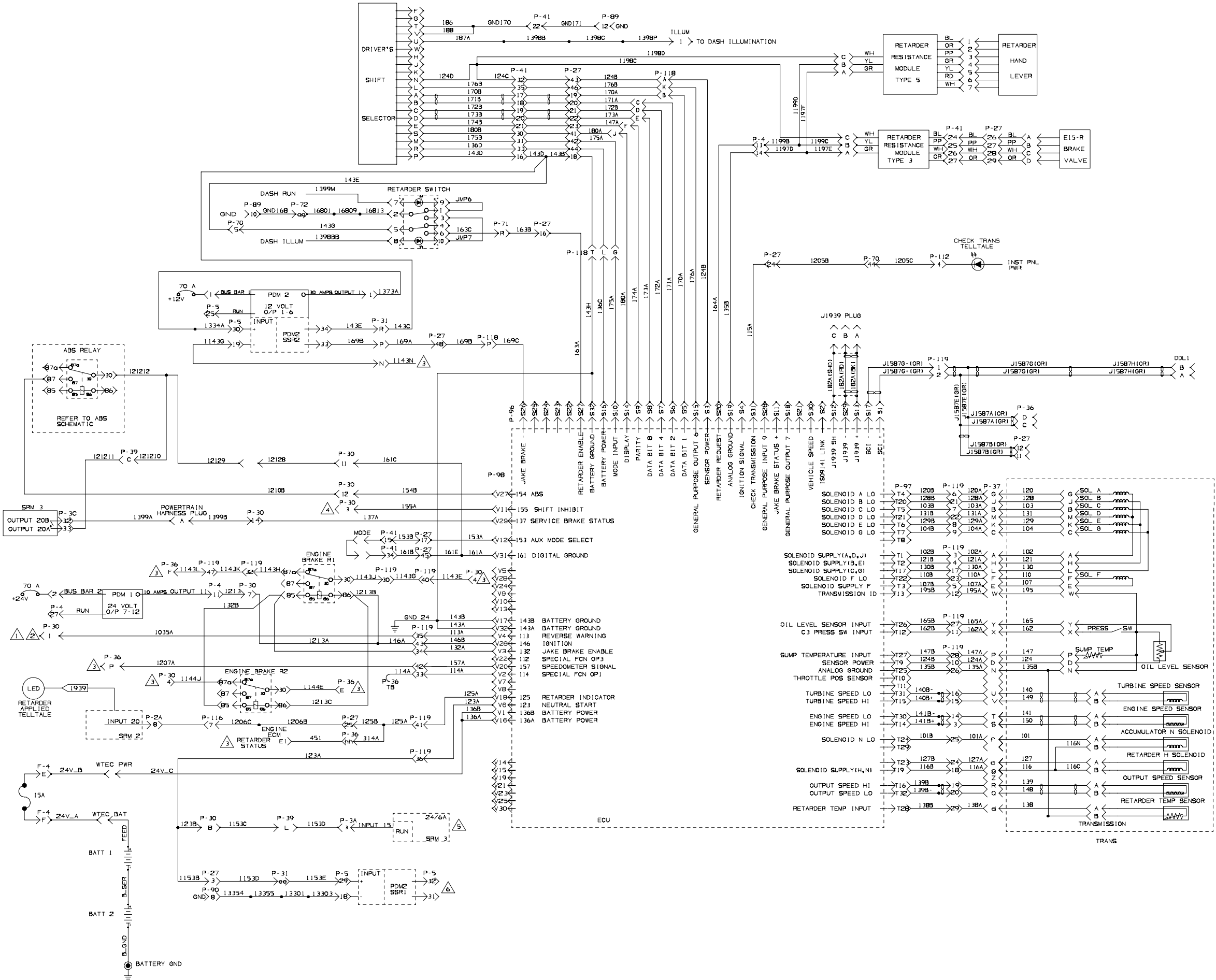
SYMBOL	MEANING
	ACTIVE DIGITAL INPUT
	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WIDTH MODULATION
	LOG
	MATHEMATICAL
	TIMER
	J1939 MESSAGE
	TELLTALE

**AUX HEAT (MUX)
07-14-1284 (REV B)
SHEET 1 OF 1
(EFFECTIVE W/ #62032)**

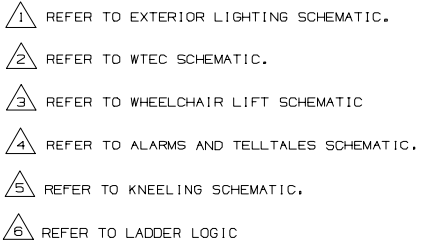


PLUG	SIZE	LOCATION
P-B	36 WAY	MODULE BOX, #1 BAGGAGE CMPT.
P-C	36 WAY	MODULE BOX, #1 BAGGAGE CMPT.
P-D	36 WAY	MODULE BOX, #1 BAGGAGE CMPT.
P-J	36 WAY	FRONT JUNCTION BOX
P-2	36 WAY	MODULE BOX, #1 BAGGAGE CMPT.
P-3	36 WAY	MODULE BOX, #1 BAGGAGE CMPT.
P-4	36 WAY	MODULE BOX, #1 BAGGAGE CMPT.
P-5	36 WAY	MODULE BOX, #1 BAGGAGE CMPT.
P-7	36 WAY	MODULE BOX, #1 BAGGAGE CMPT.
P-9	36 WAY	FRONT JUNCTION BOX
P-27	48 WAY	FRONT JUNCTION BOX
P-29	4-28 WAY	FRONT JUNCTION BOX
P-30	12 WAY	ABOVE FUEL TANK
P-36	4-28 WAY	RH ENGINE COMPARTMENT
P-37	31 WAY	ENGINE CMPT ABOVE TRANS.
P-54	30 WAY	BATTERY COMPARTMENT
P-55	18 WAY	BATTERY COMPARTMENT
P-71	19 WAY	FRONT JUNCTION BOX
P-72	4-28 WAY	FRONT J BOX TO DASH
P-77	12-19 WAY	RH, #1 BAGGAGE CMPT.
P-78	4-28 WAY	RH, #1 BAGGAGE CMPT.
P-81	12 WAY	BATTERY COMPARTMENT
P-89	12 WAY	FRONT JUNCTION BOX
P-96	24 WAY	BATTERY COMPARTMENT
P-97	24 WAY	BATTERY COMPARTMENT
P-98	24 WAY	BATTERY COMPARTMENT
F-4	8 WAY	BATTERY COMPARTMENT
ILLUM	2 WAY	FRONT JUNCTION BOX
MODE	1 WAY	FRONT JUNCTION BOX
PTT1	15 WAY	INSTRUMENT PANEL
PTT2	15 WAY	INSTRUMENT PANEL
WTEC	1 WAY	BATTERY COMPARTMENT
WTEC	1 WAY	BATTERY COMPARTMENT

- 1 REFER TO EXTERIOR LIGHTING
- 2 REFER TO ALARMS AND TELLTALES
- 3 REFER TO DDEC SCHEMATIC
- 4 REFER TO WCL SCHEMATIC
- 5 REFER TO CHARGING AND STARTING SCHEMATIC
- 6 REFER TO ECAS SCHEMATIC



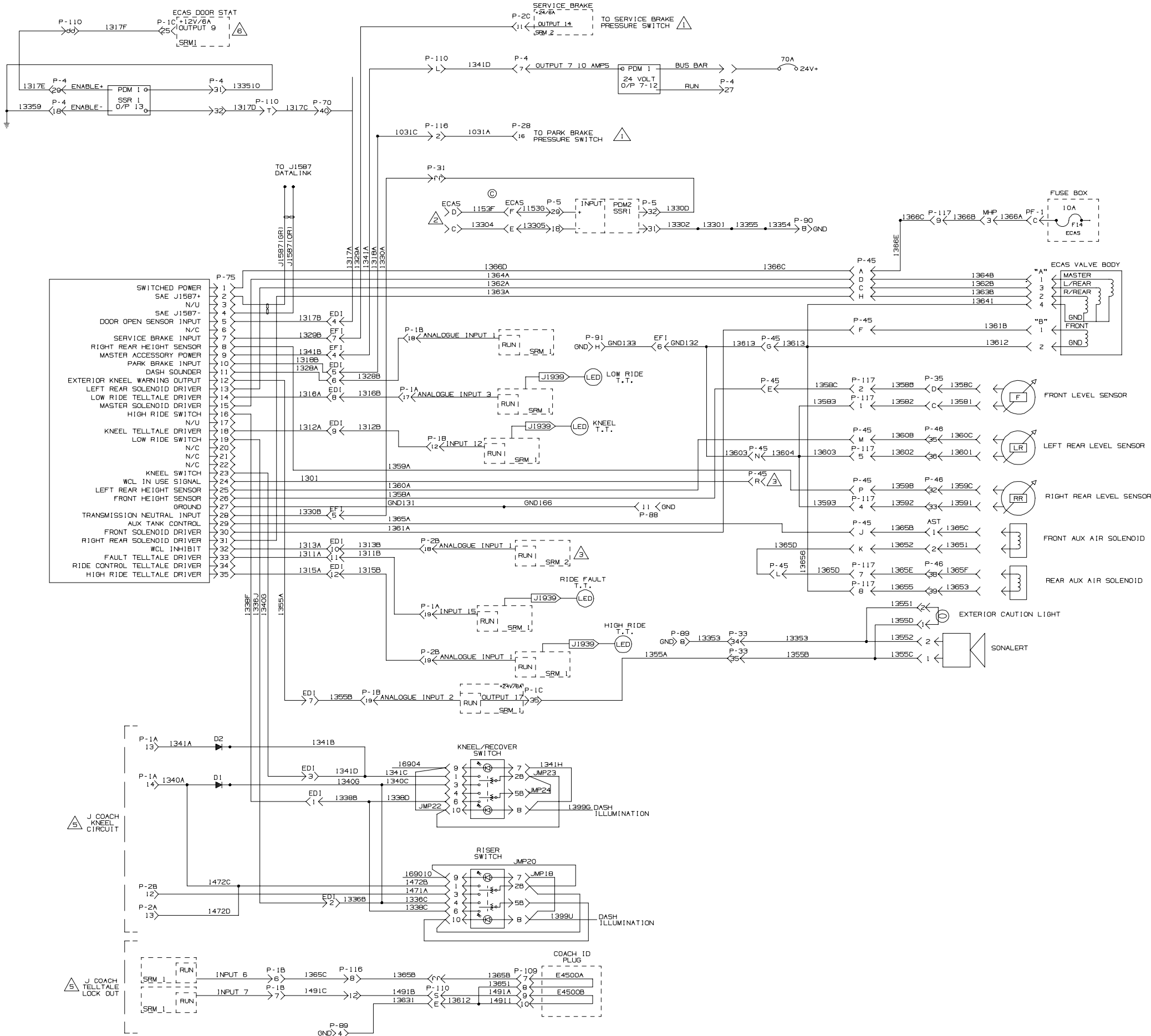
WTEC 3 (MUX)
07-14-1285 (REV A)
SHEET 1 OF 1
(EFFECTIVE W/ #62032)



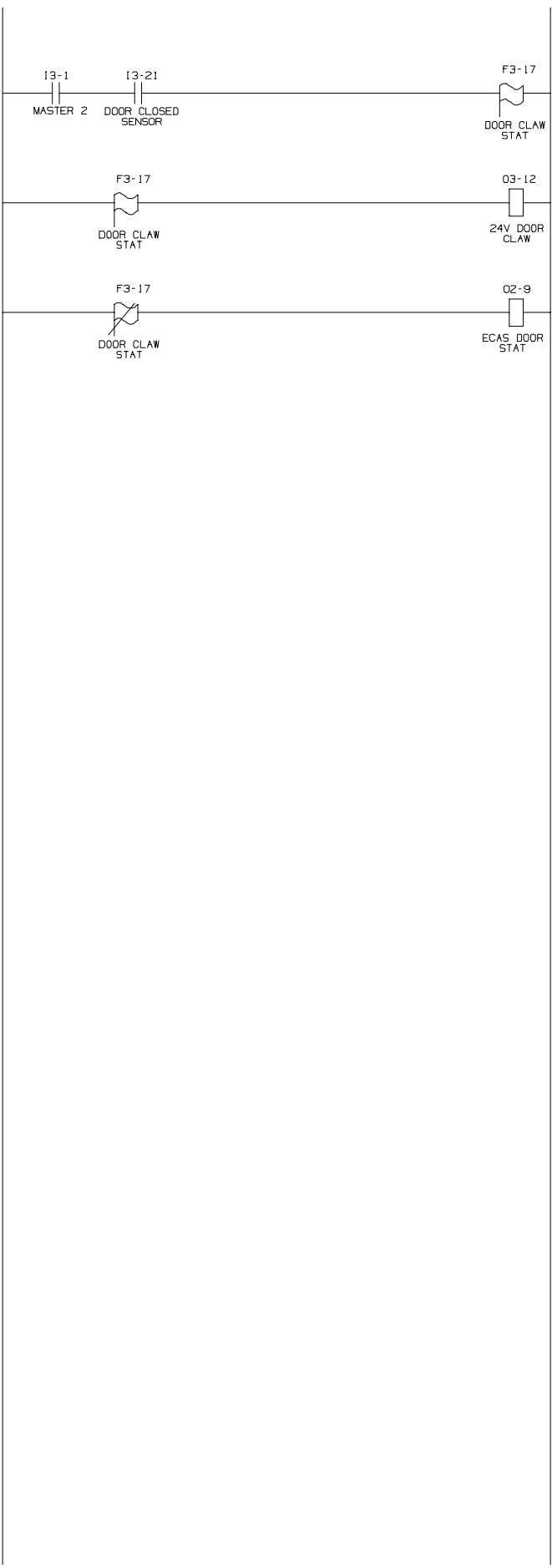
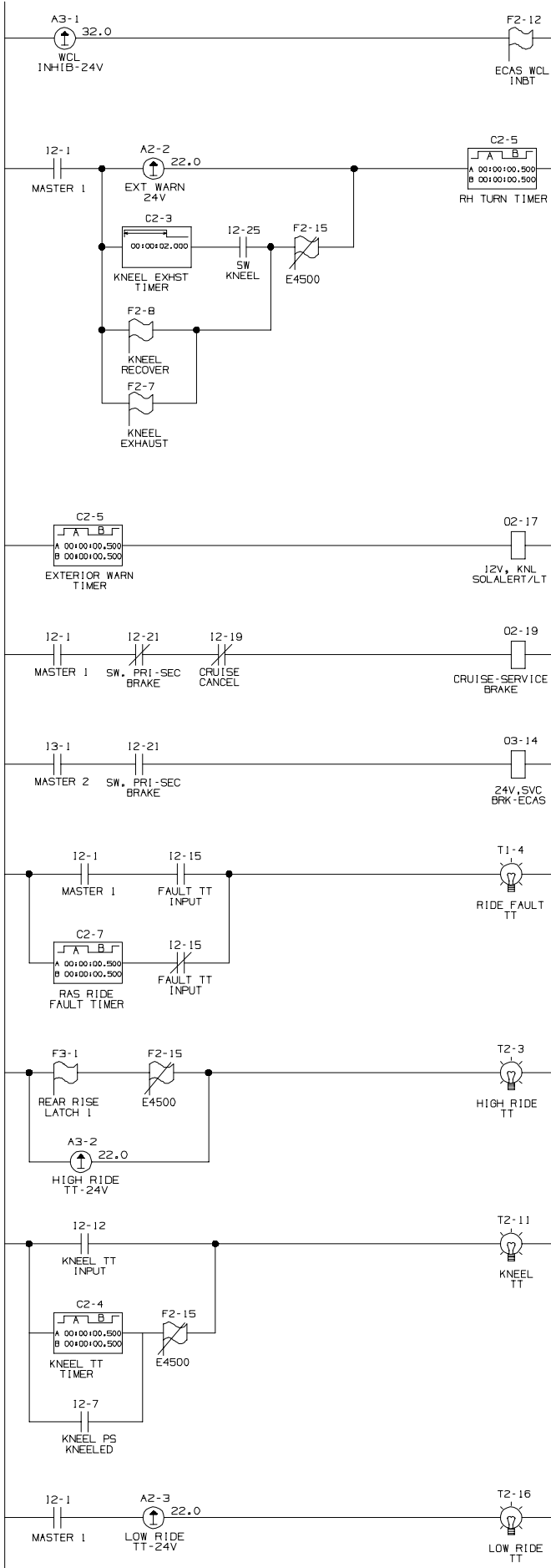
ECAS (MUX)
07-14-1286 (REV B)
SHEET 1 OF 2
(EFFECTIVE W/ #62032 Thru #63182)



ECAS (MUX)
07-14-1286 (REV B)
SHEET 2 OF 2
(EFFECTIVE W/ #62032 Thru #63182)

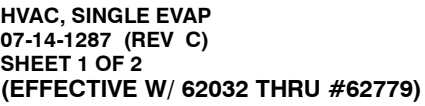


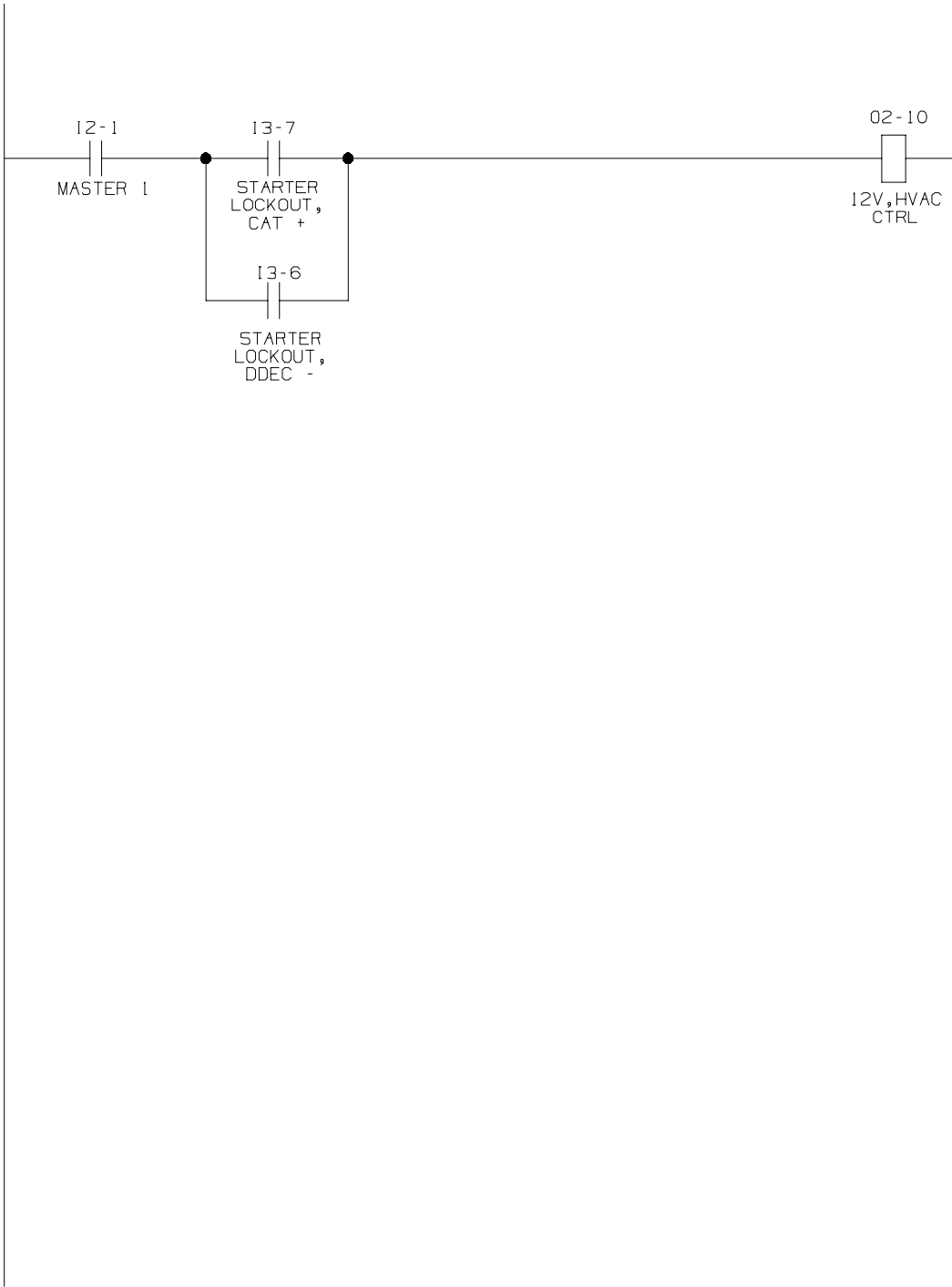
1. REFER TO EXTERIOR LIGHTING SCHEMATIC.
2. REFER TO WTEC SCHEMATIC.
3. REFER TO WHEELCHAIR LIFT SCHEMATIC
4. REFER TO ALARMS AND TELLTALES SCHEMATIC.
5. REFER TO KNEELING SCHEMATIC.
6. REFER TO LADDER LOGIC



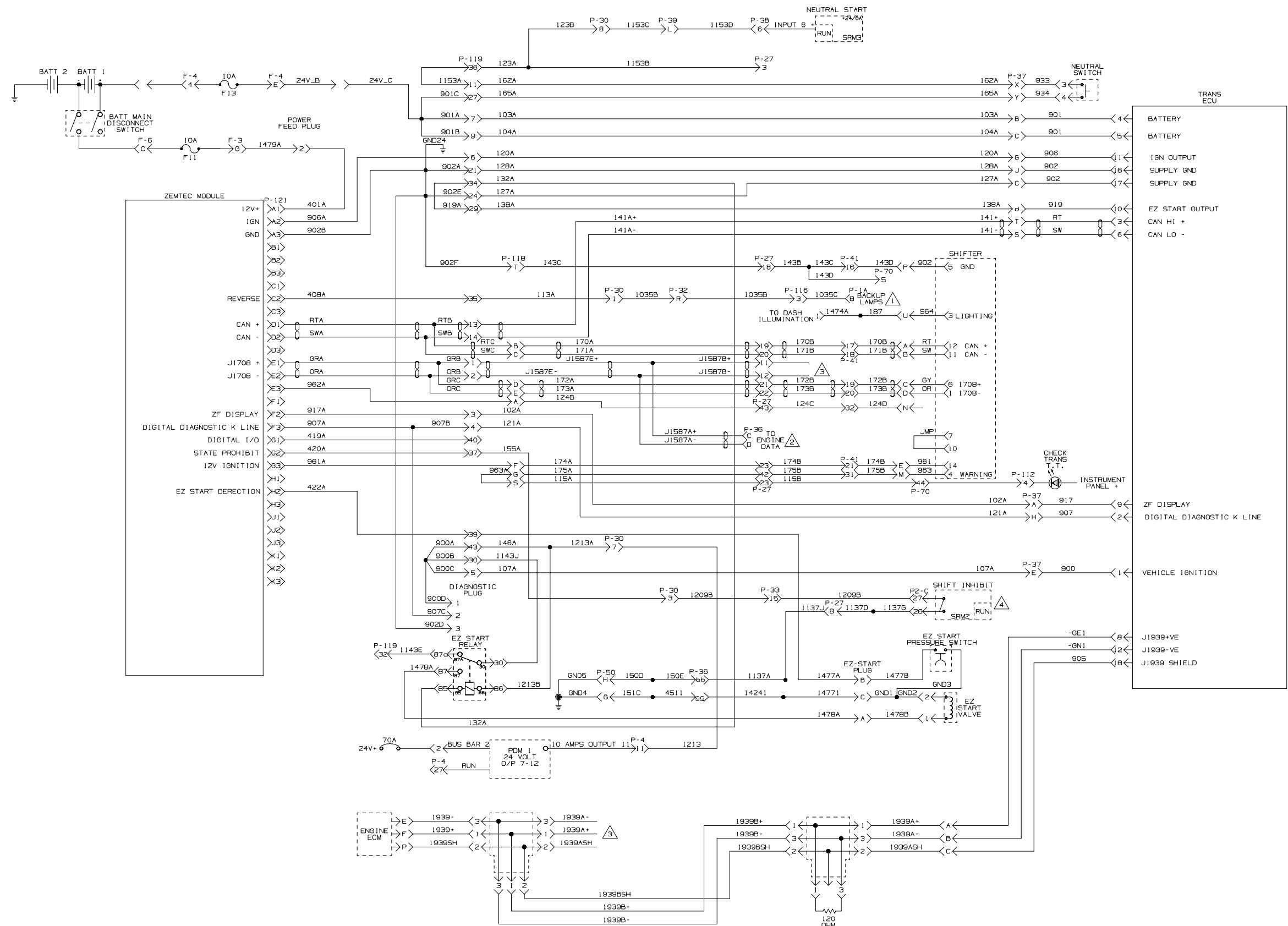
SYMBOL	MEANING
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	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WIDTH MODULATION
	LOG
	MATHEMATICAL
	TIMER
	J1939 MESSAGE
	TELLTALE

ECAS (MUX)
07-14-1286 (REV C)
SHEET 2 OF 2
(EFFECTIVE W/ #62183)



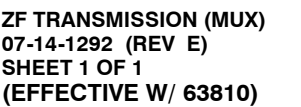


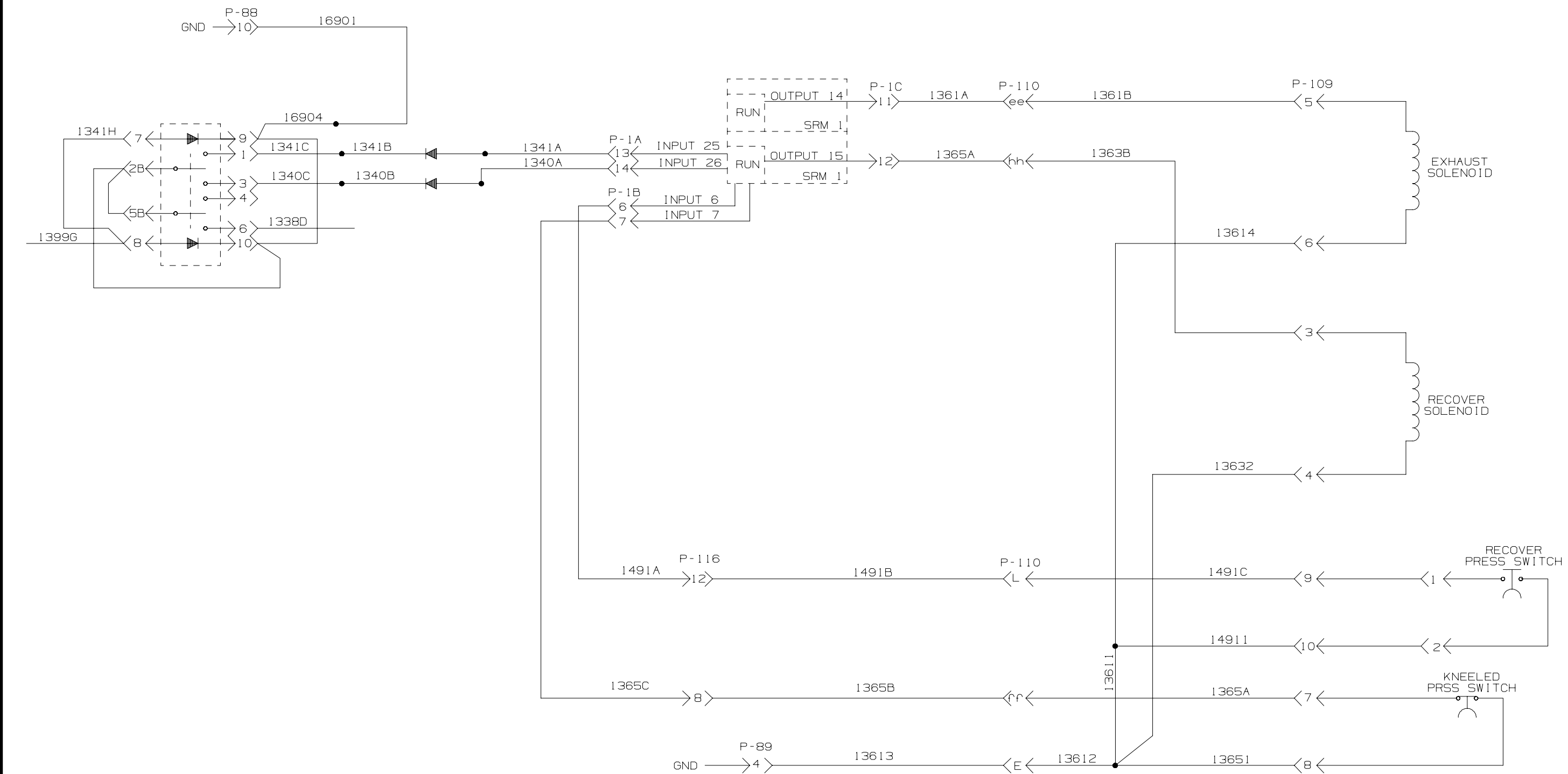
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	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WIDTH MODULATION
	LOG
	MATHEMATICAL
	TIMER
	J1939 MESSAGE
	TELLTALE



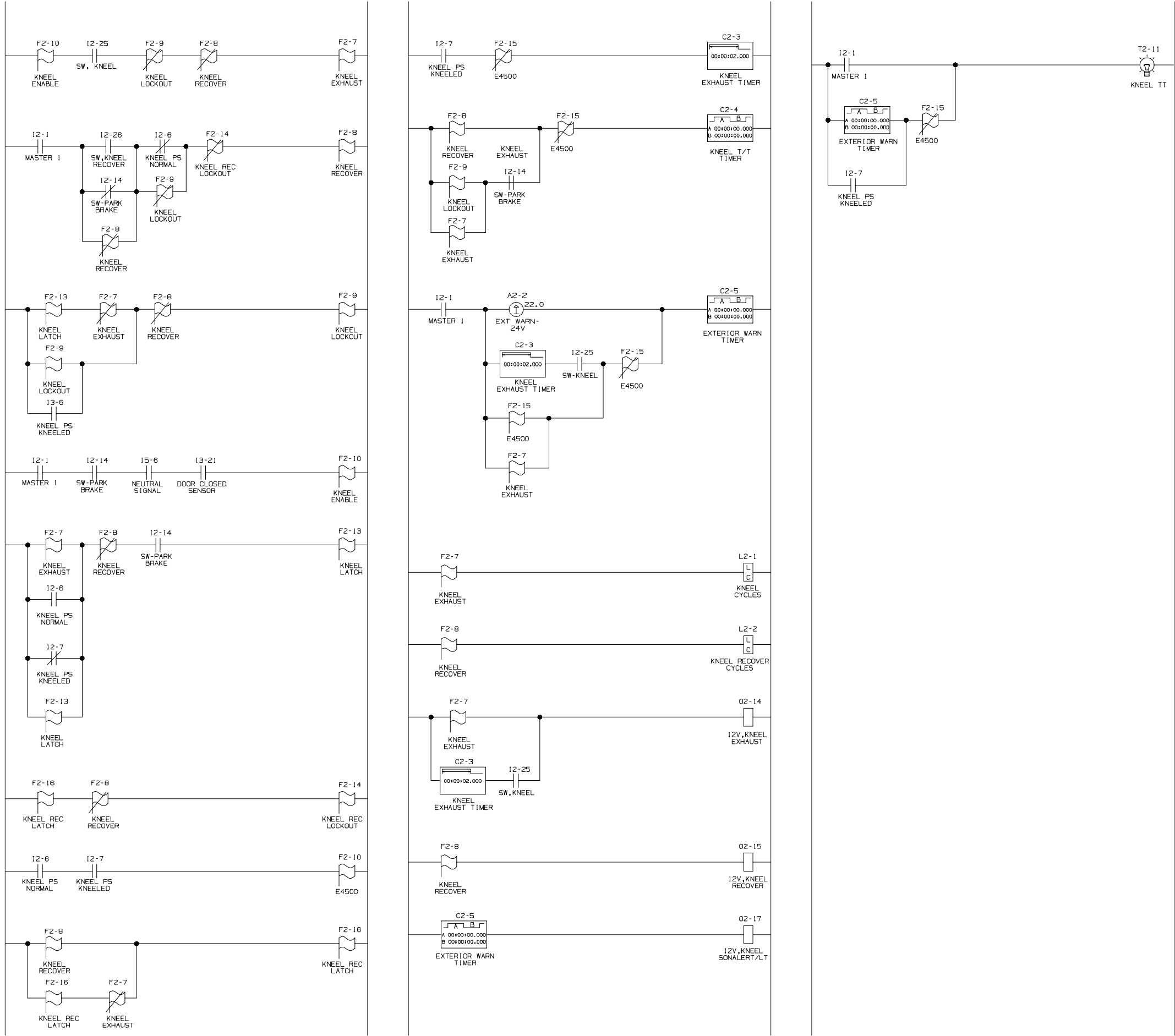
PLUG	SIZE	LOCATION
F-3	8	FUSE BOX/BATTERY COMPT
F-4	8	FUSE BOX/BATTERY COMPT
P-1A	23	MODULE/FRONT JUNCTION BOX
P-3B	35	MODULE/LH REAR PARCEL RACK
P-4	35	MODULE/LH FRONT SERVICE COMPT
P-27	48	BOTTOM/FRONT JUNCTION BOX
P-30	15	ABS BOX/REAR #1 BAGGAGE COMPT
P-31	4-28	REAR OF FRONT JUNCTION BOX
P-32	4-28	BOTTOM/FRONT JUNCTION BOX
P-33	48	BOTTOM/FRONT JUNCTION BOX
P-36	4-28	ENGINE COMPT
P-37	31	TRANSMISSION PLUG ENGINE COMPT
P-39	4-28	ENGINE COMPT/REAR ROOF
P-41	36	FRONT JUNCTION BOX/LH CONSOLE
P-118	19	BATTERY COMPT
P-119	48	BATTERY COMPT
P-121	30	BATTERY COMPT

- NOTES:
- 1 REFER TO EXTERIOR LIGHT SCHEMATIC.
 - 2 REFER TO DDEC SCHEMATIC.
 - 3 REFER TO ALARM AND TELLTALES SCHEMATIC.
 - 4 REFER TO WCL SCHEMATIC.





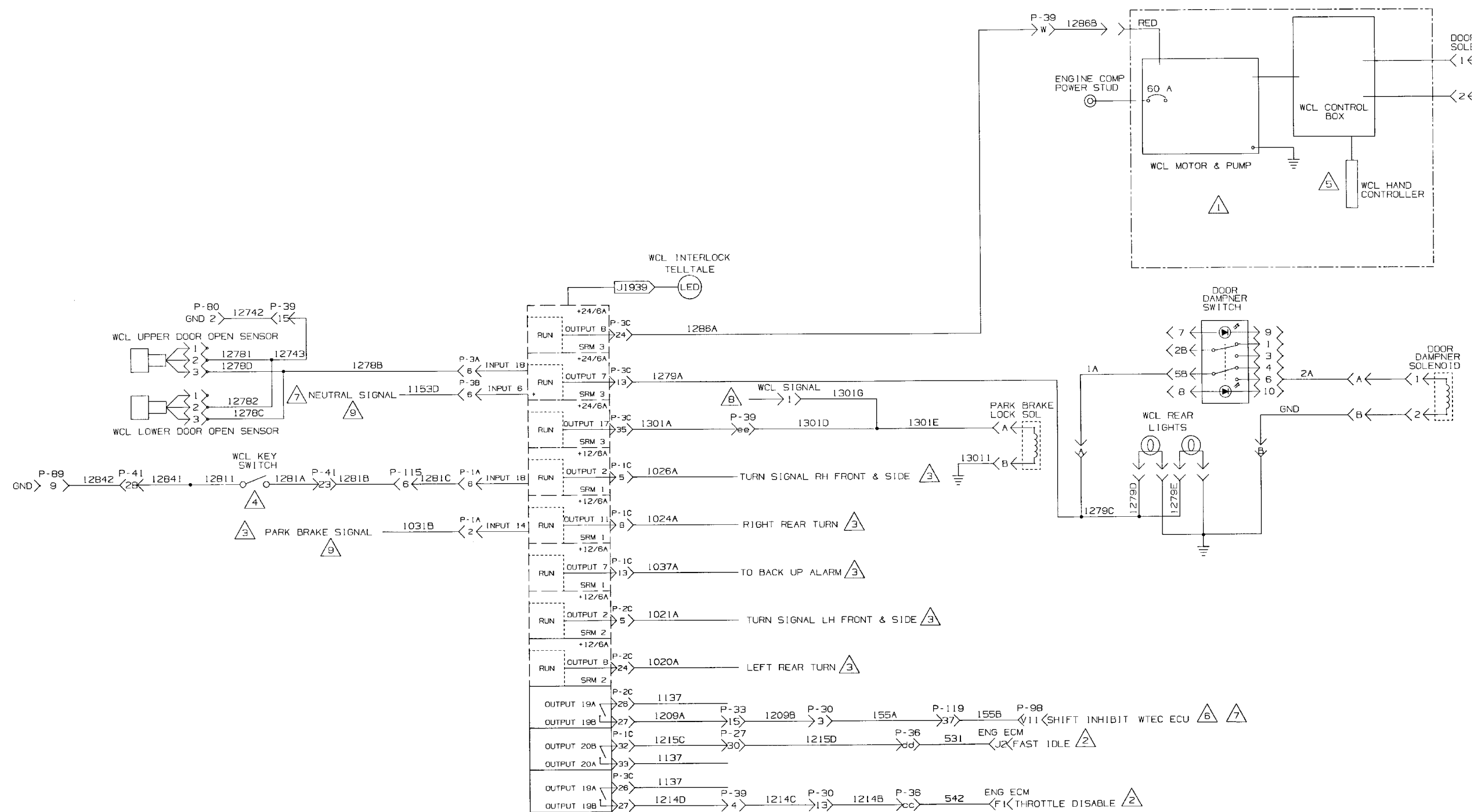
KNEELING (MUX)
07-14-1297 (REV A)
SHEET 1 OF 2
(EFFECTIVE W/ #62032)



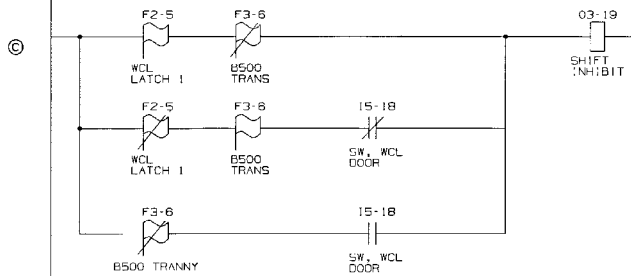
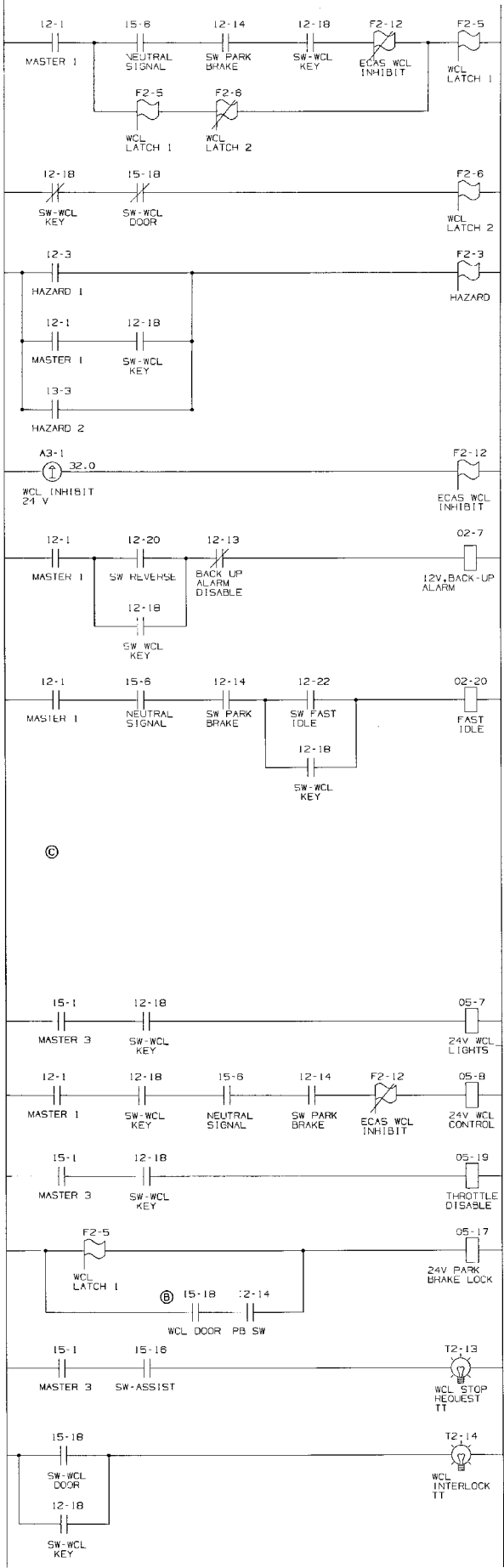
SYMBOL	MEANING
	ACTIVE DIGITAL INPUT
	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WIDTH MODULATION
	LOG
	MATHEMATICAL
	TIMER
	J1939 MESSAGE
	TELLTAILE

KNEELING (MUX)
07-14-1297 (REV A)
SHEET 2 OF 2
(EFFECTIVE W/ #62032)

PLUG	SIZE	LOCATION
P-1A	23	MODULE/FRONT J BOX
P-1C	35	MODULE/FRONT J BOX
P-2C	35	MODULE/FRONT J BOX
P-3A	23	MODULE/LH REAR PARCEL RACK
P-3B	35	MODULE/LH REAR PARCEL RACK
P-3C	35	MODULE/LH REAR PARCEL RACK
P-3O	15	ABS BOX REAR #1 BAGGAGE COMPT.
P-33	48R	BOTTOM FRONT J BOX
P-36	48	ENGINE COMPARTMENT
P-39	4-28	ENGINE COMPARTMENT REAR ROOF
P-41	36	FRONT J BOX
P-46	12	RND MODULE BATTERY COMPARTMENT
P-69	12	RND MODULE FRONT J BOX
P-68	32	TRANSMISSION ECU BATTERY COMPARTMENT
P-15	9	FRONT J BOX
P-19	46	BATTERY COMPARTMENT



WCL (MUX)
07-14-1315 (REV C)
SHEET 1 OF 2
(EFFECTIVE W/ #62032)



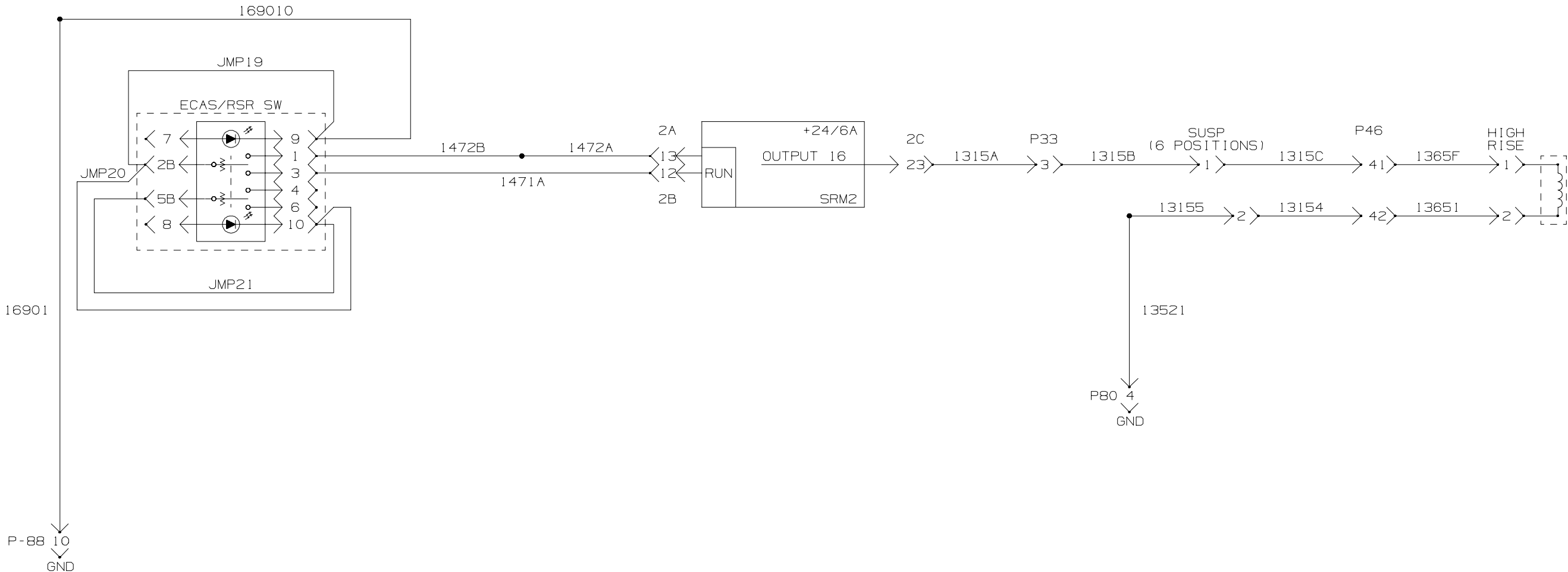
SYMBOL	MEANING
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	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WIDTH MODULATION
	LOG
	MATHEMATICAL
	TIMER
	J1939 MESSAGE
	TELLTALE

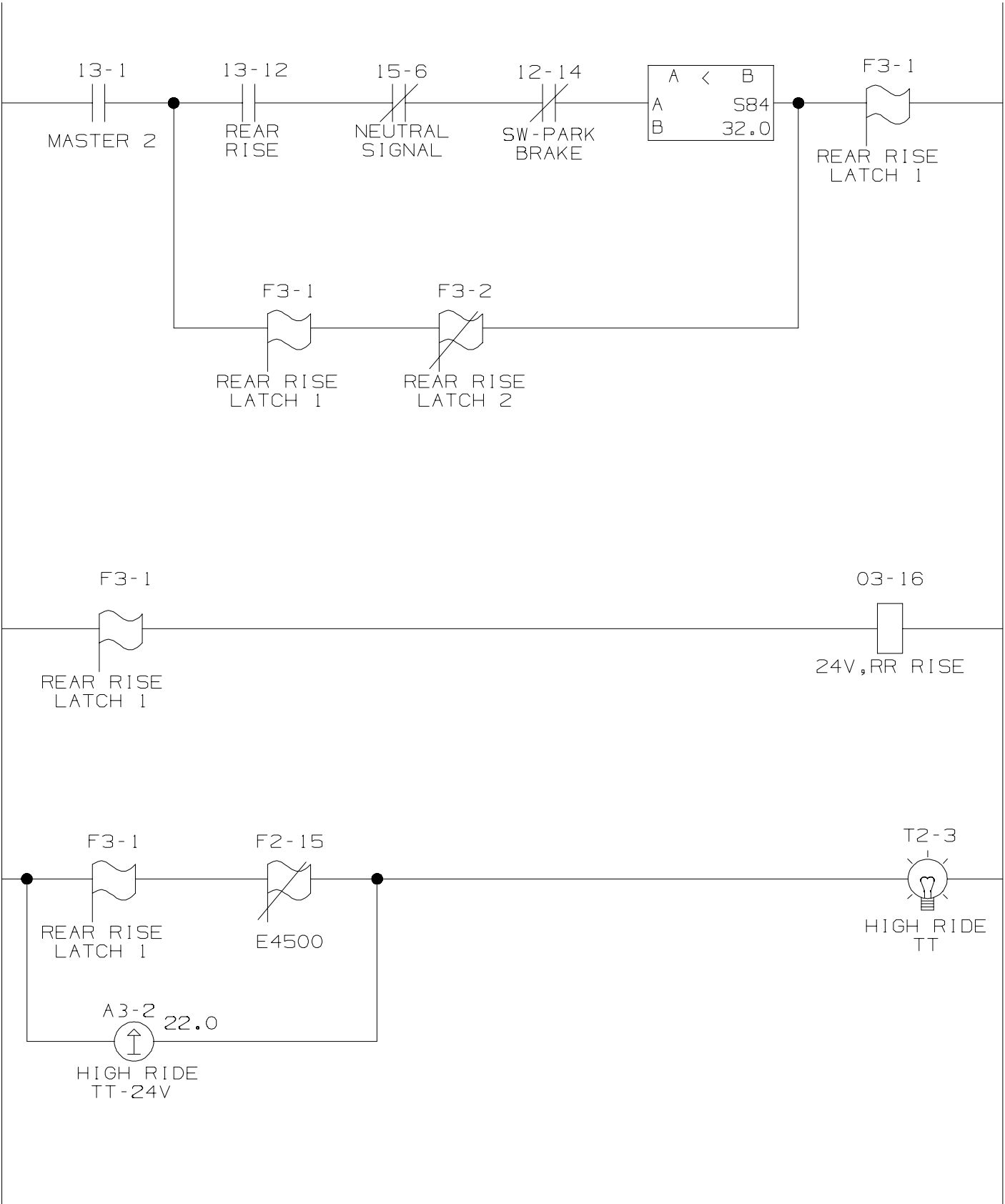
OPERATION

STEP	ACTION	RESULT
1	RUN ENGINE	PROVIDE ELECTRICAL POWER AND RUN & ACCESSORY SIGNAL
2	SELECT NEUTRAL	TRANSMISSION SHIFTS TO NEUTRAL
3	APPLY PARK BRAKE	PARK BRAKE APPLIES
4	RECOVER SUSPENSION	VEHICLE ASSUMES NORMAL RIDE HEIGHT
5	TURN ON FRONT WCL KEYSWITCH	THROTTLE DISABLED. WCL INTERLOCK TELLTALE ON. ENGINE AT FAST IDLE. FLASHERS ON. WCL (BACKUP) ALARM ON. PARK BRAKE LOCK VALVE ENERGIZED. NEUTRAL TO RANGE INHIBITED. SHIFT INHIBIT. WCL INTERIOR LIGHT ON. WCL CONTROLLER ENERGIZED.
6	OPEN LOWER WCL DOOR	APPLIES SECONDARY SIGNAL FOR: • PARK BRAKE LOCK VALVE. • NEUTRAL TO RANGE INHIBIT.
7	TURN ON HAND CONTROLLER KEYSWITCH	UPPER DOOR LOCK SOLENOID VALVE ENERGIZED
8	OPEN UPPER WCL DOOR	APPLIES SECONDARY SIGNAL FOR: • PARK BRAKE LOCK VALVE. • NEUTRAL TO RANGE INHIBIT.
9	TURN ON DAMPENER SWITCH	MAINTAINS UPPER WCL DOOR POSITION
10	OPERATE WCL AS REQUIRED	SEE S&S OPERATORS MANUAL
11	STOW LIFT	SEE S&S OPERATORS MANUAL
12	TURN OFF DAMPENER SWITCH	RELEASES UPPER WCL DOOR
13	CLOSE UPPER WCL DOOR	REMOVES SECONDARY SIGNAL FOR: • PARK BRAKE LOCK VALVE. • NEUTRAL TO RANGE INHIBIT.
14	TURN OFF HAND CONTROLLER KEYSWITCH	UPPER DOOR LOCK SOLENOID VALVE DE-ENERGIZED
15	CLOSE LOWER WCL DOOR	REMOVES SECONDARY SIGNAL FOR: • PARK BRAKE LOCK VALVE. • NEUTRAL TO RANGE INHIBIT.
16	TURN OFF FRONT WCL KEYSWITCH	THROTTLE ENABLED. WCL INTERLOCK TELLTALE OFF. ENGINE AT LOW IDLE. FLASHERS OFF. WCL (BACKUP) ALARM OFF. PARK BRAKE LOCK VALVE DE-ENERGIZED. NEUTRAL TO RANGE ENABLED. WCL INTERIOR LIGHT OFF. WCL CONTROLLER DE-ENERGIZED.

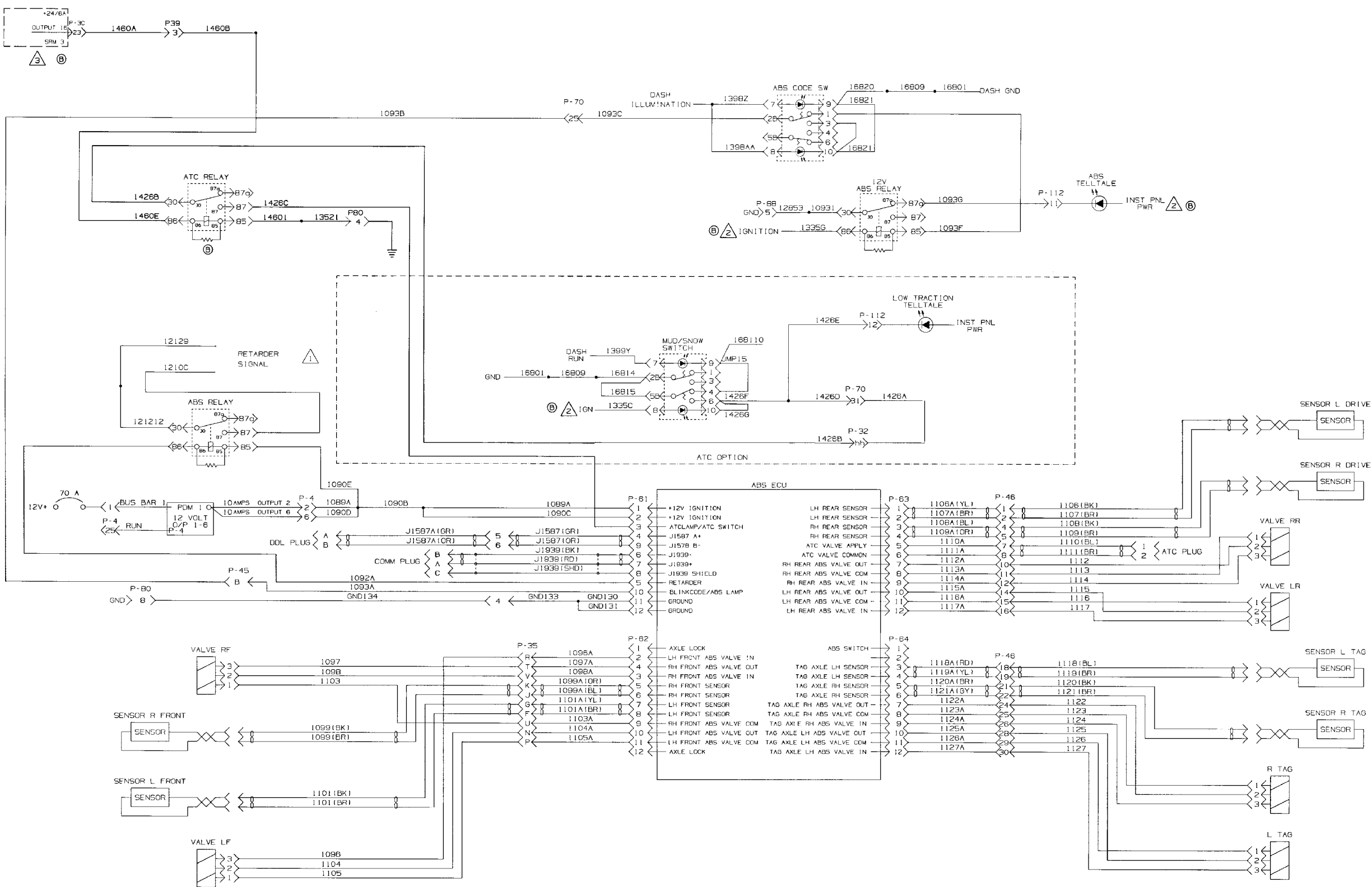
WCL (MUX)
07-14-1315 (REV C)
SHEET 2 OF 2
(EFFECTIVE W/ #62032)

PLUG	SIZE	LOCATION
2A	23 WAY	SRM 2,FRONT JUNCTION BOX
2B	35 WAY	SRM 2,FRONT JUNCTION BOX
2C	35 WAY	SRM 2,FRONT JUNCTION BOX
P-33	48 WAY	FRONT JUNCTION BOX
P-46	48 WAY	REAR BOGIE
P-80	12 WAY	BATTERY COMPARTMENT
P-88	12 WAY	FRONT JUNCTION BOX
HIGH RISE	2 WAY	HIGHRISE SOLENOID, REAR BOGIE
SUSP/MHP	6 WAY	ABS BOX, BAGGAGE BAY #1



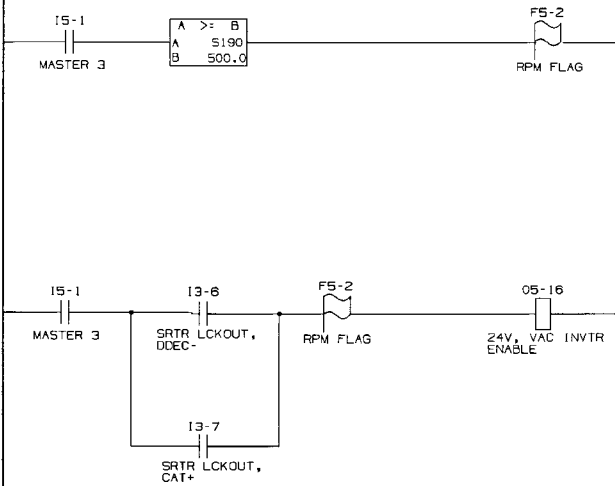


SYMBOL	MEANING
	ACTIVE DIGITAL INPUT
	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WITDTH MODULATION
	LOG
	MATHEMATICAL
	TIMER
	J1939 MESSAGE
	TELLTALE



PLUG	SIZE	LOCATION
P-2	35 WAY	MODULE/LH FRONT SERVICE COMPT
P-32	4-28 WAY	BOTTOM FRONT J BOX
P-35	19 WAY	FRONT BULKHEAD PANEL
P-45	19 WAY	FRONT J BOX
P-46	48 WAY	REAR BULKHEAD PANEL
P-61	12 WAY	ABS BOX/REAR #1 BAGGAGE COMPT
P-62	12 WAY	ABS BOX/REAR #1 BAGGAGE COMPT
P-63	12 WAY	ABS BOX/REAR #1 BAGGAGE COMPT
P-64	12 WAY	ABS BOX/REAR #1 BAGGAGE COMPT
P-71	48 WAY	FRONT J BOX TO DASH
P-72	4-28 WAY	FRONT J BOX TO DASH
P-80	12 WAY	BATTERY COMPARTMENT
P-112	20 WAY	INSTRUMENT PANEL

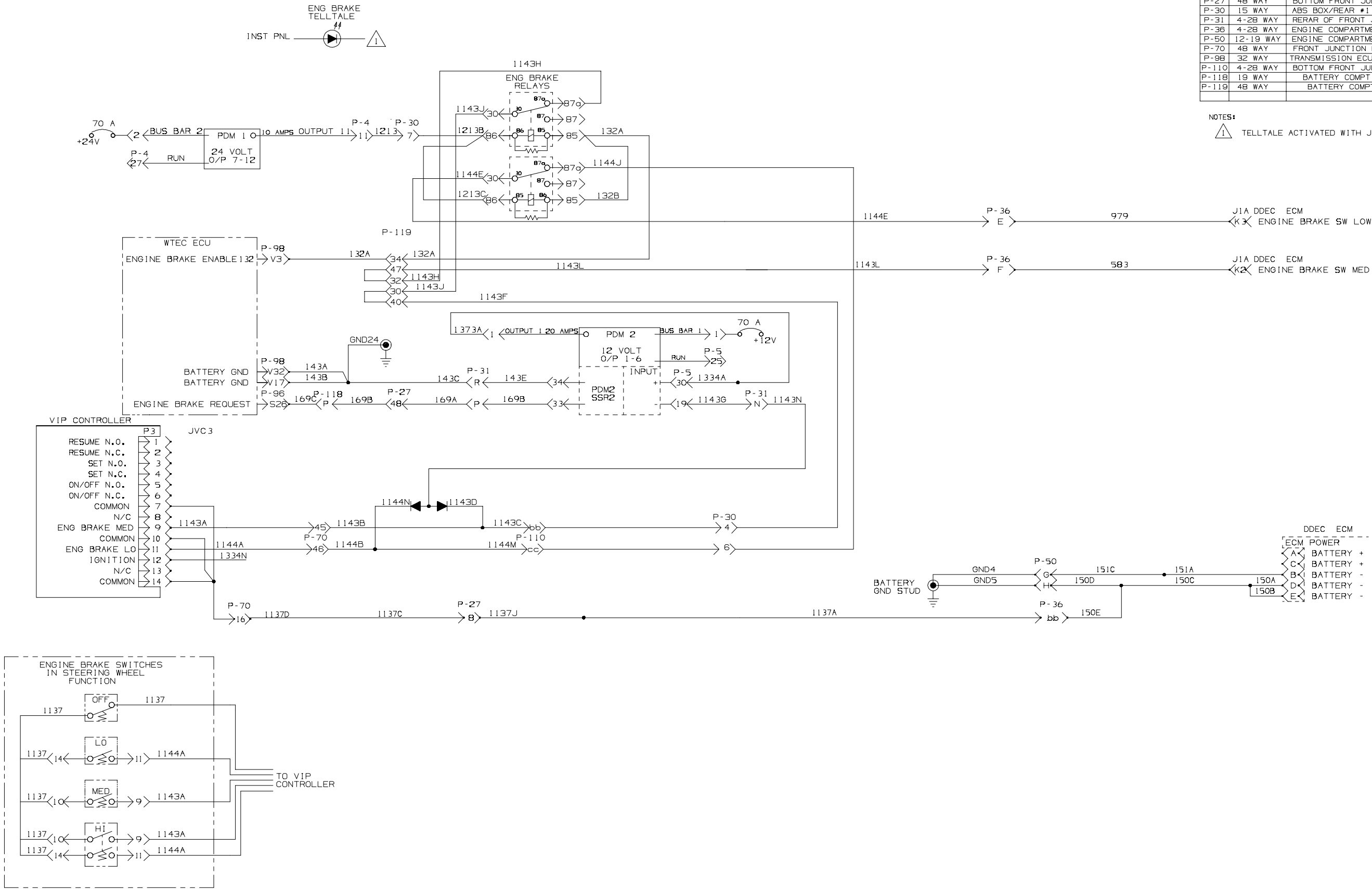
- NOTES:
- ⚠ REFER TO WTEC SCHEMATIC.
 - Ⓜ 2 12V POWER FROM PDM2.
 - Ⓜ 3 REFER TO LADDER LOGIC ON PAGE 2.



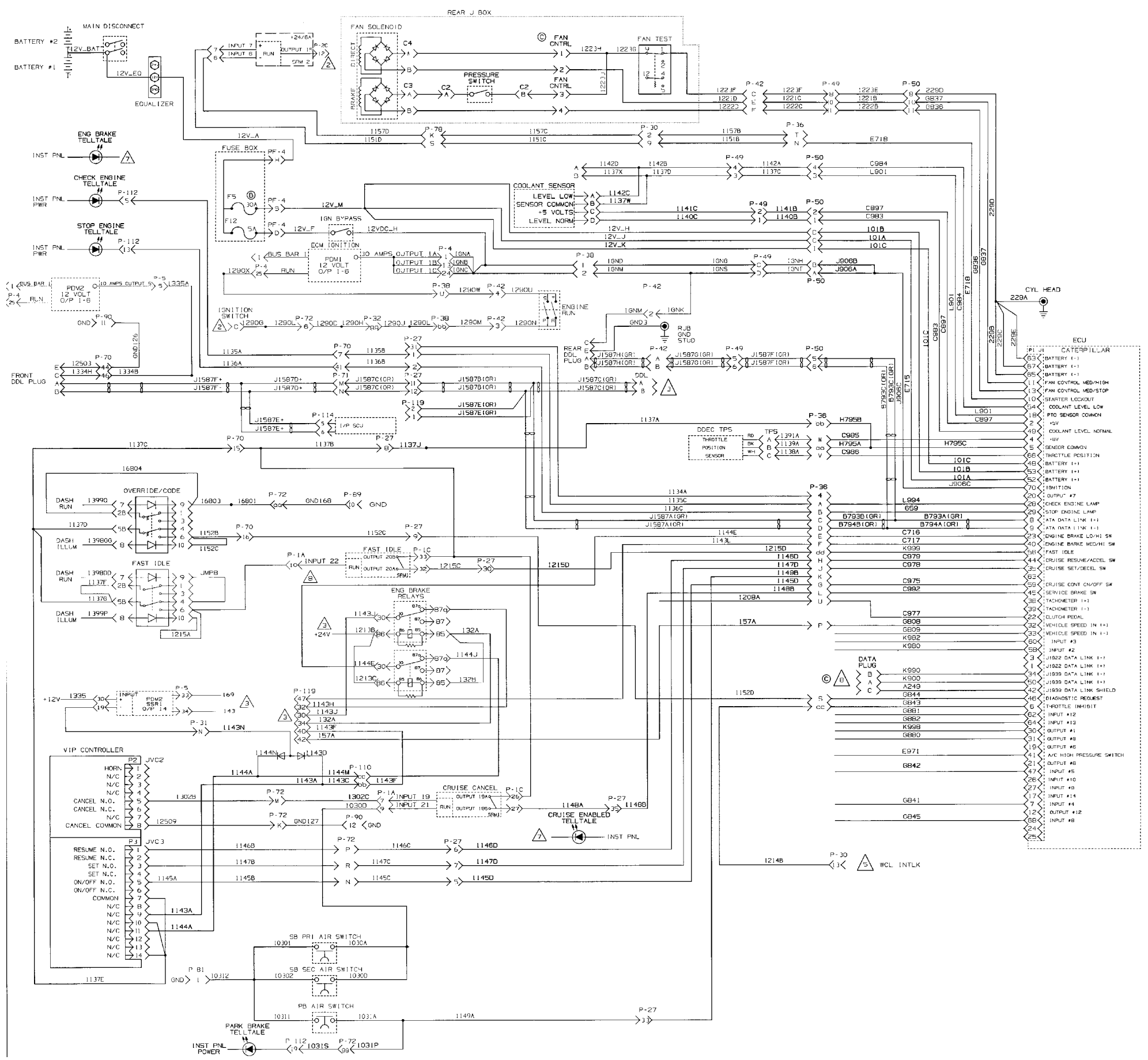
SYMBOL	MEANING
	ACTIVE DIGITAL INPUT
	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WIDTH MODULATION
	LOG
	MATHEMATICAL
	TIMER
	J1708 MESSAGE
	TELLTALE

PLUG	SIZE	LOCATION
P-4	35 WAY	MODULE/LH FRONT SERVICE COMPT
P-5	35 WAY	MODULE/LH FRONT PARCEL RACK
P-27	48 WAY	BOTTOM FRONT JUNCTION BOX
P-30	15 WAY	ABS BOX/REAR #1 BAGGAGE COMPT
P-31	4-28 WAY	RERAR OF FRONT JUNCTION BOX
P-36	4-28 WAY	ENGINE COMPARTMENT
P-50	12-19 WAY	ENGINE COMPARTMENT
P-70	48 WAY	FRONT JUNCTION BOX/DASH
P-98	32 WAY	TRANSMISSION ECU BATTERY COMPT
P-110	4-28 WAY	BOTTOM FRONT JUNCTION BOX
P-118	19 WAY	BATTERY COMPT
P-119	48 WAY	BATTERY COMPT

NOTES:
1 TELLTALE ACTIVATED WITH J1939 MESSAGE.



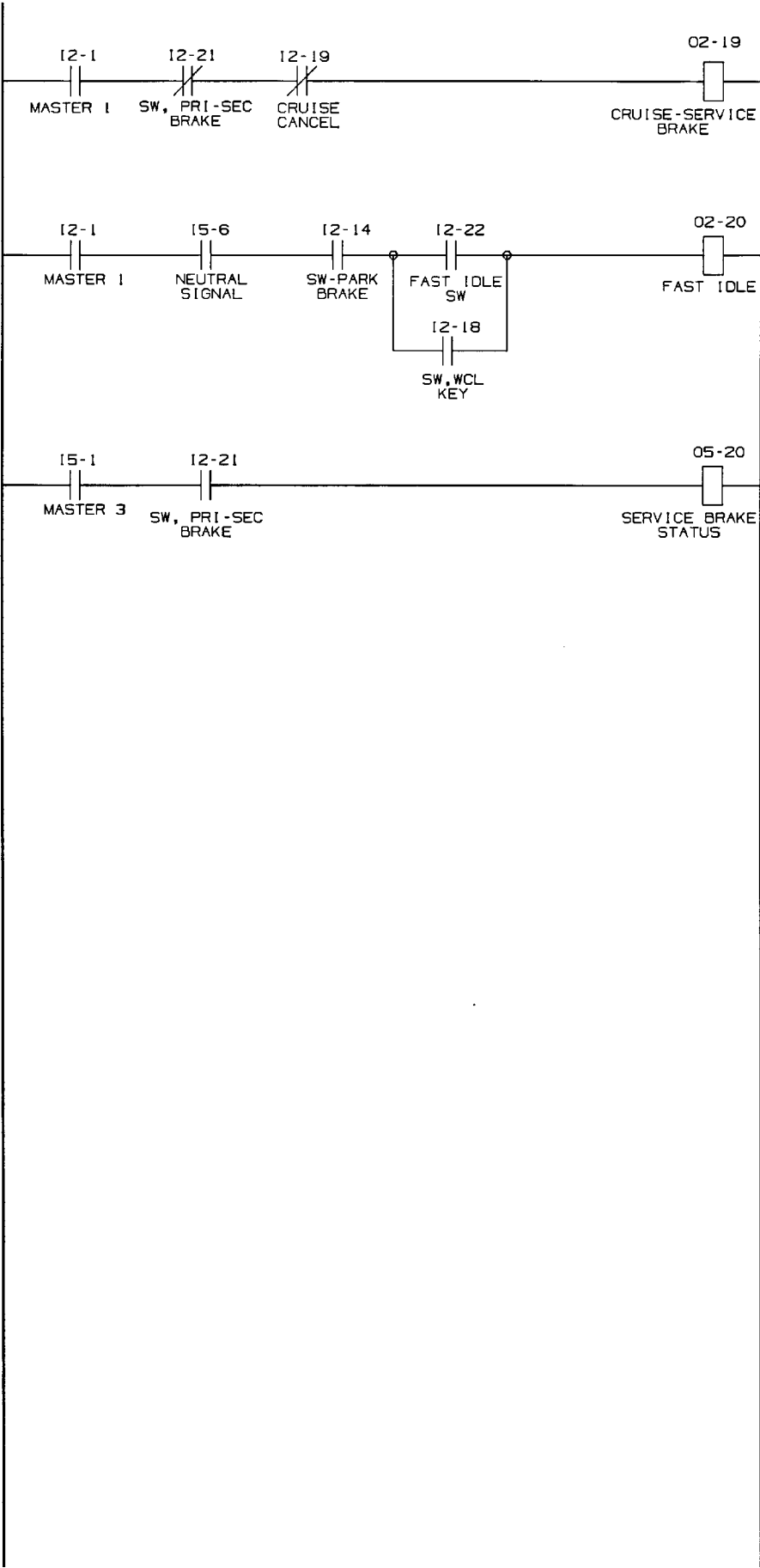
ENGINE BRAKE (MUX)
07-14-1318 (REV A)
SHEET 1 OF 1
(EFFECTIVE W/ #62032)



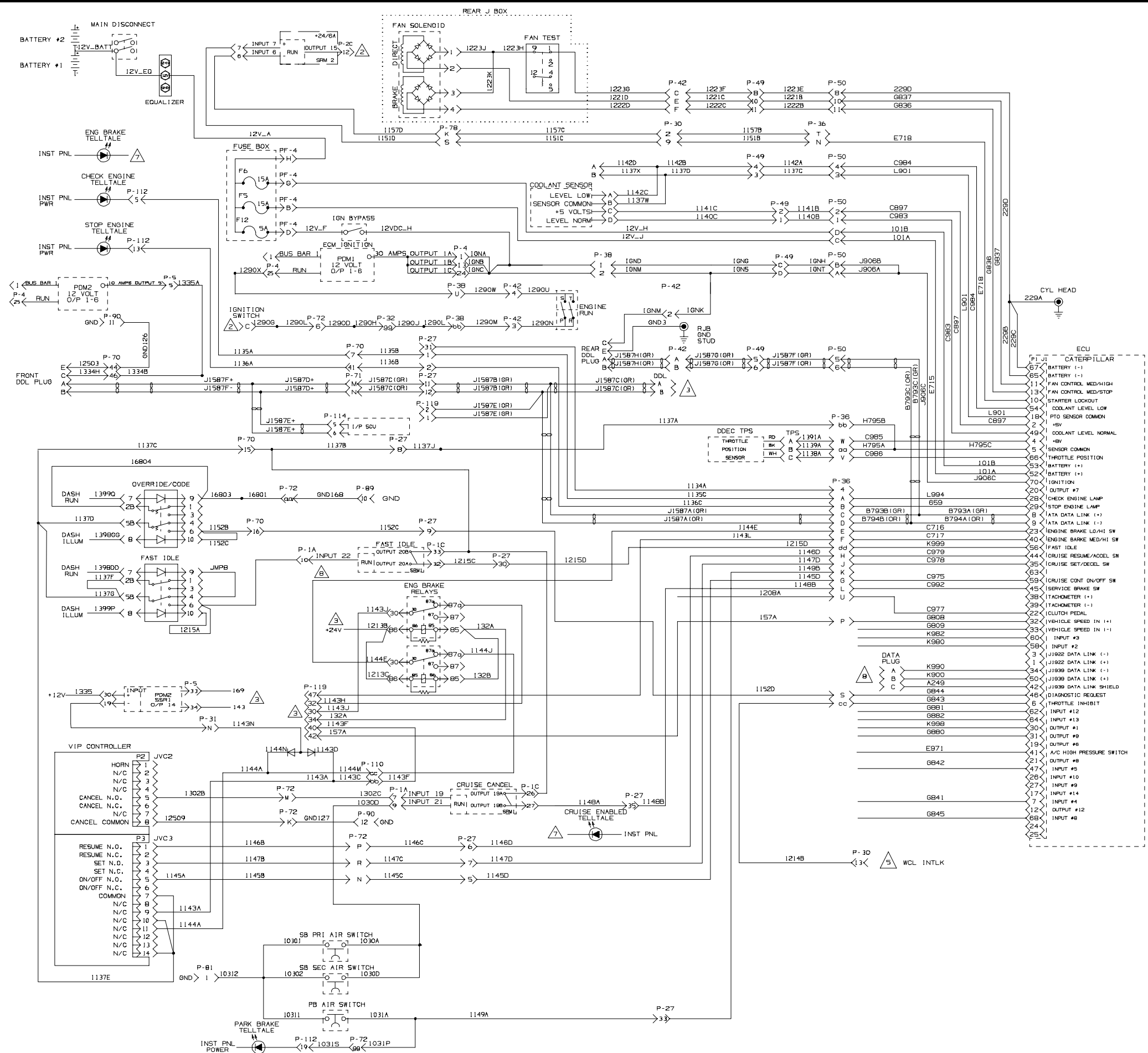
P-UG	SIZE	LOCATION
P-1	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-3	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-7	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-27	48 WAY	POWERTRAIN HRN AT FRONT J BOX
P-29	4-28 WAY	MAIN HRN AT FRONT J BOX
P-30	19 WAY	BEHIND ACCESS PANEL, #3 BAGGAGE CMPT.
P-36	4-28 WAY	ENGINE CMPT.
P-38	4-28 WAY	ENGINE CMPT.
P-42	4-28 WAY	REAR J BOX
P-49	12-19 WAY	ENGINE CMPT.
P-50	12-19 WAY	ENGINE CMPT.
P-54	30 WAY	BATTERY COMPARTMENT
P-70	48 WAY	FRONT J BOX
P-71	4-28 WAY	FRONT J BOX
P-72	19 WAY	FRONT J BOX
P-78	4-28 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-112	20 WAY	INSTRUMENT PANEL
P-114	24 WAY	INSTRUMENT PANEL
P-115	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-116	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-117	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.

- NOTE:
- 1 NOT REQUIRED FOR DDEC 111.
 - 2 REFER TO CHARGING AND STARTING SCHEMATIC.
 - 3 REFER TO WTEC SCHEMATIC.
 - 4 REFER TO EXTERIOR LIGHTING SCHEMATIC.
 - 5 REFER TO WCL SCHEMATIC.
 - 6 REFER TO KNFI SCHEMATIC.
 - 7 TELLTALE ACTIVATED WITH J1587 MESSAGE.
 - 8 J1939 DATA LINK
- 9) DISCONNECT DDEC COMMUNICATIONS PLUG IF J1939 DATA LINK IS NOT USED TO PREVENT ERROR CODE GENERATION. TIE BACK PLUG IN HARNESS AND CAP DDEC CONNECTOR.

CAT, C13 (MUX)
07-14-1323 (REV C)
SHEET 1 OF 2
(EFFECTIVE W/ #62032 THRU #62417)

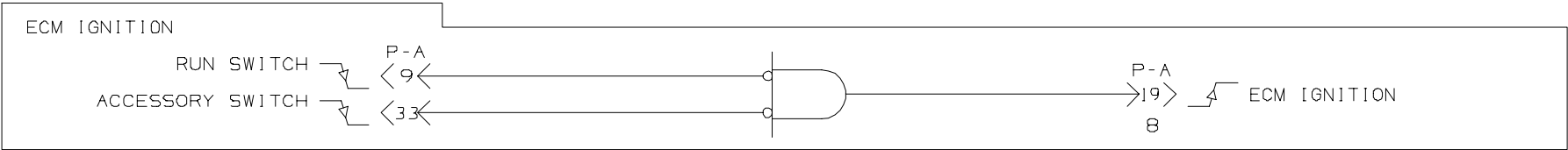
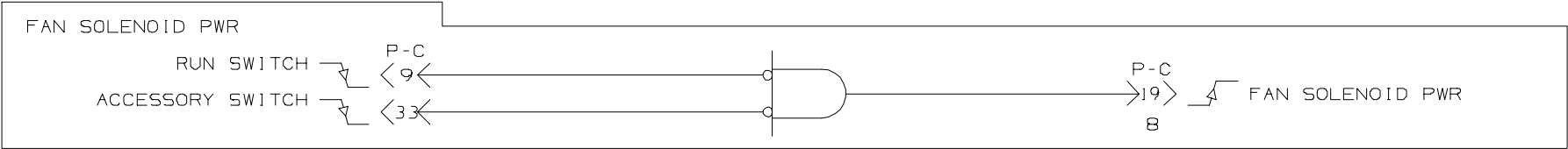
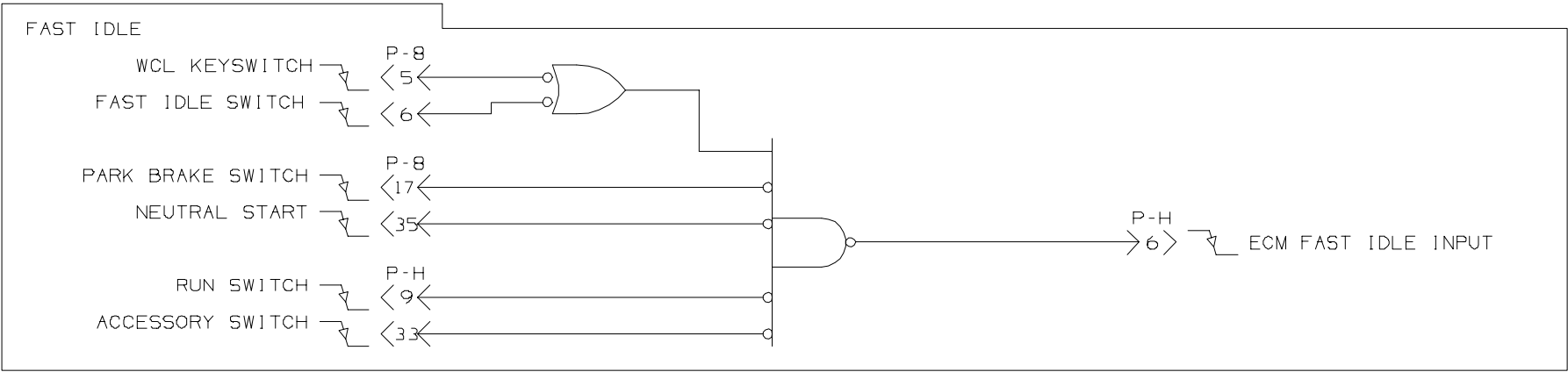


SYMBOL	MEANING
	ACTIVE DIGITAL INPUT
	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WIDTH MODULATION
	LOG
	MATHEMATICAL
	TIMER
	J1939 MESSAGE
	TELLTALE



PLUG	SIZE	LOCATION
P-1	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-3	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-7	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-27	48 WAY	POWERTRAIN HRN AT FRONT J BOX
P-29	4-28 WAY	MAIN HRN AT FRONT J BOX
P-30	19 WAY	BEHIND ACCESS PANEL, #3 BAGGAGE CMPT.
P-36	4-28 WAY	ENGINE CMPT.
P-38	4-28 WAY	ENGINE CMPT.
P-42	4-28 WAY	REAR J BOX
P-49	12-19 WAY	ENGINE CMPT.
P-50	12-19 WAY	ENGINE CMPT.
P-54	30 WAY	BATTERY COMPARTMENT
P-70	48 WAY	FRONT J BOX
P-71	4-28 WAY	FRONT J BOX
P-72	19 WAY	FRONT J BOX
P-78	4-28 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-112	20 WAY	INSTRUMENT PANEL
P-114	24 WAY	INSTRUMENT PANEL
P-A	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-C	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-G	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.

- NOTES:
- 1 NOT REQUIRED FOR DDEC III.
 - 2 REFER TO CHARGING AND STARTING SCHEMATIC.
 - 3 REFER TO WTEC SCHEMATIC.
 - 4 REFER TO EXTERIOR LIGHTING SCHEMATIC.
 - 5 REFER TO WCL SCHEMATIC.
 - 6 REFER TO KNEEL SCHEMATIC.
 - 7 TELLTALE ACTIVATED WITH J1587 MESSAGE.
 - 8 J1939 DATA LINK
 - 9) DISCONNECT DDEC COMMUNICATIONS PLUG IF J1939 DATA LINK IS NOT USED TO PREVENT ERROR CODE GENERATION. TIE BACK PLUG IN HARNESS AND CAP DDEC CONNECTOR.



STARTER

REFER TO CHARGING AND STARTING SCHEMATIC

JAKE ENABLE

REFER TO WTEC SCHEMATIC

SERVICE BRAKE

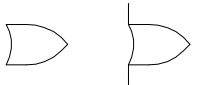
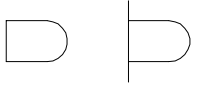
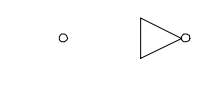
REFER TO EXTERIOR LIGHTING SCHEMATIC

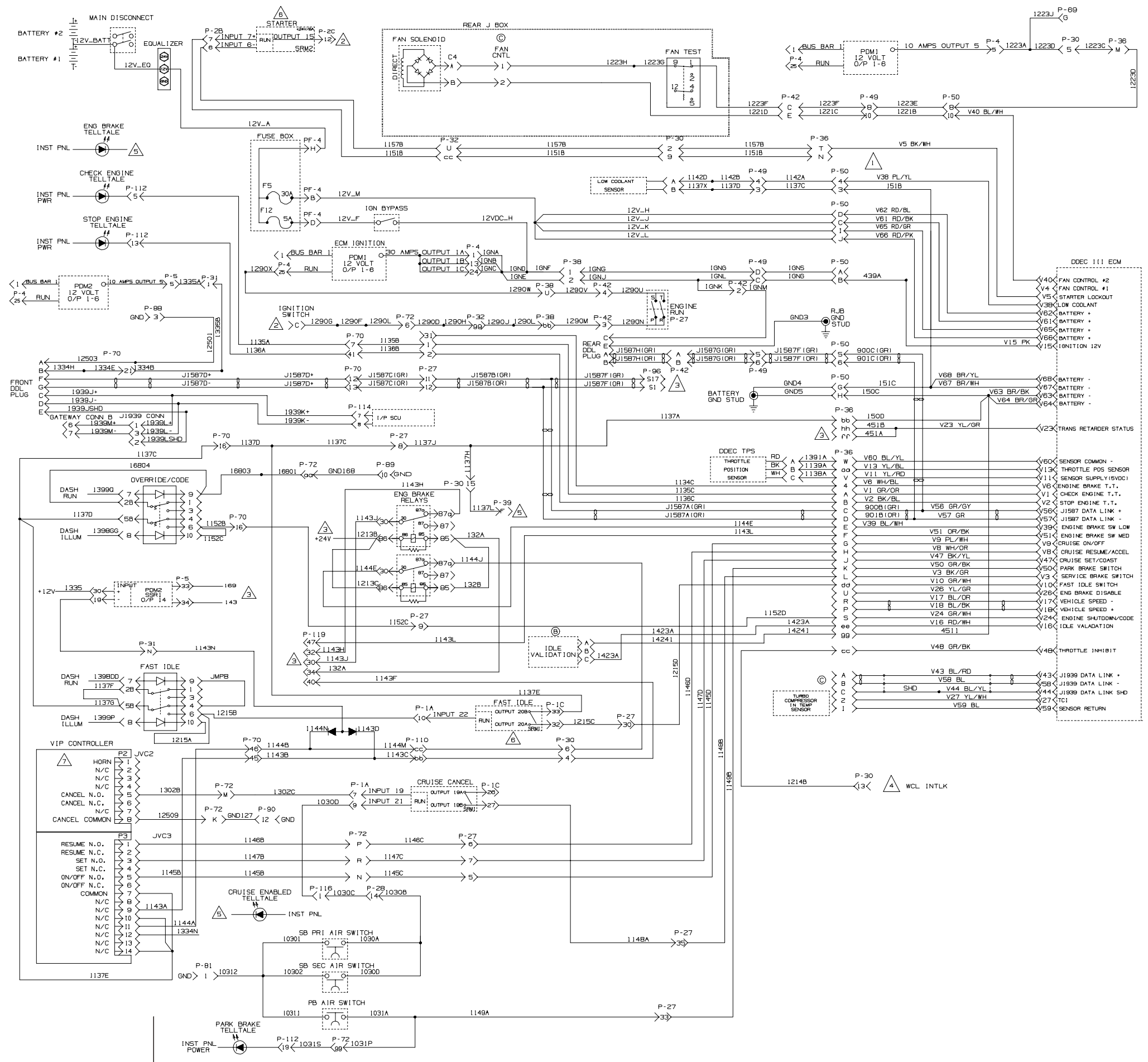
PARK BRAKE

REFER TO EXTERIOR LIGHTING SCHEMATIC

WCL INTERLOCK

REFER TO WHEELCHAIR LIFT SCHEMATIC

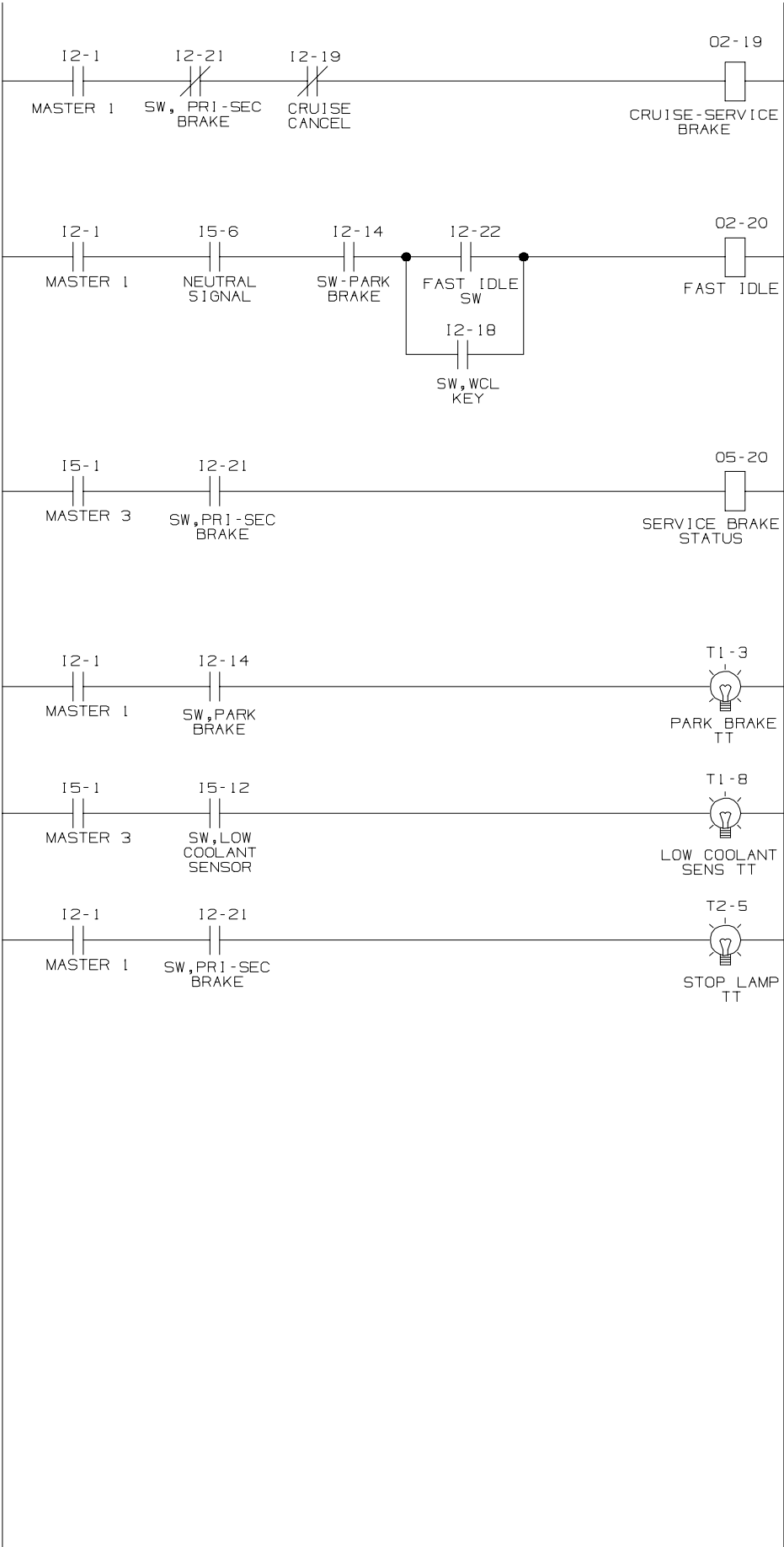
SYMBOL	MEANING
	OR
	AND
	NOT (INVERT)
	ACTIVE HIGH
	ACTIVE LOW



PLUG	SIZE	LOCATION
P-1	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-3	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-7	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-27	48 WAY	POWERTRAIN HRN AT FRONT J BOX
P-29	4-28 WAY	MAIN HRN AT FRONT J BOX
P-30	19 WAY	BEHIND ACCESS PANEL, #3 BAGGAGE CMPT.
P-36	4-28 WAY	ENGINE CMPT.
P-38	4-28 WAY	ENGINE CMPT.
P-42	4-28 WAY	REAR J BOX
P-49	12-19 WAY	ENGINE CMPT.
P-50	12-19 WAY	ENGINE CMPT.
P-54	30 WAY	BATTERY COMPARTMENT
P-70	48 WAY	FRONT J BOX
P-71	4-28 WAY	FRONT J BOX
P-72	19 WAY	FRONT J BOX
P-78	4-28 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-112	20 WAY	INSTRUMENT PANEL
P-114	24 WAY	INSTRUMENT PANEL
P-A	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-C	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.
P-G	36 WAY	RELAY MODULE BOX, #1 BAGGAGE CMPT.

- NOTE:
- 1 NOT REQUIRED FOR DDEC 111.
 - 2 REFER TO CHARGING AND STARING SCHEMATIC.
 - 3 REFER TO WTEC SCHEMATIC.
 - 4 REFER TO WCL SCHEMATIC.
 - 5 TELLTALE ACTIVATED WITH J1939 MESSAGE.
 - 6 REFER TO LADDER LOGIC.
 - 7 REFER TO VIP W/CRUISE & ENG BRK SCHEMATIC.

DDEC V (MUX)
07-14-1327 (REV C)
SHEET 1 OF 2
(EFFECTIVE W/ #62098)

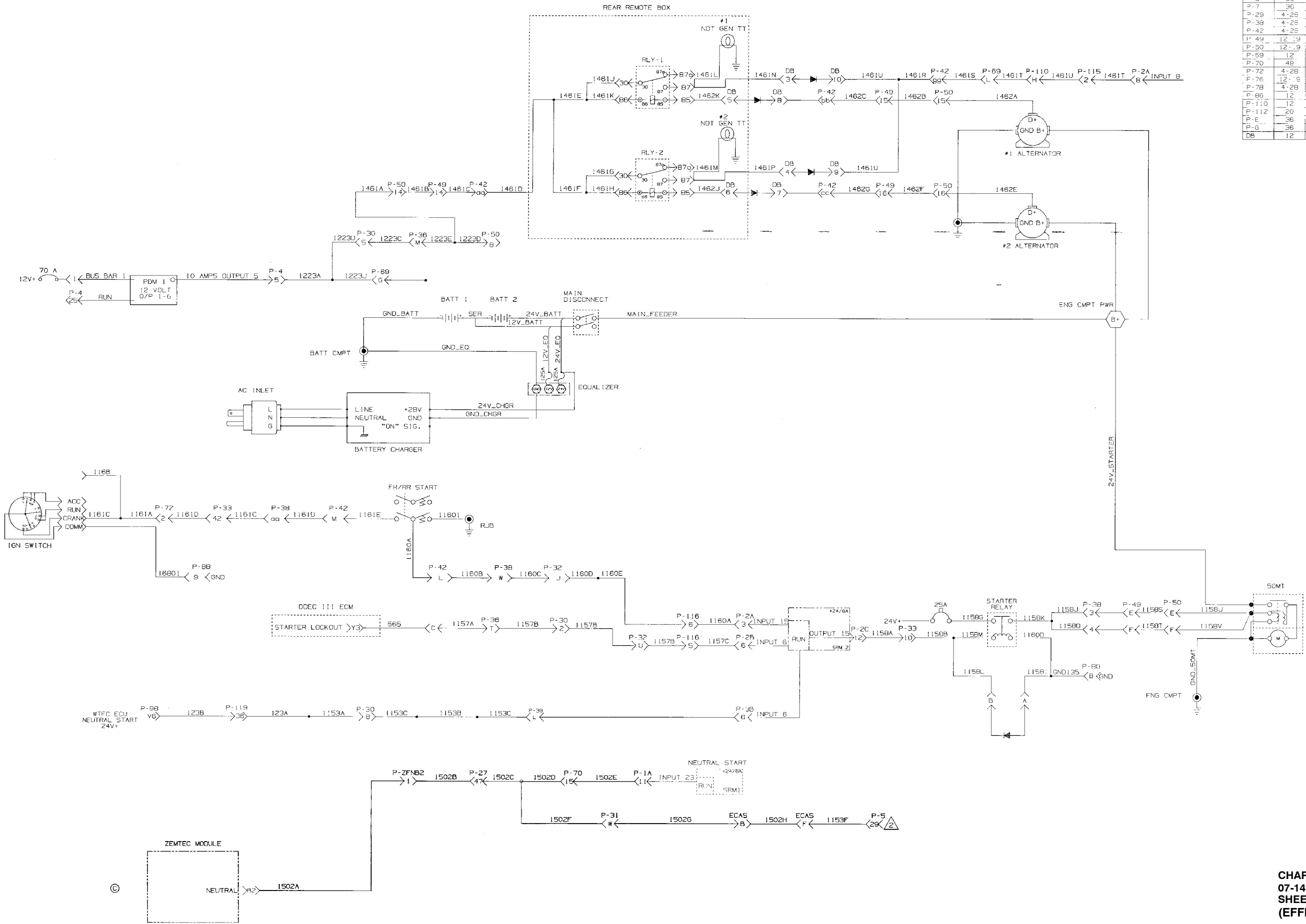


SYMBOL	MEANING
	ACTIVE DIGITAL INPUT
	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WIDTH MODULATION
	LOG
	MATHEMATICAL
	TIMER
	J1939 MESSAGE
	TELLTALE

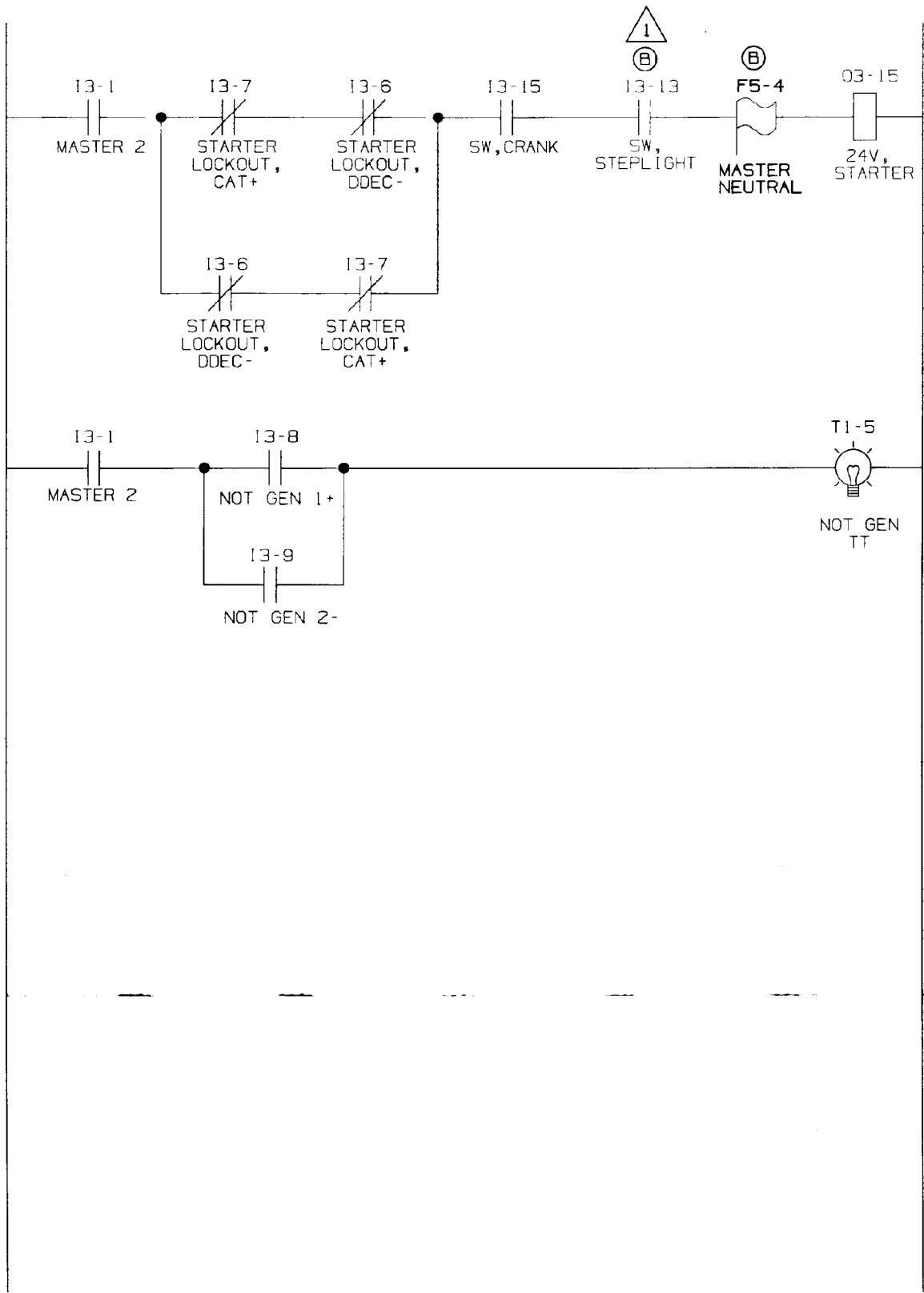
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CHARGING & STARTING (MUX)
07-14-1330 (REV C)
SHEET 1 OF 3
(EFFECTIVE W/ #63183)

PIN#	SIZE	LOCATION
P-5	36	RELAY MODULE BOX
P-7	36	RELAY MODULE BOX
P-29	4-28	FRONT JUNCTION BOX
P-38	4-28	ENGINE COMPARTMENT
P-42	4-28	RELAY REMOTE BOX
P-49	12-19	ENGINE COMPARTMENT
P-50	12-19	ENGINE COMPARTMENT
P-59	12	ENGINE COMPARTMENT
P-70	48	FRONT JUNCTION BOX
P-72	4-28	FRONT J BOX
P-76	12-19	BAJAGE COMPARTMENT #3
P-78	4-28	BAJAGE COMPARTMENT #3
P-86	12	RELAY MODULE BOX, GROUND MODULE
P-110	12	FRONT J BOX
P-112	20	INSTRUMENT PANEL
P-E	36	RELAY MODULE BOX
P-G	36	RELAY MODULE BOX
DB	12	REAR REMOTE BOX

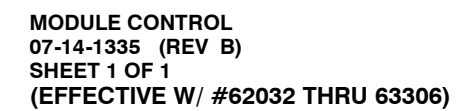
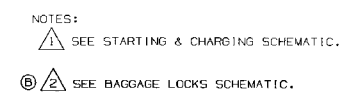


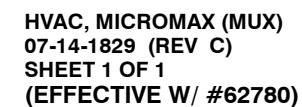
CHARGING & STARTING (MUX)
07-14-1330 (REV C)
SHEET 2 OF 3
(EFFECTIVE W/ #63183)

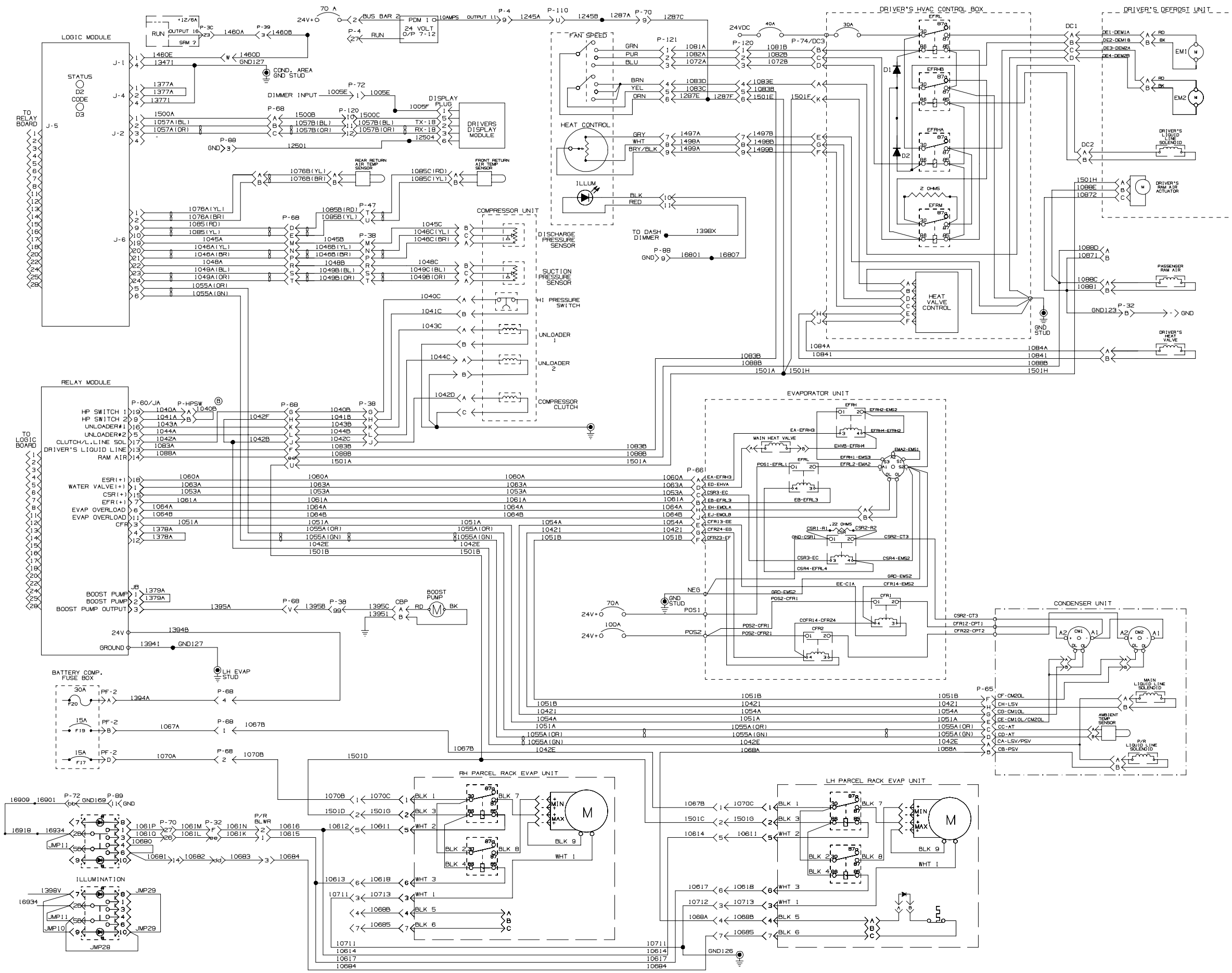


SYMBOL	MEANING
	ACTIVE DIGITAL INPUT
	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WIDTH MODULATION
	LOG
	MATHEMATICAL
	TIMER
	J1939 MESSAGE
	TELLTALE

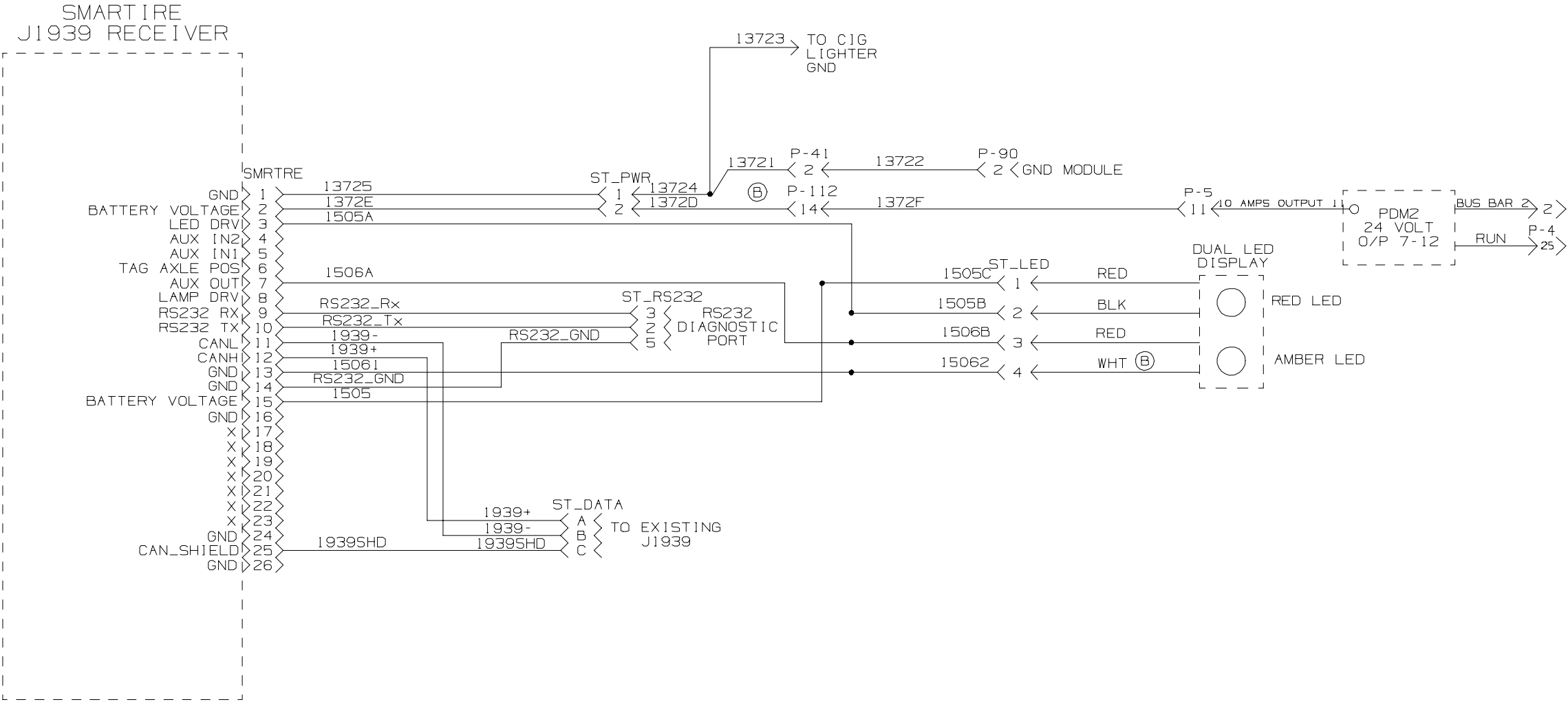
- 1 STEPWELL LIGHT LOGIC INPUT IS ONLY PRESENT IN LADDER LOGIC PROGRAM IF SECURITY START FEATURE IS CONFIGURED TO COACH ORDER.
- 2 REFER TO ZF TRANS SCHEMATIC

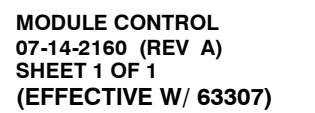
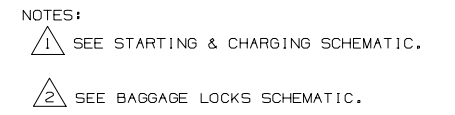




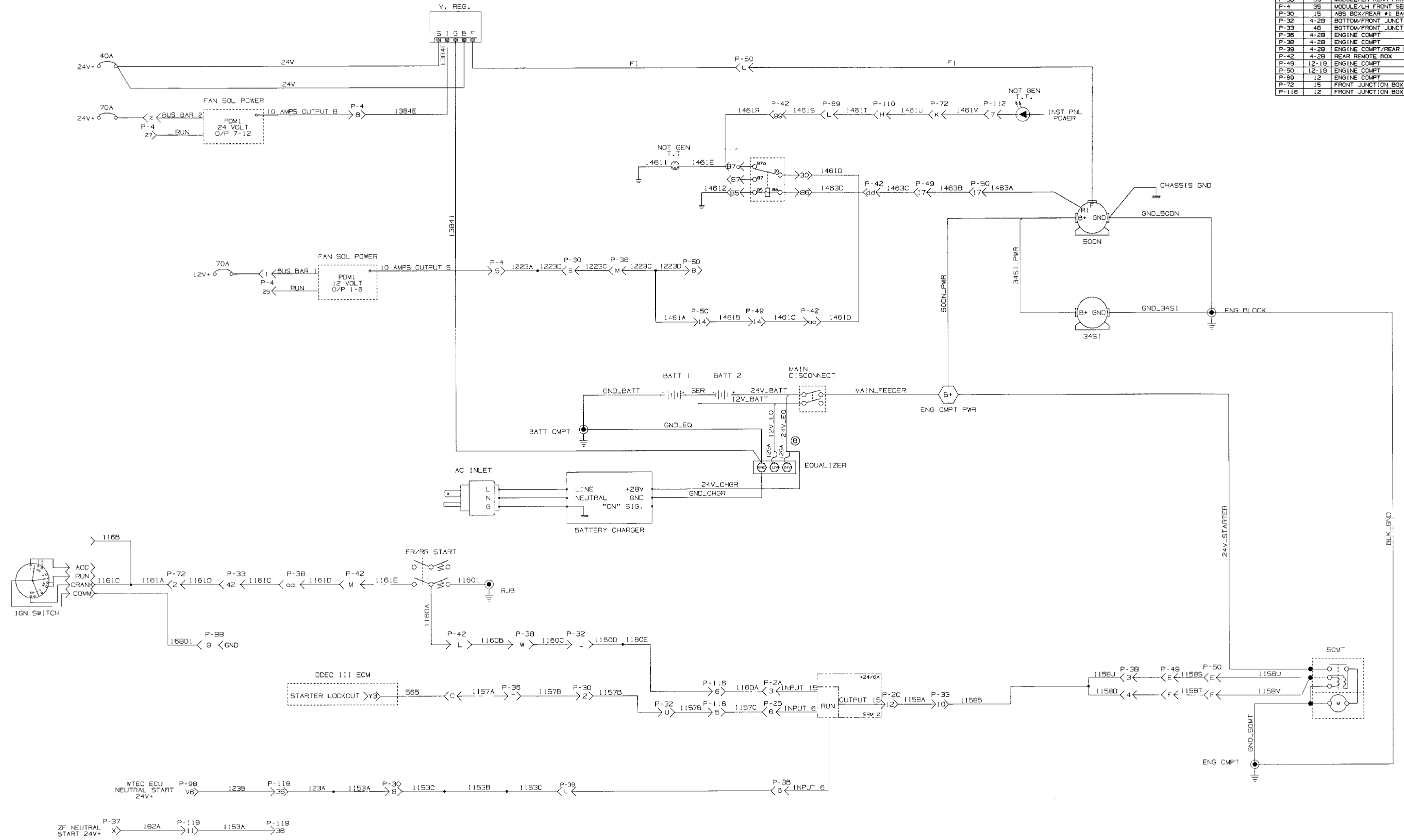


HVAC, MICROMAX
07-14-1959 (REV B)
SHEET 1 OF 1
(EFFECTIVE W/#63399)

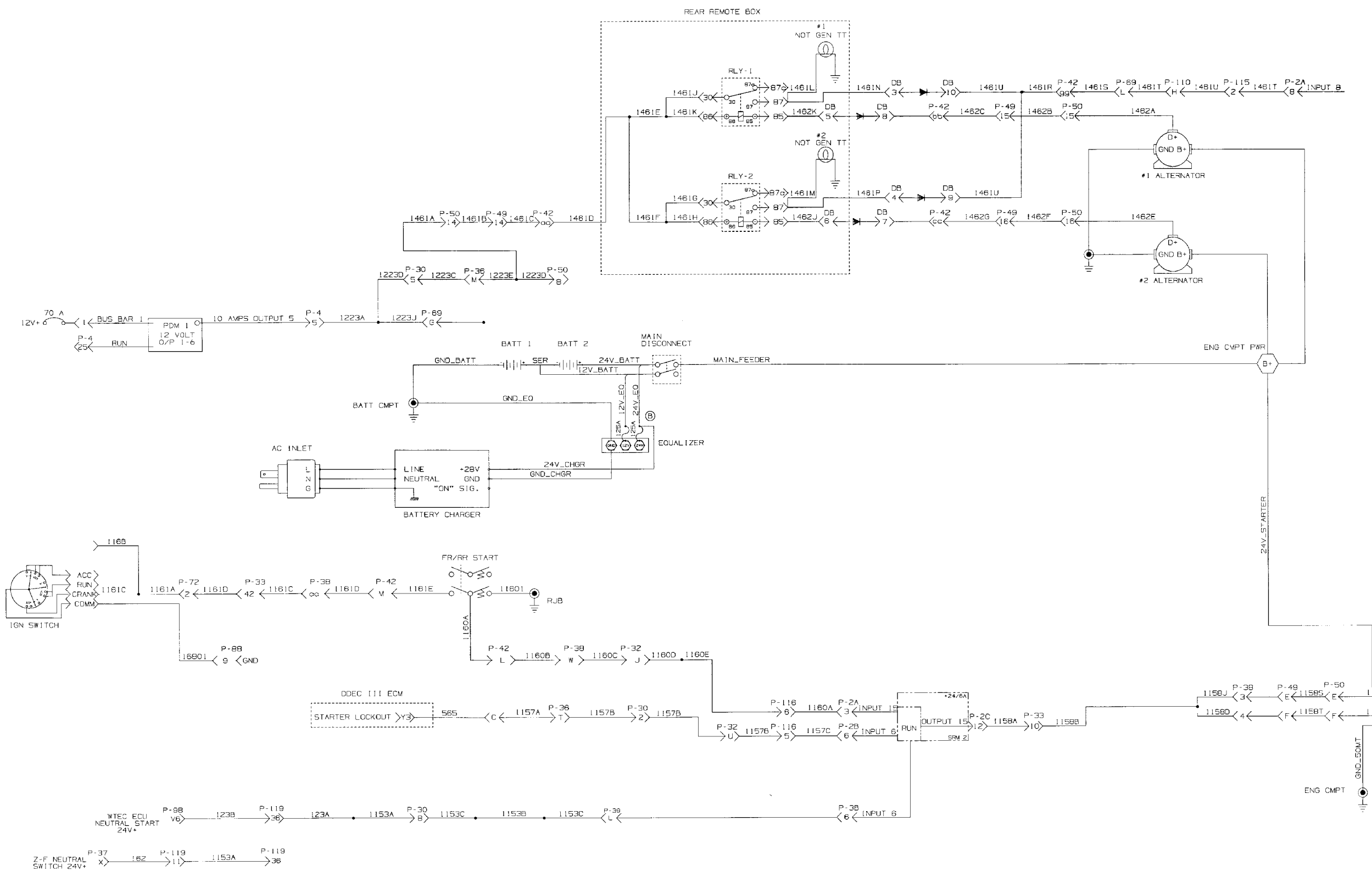




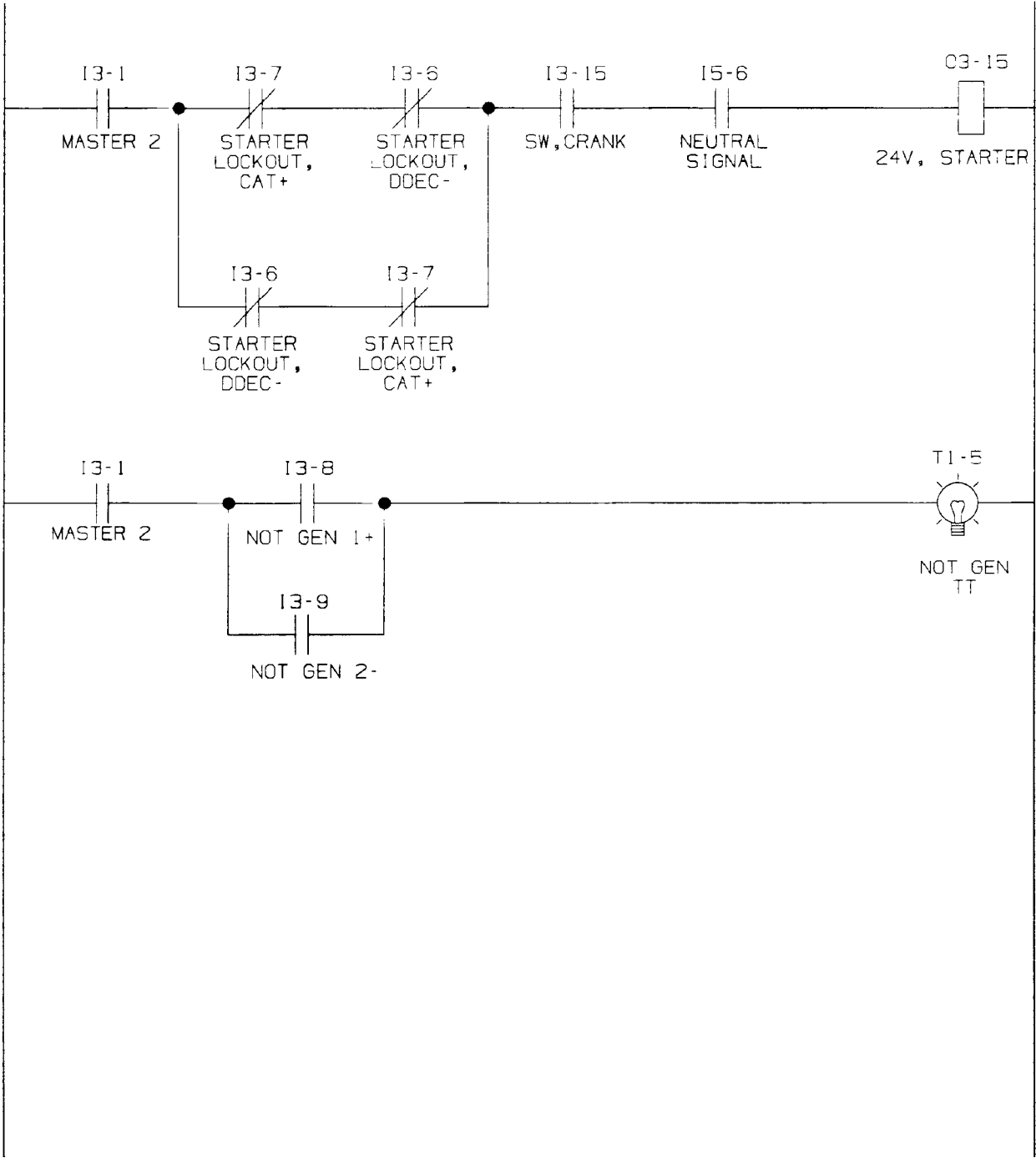
PLUG	SIZE	LOCATION
P-2A	23	MODULE/FRONT JUNCTION BOX
P-2B	35	MODULE/FRONT JUNCTION BOX
P-2C	35	MODULE/FRONT JUNCTION BOX
P-3B	35	MODULE/LH REAR PARCEL RACK
P-4	35	MODULE/LH REAR SERVICE COMPT
P-30	15	ABS BOX/REAR #1 BAGGAGE COMPT
P-32	4-28	BOTTOM/FRONT JUNCTION BOX
P-33	48	BOTTOM/FRONT JUNCTION BOX
P-36	4-28	ENGINE COMPT
P-38	4-28	ENGINE COMPT
P-39	4-28	ENGINE COMPT/REAR ROOF
P-42	4-28	REAR REMOTE BOX
P-49	12-18	ENGINE COMPT
P-50	12-18	ENGINE COMPT
P-69	12	ENGINE COMPT
P-72	15	FRONT JUNCTION BOX
P-116	12	FRONT JUNCTION BOX



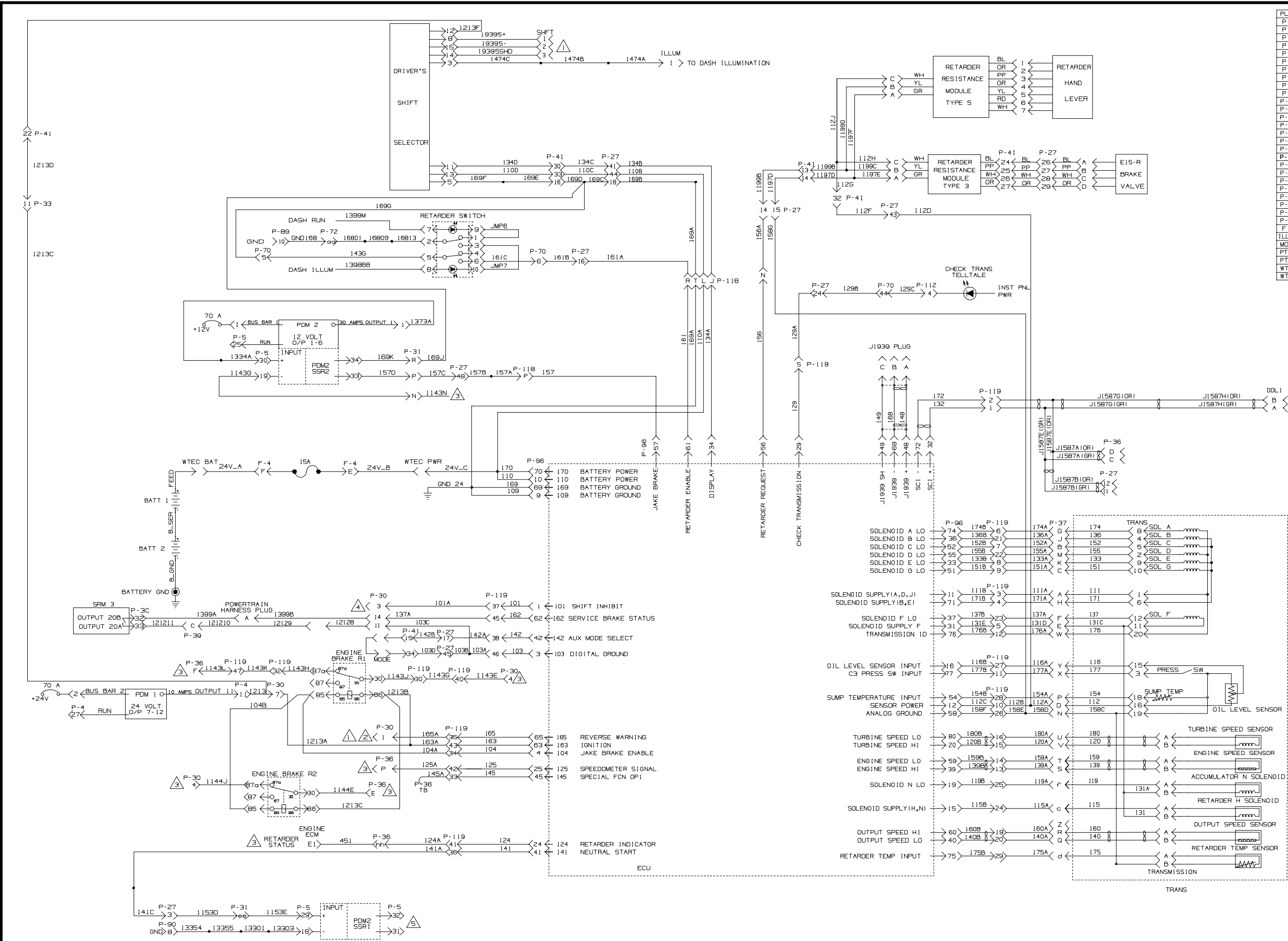
PLUG	SIZE	LOCATION
P-5	36	RELAY MODULE BOX
P-7	36	RELAY MODULE BOX
P-29	4-28	FRONT JUNCTION BOX
P-38	4-28	ENGINE COMPARTMENT
P-42	4-28	RELAY REMOTE BOX
P-49	12-18	ENGINE COMPARTMENT
P-50	12-18	ENGINE COMPARTMENT
P-69	12	ENGINE COMPARTMENT
P-70	48	FRONT JUNCTION BOX
P-72	4-28	FRONT J BOX
P-78	12-18	BAGGAGE COMPARTMENT #3
P-78	4-28	BAGGAGE COMPARTMENT #3
P-88	12	RELAY MODULE BOX, GROUND MODULE
P-110	12	FRONT J BOX
P-112	20	INSTRUMENT PANEL
P-E	36	RELAY MODULE BOX
P-6	36	RELAY MODULE BOX
P-8	12	REAR REMOTE BOX



CHARGING & STARTING
07-14-2298 (REV A)
SHEET 2 OF 3
(EFFECTIVE W/#63542)



SYMBOL	MEANING
	ACTIVE DIGITAL INPUT
	INACTIVE DIGITAL INPUT
	ANALOG INPUT
	ACTIVE OUTPUT
	INACTIVE OUTPUT
	ACTIVE FLAG
	INACTIVE FLAG
	PULSE WIDTH MODULATION
	LOG
	MATHEMATICAL
	TIMER
	J1939 MESSAGE
	TELLTALE

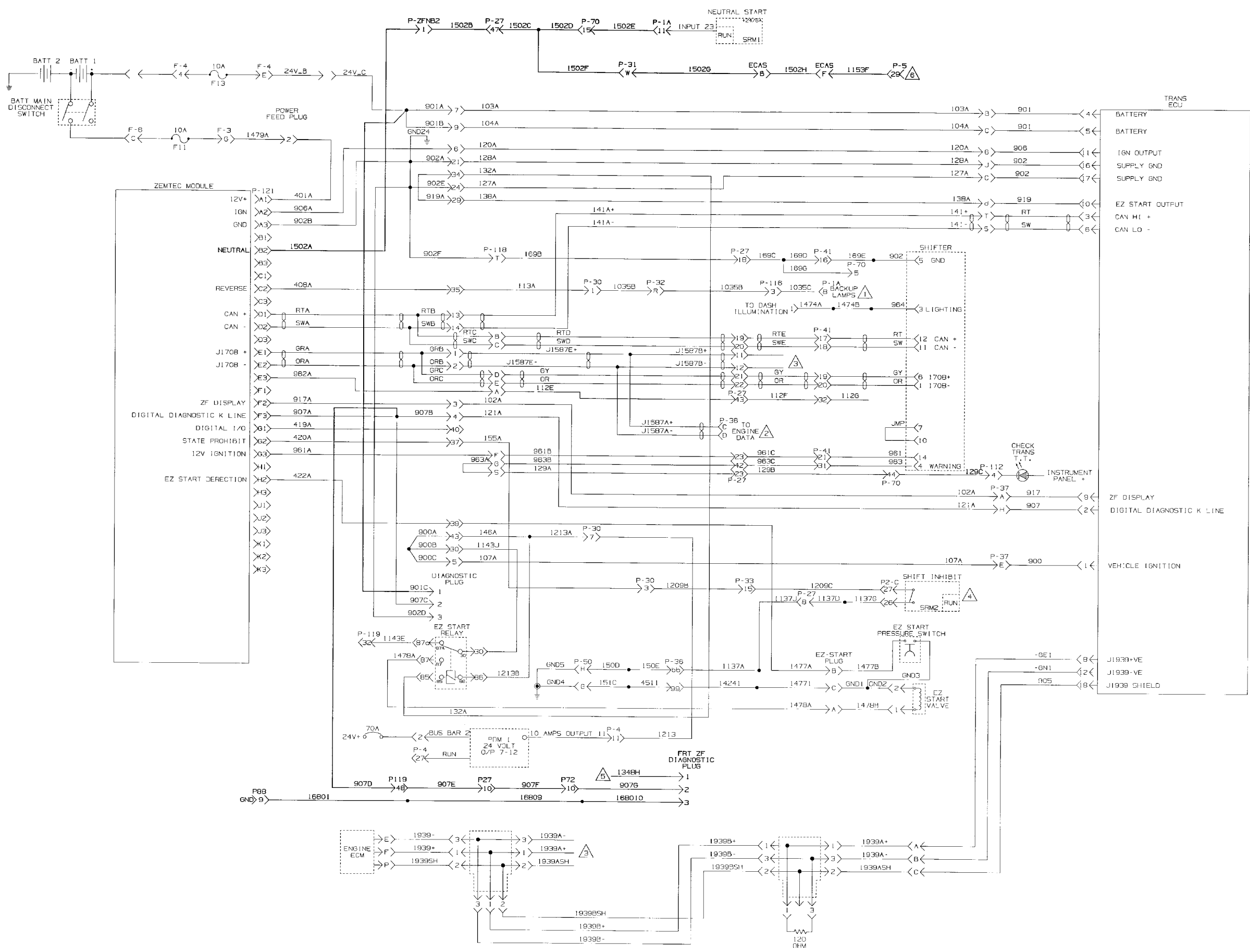


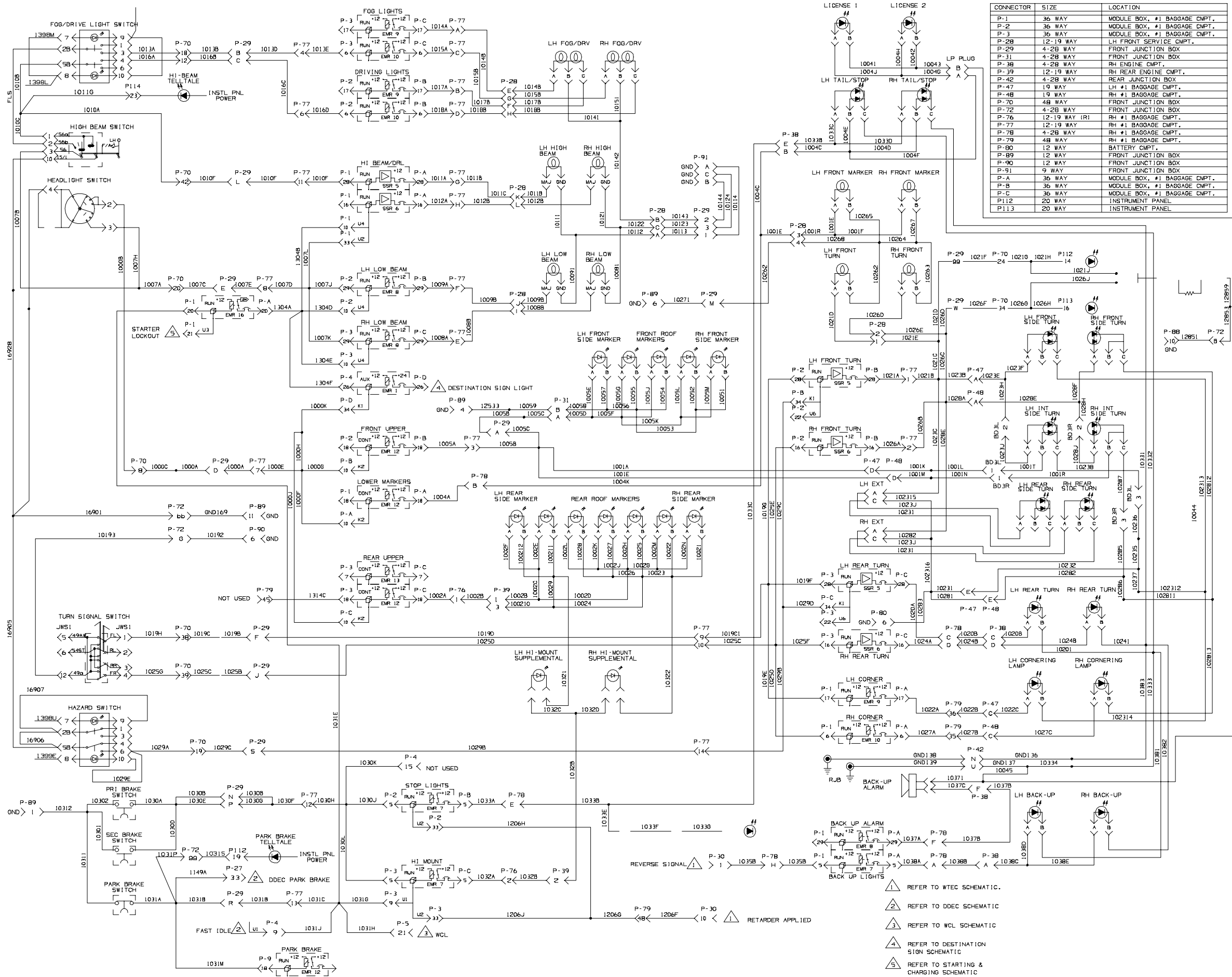
PLUG	SIZE	LOCATION
P-B	36 WAY	MODULE BOX, #1 BAGGAGE CMPT.
P-C	36 WAY	MODULE BOX, #1 BAGGAGE CMPT.
P-D	36 WAY	MODULE BOX, #1 BAGGAGE CMPT.
P-J	36 WAY	FRONT JUNCTION BOX
P-2	36 WAY	MODULE BOX, #1 BAGGAGE CMPT.
P-3	36 WAY	MODULE BOX, #1 BAGGAGE CMPT.
P-4	36 WAY	MODULE BOX, #1 BAGGAGE CMPT.
P-5	36 WAY	MODULE BOX, #1 BAGGAGE CMPT.
P-7	36 WAY	MODULE BOX, #1 BAGGAGE CMPT.
P-9	36 WAY	FRONT JUNCTION BOX
P-27	48 WAY	FRONT JUNCTION BOX
P-29	4-28 WAY	FRONT JUNCTION BOX
P-30	12 WAY	ABOVE FUEL TANK
P-36	4-28 WAY	RH ENGINE COMPARTMENT
P-37	31 WAY	ENGINE CMPT ABOVE TRANS.
P-54	30 WAY	BATTERY COMPARTMENT
P-55	18 WAY	BATTERY COMPARTMENT
P-71	19 WAY	FRONT JUNCTION BOX
P-72	4-28 WAY	FRONT J BOX TO DASH
P-77	12-19 WAY	RH, #1 BAGGAGE CMPT.
P-78	4-28 WAY	RH, #1 BAGGAGE CMPT.
P-81	12 WAY	BATTERY COMPARTMENT
P-89	12 WAY	FRONT JUNCTION BOX
P-96	24 WAY	BATTERY COMPARTMENT
P-97	24 WAY	BATTERY COMPARTMENT
P-98	24 WAY	BATTERY COMPARTMENT
F-4	8 WAY	BATTERY COMPARTMENT
ILLUM	2 WAY	FRONT JUNCTION BOX
MODE	1 WAY	FRONT JUNCTION BOX
PTT1	15 WAY	INSTRUMENT PANEL
PTT2	15 WAY	INSTRUMENT PANEL
WTEC	1 WAY	BATTERY COMPARTMENT
WTEC	1 WAY	BATTERY COMPARTMENT

- 1 REFER TO EXTERIOR LIGHTING
2 REFER TO ALARMS AND TELLTALES
3 REFER TO DDEC SCHEMATIC
4 REFER TO WCL SCHEMATIC
5 REFER TO ECAS SCHEMATIC

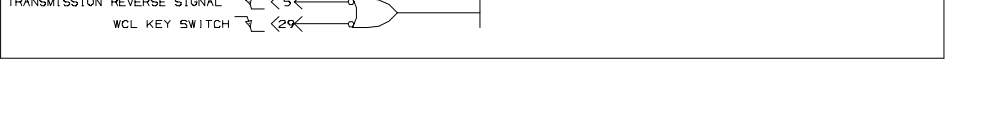
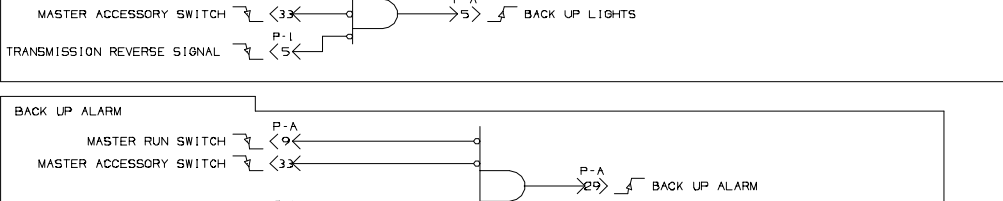
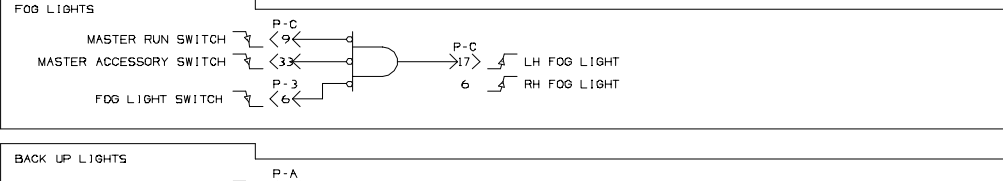
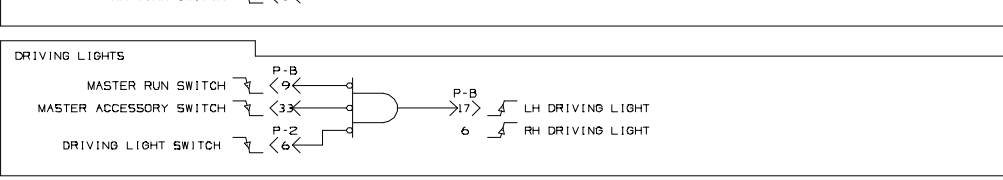
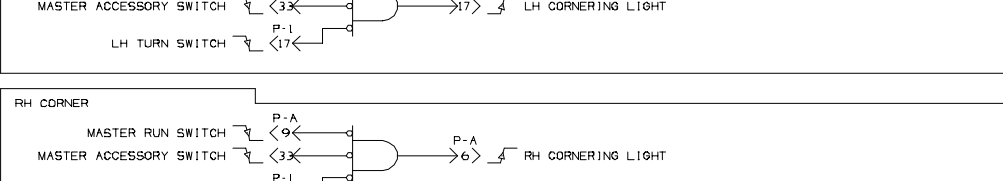
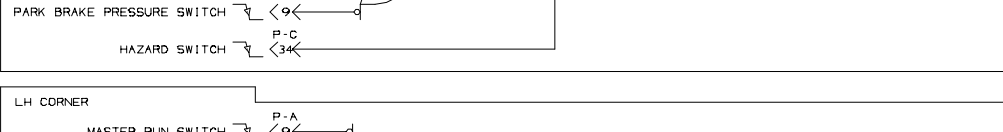
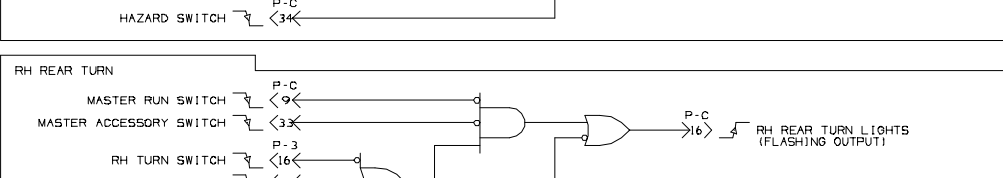
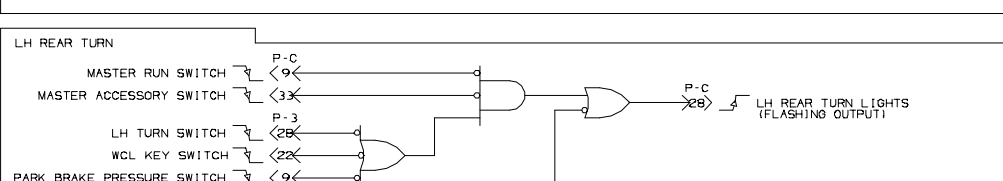
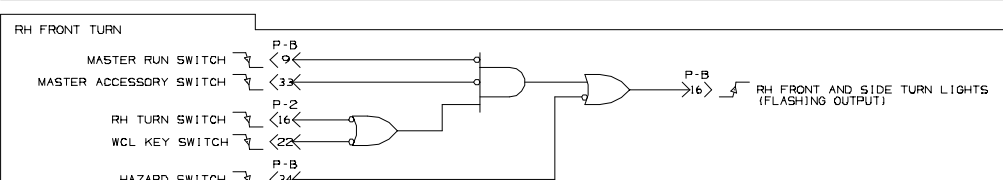
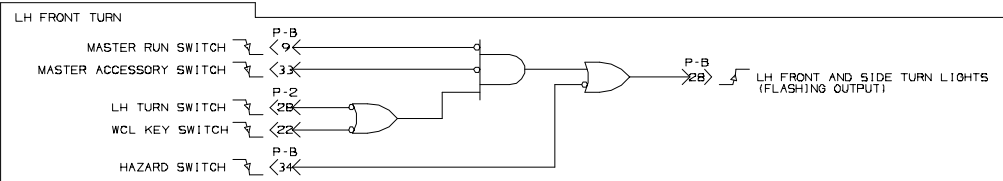
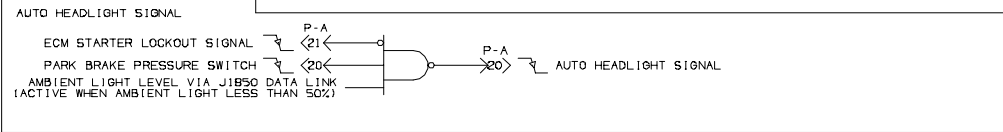
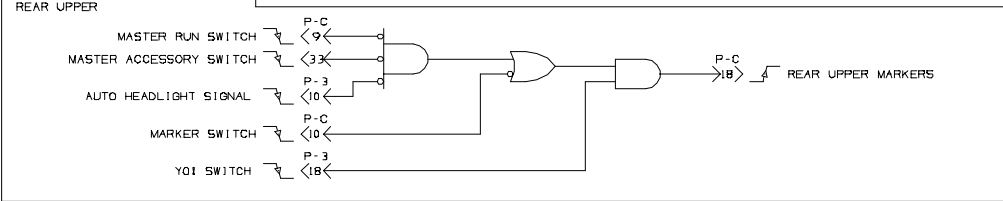
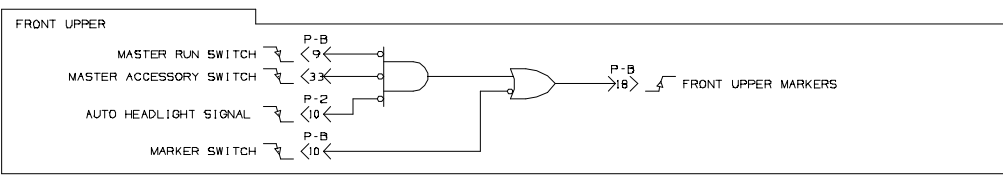
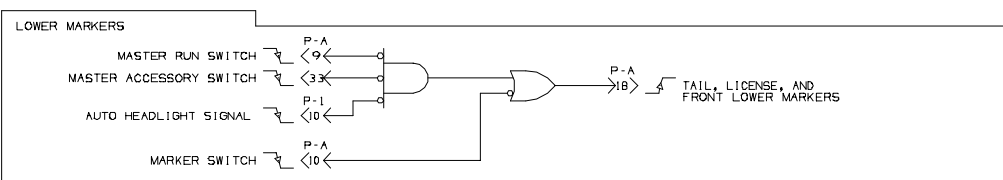
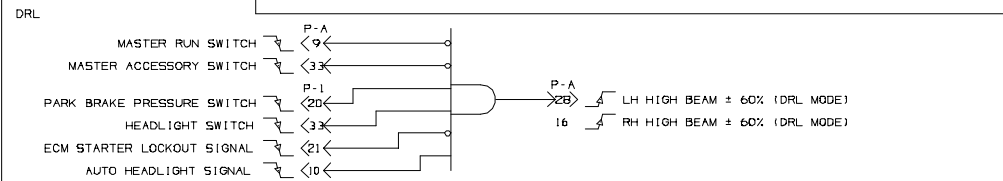
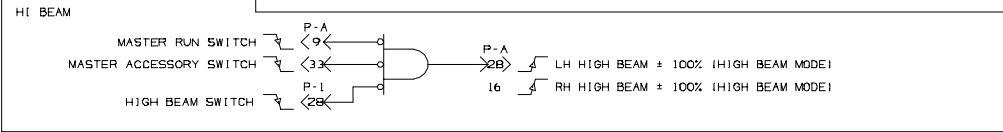
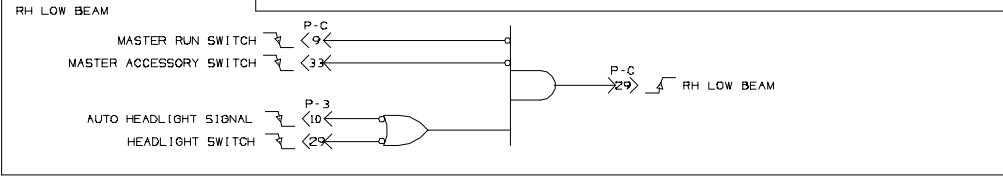
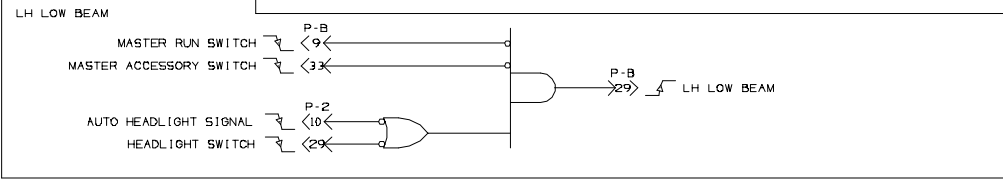
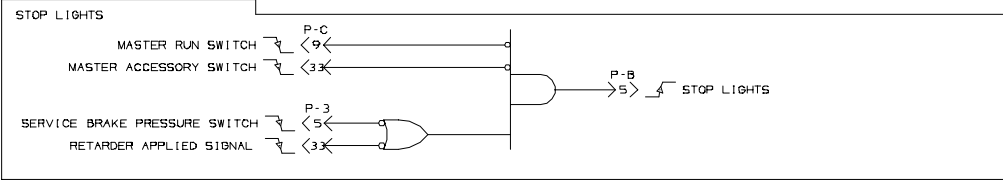
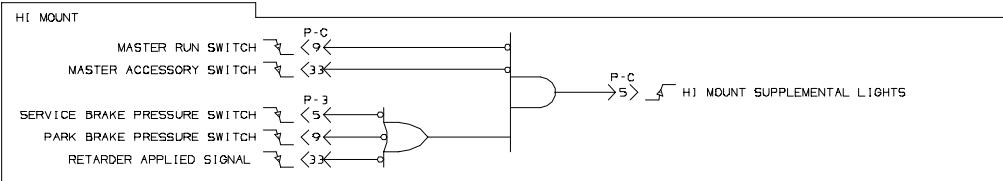
PIN	SIZE	LOCATION
F3	8	FUSE BOX/BATTERY COMPT
F4	8	FUSE BOX/BATTERY COMPT
P-1A	23	MODULE/FRONT JUNCTION BOX
P-30	35	MODULE/LH REAR PANEL RACK
P-4	35	MODULE/LH FRONT SERVICE COMPT
P-27	48	BOTTOM/FRONT JUNCTION BOX
P-30	15	ABS BOX/REAR #1 BAGGAGE COMPT
P-31	4-28	REAR OF FRONT JUNCTION BOX
P-32	4-28	BOTTOM/FRONT JUNCTION BOX
P-33	48	BOTTOM/FRONT JUNCTION BOX
P-36	4-28	ENGINE COMPT
P-37	31	TRANSMISSION FLUG ENGINE COMPT
P-39	4-28	ENGINE COMPT/REAR ROOF
P-41	36	FRONT JUNCTION BOX/LH CONSOLE
P-118	19	BATTERY COMPT
P-119	48	BATTERY COMPT
P-121	30	BATTERY COMPT

- NOTES:
- 1 REFER TO EXTERIOR LIGHT SCHEMATIC.
 - 2 REFER TO ODEC SCHEMATIC.
 - 3 REFER TO ALARM AND TELLTALES SCHEMATIC.
 - 4 REFER TO WOL SCHEMATIC.
 - 5 REFER TO ENTRANCE DOOR SCHEMATIC.
 - 6 REFER TO ECAS SCHEMATIC.

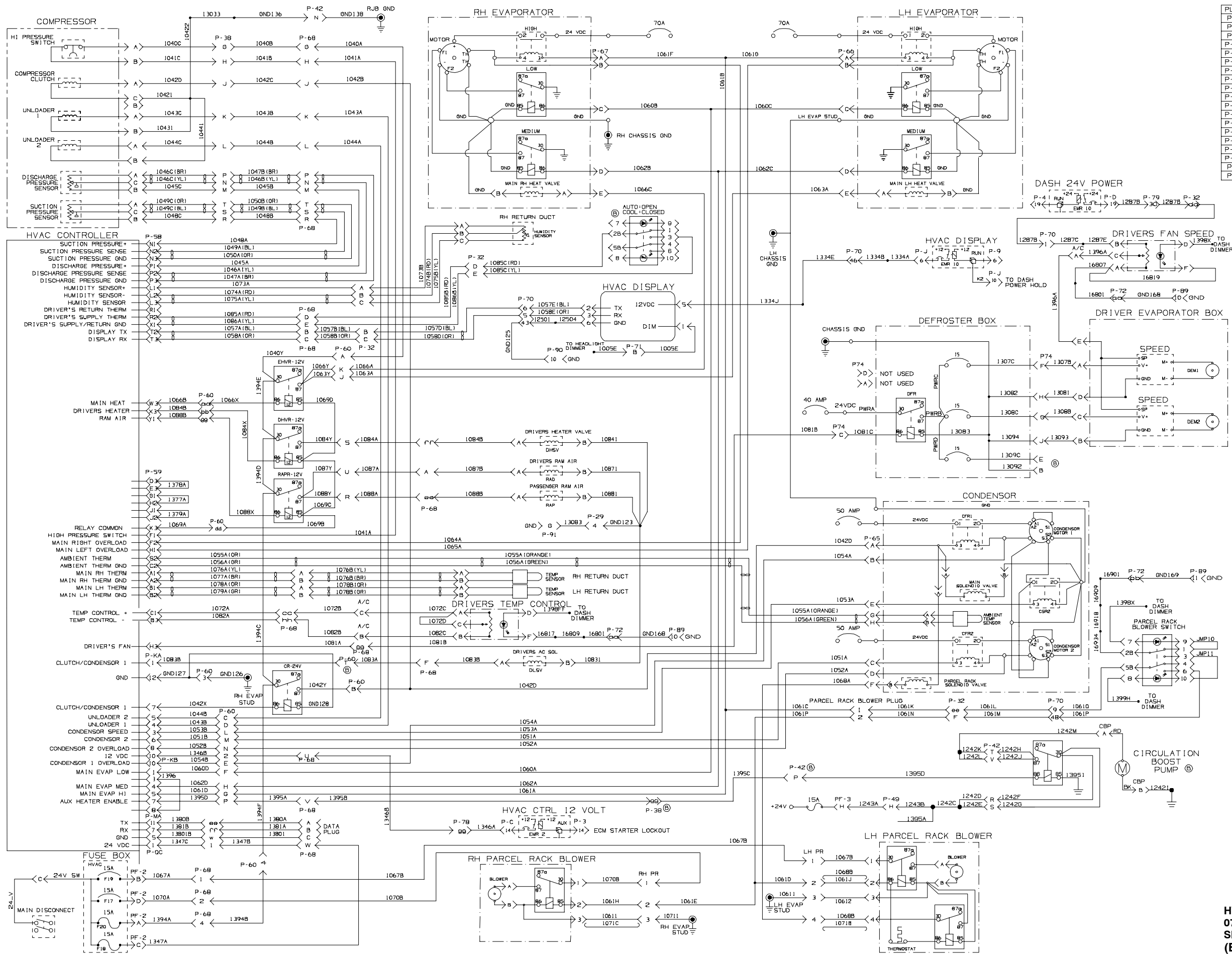




EXTERIOR LIGHTING
07-14-6301 (REV A)
SHEET 1 OF 2
(EFFECTIVE PRIOR TO #62032)

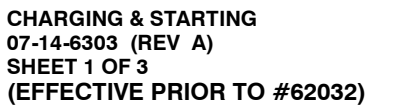


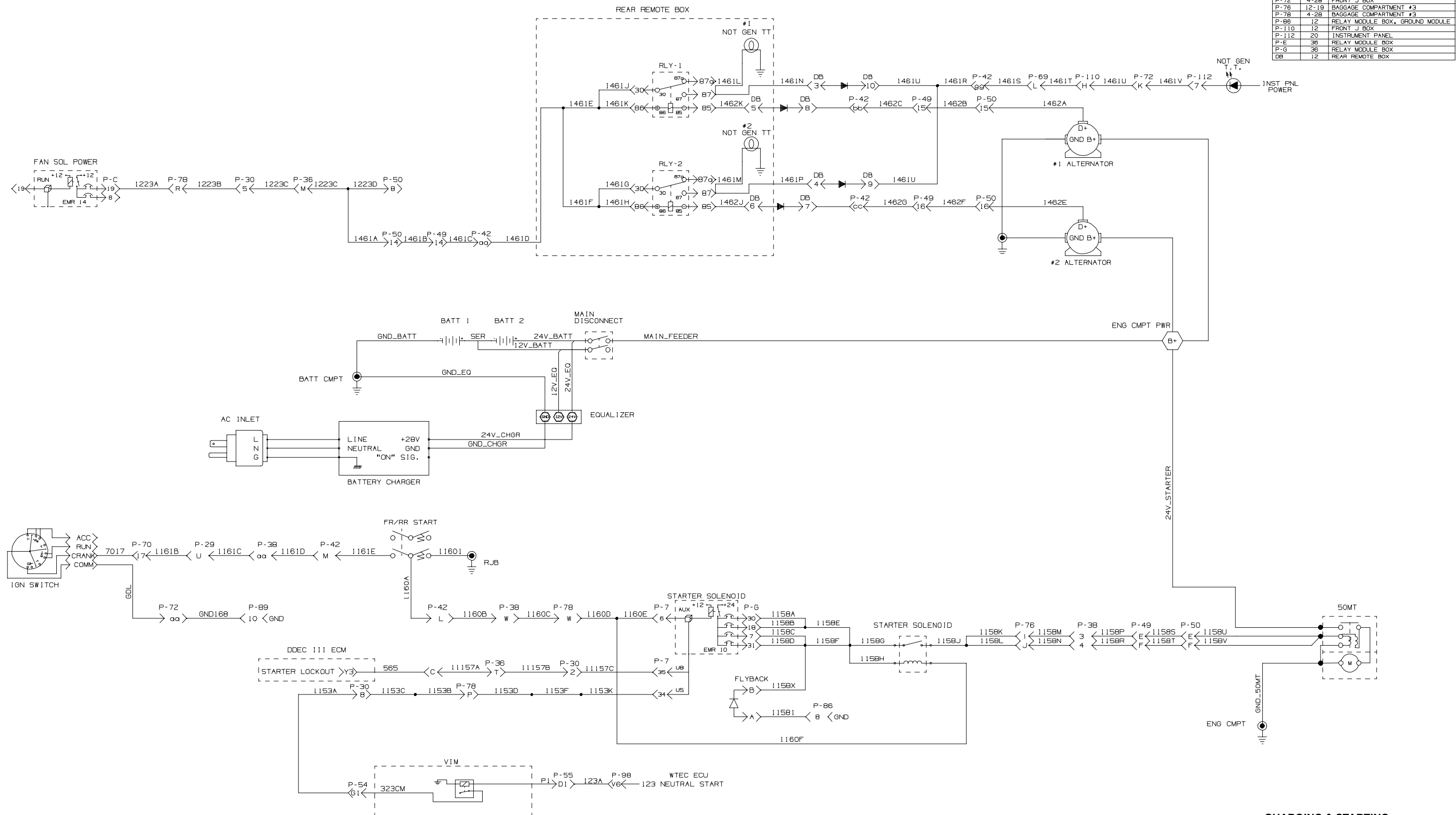
SYMBOL	MEANING
	OR
	AND
	NOT (INVERT)
	ACTIVE HIGH
	ACTIVE LOW



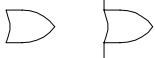
PLUG	SIZE	LOCATION
P-3	36 WAY	MODULE BOX #3 BAGG CMPT
P-9	36 WAY	FRONT J BOX
P-8	36 WAY	FRONT J BOX
P-29	4-28 WAY	FRONT J BOX
P-32	4-28 WAY	FRONT J BOX
P-33	48 WAY	FRONT J BOX
P-38	4-28 WAY	ENGINE CMPT
P-42	4-28 WAY	REAR J BOX
P-58	27 WAY	BATTERY CMPT
P-59	30 WAY	BATTERY CMPT
P-60	4-28 WAY	BATTERY CMPT
P-65	12 WAY	CONDENSOR CMPT
P-66	12 WAY	LH EVAPORATOR
P-67	12 WAY	RH EVAPORATOR
P-68	4-28 WAY	CTR TUNNEL AT FUEL TANK
P-70	48 WAY	FRONT J BOX
P-74	12 WAY	RH HEADLIGHT
P-C	36 WAY	MODULE BOX #3 BAGG CMPT
P-J	36 WAY	FRONT J BOX

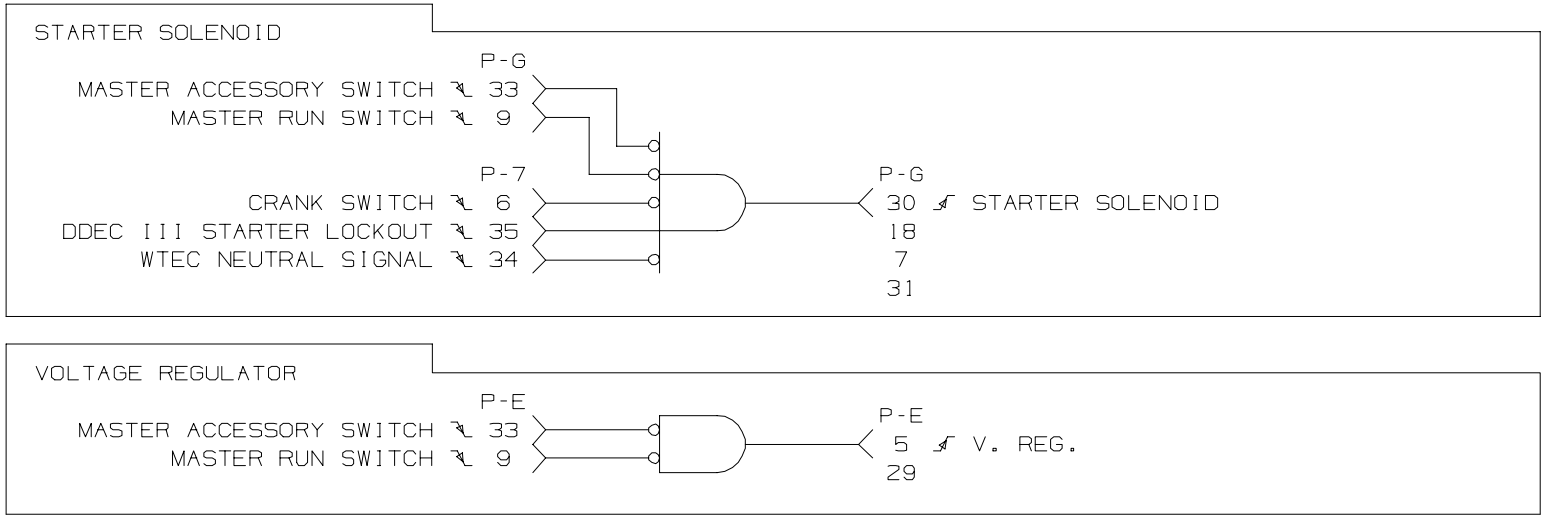
HVAC
07-14-6302 (REV B)
SHEET 1 OF 1
(EFFECTIVE PRIOR TO #61731)

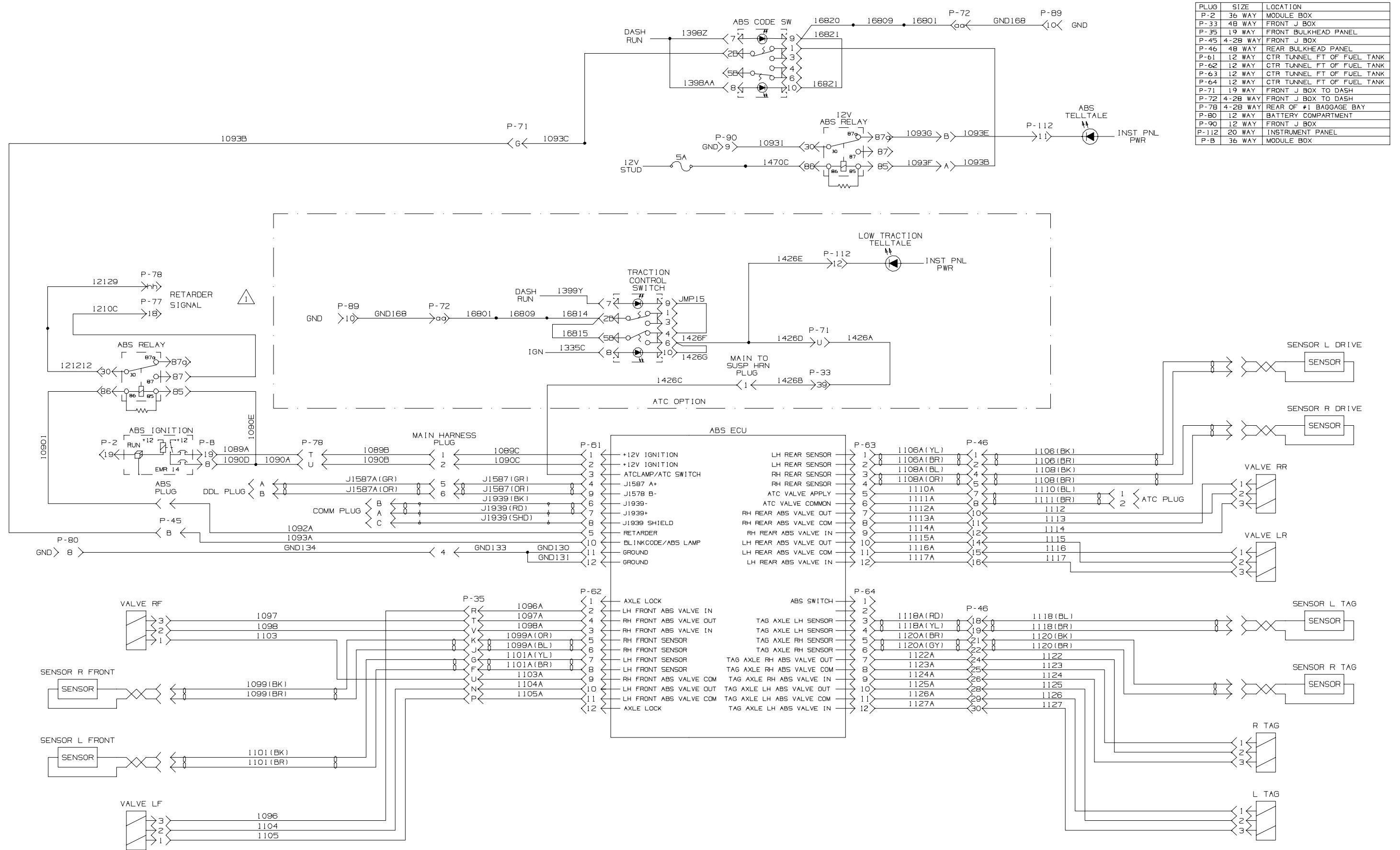




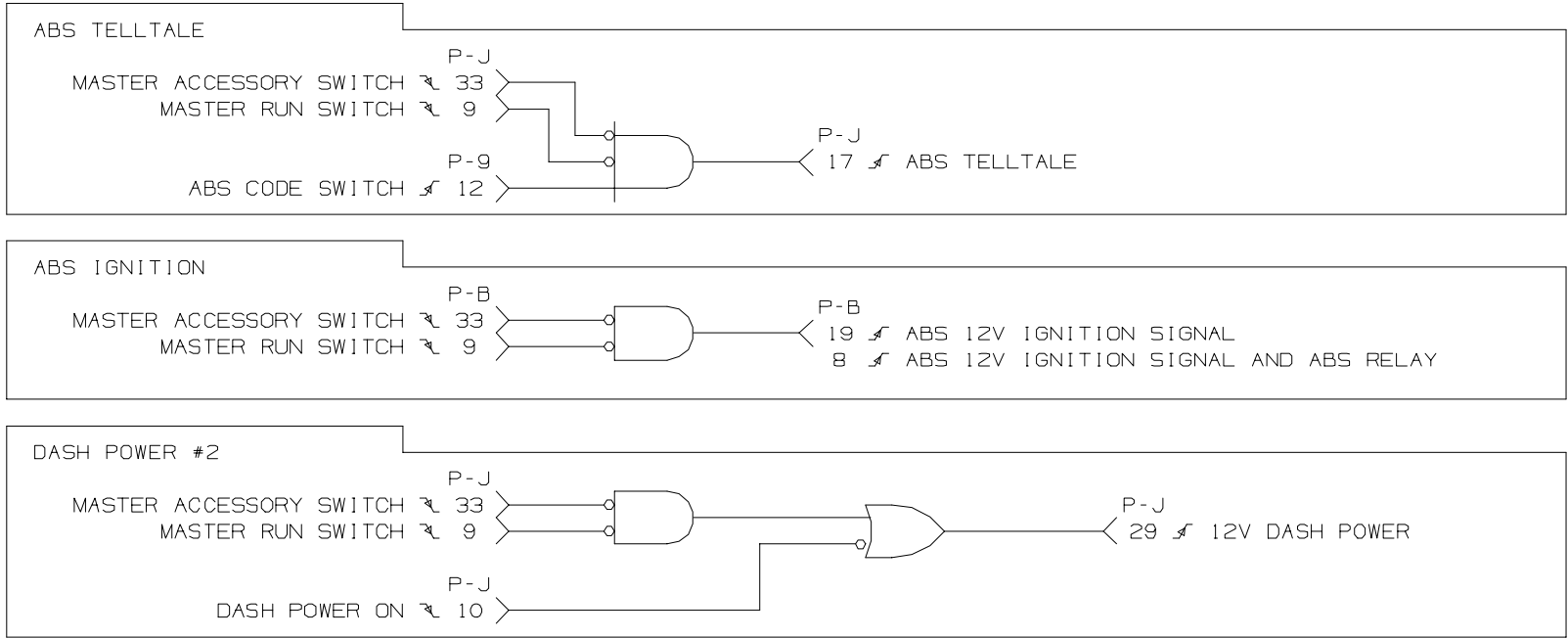
CHARGING & STARTING
07-14-6303 (REV A)
SHEET 2 OF 3
(EFFECTIVE PRIOR TO #62032)

SYMBOL		MEANING
		OR
		AND
		NOT (INVERT)
		ACTIVE HIGH
		ACTIVE LOW

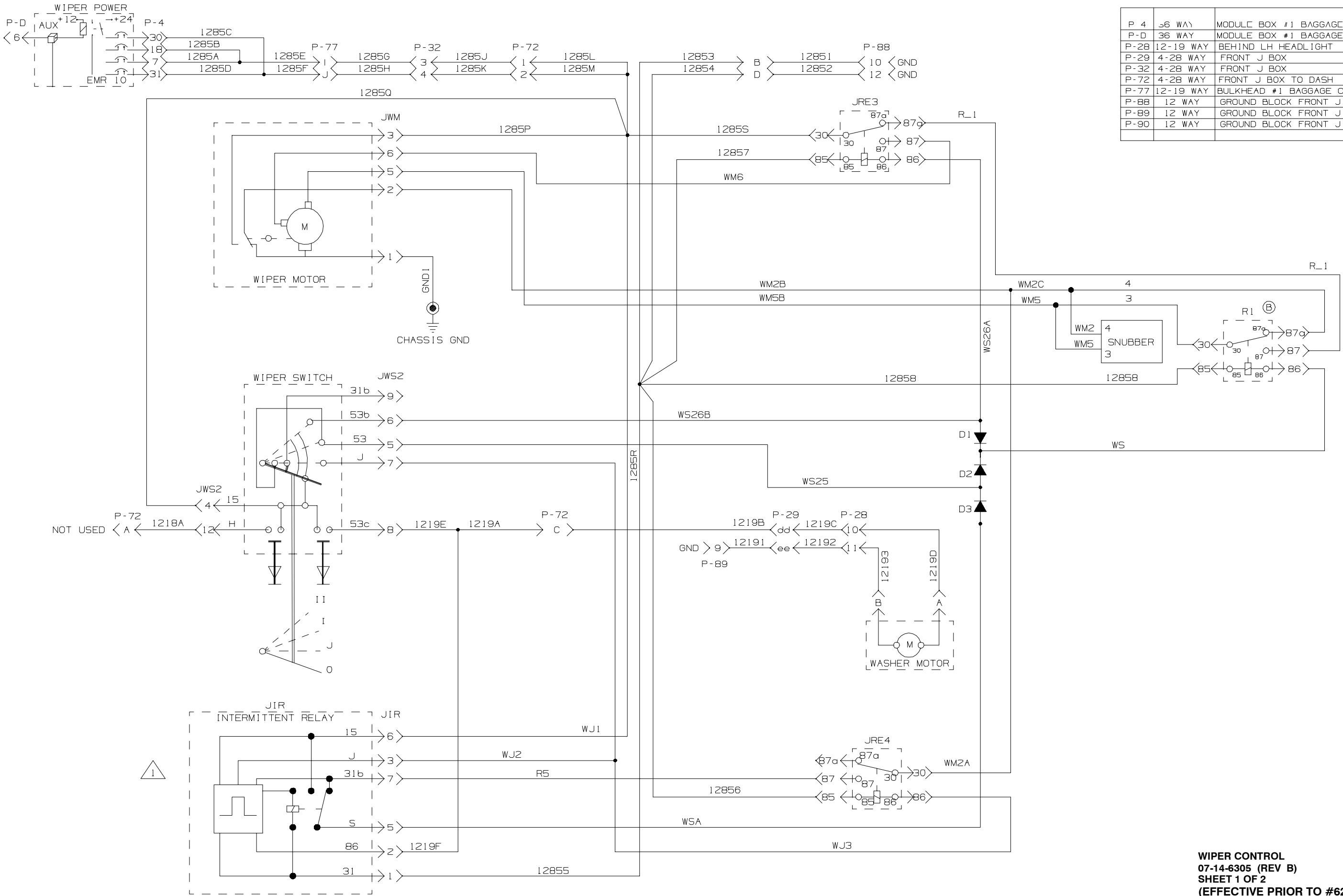




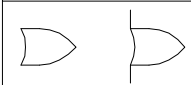
ABS
07-14-6304 (REV A)
SHEET 1 OF 2
(EFFECTIVE PRIOR TO #62032)

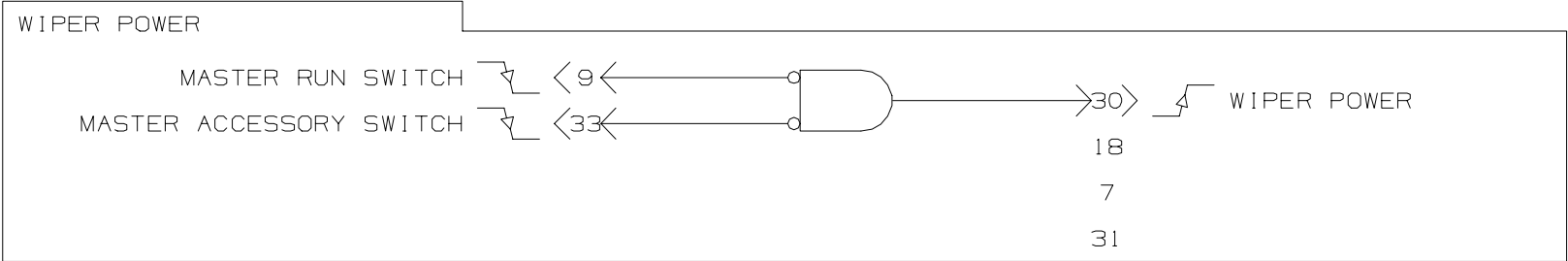


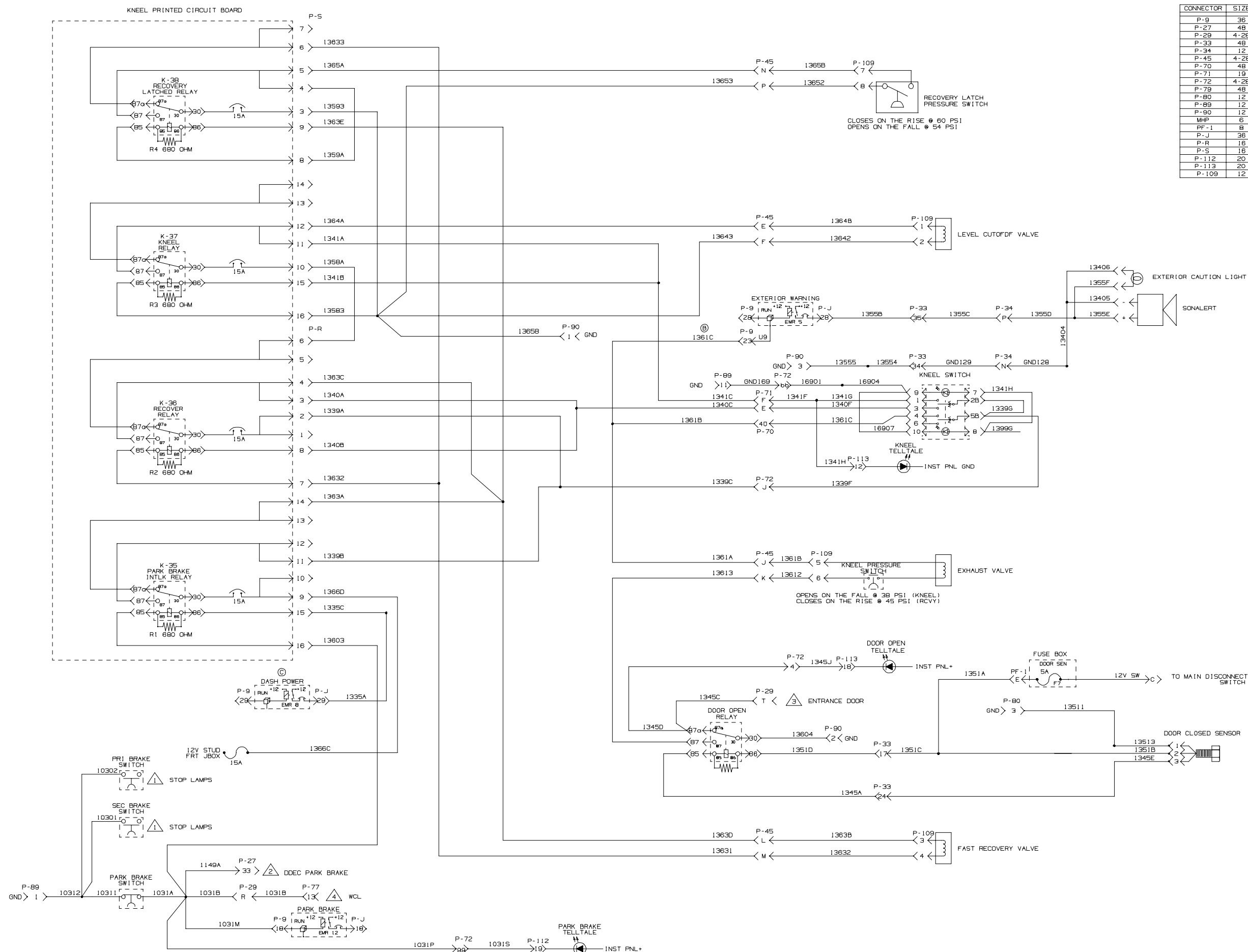
P 4	56 WAY	MODULE BOX #1 BAGGAGE COMPT
P-D	36 WAY	MODULE BOX #1 BAGGAGE COMPT
P-28	12-19 WAY	BEHIND LH HEADLIGHT
P-29	4-28 WAY	FRONT J BOX
P-32	4-28 WAY	FRONT J BOX
P-72	4-28 WAY	FRONT J BOX TO DASH
P-77	12-19 WAY	BULKHEAD #1 BAGGAGE COMPT
P-88	12 WAY	GROUND BLOCK FRONT J BOX
P-89	12 WAY	GROUND BLOCK FRONT J BOX
P-90	12 WAY	GROUND BLOCK FRONT J BOX



WIPER CONTROL
07-14-6305 (REV B)
SHEET 1 OF 2
(EFFECTIVE PRIOR TO #62032)

SYMBOL	MEANING
	OR
	AND
	NOT (INVERT)
	ACTIVE HIGH
	ACTIVE LOW

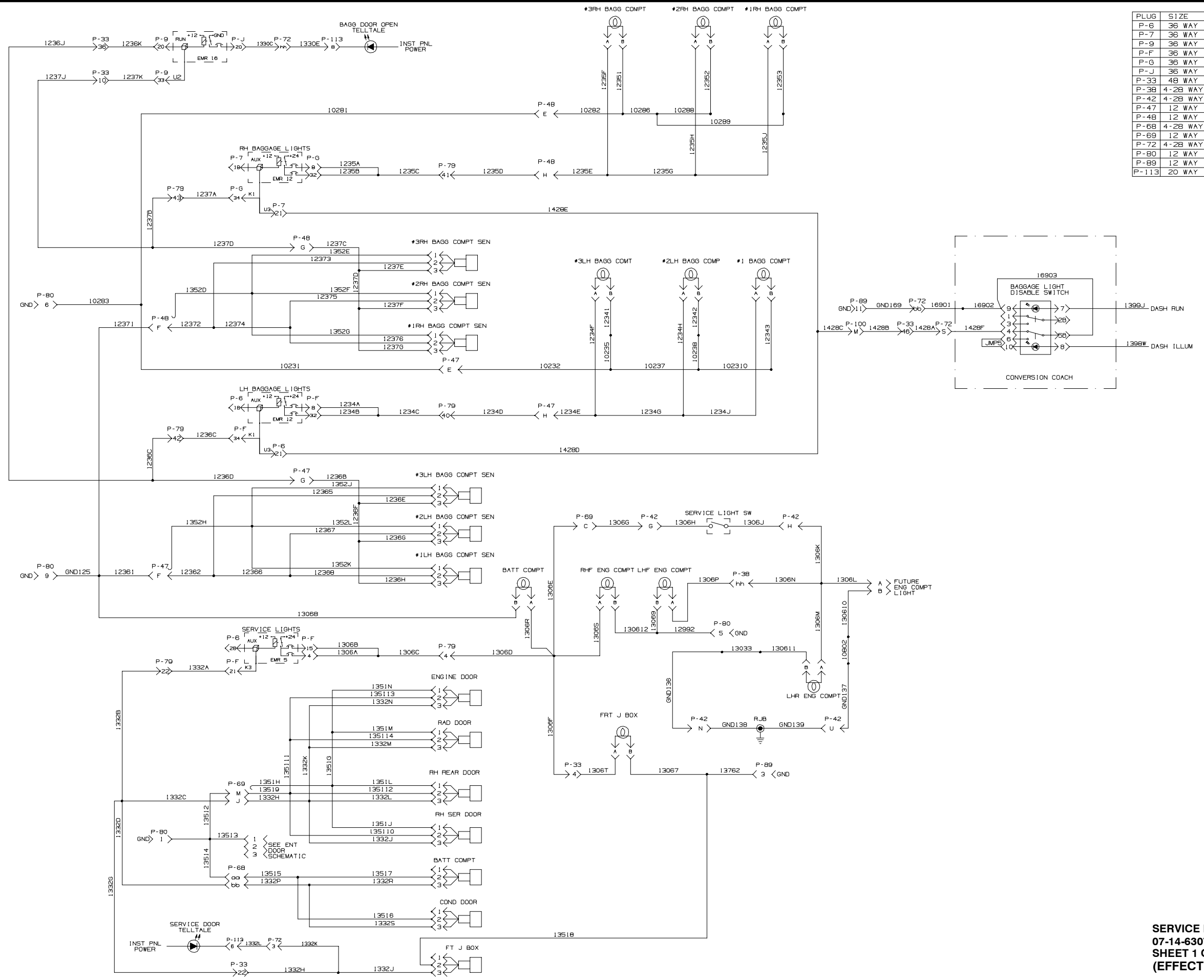




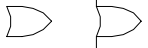
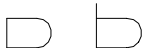
CONNECTOR	SIZE	LOCATION
P-9	36	FRONT JUNCTION BOX
P-27	48	FRONT JUNCTION BOX
P-29	4-28	FRONT JUNCTION BOX
P-33	48	FRONT JUNCTION BOX
P-34	12	BEHIND STAIRWELL REAR CLOSING PANEL
P-45	4-28	FRONT JUNCTION BOX
P-70	48	FRONT JUNCTION BOX
P-71	19	FRONT JUNCTION BOX
P-72	4-28	FRONT JUNCTION BOX
P-79	48	BULKHEAD, #1 BAGGAGE COMPARTMENT
P-80	12	GROUND MODULE, #1 BAGGAGE COMPARTMENT
P-89	12	GROUND MODULE, FRONT JUNCTION BOX
P-90	12	GROUND MODULE, FRONT JUNCTION BOX
MHP	6	#3 BAGGAGE COMPARTMENT
PF-1	8	FUSE BOX, BATTERY COMPARTMENT
P-J	36	FRONT JUNCTION BOX
P-R	16	KNEEL PC BOARD
P-S	16	KNEEL PC BOARD
P-112	20	INSTRUMENT PANEL
P-113	20	INSTRUMENT PANEL
P-109	12	SPARE TIRE COMPARTMENT

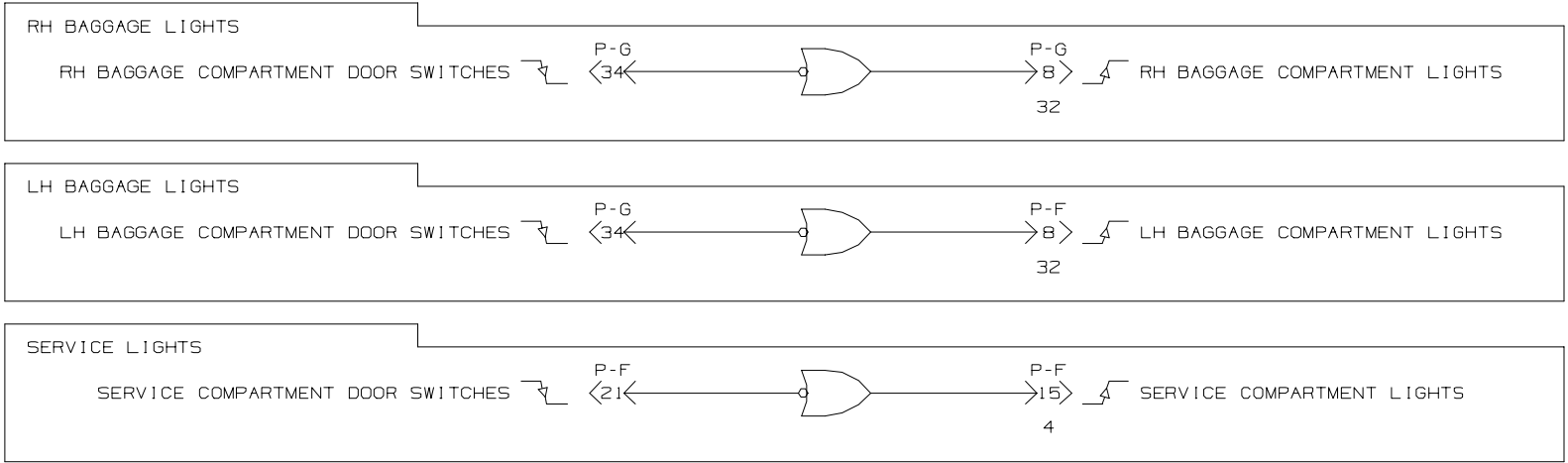
- 1 REFER TO EXTERIOR LIGHTING SCHEMATIC.
- 2 REFER TO DDEC SCHEMATIC.
- 3 REFER TO ENTRANCE DOOR SCHEMATIC.
- 4 REFER TO WHEELCHAIR SCHEMATIC

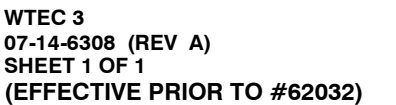
KNEELING
07-14-6306 (REV C)
SHEET 1 OF 1
(EFFECTIVE PRIOR TO #62032)

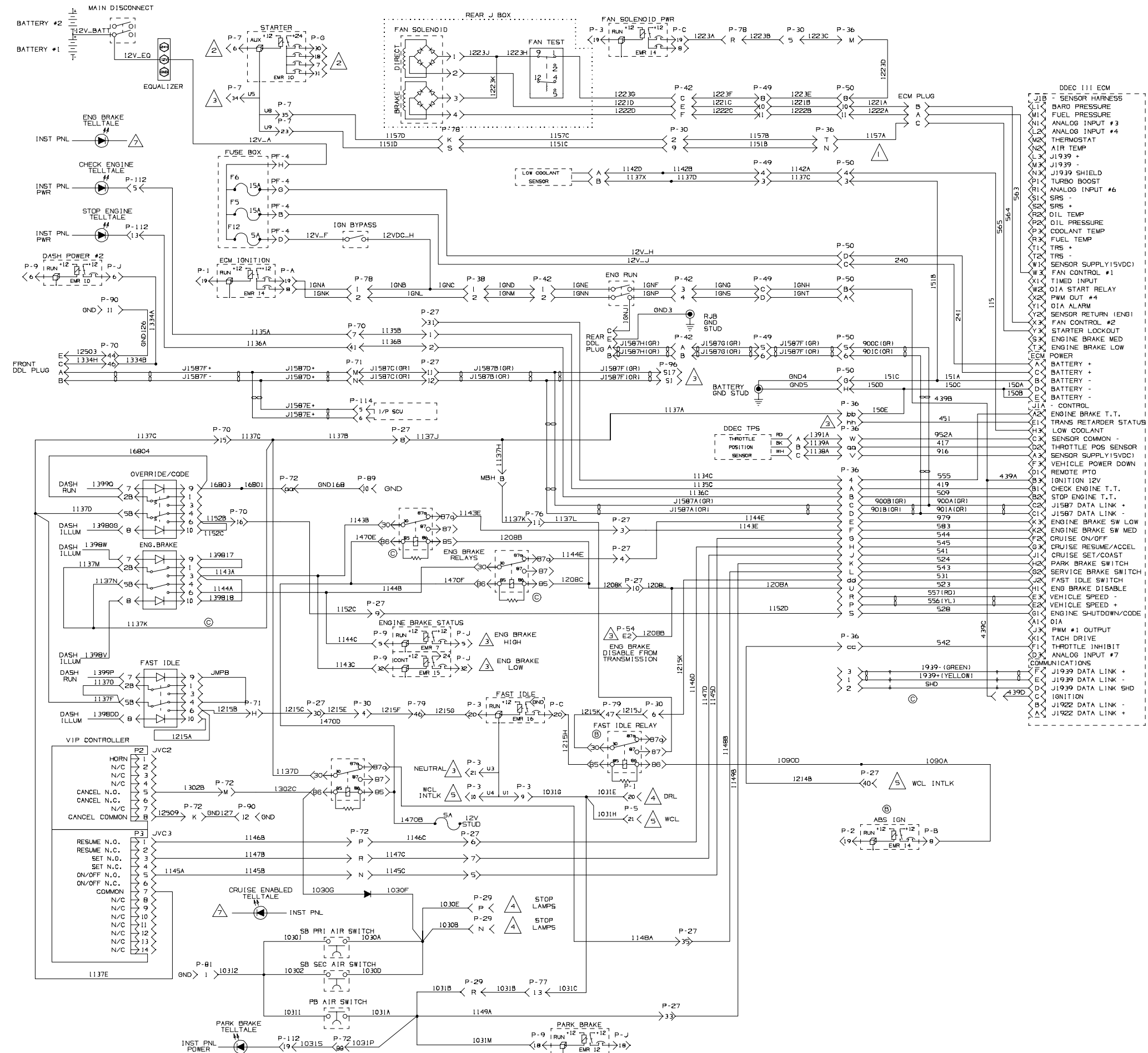


SERVICE LIGHTS
07-14-6307 (REV A)
SHEET 1 OF 2
(EFFECTIVE PRIOR TO #62032)

SYMBOL		MEANING
		OR
		AND
		NOT (INVERT)
		ACTIVE HIGH
		ACTIVE LOW







NOTE:
1) DISCONNECT DDEC COMMUNICATIONS PLUG IF J1939 DATA LINK IS NOT USED TO PREVENT ERROR CODE GENERATION. TIE BACK PLUG IN HARNESS AND CAP DDEC CONNECTOR.

1 NOT REQUIRED FOR DDEC III.

2 REFER TO CHARGING AND STARTING SCHEMATIC.

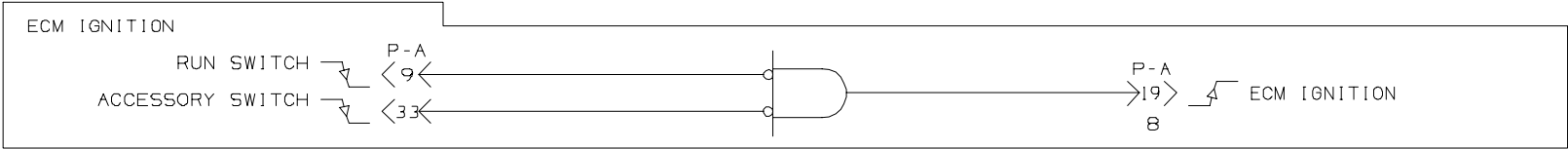
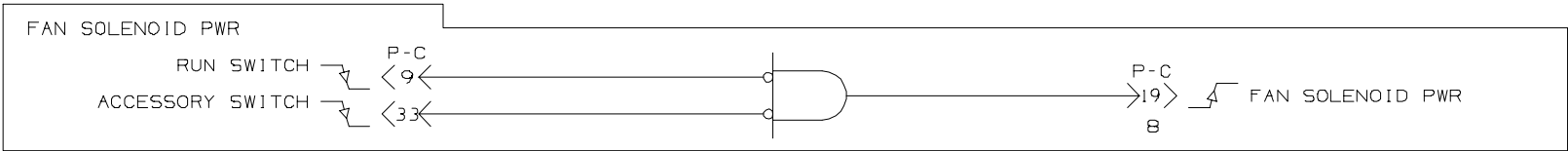
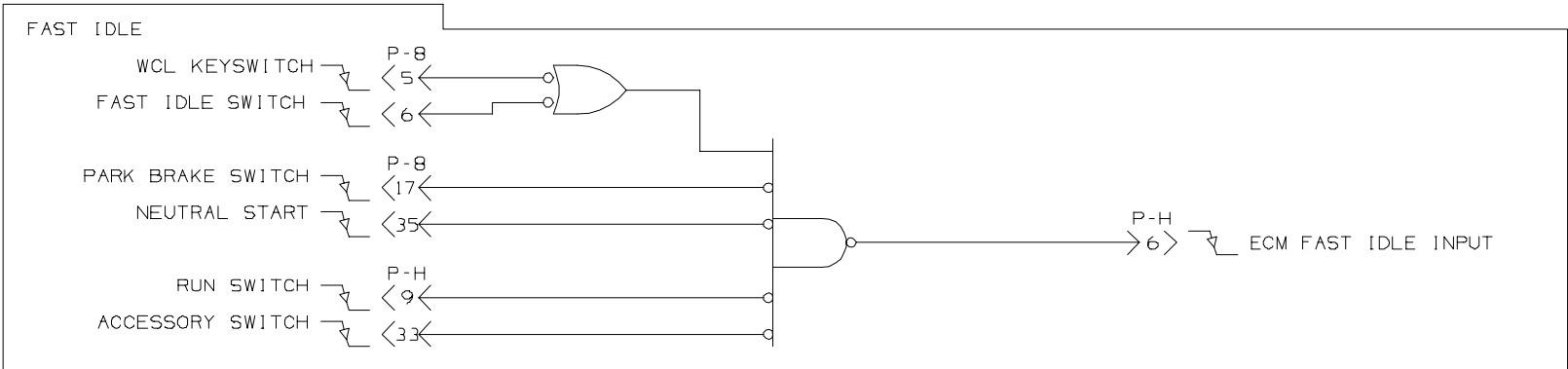
3 REFER TO WTEC SCHEMATIC.

4 REFER TO EXTERIOR LIGHTING SCHEMATIC.

5 REFER TO WCL SCHEMATIC.

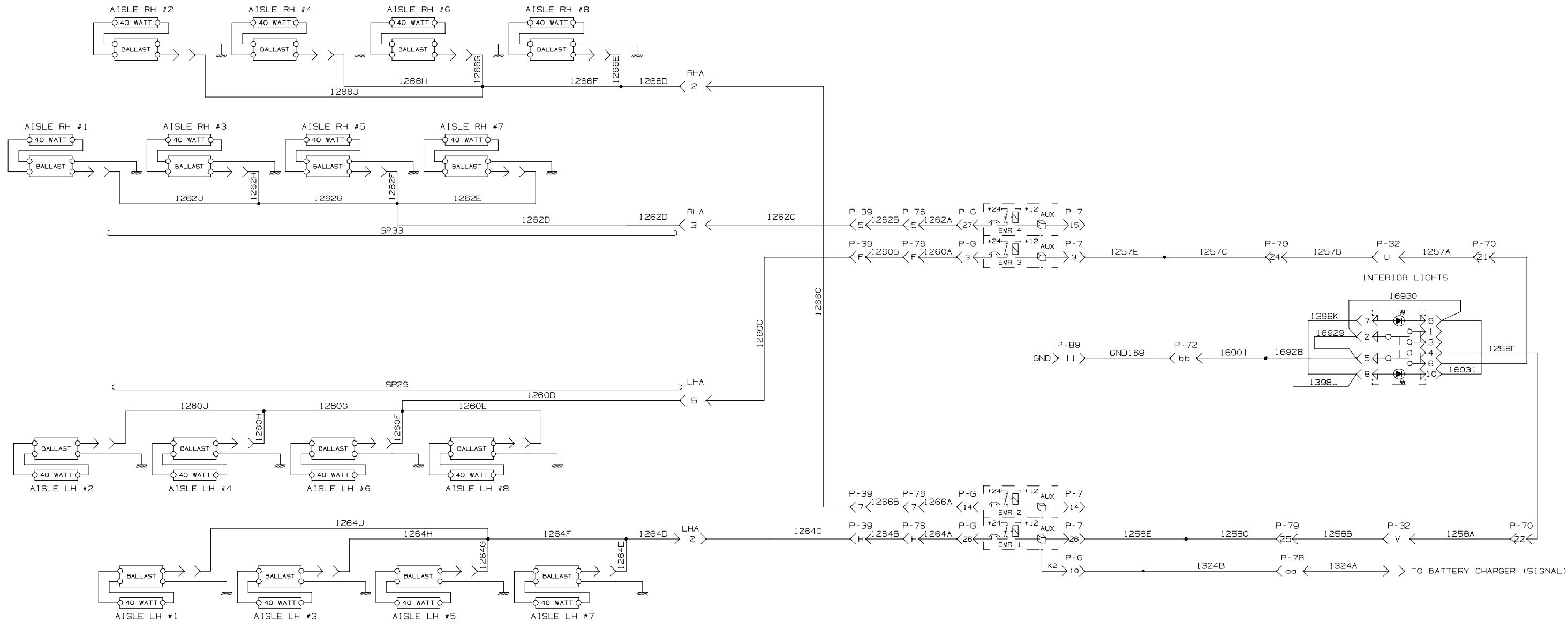
6 REFER TO KNEEL SCHEMATIC.

7 TELLTALE ACTIVATED WITH J1587 MESSAGE.



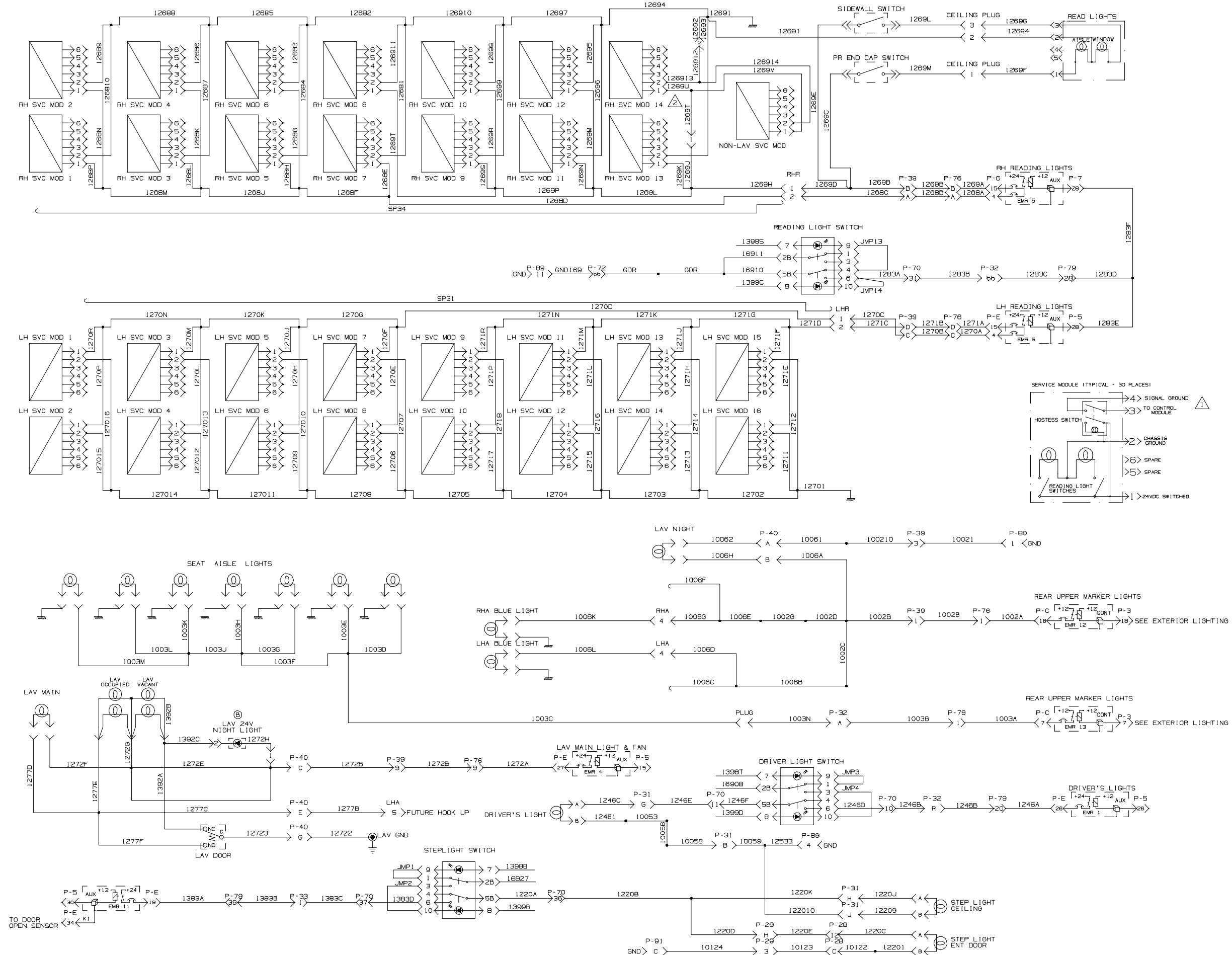
SYMBOL	MEANING
	OR
	AND
	NOT (INVERT)
	ACTIVE HIGH
	ACTIVE LOW

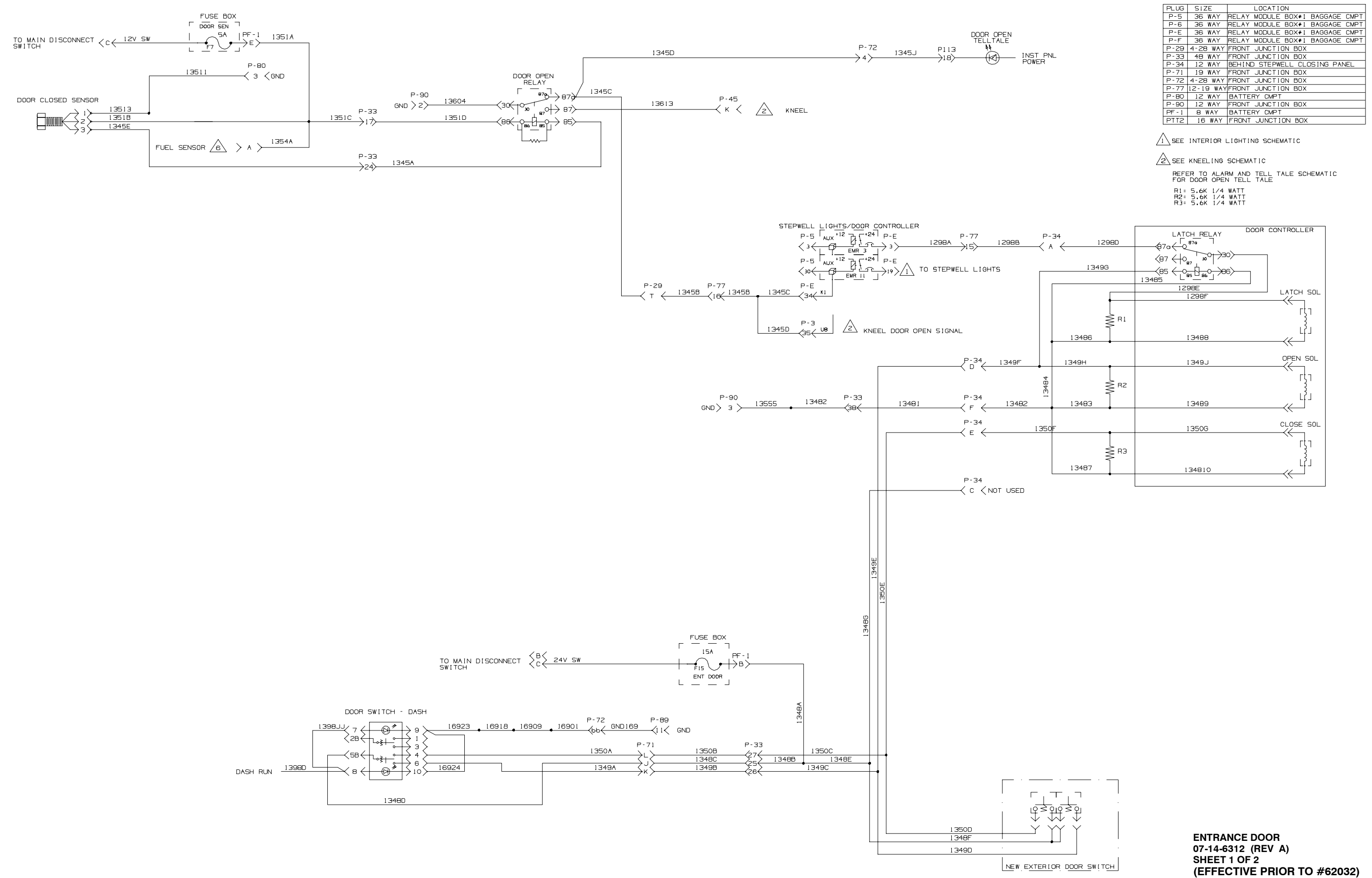
PLUG	SIZE	LOCATION
P-6	36 WAY	RELAY MODULE BOX#3 BAGGAGE CMPT
P-7	36 WAY	RELAY MODULE BOX#3 BAGGAGE CMPT
P-F	36 WAY	RELAY MODULE BOX#3 BAGGAGE CMPT
P-G	36 WAY	RELAY MODULE BOX#3 BAGGAGE CMPT
P-32	4-28 WAY	FRONT JUNCTION BOX
P-39	4-28 WAY	ENGINE CMPT AT LOWER LAV
P-70	48 WAY	FRONT JUNCTION BOX
P-72	4-28 WAY	FRONT JUNCTION BOX
P-76	12-19 WAY	RH#3 BAGGAGE CMPT BULKHEAD
P-79	48 WAY	RH#3 BAGGAGE CMPT BULKHEAD
P-89	12 WAY	FRONT JUNCTION BOX
LHA	6 WAY	LH REAR P.R. AT AISLE LIGHTS
LHW	6 WAY	LH REAR P.R. AT WINDOW LIGHTS
RHA	6 WAY	RH REAR P.R. AT AISLE LIGHTS
RHW	6 WAY	RH REAR P.R. AT WINDOW LIGHTS



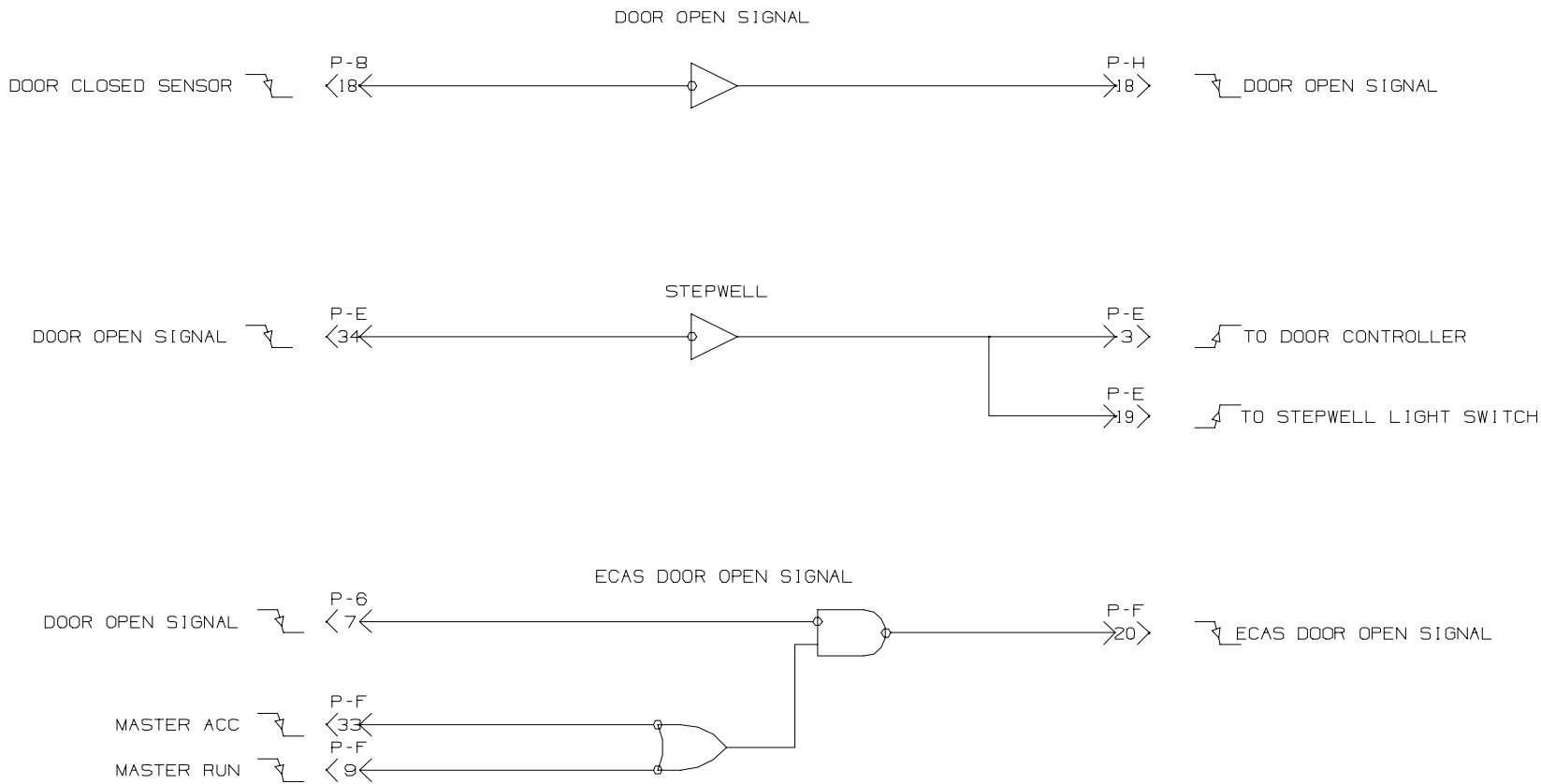
INTERIOR LIGHTS
07-14-6310 (REV B)
SHEET 1 OF 2
(EFFECTIVE PRIOR TO #62032)

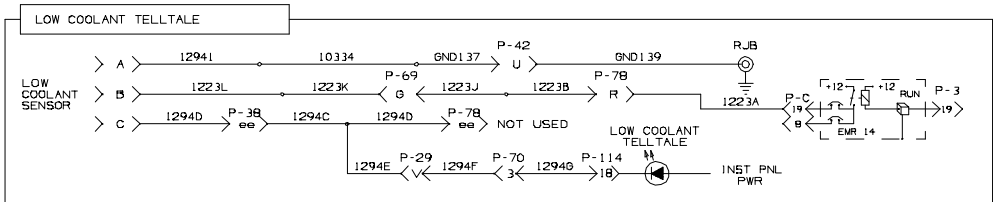
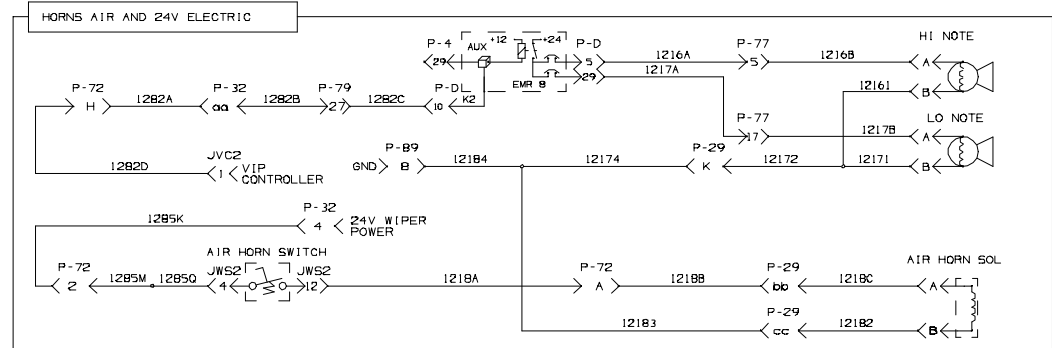
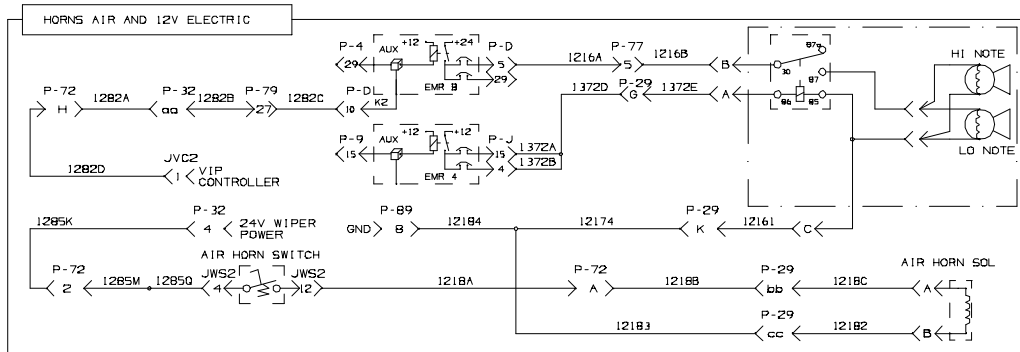
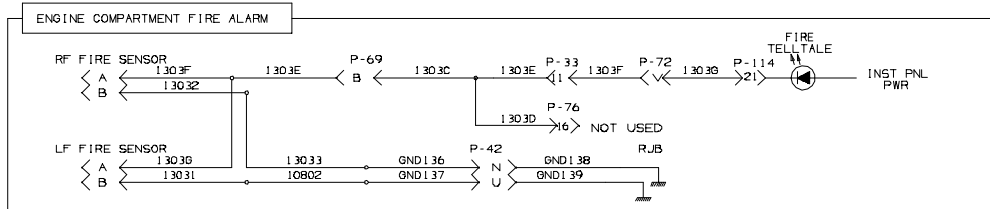
2 CKT 1269J AND 12692 ARE CONNECTED TO PIN 1 AND 2 RESPECTIVELY ON RH SERVICE MODULE 14 FOR LAV EQUIPPED COACHS

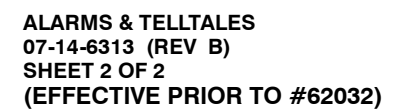
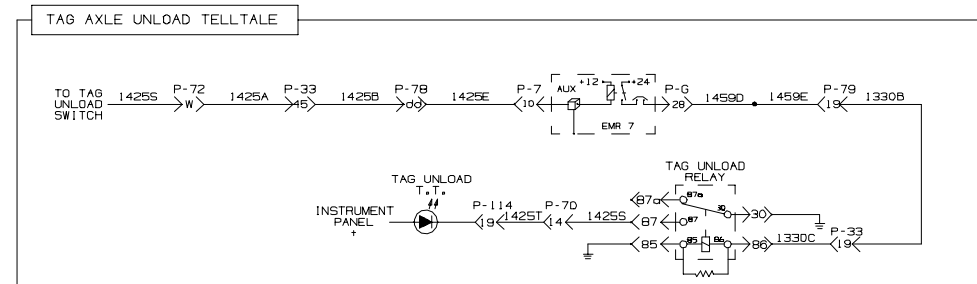
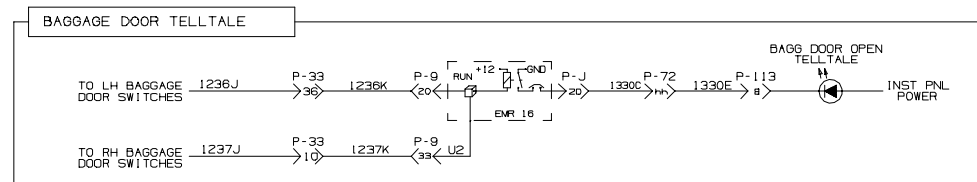
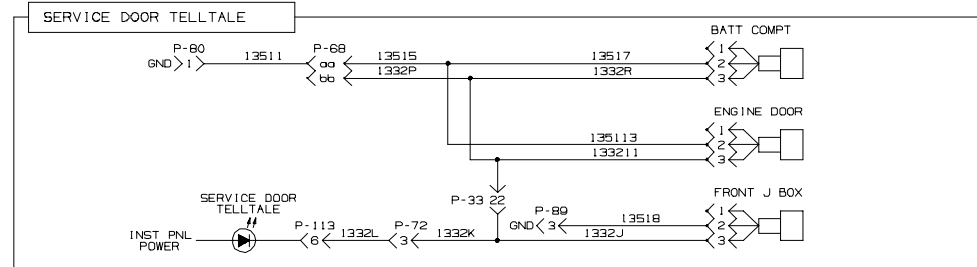
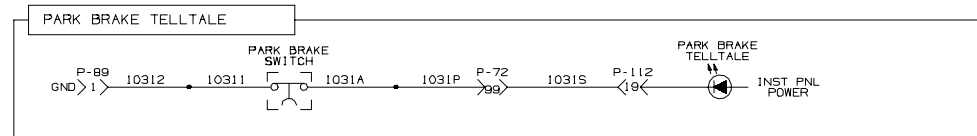
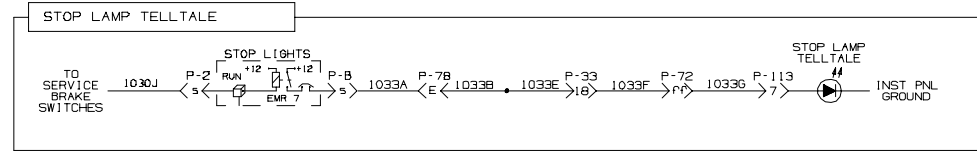
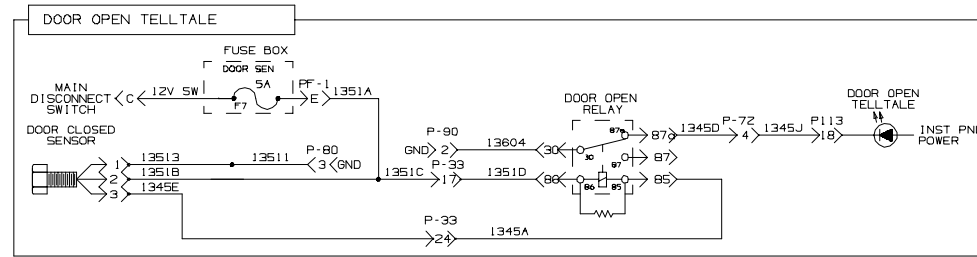




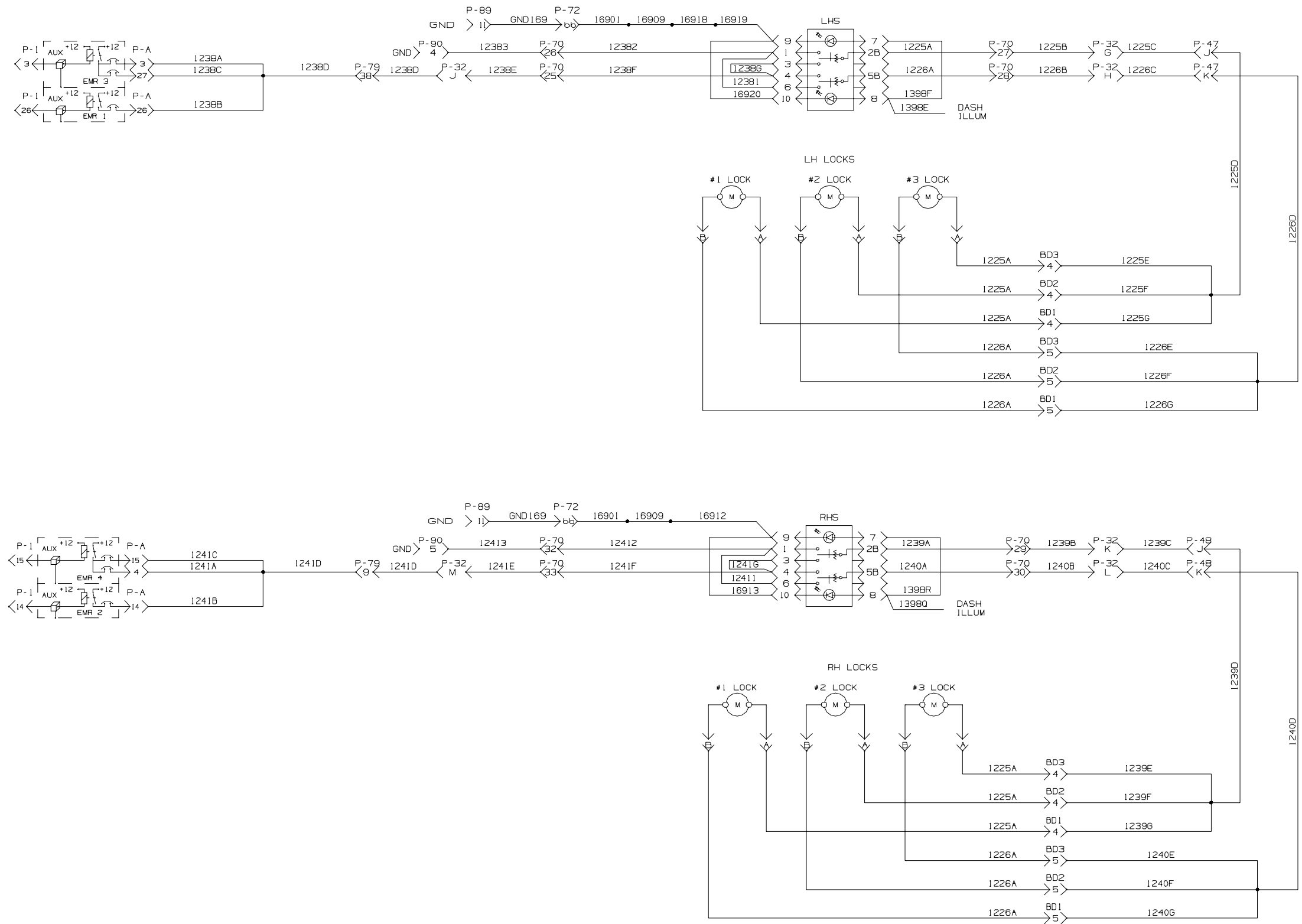
LEGEND		
SYMBOL		MEANING
		OR
		AND
		NOT (INVERT)
		ACTIVE HIGH
		ACTIVE LOW

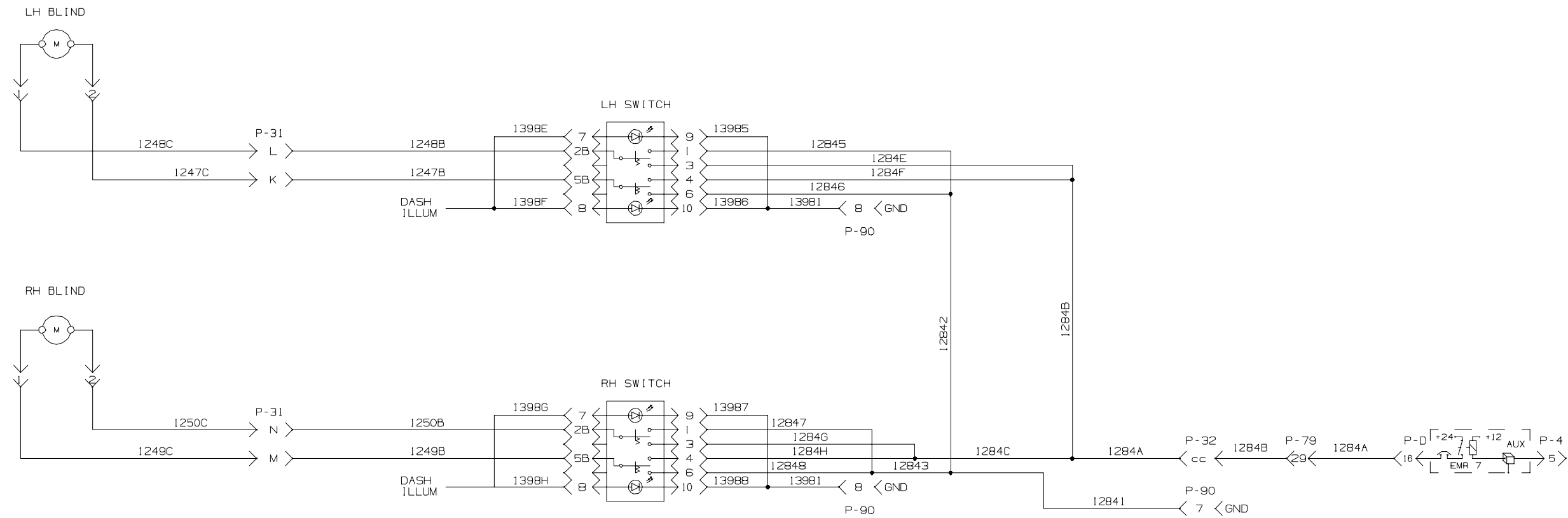




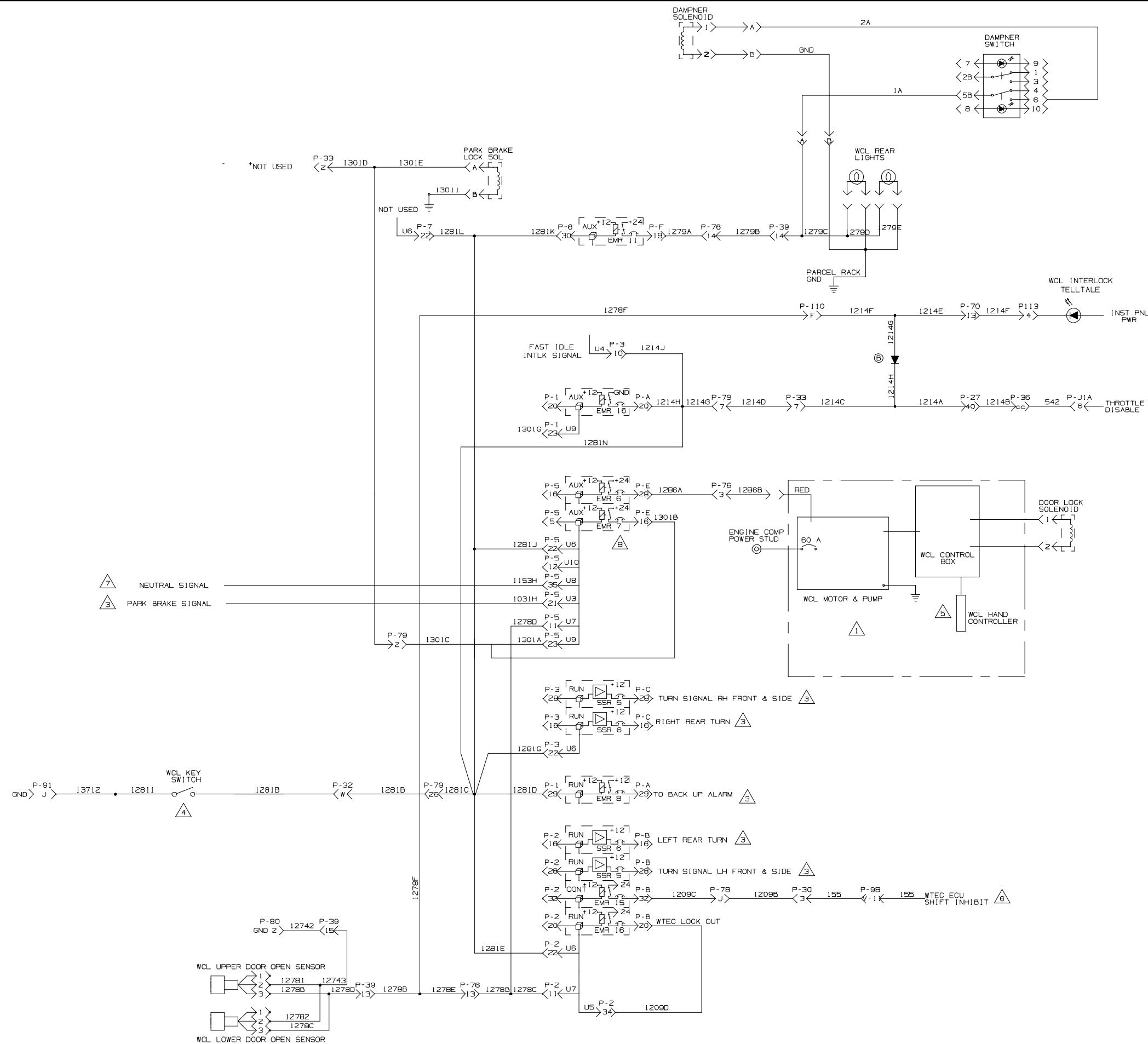


BAGGAGE LOCKS
07-14-6314 (REV A)
SHEET 1 OF 1
(EFFECTIVE PRIOR TO #62032)

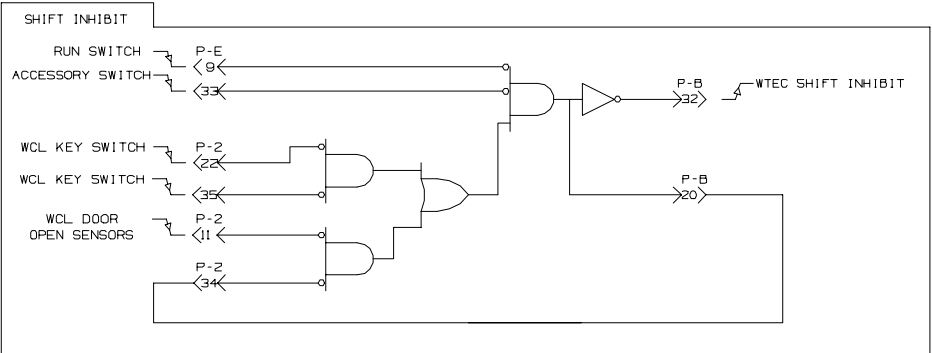
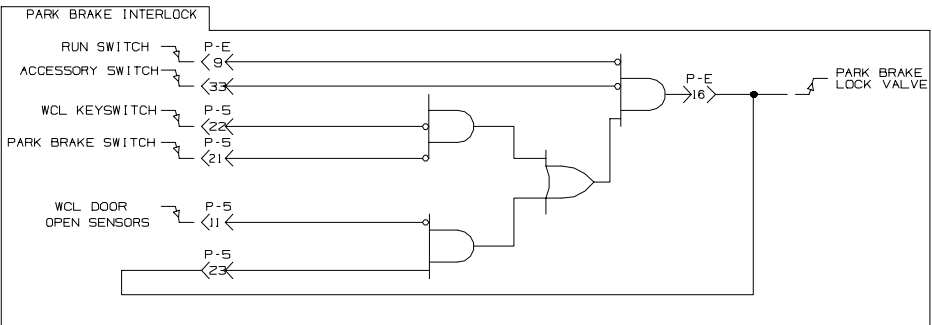
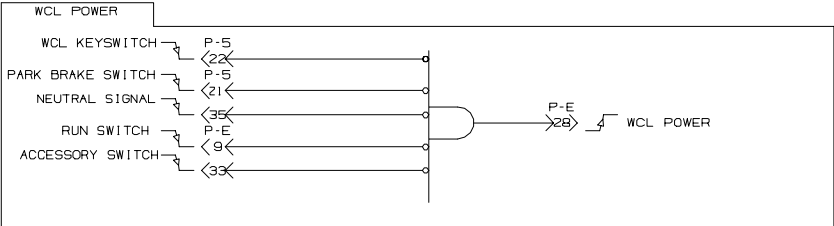
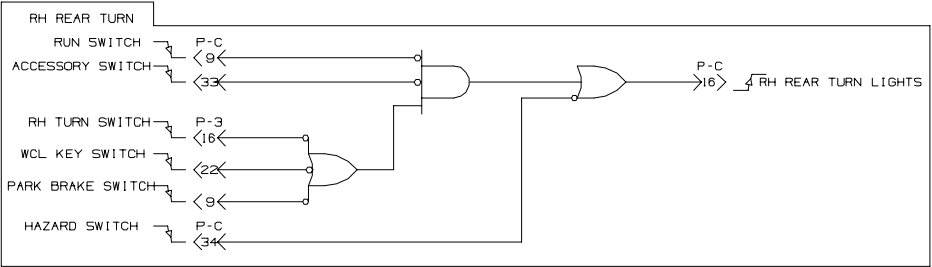
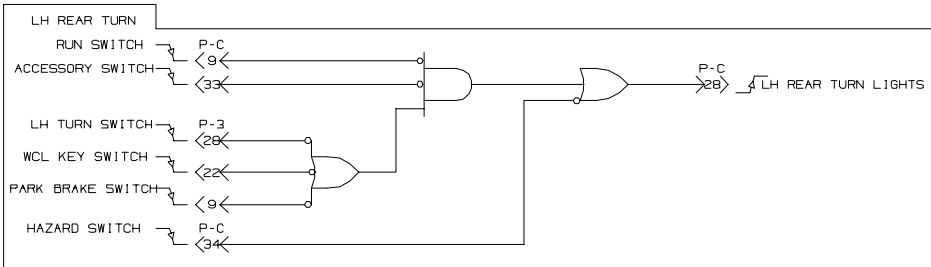
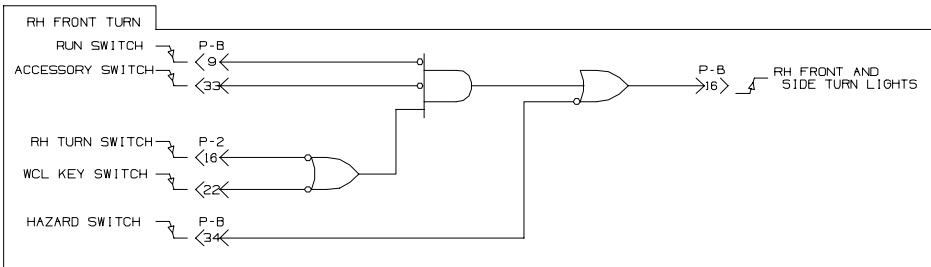
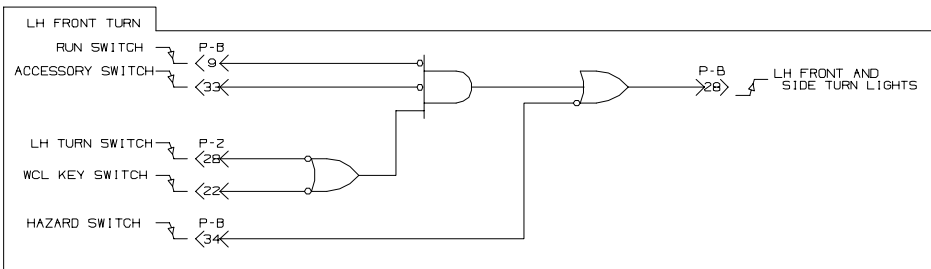
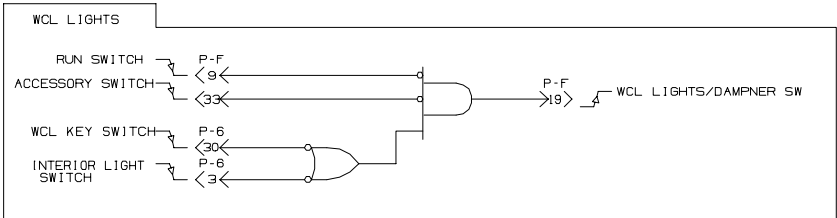
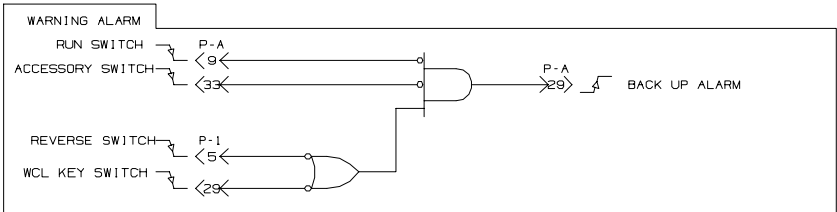
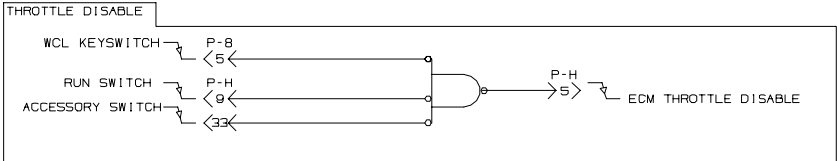
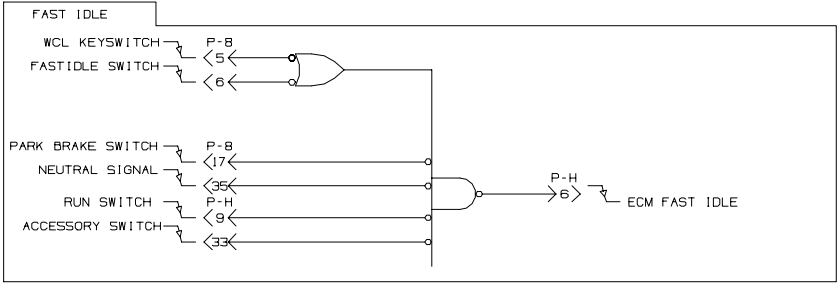


[illegible]

BLINDS OPTION
07-14-6315 (REV A)
SHEET 1 OF 1
(EFFECTIVE PRIOR TO #62032)

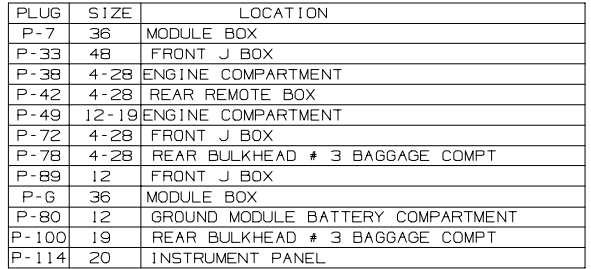


- 1 SEE S&S MANUAL FOR SERVICE
- 2 SEE ENGINE SCHEMATIC
- 3 SEE EXTERIOR LIGHTING SCHEMATIC
- 4 KEY CAN ONLY BE REMOVED IN THE ON POSITION
- 5 KEY CAN ONLY BE REMOVED IN THE OFF POSITION
- 6 AUX FUNCTION RANGE INHIBIT WHEN THIS FUNCTION IS SELECTED NEUTRAL TO RANGE SHALL BE INHIBITED WHEN WCL IS IN USE. USE PRO-LINK TO TURN FUNCTION ON.
- 7 SEE WTEC SCHEMATIC



SYMBOL	MEANING
	OR
	AND
	NOT (INVERT)
	ACTIVE HIGH
	ACTIVE LOW

OPERATION		
STEP	ACTION	RESULT
1	RUN ENGINE	PROVIDE ELECTRICAL POWER AND RUN & ACCESSORY SIGNAL
2	SELECT NEUTRAL	TRANSMISSION SHIFTS TO NEUTRAL
3	APPLY PARK BRAKE	PARK BRAKE APPLIES
4	RECOVER SUSPENSION	VEHICLE ASSUMES NORMAL RIDE HEIGHT
5	TURN ON FRONT WCL KEYSWITCH	THROTTLE DISABLED. WCL INTERLOCK TELLTALE ON. ENGINE AT FAST IDLE. FLASHERS ON. WCL (BACKUP) ALARM ON. PARK BRAKE LOCK VALVE ENERGIZED. NEUTRAL TO RANGE INHIBITED (SHIFT INHIBIT). WCL INTERIOR LIGHT ON. WCL CONTROLLER ENERGIZED.
6	OPEN LOWER WCL DOOR	APPLIES SECONDARY SIGNAL FOR: • PARK BRAKE LOCK VALVE. • NEUTRAL TO RANGE INHIBIT.
7	TURN ON HAND CONTROLLER KEYSWITCH	UPPER DOOR LOCK SOLENOID VALVE ENERGIZED
8	OPEN UPPER WCL DOOR	APPLIES SECONDARY SIGNAL FOR: • PARK BRAKE LOCK VALVE. • NEUTRAL TO RANGE INHIBIT.
9	TURN ON DAMPENER SWITCH	MAINTAINS UPPER WCL DOOR POSITION
10	OPERATE WCL AS REQUIRED	SEE S&S OPERATORS MANUAL
11	STOW LIFT	SEE S&S OPERATORS MANUAL
12	TURN OFF DAMPENER SWITCH	RELEASES UPPER WCL DOOR
13	CLOSE UPPER WCL DOOR	REMOVES SECONDARY SIGNAL FOR: • PARK BRAKE LOCK VALVE. • NEUTRAL TO RANGE INHIBIT.
14	TURN OFF HAND CONTROLLER KEYSWITCH	UPPER DOOR LOCK SOLENOID VALVE DE-ENERGIZED
15	CLOSE LOWER WCL DOOR	REMOVES SECONDARY SIGNAL FOR: • PARK BRAKE LOCK VALVE. • NEUTRAL TO RANGE INHIBIT.
16	TURN OFF FRONT WCL KEYSWITCH	THROTTLE ENABLED. WCL INTERLOCK TELLTALE OFF. ENGINE AT LOW IDLE. FLASHERS OFF. WCL (BACKUP) ALARM OFF. PARK BRAKE LOCK VALVE DE-ENERGIZED. NEUTRAL TO RANGE ENABLED. WCL INTERIOR LIGHT OFF. WCL CONTROLLER DE-ENERGIZED.



OPERATION					
VEHICLE SPEED	MODULE OUTPUT	PRESS SWITCH N.O.	UNLOAD SOL	HOLD SOL	RESULT
<15 MPH	OFF	<85 PSI	OFF	OFF	NORMAL
< 15 MPH	OFF	> 85 PSI	OFF	OFF	NORMAL
<15 MPH	ON	<85 PSI	ON	OFF	DUMP
< 15 MPH	ON	> 85 PSI	ON	ON	HOLD
>15 MPH	OFF	<85 PSI	OFF	OFF	NORMAL
> 15 MPH	OFF	> 85 PSI	OFF	OFF	NORMAL
>15 MPH	OFF	<85 PSI	OFF	OFF	NORMAL
> 15 MPH	OFF	> 85 PSI	OFF	OFF	NORMAL

TAG AXLE UNLOAD
07-14-6319 (REV A)
SHEET 1 OF 1
(EFFECTIVE PRIOR TO #62032)