



CROWN



Parts Manual
Ersatzteilhandbuch
Manual de pièces détachés

SC3000 Series

CROWN

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SAFETY

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Safety Symbols used in the Manual

To help guide you through the manual and to highlight particular danger areas, we have used graphic illustrations:

DANGER



This symbol indicates life-threatening risks

- Failure to comply with this notice may result in severe or fatal injuries to yourself or other people.

WARNING



This symbol indicates the risk of serious injury and/or serious material damage.

- Failure to comply with this notice may result in severe injuries to yourself or other people and/or serious material damage.

CAUTION



This symbol indicates the risk of minor injury and/or minor material damage.

- Failure to comply with this notice may result in minor injuries to yourself or other people and/or minor material damage.

INFORMATION



Contains additional information with supplementary notes and hints.

OPTION

OPTION

These items relate to optional features not supplied with the standard version.

General Maintenance and Repair Safety Notes

DANGER



Read the safety notices in the truck Maintenance and Operator's Manuals.

- Failure to do so could result in severe or fatal injuries to maintenance personnel and/or other persons.

Motorised vehicles can be dangerous if maintenance and service are neglected. For this reason maintenance and inspections must be carried out at regular short intervals by trained personnel working to approved company guidelines.

Maintenance and Repair

1. Maintenance work must only be carried out in accordance with the test and maintenance program contained in the present Maintenance Manual and any applicable service notices.
2. Only qualified and authorised personnel may carry out work on the truck.
3. Always keep fire extinguishers in good working condition. Do not approach fluid levels or leaks with a naked flame.
4. To clean, use a non flammable, non combustible cleaning solution which is groundwater-neutral. Only carry out cleaning with an oil separator. Protect the electrical system from dampness.
5. Keep the service area clean, dry and well-ventilated.
6. Do not allow oil to penetrate the ground or enter the draining system. Used oil must be recycled. Oil filters and desiccants must be treated as special waste products. Relevant applicable regulations must be followed.
7. Neutralise and thoroughly rinse any spilled battery fluid immediately.
8. Keep the truck clean. This will facilitate the location of loose or faulty components.
9. Make sure that capacity and data plates, warnings and labels are legible at all times.

10. Alterations or modifications by the owner or operator are not permitted without the express written authorisation from Crown.

11. Only use original Crown spare parts to ensure the reliability, safety and suitability of the Crown truck.

Before Leaving the Truck

- Stop the truck.
- Lower the fork carriage fully.
- Apply the parking brake.
- Turn off the travel switch and remove the key.
- Block all wheels when parking on an uneven surface.

Before Carrying out Work on the Truck

- Raise the truck to free the drive wheel. Press the Emergency Stop button and disconnect the battery.
- Prevent the truck from rolling away.
- Before carrying out work on the hoist frame, the lift mast or on the fork carriage: Block these parts according to maintenance instructions in order to prevent them from dropping.
- Only carry out operational testing when there is sufficient room to manoeuvre, to avoid the risk of injury to yourself and others.

Before Operating the Truck

- Check the safety devices.
- Get into the driver's seat.
- Check the operation of the lifting device, travel direction switch, speed control, steering, warning devices and brakes.

Warnings and Labels on the Truck

- During regular maintenance check that the warnings and labels on the truck are complete and legible.
- Clean any illegible labels.
- Replace any faulty or missing labels.

The order and meaning of the warnings and labels on the truck are described on pages 10.9-2230-001, -002, -025 and -026 in the present manual.

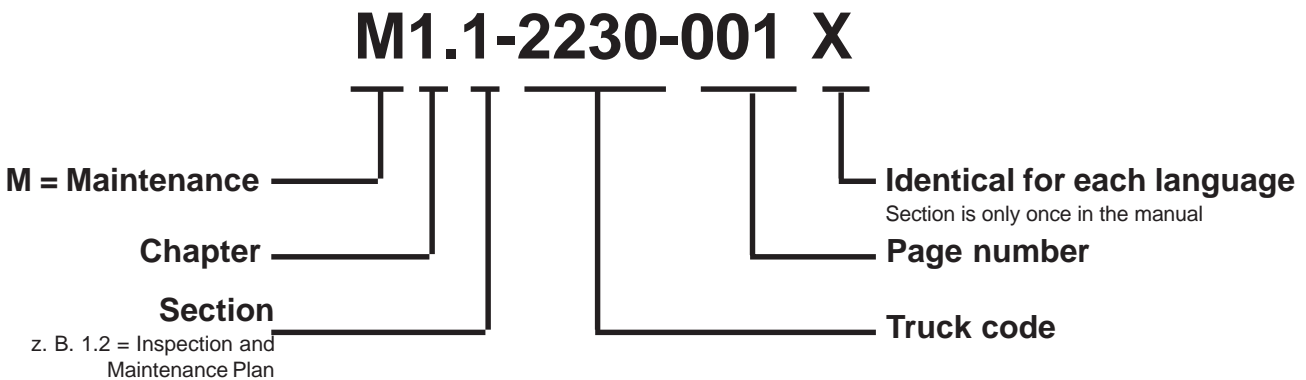
CROWN

INTRODUCTION

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Page Numbers

The page numbers are located on the lower left and right hand margins of each page and have the following form:



Operating instruction

This manual contains no operating instructions. An operating instructions manual is supplied with the vehicle. Additional copies can be ordered as required.

With the help of this manual you and your personnel will be able to ensure the long service life, operational safety and error free functioning of your CROWN vehicle.

Service training

CROWN offers the appropriate vehicle related training for service personnel. Details on this training can be obtained from CROWN on request.

Replacement parts orders

When ordering spare parts from this manual please always give the full description of the vehicle model as well as the order number. These details enable us to process your orders in an accurate, quick and reliable way.

Please refer to the Technical Specifications Sheet for the utilisable loads, technical data and dimensions for this series.

Brochures can be obtained from your CROWN dealer or from the following address:

CROWN Gabelstapler GmbH
Moosacher Str. 52
D-80809 München
Tel.: 089/93 00 20
Fax: 089/93 00 2-175

Truck Data Numbering Sheet

1.3 SC T L - 2 - 2

Capacity

1.3 = 1250 kg
 1.6 = 1600 kg
 1.8 = 1800 kg

Model designation

SC = Sitdown Rider
 Counterbalance

T = Telescopic

L = Double, part free lift
 F = Double, full free lift
 T = Triple, full free lift

Fork Length	
Dash	mm
1	900
2	1000
3	1150
4	1200
5	1220
6	600
7	800
8	1370
9	1067

ITD002-gb

Collapsed Height (mm) / Lifting Height (mm)	
Dash	SC TL / SC TF
1	1750 / 2460
2	1970 / 2880
3	2165 / 3270
4	2315 / 3570
5	2465 / 3870
6	2665 / 4270
7	2840 / 4620
8	3035 / 5010
9	3340 / 5620
10	3485 / 5910

NOTE



FOR SPECIALS USE THE ACTUAL FIGURES FOR COLLAPSED / LIFT HEIGHT AND FORK LENGTH (SEE TABLES ITD002-GB AND ITD.003-GB).

Example:

Truck with data 1.3SCTL-2-2 designates

- Capacity 1250 kg
- Sitdown Rider Counterbalance
- Telescopic double part free lift mast
- Collapsed height 1970 mm
- Lift height 2880 mm
- Fork length 1000 mm

Dash	SC TT
1	1760 / 3670
2	1970 / 4300
3	2165 / 4885
4	2315 / 5335
5	2465 / 5785
6	2665 / 6385
7	2840 / 6910
8	3035 / 7495
9	1993 / 4368
10	2044 / 4521
11	2145 / 4826
12	2569 / 60913

ITD003-gb

Battery Options					
Model	Option	Ah	(mm)	DIN 43531 A (mm)	Type
SC3013	Option 1	300 360	1187	418 x 835 x 627 418 x 835 x 627	SD SHD
	Option 1h	360 465		418 x 835 x 784 418 x 835 x 784	SD SHD
	Option 2	400 480	1295	526 x 835 x 627 526 x 835 x 627	SD SHD
	Option 2h	480 620		526 x 835 x 784 526 x 835 x 784	SD SHD
SC3016	Option 2	400 480	1295	526 x 835 x 627 526 x 835 x 627	SD SHD
	Option 2h	480 620		526 x 835 x 784 526 x 835 x 784	SD SHD
	Option 3	500 600	1403	634 x 835 x 627 634 x 835 x 627	SD SHD
	Option 3h	600 775		634 x 835 x 784 634 x 835 x 784	SD SHD
SC3018	Option 3	500 600	1403	634 x 835 x 627 634 x 835 x 627	SD SHD
	Option 3h	600 775		634 x 835 x 784 634 x 835 x 784	SD SHD

ITD004-gb

NOTE

 ALWAYS SPECIFY MODEL NO. WHEN ORDERING SPARE PARTS.

Spare parts for model SC3013 option 2/2h correspond to model SC3016 option 2/2h.

Spare parts for model SC3016 option 3/3h correspond to model SC3018 option 3/3h.

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LUBRICATION

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Lubricants and Oil Recommendations

Lubricant Type	Product Description	Manufacturer	CROWN-Part-No.	Type
Grease (multi purpose)	Aralube HLP-2 LM-Grease Regulus A2 Beacon EP2 EP2 Mobiluxe E2 Rentinax LX	Aral Castrol Century Esso Maxol Mobil Shell	053002-001	B
Low temperature grease	Aralube SKL2 Unirex Lotemp EP	Aral Mobil	053002-005	BB
Lubrication oil (chain)	Kowal 40 Essolube HDX Plus + 40 Delvac 1240	Aral Esso Mobil	053002-007	G
Low temperature lubrication oil	SHC 626	Mobil	053002-008	GG
Hydraulic oil	Vitam GF 32 Hyspin AWS-32 Nuto H32 DTE 24 Tellus 32	Aral Castrol Esso Mobil Shell	053001-003	D
Low temperature hydraulic oil	Univis J 13 Aero HFA	Aral Mobil	053001-008	DD
Transmission oil	Hyp 85W90 GX - D 85W90 Mobilube HD85/90 Spirax MB 90	Aral Esso Mobil Shell	053002-004	A
Low temperature transmission oil	Mobilube SHC	Mobil	053002-006	AA
Rubber and vinyl dressing				H
Special grease	MOS ₂ Lithium	Dow Corning	063002-022	M
Universal lubrication oil	SEA40			C

W01-gb

Lubrication Points / Intervals

Pos.	Component	Type	QTY	100 Hours	250 Hours	500 Hours	1000 Hours	2000 Hours
1	Fork locking pin	B	A/R	X				
2	Hydraulic reservoir check	D	A/R	X				
3	Hydraulic oil change	D	A/R					X
4	Accelerator pedal pivot	B	A/R		X			
5	Accelerator linkage	B	A/R		X			
6	Potentiometer pivot	B	A/R		X			
7	Handbrake cable	C	A/R		X			
8	Handbrake pivot	B	A/R		X			
9	Handbrake ratchet	B	A/R		X			
10	Battery comp. lid hinge	C	A/R		X			
11	Battery latch	C	A/R		X			
12	Locking ramp pivot point	C	A/R		X			
13	Steer column adjustment	C	A/R		X			
14	Tilt pivots	B	A/R		X			
15	Mast pivot	B	A/R		X			
16	Mast channels	B	A/R		X			
17	Mast column and fork carriage rollers	B	A/R		X			
18	Chain main lift, Chain freelif cylinder	G	A/R		X			
19	Column pulleys (Nylon)	H	A/R		X			
20	Fork slide	B	A/R		X			
21	Brake main pivot	B	A/R		X			
22	Brake pedal pivot	B	A/R		X			
23	Motor to gearbox spline	M	A/R			X		
24	Pump motor to pump spline	M	A/R			X		
25	Orbital steer unit spline	B	A/R					X
26	Seat runners	B	A/R					X
27	Gearbox oil change	A	A/R	first change after 250 hours of operation				X

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ELECTRICAL DIAGRAMS

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Key

Connectors

Traction Controller Connectors

CA 201	E
CA 202	D
CA 203	C
CA 204	B
CA 205	A
CA 206	F
CA 207	G
CA 208	H
CA 209	J

Pump Controller Connectors

CA 210	L
CA 211	E
CA 212	D
CA 213	C
CA 214	B
CA 215	A
CA 216	Panel
CA 217	Seat Switch
CA 218	Steering Feedback Potentiometer
CA 401	Accelerator Potentiometer
CA 402	Accelerator Switch
CA 403	Lift Potentiometer
CA 404	Tilt Switch
CA 405	Side Shift Switch
CA 406	Auxiliary Switch
CA 407	Pedal Brake Switch
CA 408	Handbrake Switch
CA 409	Horn
CA 410	BDI Supply
CA 411	BDI
CA 412	Steering Column
CA 601	Horn Switch
CA 602	Steering Encoder Module

NOTE: CA Connectors are a combination of the JC -XXX jack and the PC -XXX plug components (example CA 601 is a combination of PC 601 and JC 601).

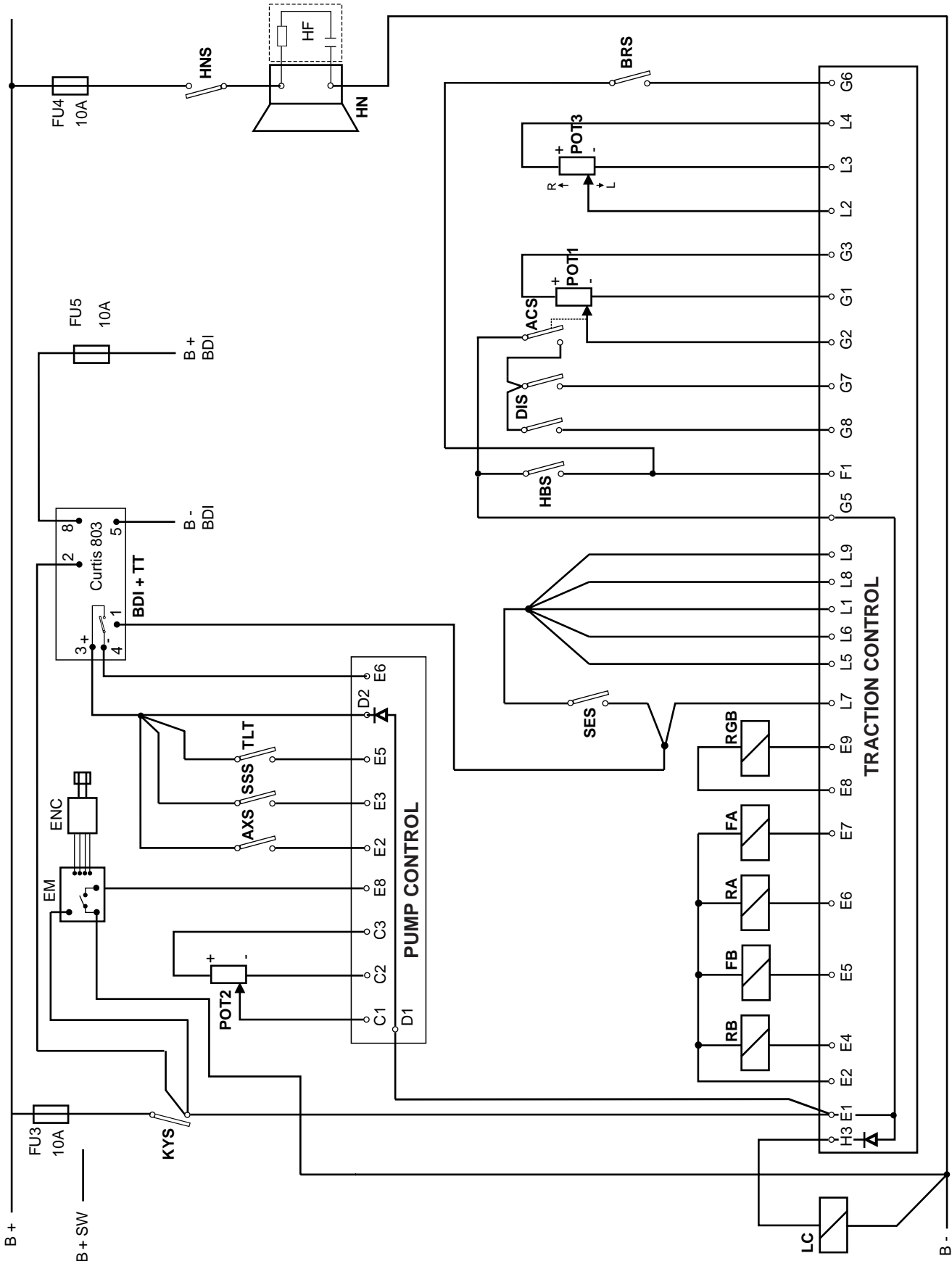
Contactors

FA	Left Motor Forward Contactor
RA	Left Motor Reverse Contactor
FB	Right Motor Forward Contactor
RB	Right Motor Reverse Contactor
LC	Line Contactor
RGB	Regenerative Braking Contactor

Abbreviations

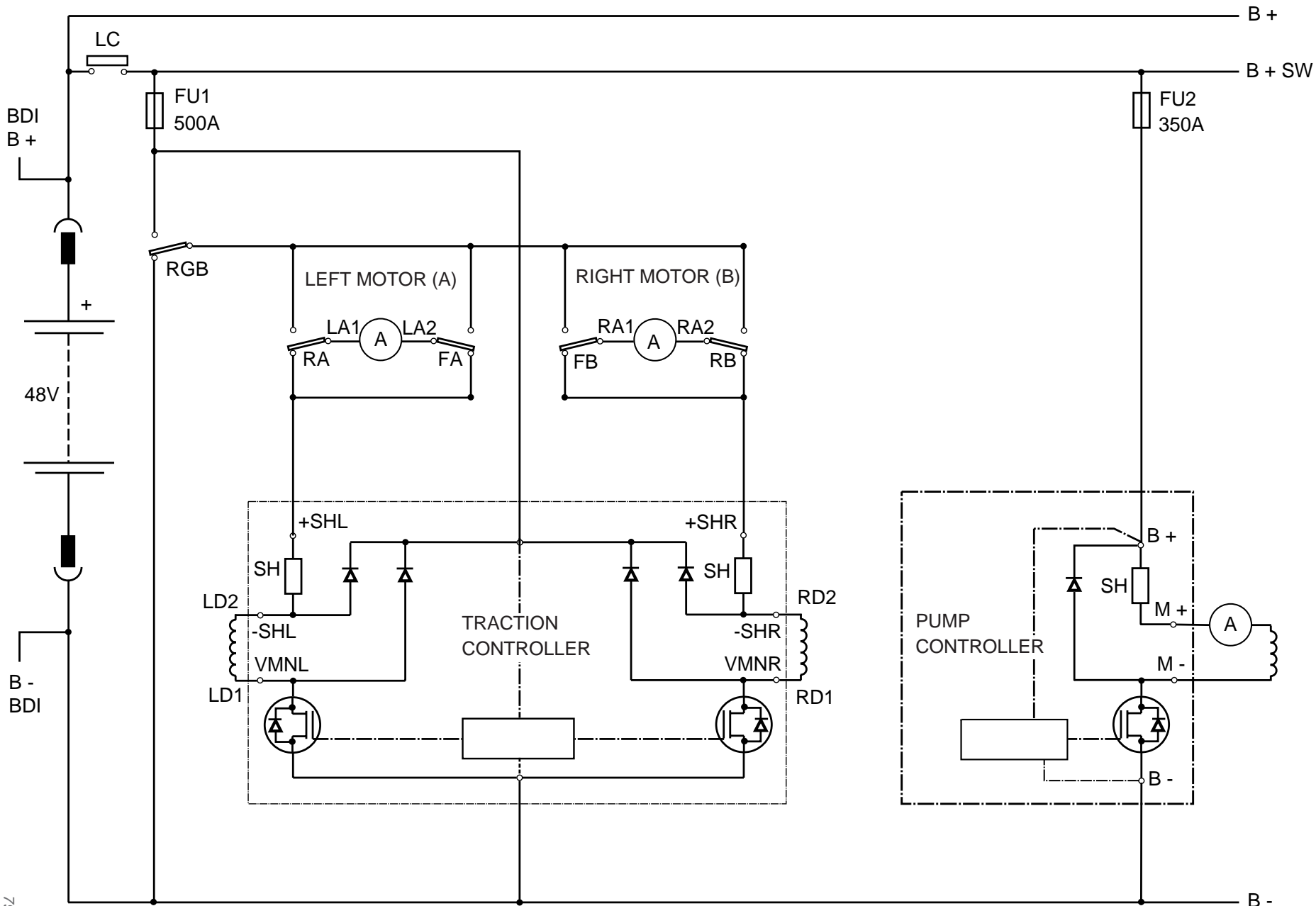
ACS	Accelerator Switch
AXS	Auxiliary Function Switch
BDI	Battery Discharge Interrupt
BRS	Brake Switch
DIS	Direction Switch
EM	Encoder Module
ENC	Encoder
HBS	Handbrake Switch
HF	Hash Filter
HN	Horn
HNS	Horn Switch
KYS	Key Switch
POT 1	Accelerator Potentiometer
POT 2	Lift Potentiometer
POT 3	Steer Potentiometer
SES	Seat Switch
SH	Shunt
SSS	Side Shift Switch
TLT	Tilt Switch
TT	Hour Meter

Control Circuit

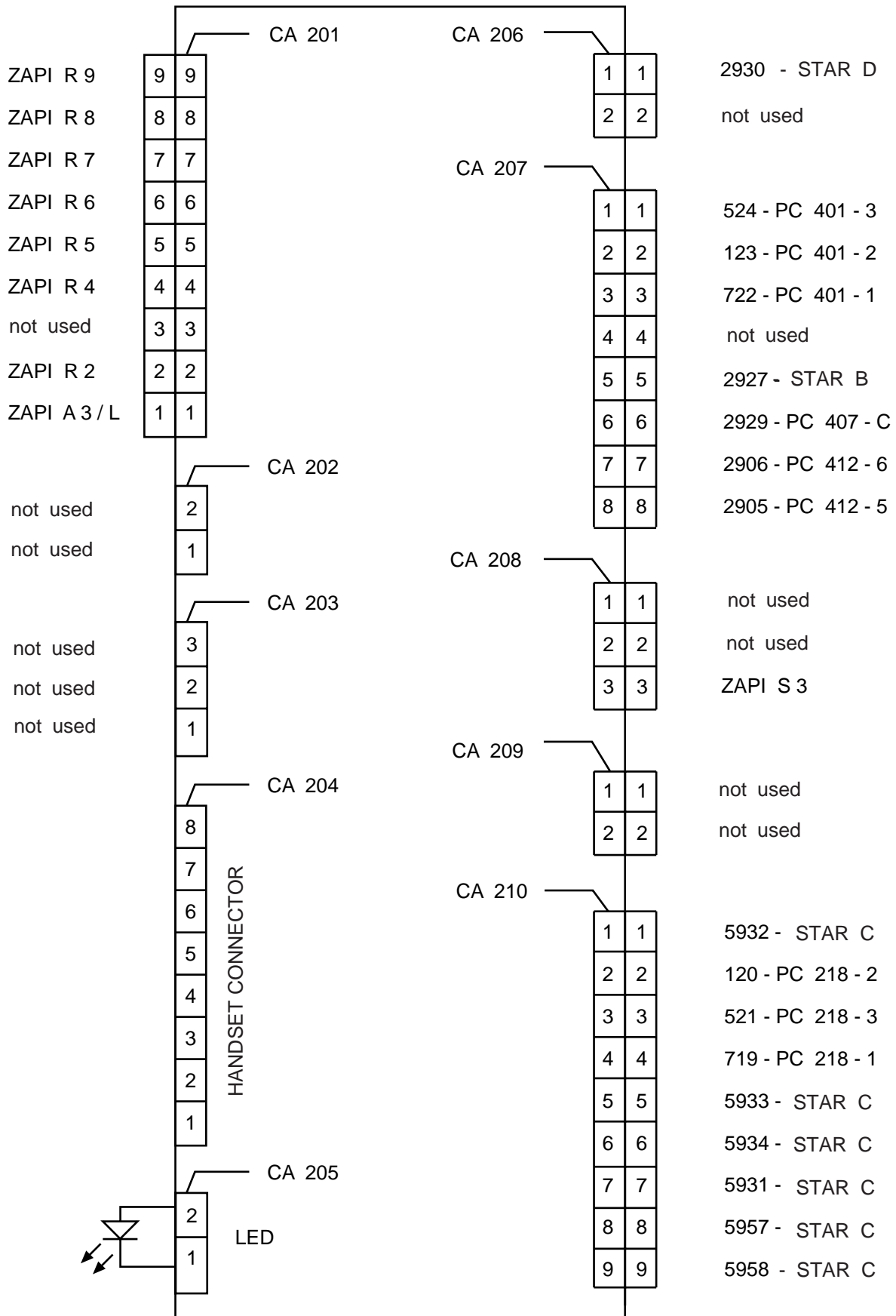


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Power Circuit

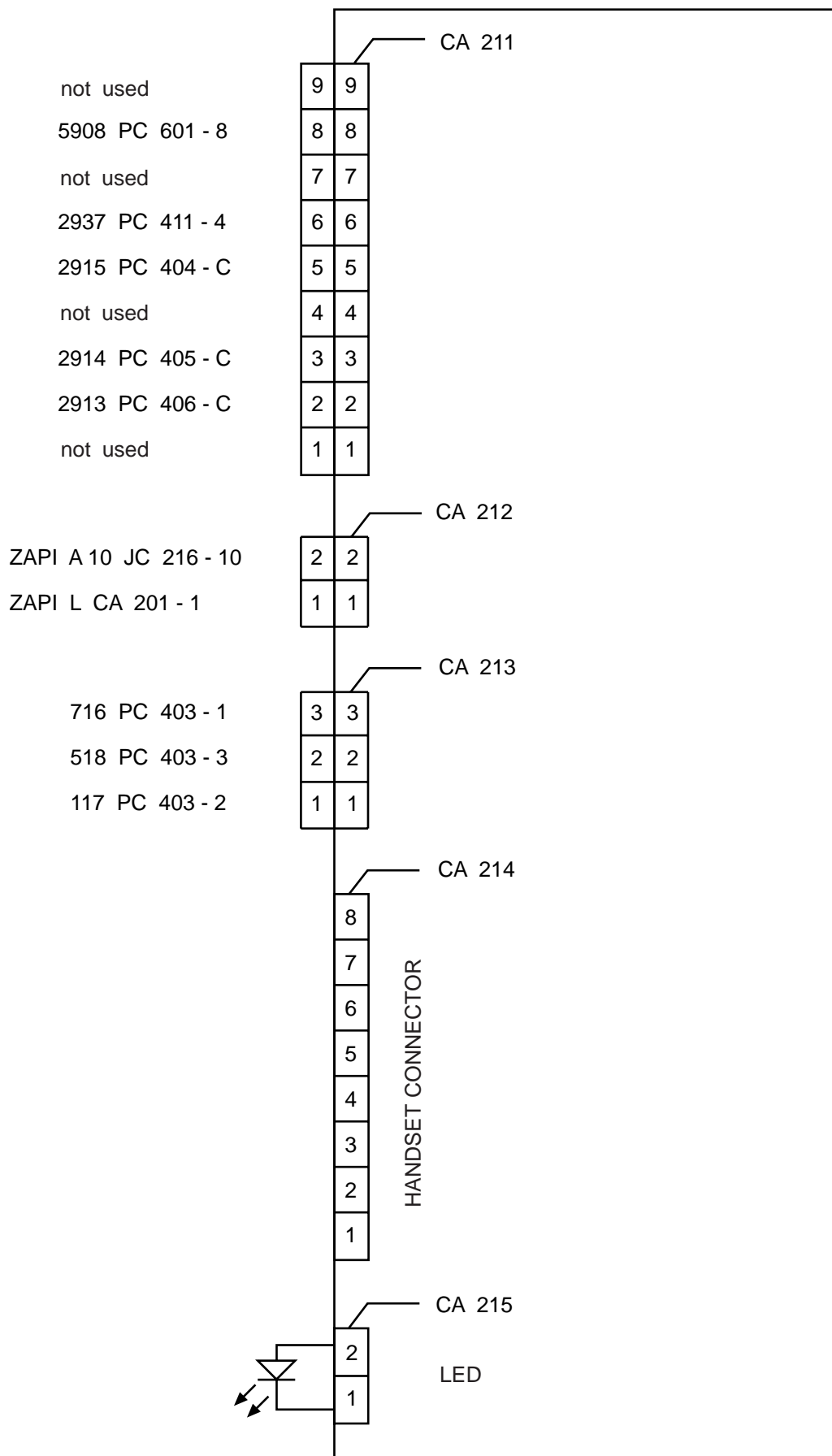


Traction Controller



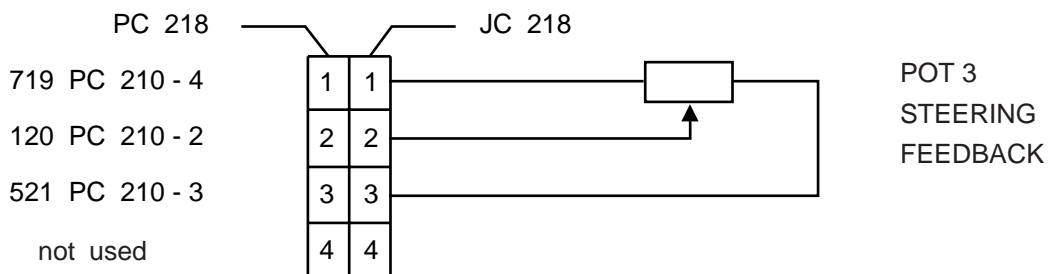
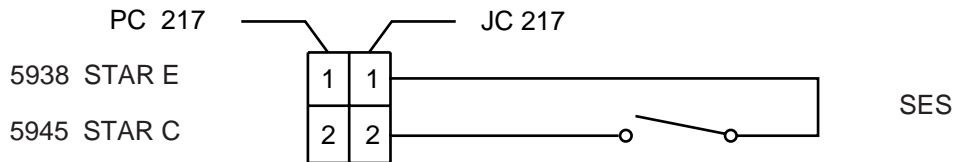
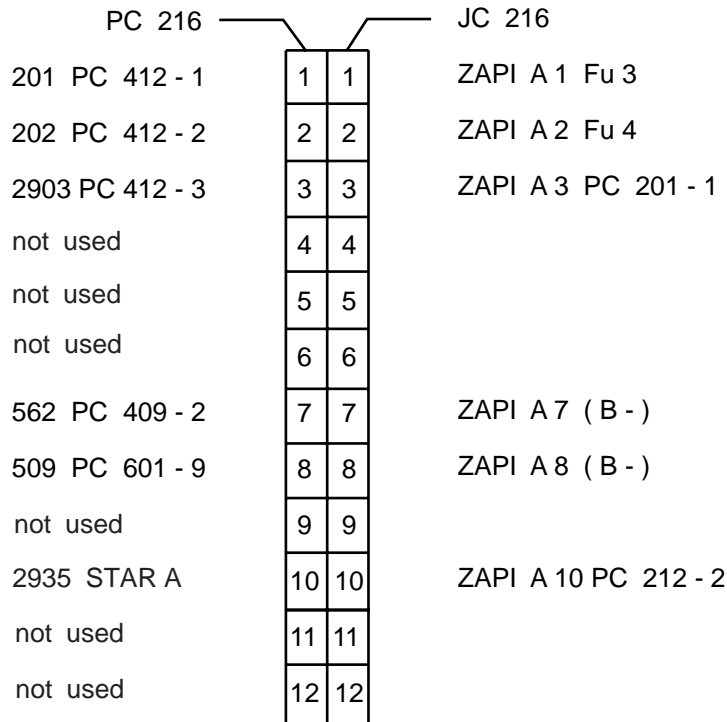
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Pump Controller

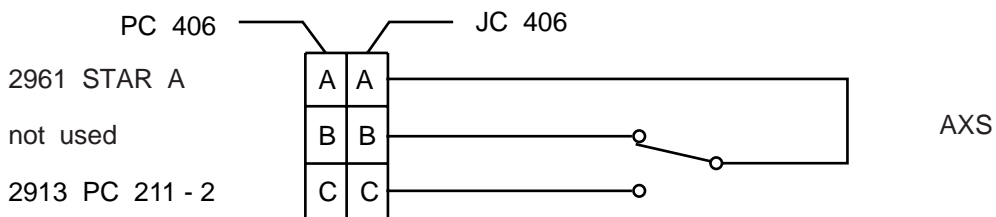
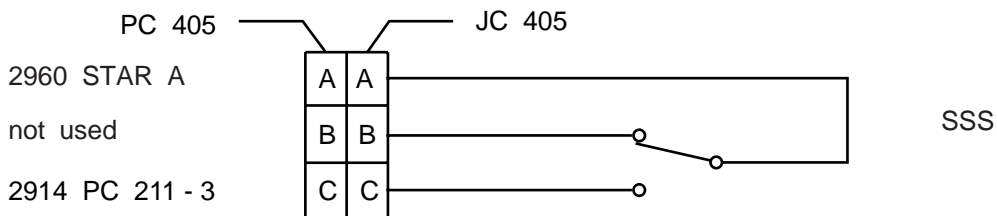
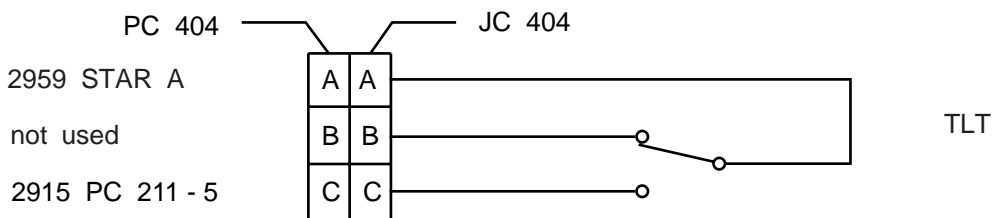
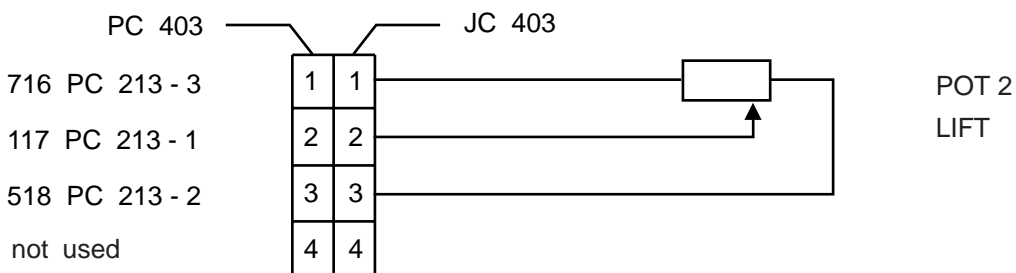
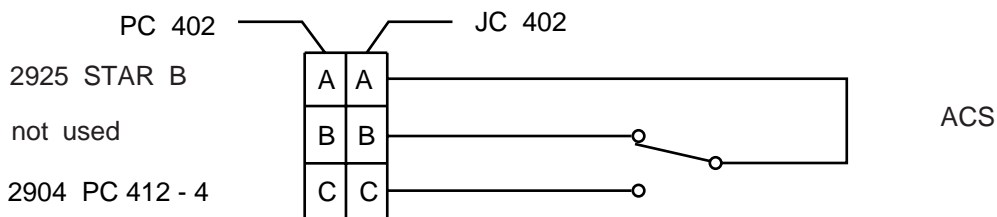
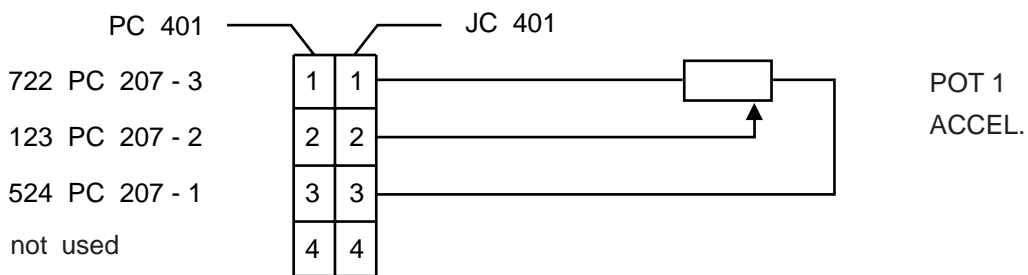


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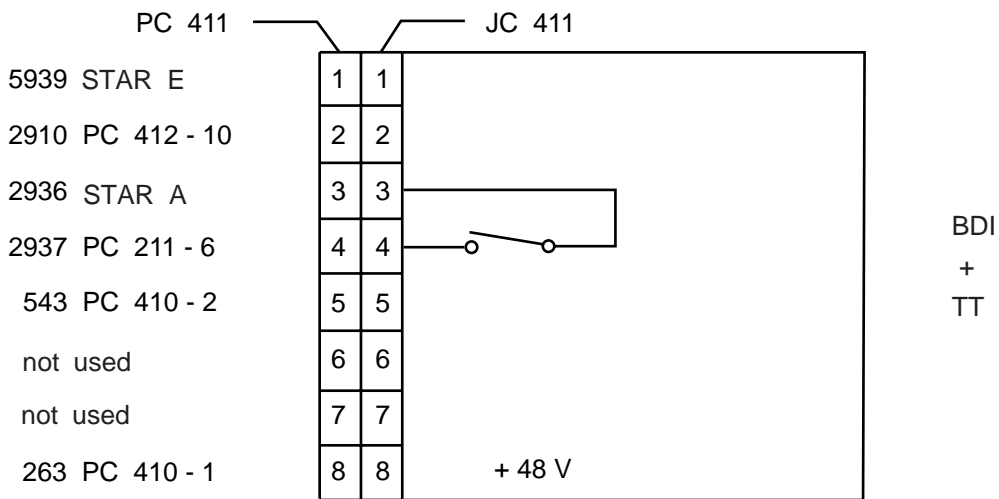
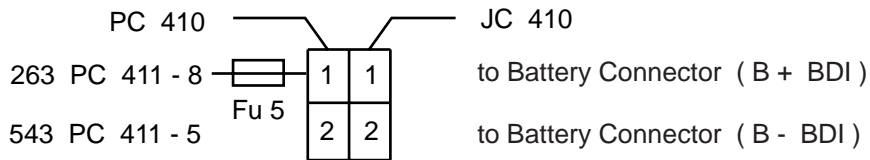
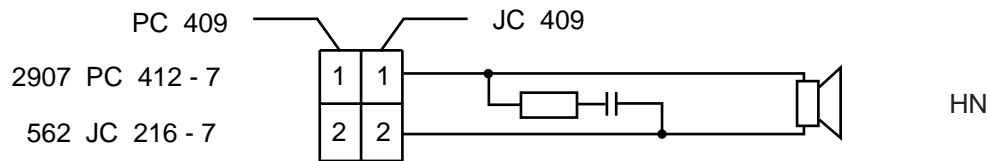
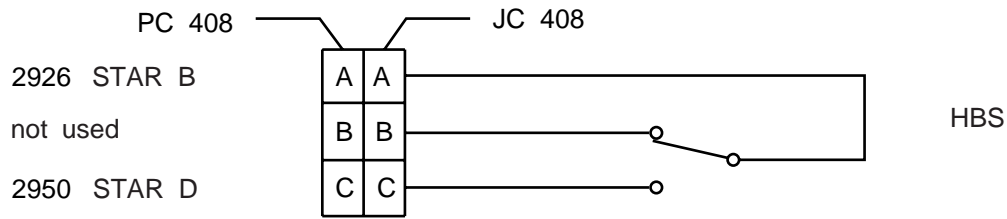
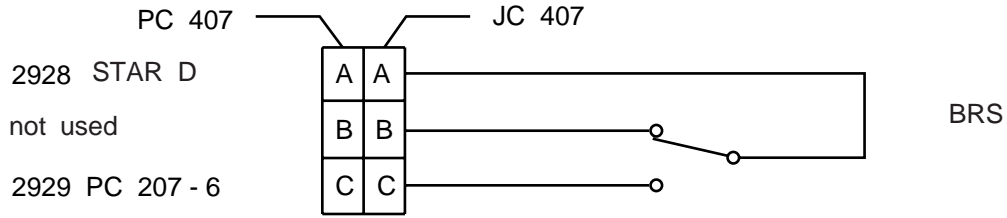
Seat Switch and Steer Pot



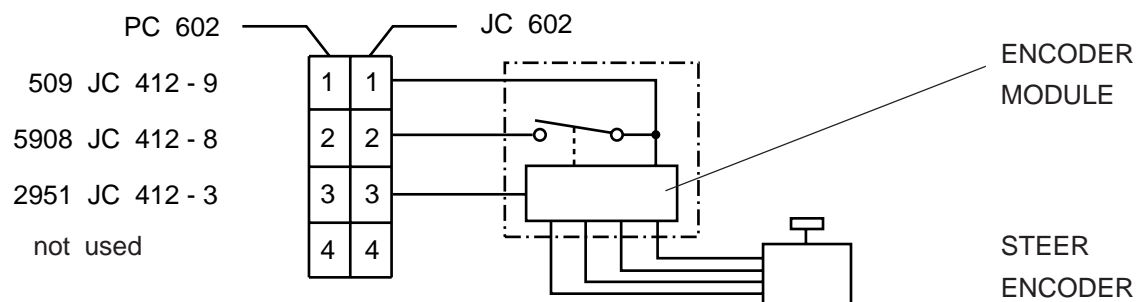
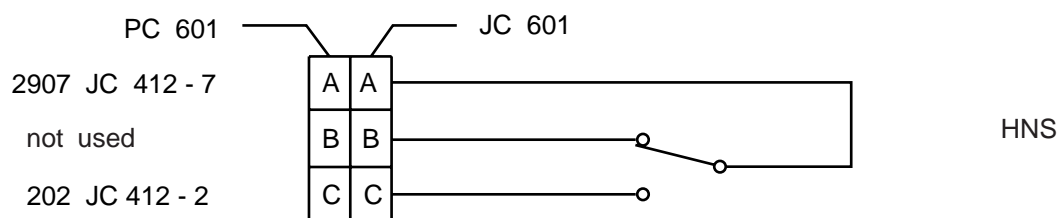
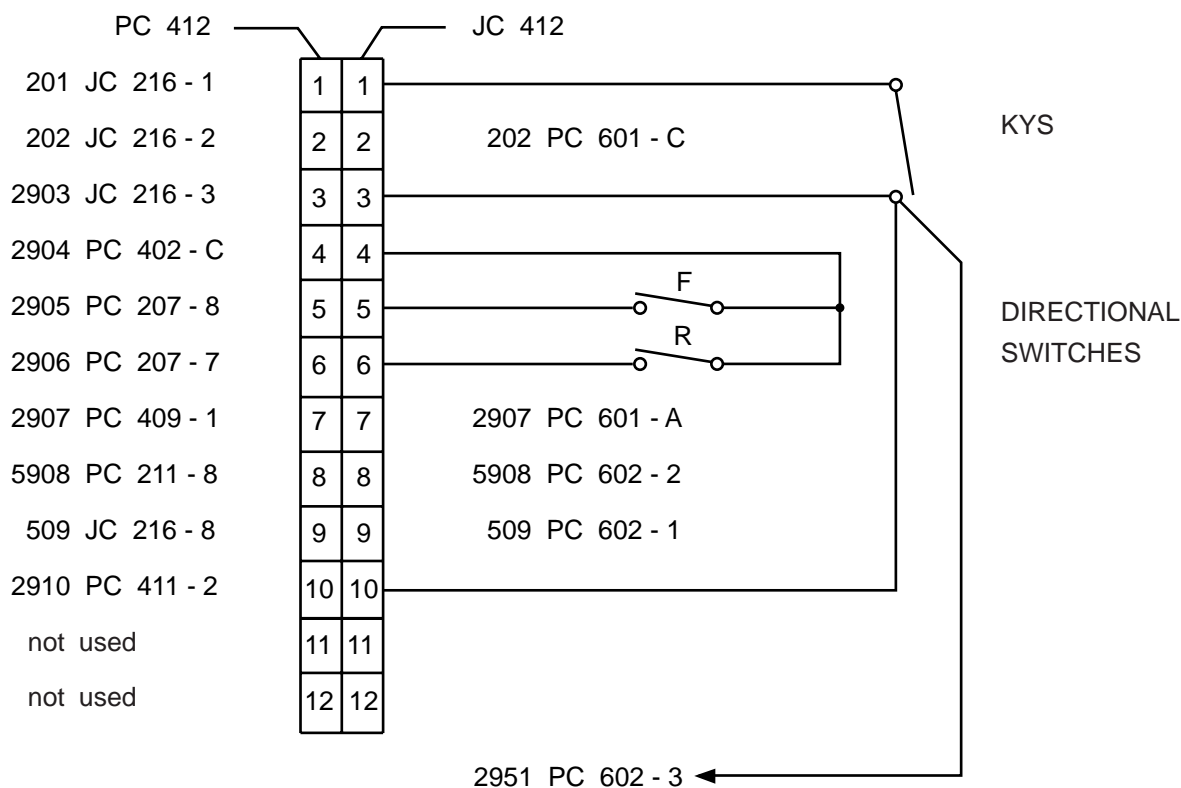
Control Levers



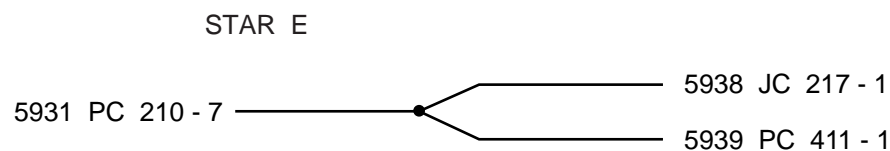
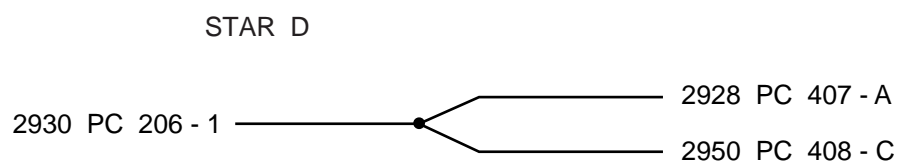
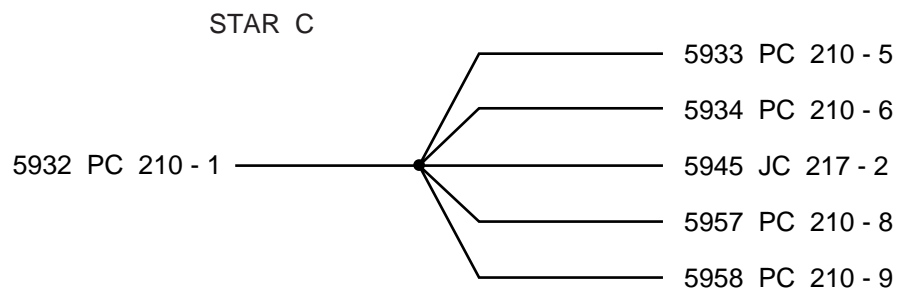
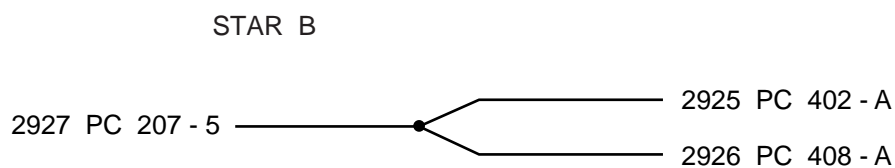
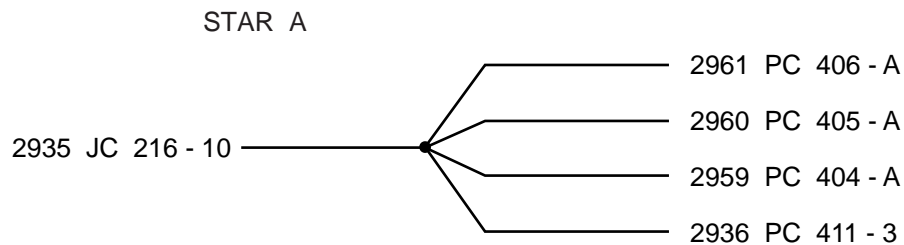
B.D.I., Horn and Brake Switches



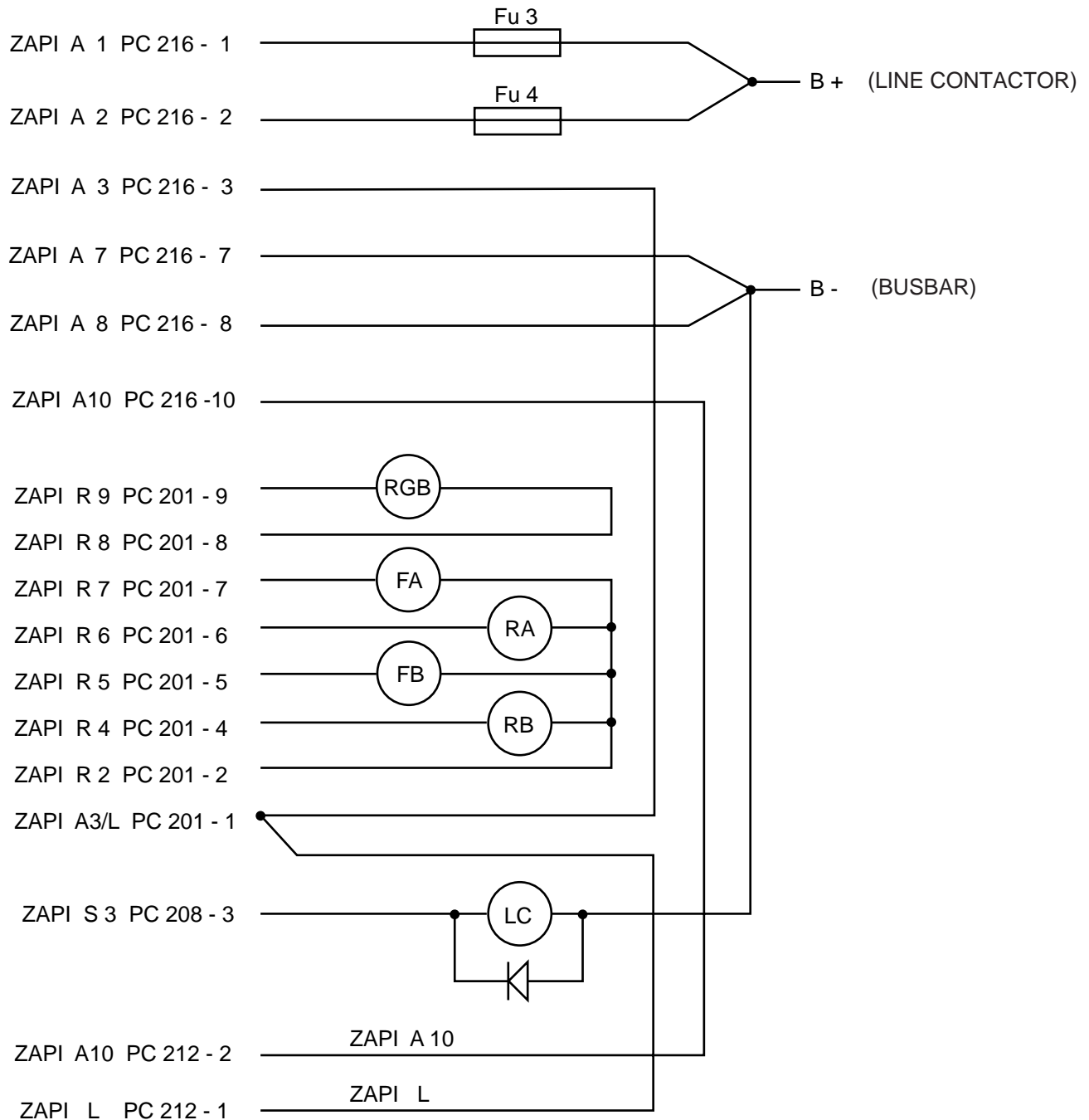
Steer Column



Star Points



Panel Wiring



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