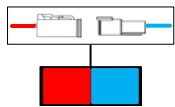
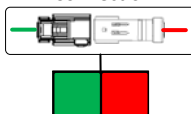


Detail: Harness Connections

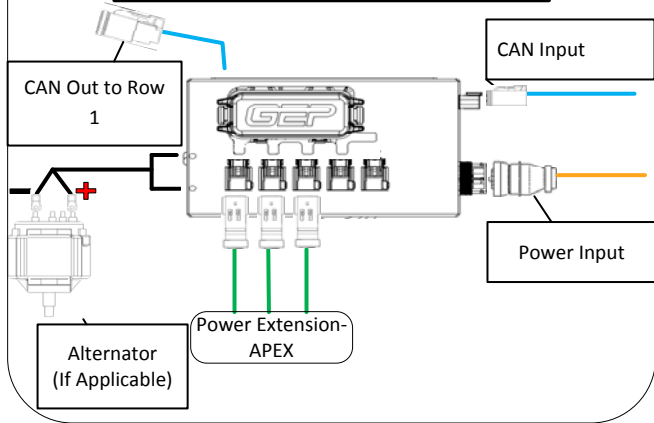
CAN to Backbone Harness



APEX Connection



Detail A: PDM Connections



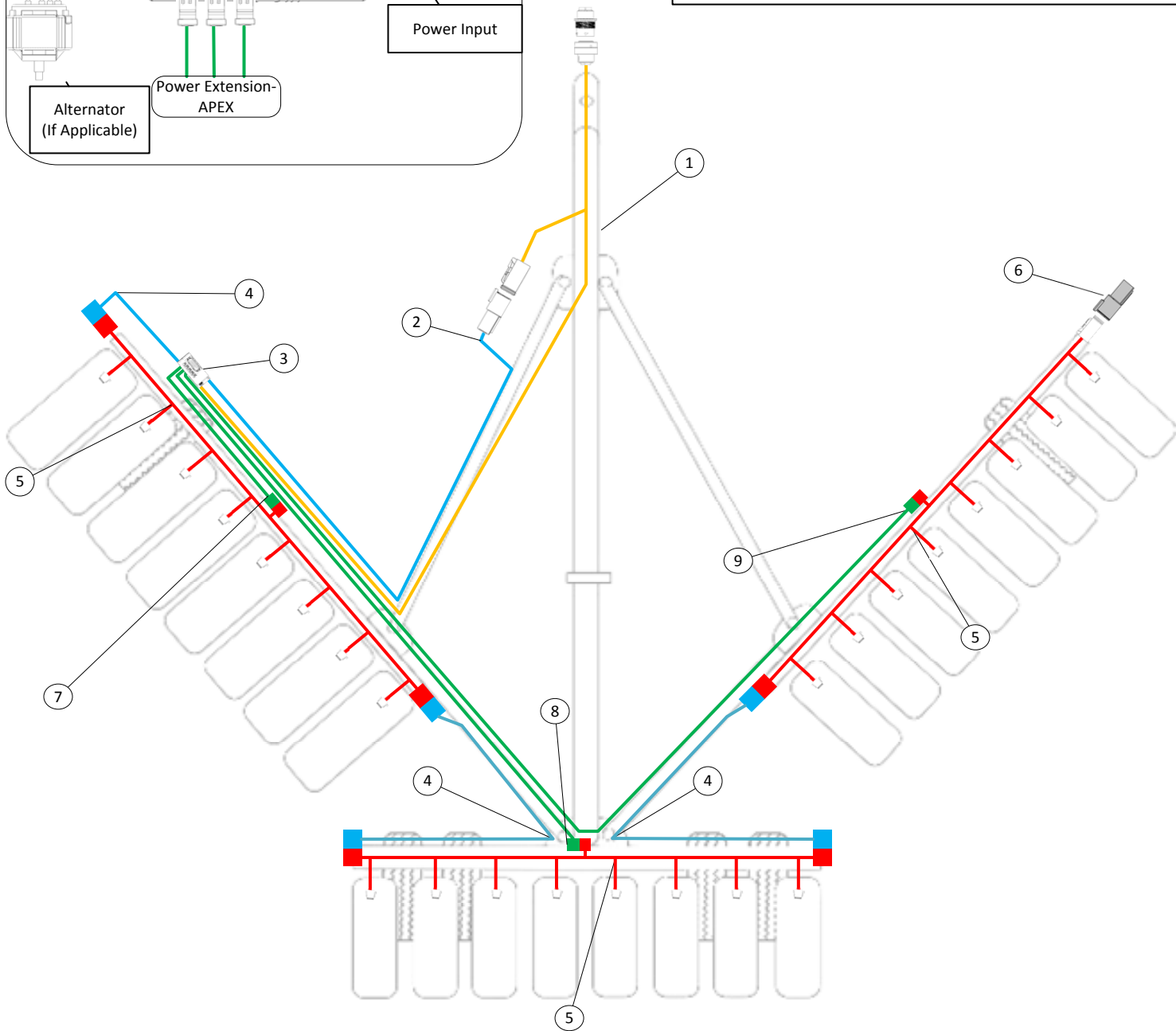
Electrical Systems Overview

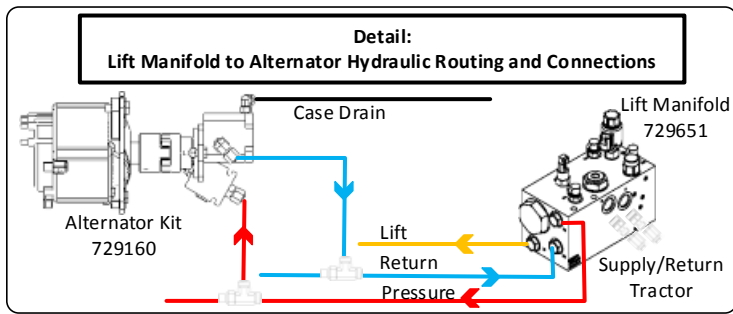
John Deere DB44-24R22

Item	Part NO	Description	QTY
1	729403	35' Tractor Power Ext	1
2	729144	30' CAN Ext	1
3	729180	Power Distribution Module (PDM)	1
4	729141	10' CAN Ext	3
5	729468	8 Row SRM Harness 20-22"	3
6	729147	CAN Terminator	1
7	729150	5' Backbone Power Ext- APEX	1
8	729152	25' Backbone Power Ext- APEX	1
9	729153	35' Backbone Power Ext- APEX	1

Note: Item 1&2 are part of a kit when ordered

The PDM mounting location may vary slightly from planter to planter





Hydraulic Systems Overview

John DeereDB 44 24 Row 22"

Item	Part NO	Description	QTY
1	729651	Lift Manifold Kit	1
2	729600	Hydraulic Cylinders	24
3	729611	20/22" Row Spacing Inter-Row Kit	21
4	729614	End Row Plug Kit	3
5	729617	3 Frame Hydraulic Fitting Kit	1
6	729160	Alternator Kit (If Applicable)	1

Note: Many of the hoses will vary from planter to planter. We supply hoses for Inter-Rows and from Lift Manifold to first planter section. Custom hose length is up to installation discretion

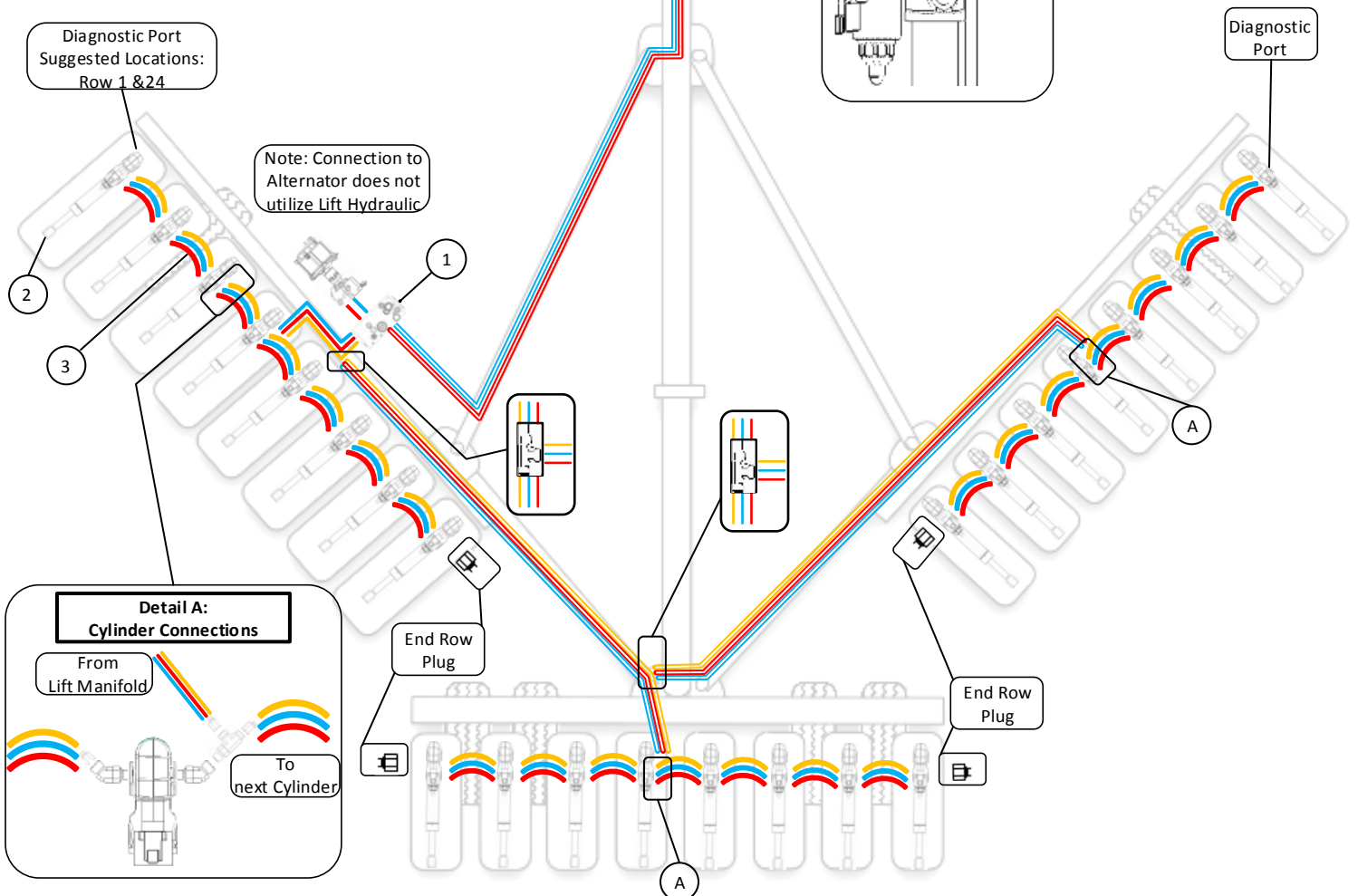
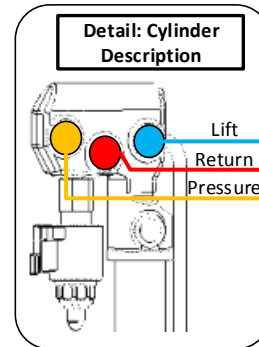
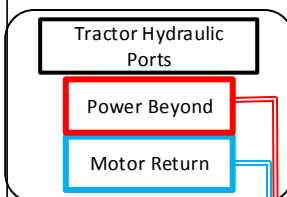
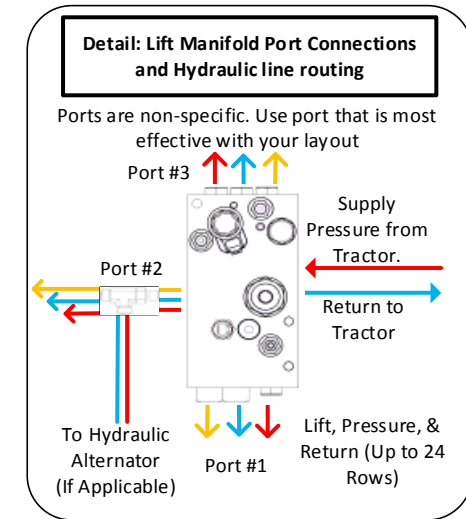
Supplied Hoses:



Custom Hoses:

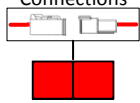


The Lift Manifold mounting location may vary slightly from planter to planter

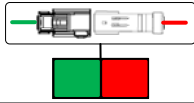


Detail: Harness Connections

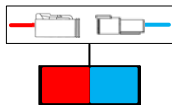
CAN Out to CAN In Backbone Connections



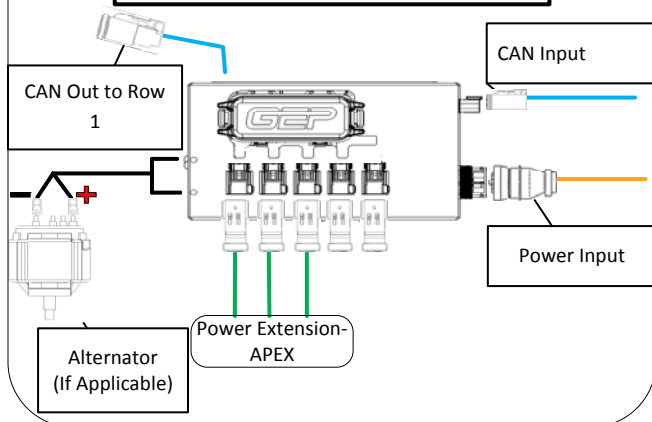
APEX Connection



CAN to Backbone Harness



Detail A: PDM Connections



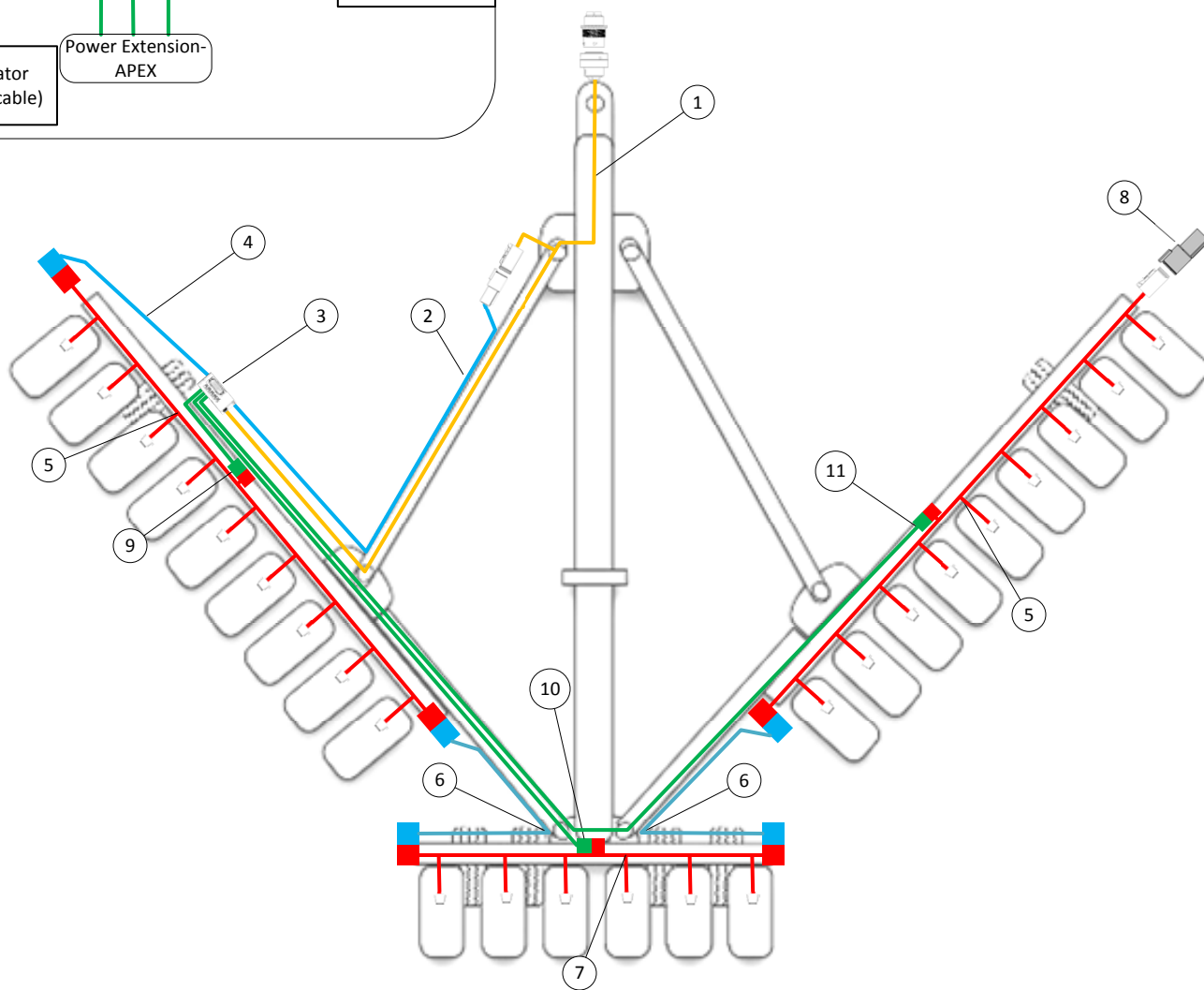
Electrical Systems Overview

John Deere DB60 - 24R30

Item	Part NO	Description	QTY
1	729404	45' Tractor Power Ext	1
2	729138	40' CAN Ext	1
3	729180	Power Distribution Module (PDM)	1
4	729142	15' CAN Ext	1
5	729429	9 Row SRM Harness	2
6	729141	10' CAN Ext	2
7	729426	6 Row SRM Harness	1
8	729147	CAN Terminator	1
9	729150	5' Backbone Power Ext- APEX	1
10	729152	25' Backbone Power Ext- APEX	1
11	729153	35' Backbone Power Ext- APEX	1

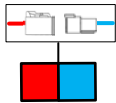
Note: Item 1&2 are part of a kit when ordered

The PDM mounting location may vary slightly from planter to planter

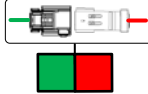


Detail: Harness Connections

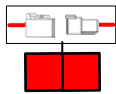
CAN to Backbone Harness



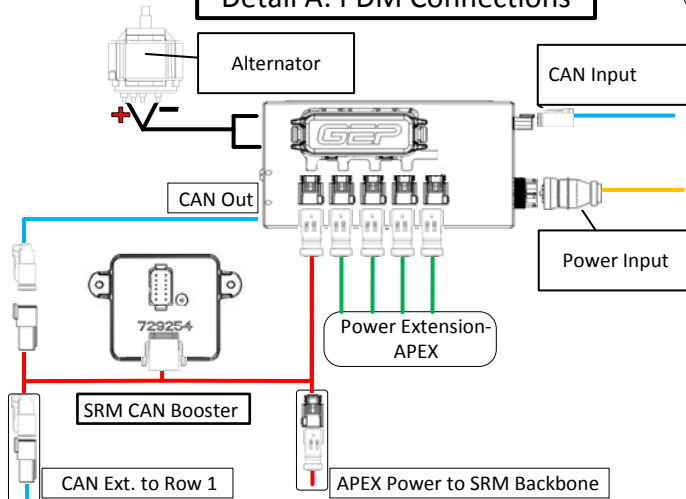
APEX Connection



Backbone to Backbone



Detail A: PDM Connections



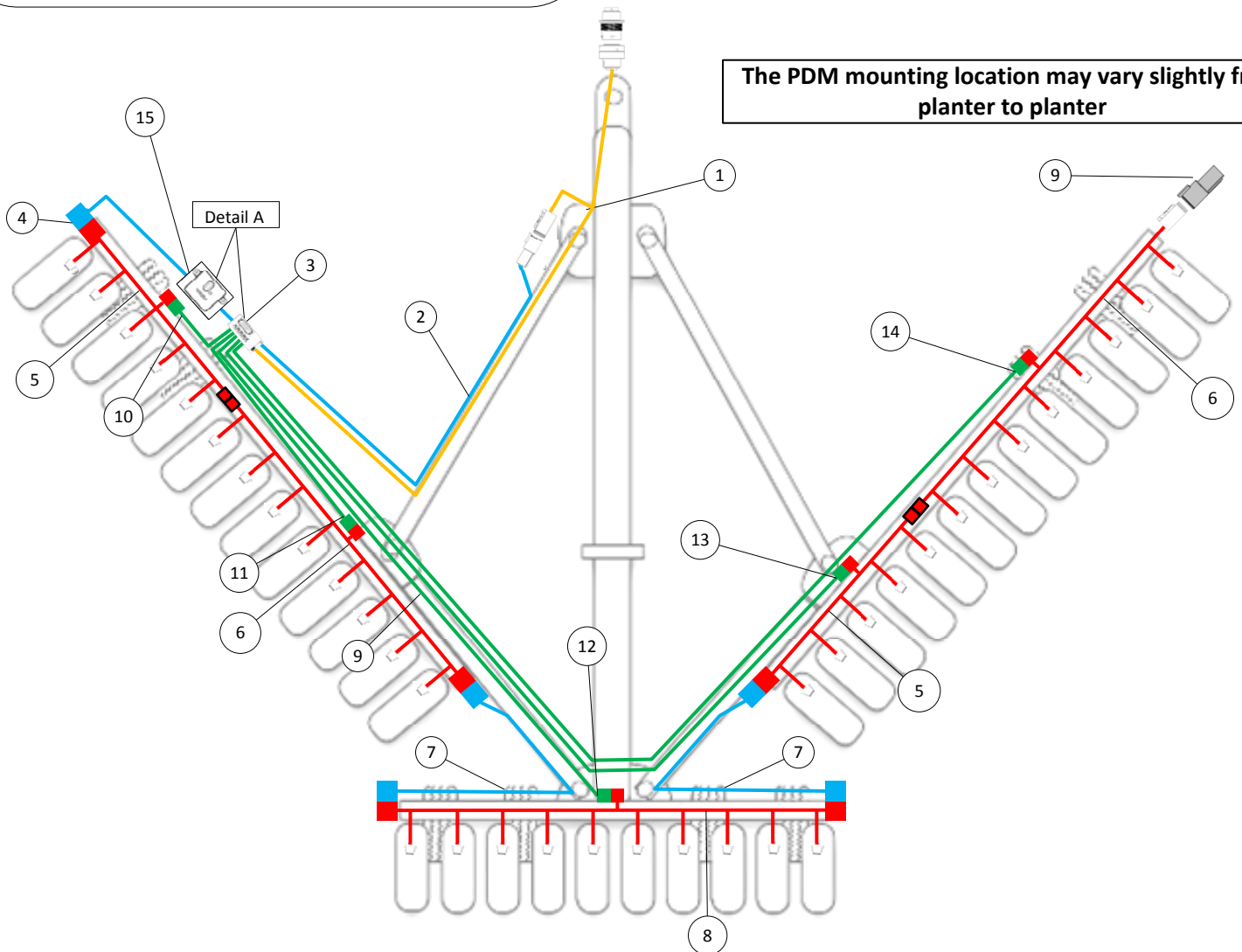
Electrical Systems Overview

John Deere DB60 - 36R20

Item	Part NO	Description	QTY
1	729404	45' Tractor Power Ext	1
2	729138	40' CAN Ext	1
3	729180	Power Distribution Module (PDM)	1
4	729142	15' CAN Ext	1
5	729465	5 Row SRM Harness 20-22"	2
6	729468	8 Row SRM Harness 20-22"	2
7	729141	10' CAN Ext	2
8	729470	10 Row SRM Harness 20-22"	1
9	729147	CAN Terminator	1
10	729150	5' Backbone Power Ext- APEX	1
11	729151	15' Backbone Power Ext- APEX	1
12	729152	25' Backbone Power Ext- APEX	1
13	729153	35' Backbone Power Ext- APEX	1
14	729154	50' Backbone Power Ext- APEX	1
15	729250	SRM CAN Booster Kit	1

Note: Item 1&2 are part of a kit when ordered

The PDM mounting location may vary slightly from planter to planter



Hydraulic Systems Overview

John DeereDB 60 36 Row 20"

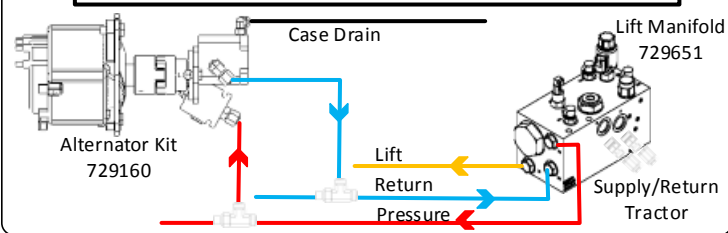
Item	Part NO	Description	QTY
1	729651	Lift Manifold Kit	1
2	729600	Hydraulic Cylinders	36
3	729611	20/22" Row Spacing Inter-Row Kit	33
4	729614	End Row Plug Kit	3
5	729617	3 Frame Hydraulic Fitting Kit	1
6	729160	Alternator Kit	1

Note: Many of the hoses will vary from planter to planter. We supply hoses for Inter-Rows and from Lift Manifold to first planter section. Custom hose length is up to installation discretion

Supplied Hoses:	
Custom Hoses:	

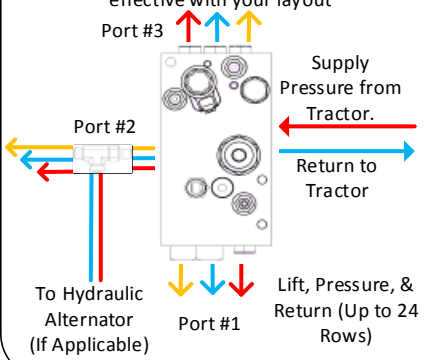
The Lift Manifold mounting location may vary slightly from planter to planter

Detail: Lift Manifold to Alternator Hydraulic Routing and Connections

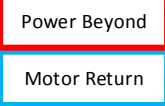


Detail: Lift Manifold Port Connections and Hydraulic line routing

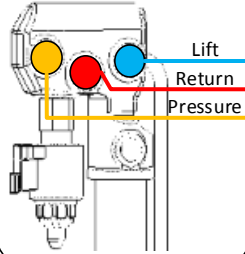
Ports are non-specific. Use port that is most effective with your layout



Tractor Hydraulic Ports



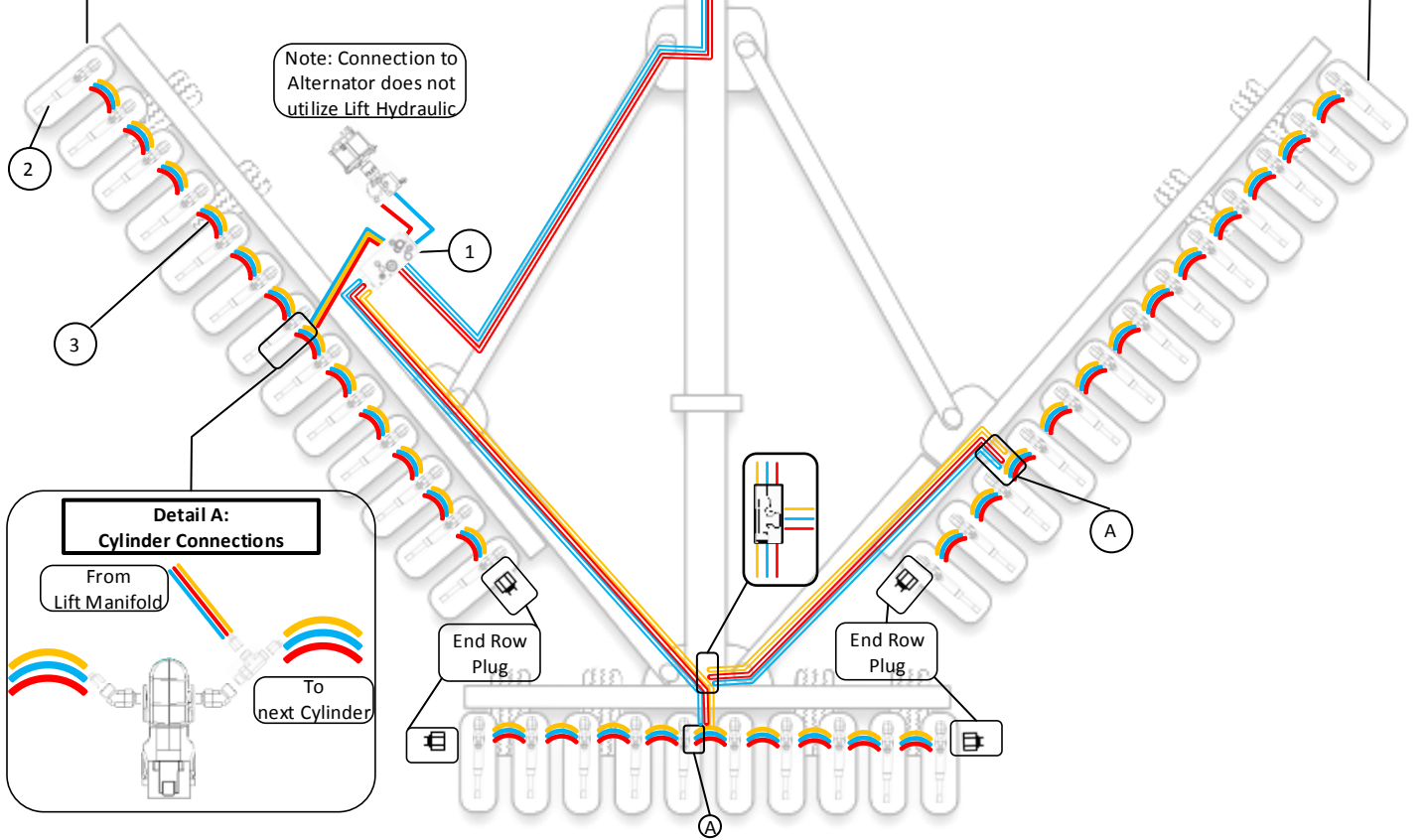
Detail: Cylinder Description



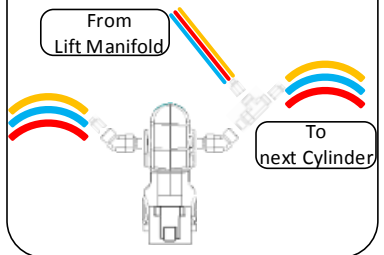
Diagnostic Port
Suggested Locations:
Row 1 & 36

Diagnostic Port

Note: Connection to Alternator does not utilize Lift Hydraulic

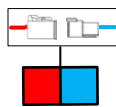


Detail A: Cylinder Connections

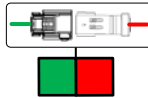


Detail: Harness Connections

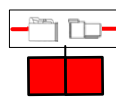
CAN to Backbone Harness



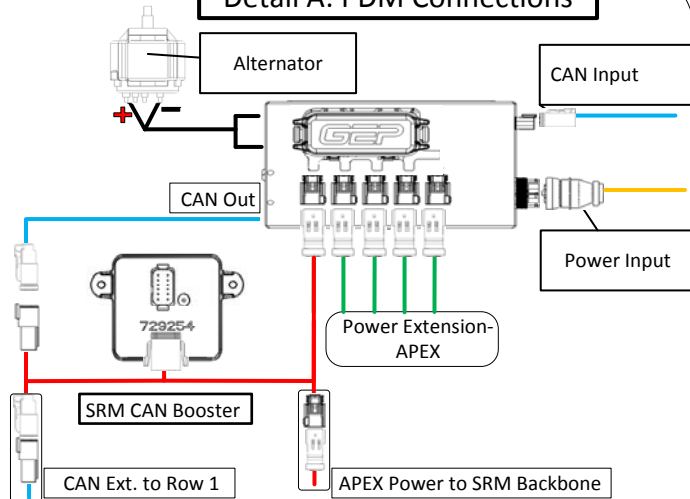
APEX Connection



Backbone to Backbone



Detail A: PDM Connections



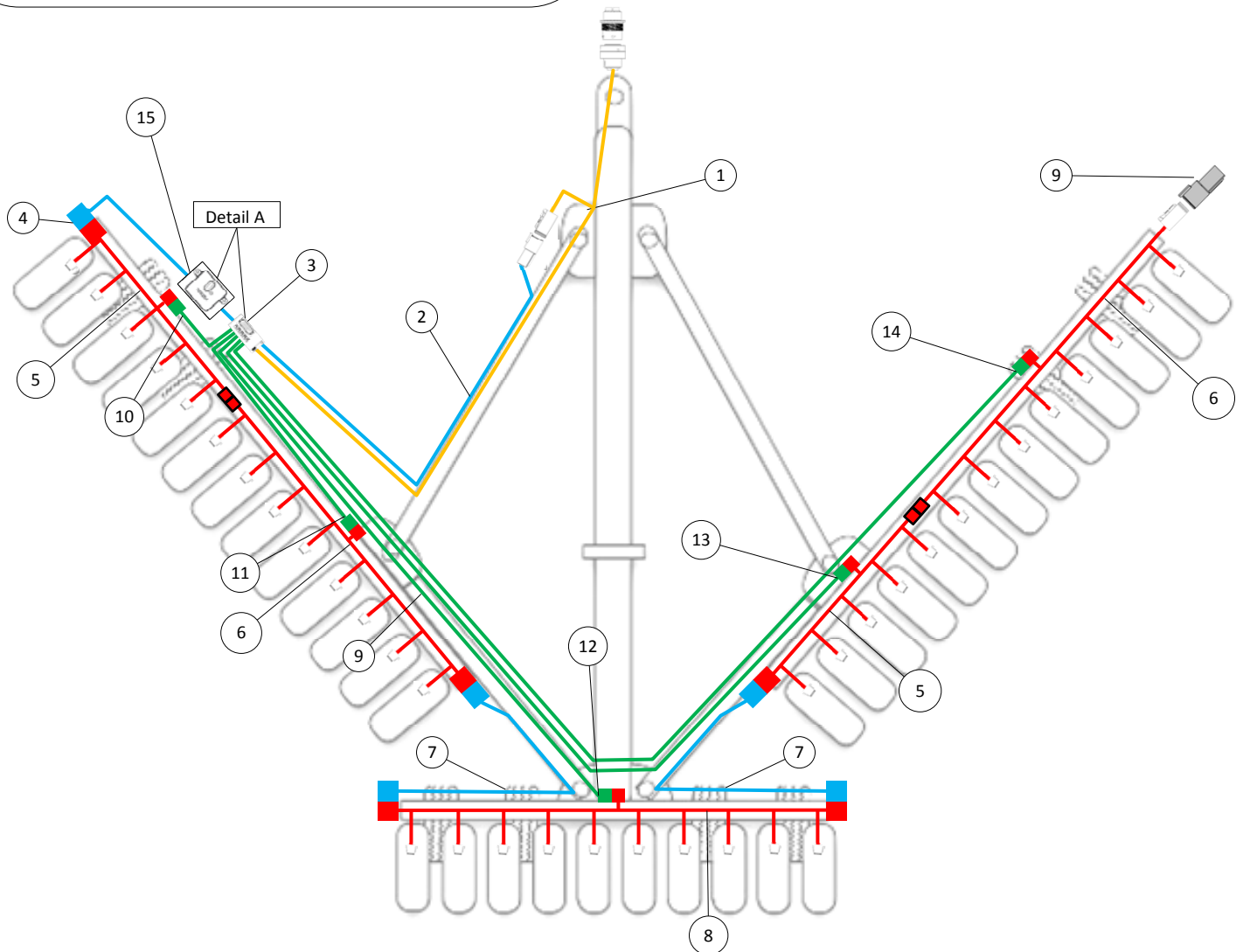
Electrical Systems Overview

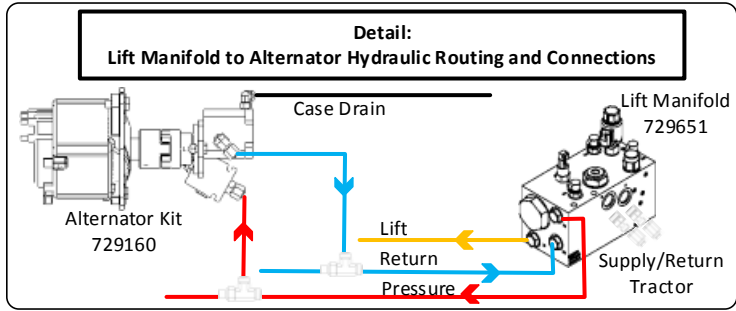
John Deere DB66 - 36R22

Item	Part NO	Description	QTY
1	729404	45' Tractor Power Ext	1
2	729138	40' CAN Ext	1
3	729180	Power Distribution Module (PDM)	1
4	729142	15' CAN Ext	1
5	729465	5 Row SRM Harness 20-22"	2
6	729468	8 Row SRM Harness 20-22"	2
7	729141	10' CAN Ext	2
8	729470	10 Row SRM Harness 20-22"	1
9	729147	CAN Terminator	1
10	729150	5' Backbone Power Ext- APEX	1
11	729151	15' Backbone Power Ext- APEX	1
12	729152	25' Backbone Power Ext- APEX	1
13	729153	35' Backbone Power Ext- APEX	1
14	729154	50' Backbone Power Ext- APEX	1
15	729250	SRM CAN Booster Kit	1

Note: Item 1&2 are part of a kit when ordered

The PDM mounting location may vary slightly from planter to planter





Hydraulic Systems Overview

John DeereDB 66 36 Row 22"

Item	Part NO	Description	QTY
1	729651	Lift Manifold Kit	1
2	729600	Hydraulic Cylinders	36
3	729611	20/22" Row Spacing Inter-Row Kit	33
4	729614	End Row Plug Kit	3
5	729617	3 Frame Hydraulic Fitting Kit	1
6	729160	Alternator Kit	1

Note: Many of the hoses will vary from planter to planter. We supply hoses for Inter-Rows and from Lift Manifold to first planter section. Custom hose length is up to installation discretion

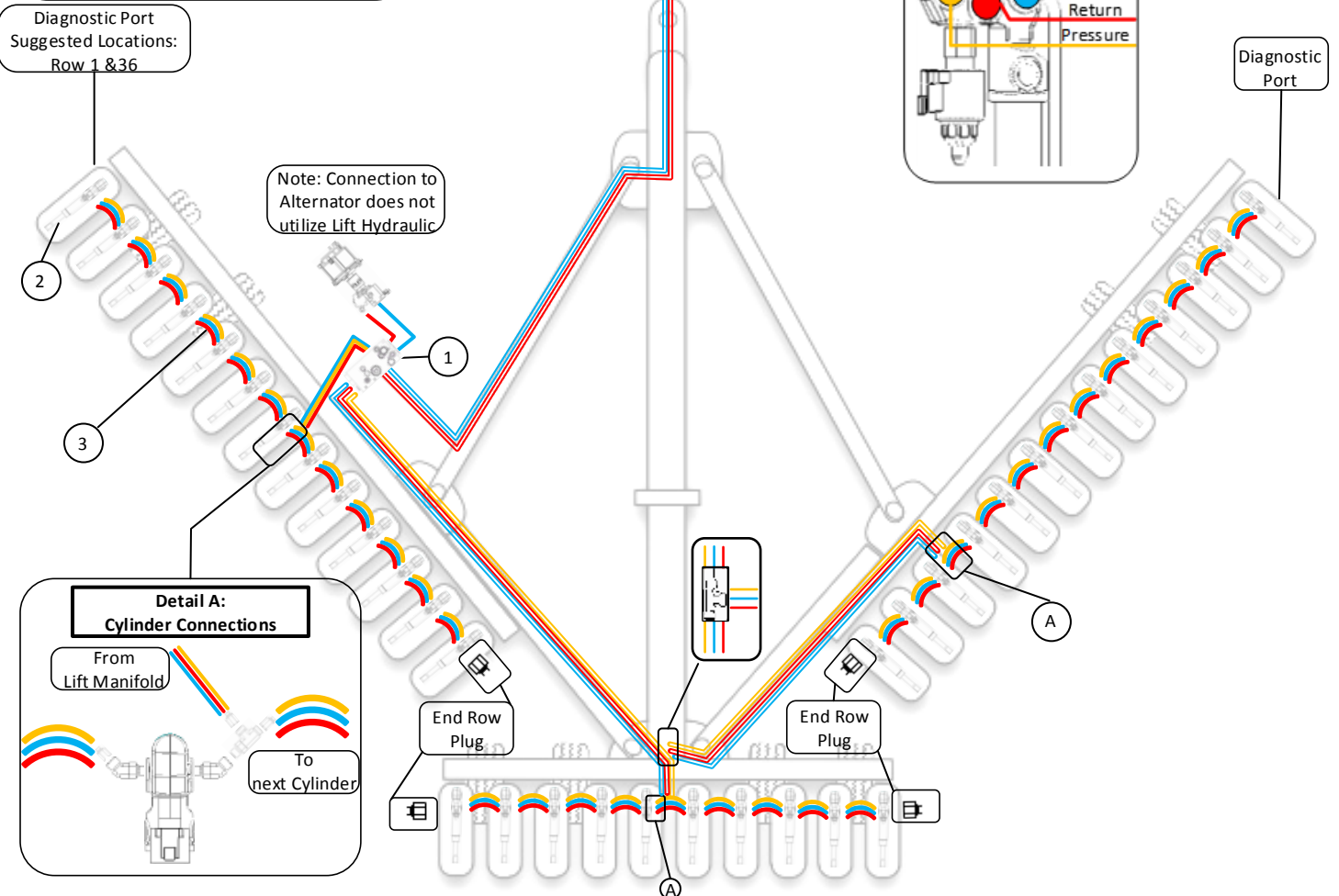
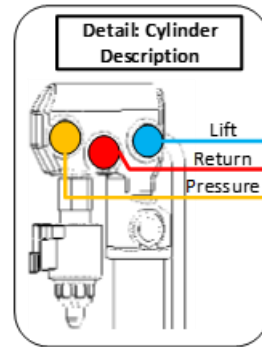
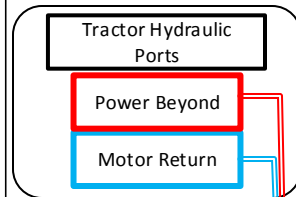
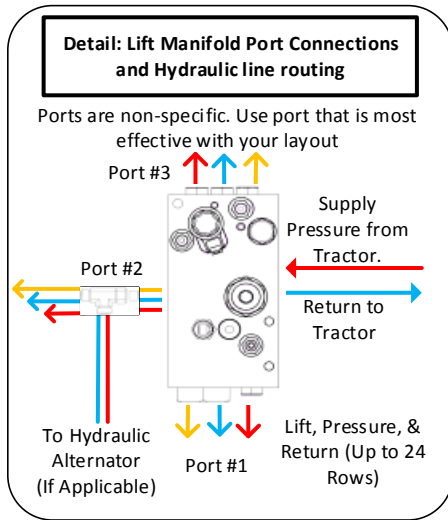
Supplied Hoses:



Custom Hoses:

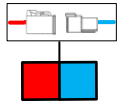


The Lift Manifold mounting location may vary slightly from planter to planter

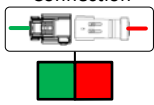


Detail: Harness Connections

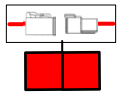
CAN to Backbone Harness



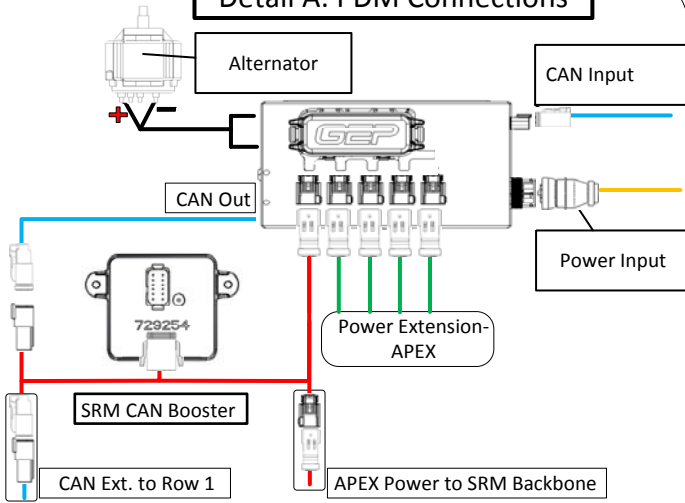
APEX Connection



Backbone to Backbone



Detail A: PDM Connections



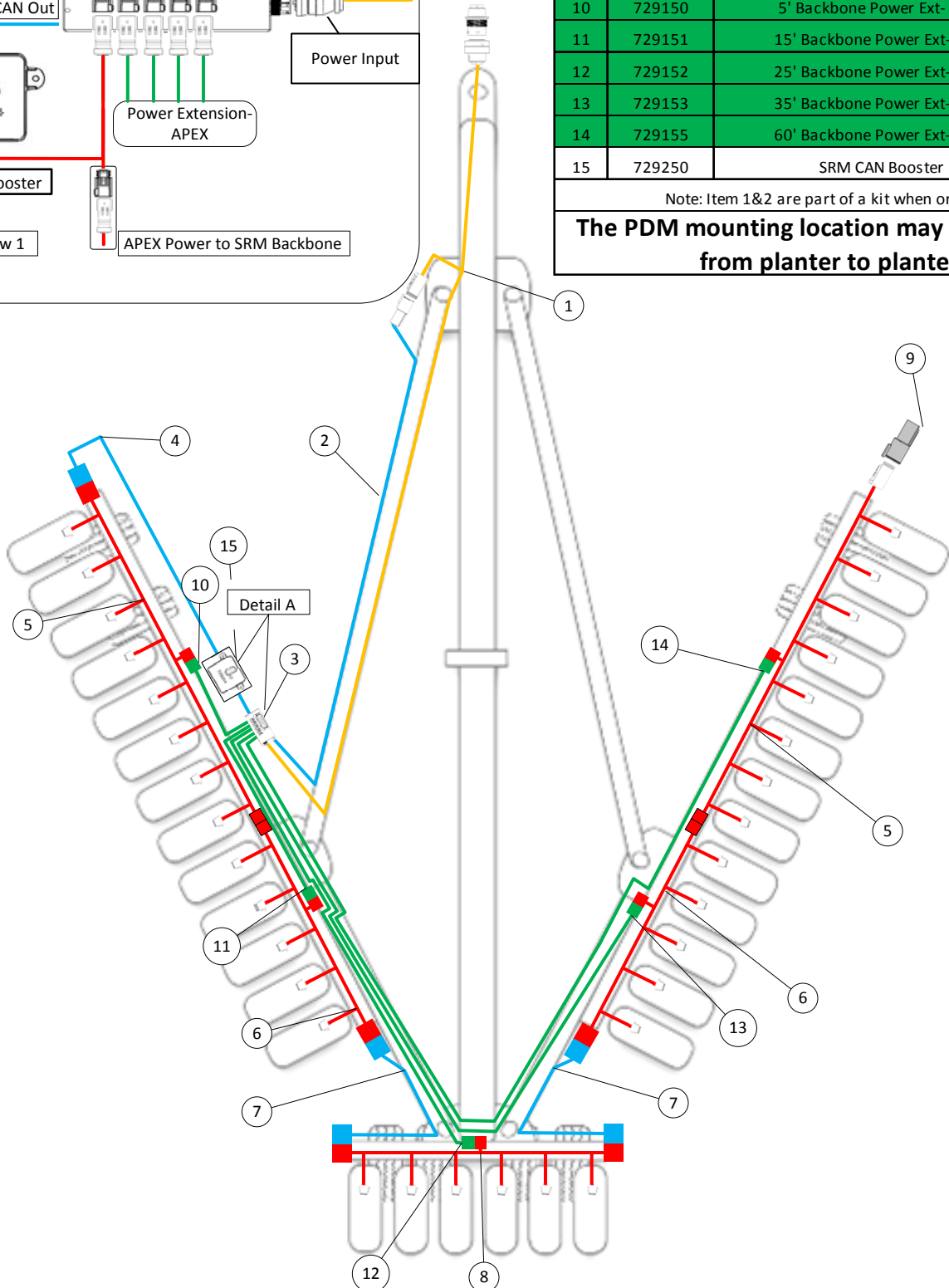
Electrical Systems Overview

John Deere DB80 - 32R30

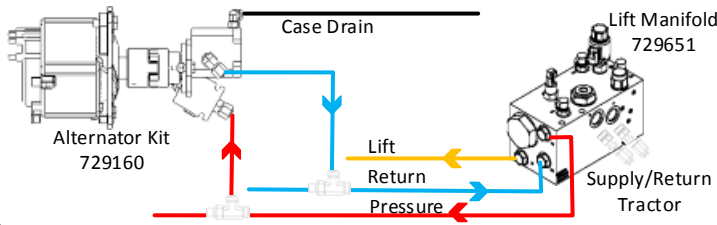
Item	Part NO	Description	QTY
1	729405	55' Tractor Power Ext	1
2	729139	50' CAN Ext	1
3	729180	Power Distribution Module (PDM)	1
4	729143	20' CAN Ext	1
5	729428	8 Row SRM Harness	2
6	729425	5 Row SRM Harness	2
7	729141	10' CAN Ext	2
8	729426	6 Row SRM Harness	1
9	729147	CAN Terminator	1
10	729150	5' Backbone Power Ext- APEX	1
11	729151	15' Backbone Power Ext- APEX	1
12	729152	25' Backbone Power Ext- APEX	1
13	729153	35' Backbone Power Ext- APEX	1
14	729155	60' Backbone Power Ext- APEX	1
15	729250	SRM CAN Booster	1

Note: Item 1&2 are part of a kit when ordered

The PDM mounting location may vary slightly from planter to planter

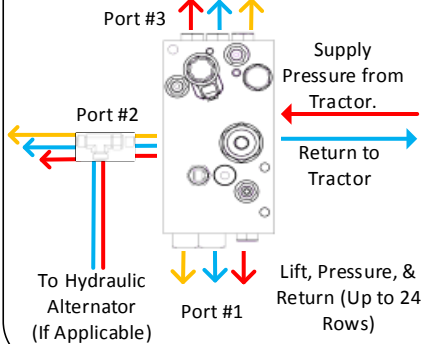


Detail:
Lift Manifold to Alternator Hydraulic Routing and Connections



Detail: Lift Manifold Port Connections and Hydraulic line routing

Ports are non-specific. Use port that is most effective with your layout



Tractor Hydraulic Ports

Power Beyond

Motor Return

Hydraulic Systems Overview

John DeereDB 80 32 Row 30"

Item	Part NO	Description	QTY
1	729651	Lift Manifold	1
2	729600	Hydraulic Cylinders	32
3	729610	30" Row Spacing Inter-Row Kit	29
4	729614	End Row Plug Kit	3
5	729617	3 Frame Hydrualic Fitting Kit	1
6	729160	Alternator Kit (If Applicable)	1

Note: Many of the hoses will vary from planter to planter. We supply hoses for Inter-Rows and from Lift Manifold to first planter section. Custom hose length is up to installation discretion

Supplied Hoses:



Custom Hoses:

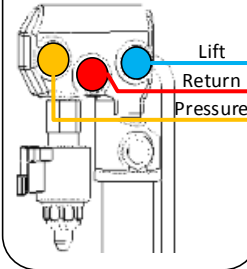


The Lift Manifold mounting location may vary slightly from planter to planter

Diagnostic Port
Suggested Locations:
Row 1 & 32

Note: Connection to
Alternator does not
utilize Lift Hydraulic

**Detail: Cylinder
Description**



Diagnostic Port

**Detail A:
Cylinder Connections**

From
Lift Manifold

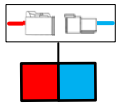
To
next Cylinder

End Row
Plug

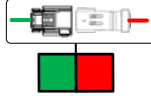
End Row
Plug

Detail: Harness Connections

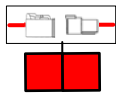
CAN to Backbone Harness



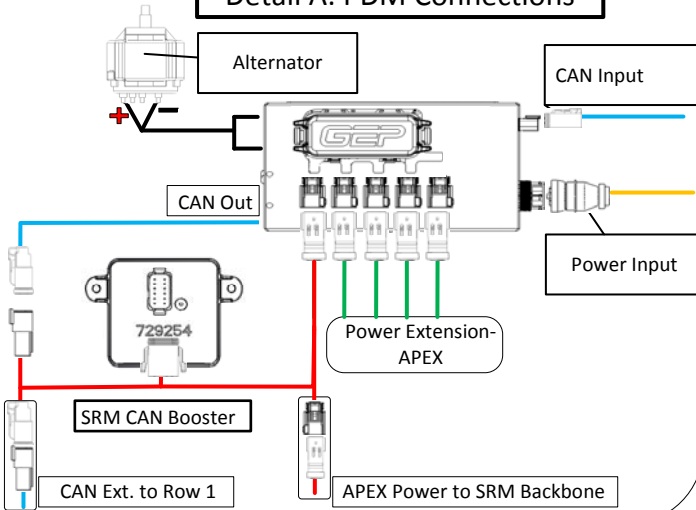
APEX Connection



Backbone to Backbone



Detail A: PDM Connections



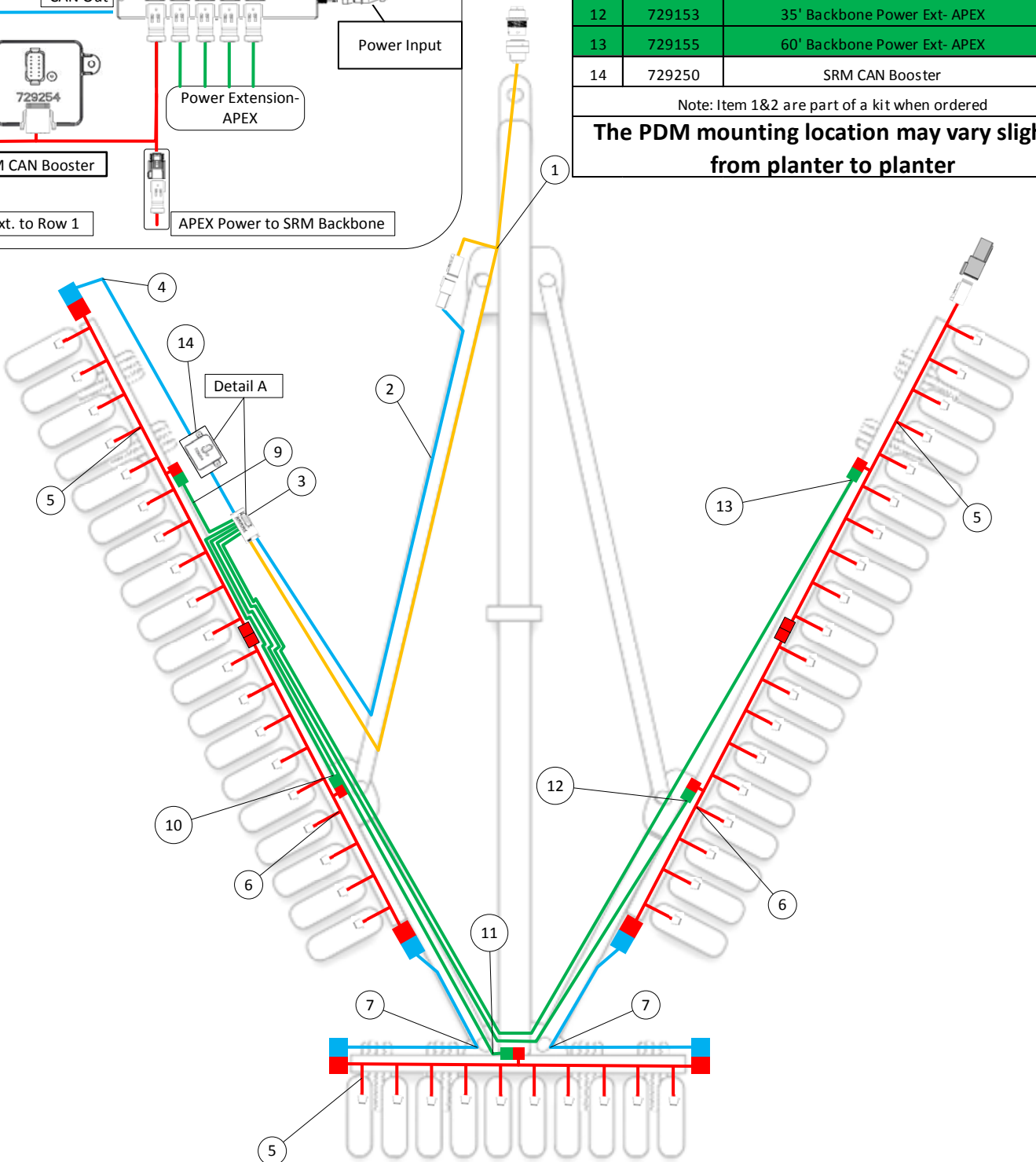
Electrical Systems Overview

John Deere DB80 - 48R20

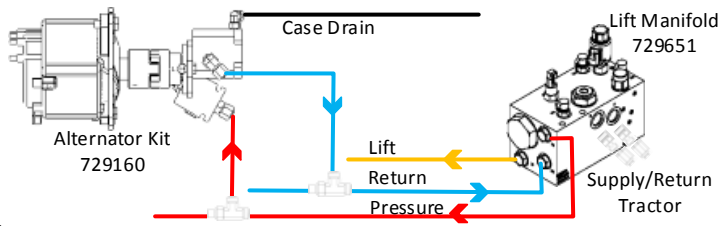
Item	Part NO	Description	QTY
1	729405	55' Tractor Power Ext	1
2	729139	50' CAN Ext	1
3	729180	Power Distribution Module (PDM)	1
4	729143	20' CAN Ext	1
5	729470	10 Row SRM Harness 20-22"	3
6	729469	9 Row SRM Harness 20-22"	2
7	729141	10' CAN Ext	2
8	729147	CAN Terminator	1
9	729150	5' Backbone Power Ext- APEX	1
10	729151	15' Backbone Power Ext- APEX	1
11	729152	25' Backbone Power Ext- APEX	1
12	729153	35' Backbone Power Ext- APEX	1
13	729155	60' Backbone Power Ext- APEX	1
14	729250	SRM CAN Booster	1

Note: Item 1&2 are part of a kit when ordered

The PDM mounting location may vary slightly from planter to planter

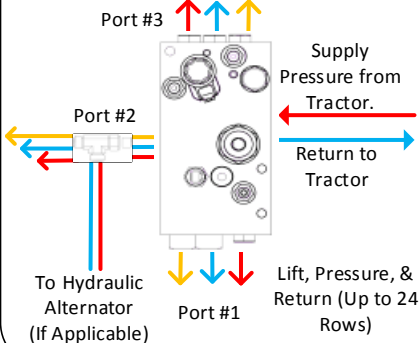


Detail: Lift Manifold to Alternator Hydraulic Routing and Connections



Detail: Lift Manifold Port Connections and Hydraulic line routing

Ports are non-specific. Use port that is most effective with your layout



Tractor Hydraulic Ports

Power Beyond

Motor Return

Hydraulic Systems Overview

John DeereDB 80 48 Row 20"

Item	Part NO	Description	QTY
1	729651	Lift Manifold Kit	1
2	729600	Hydraulic Cylinders	48
3	729611	20/22" Row Spacing Inter-Row Kit	45
4	729614	End Row Plug Kit	3
5	729617	3 Frame Hydraulic Fitting Kit	1
6	729160	Alternator Kit	1

Note: Many of the hoses will vary from planter to planter. We supply hoses for Inter-Rows and from Lift Manifold to first planter section. Custom hose length is up to installation discretion

Supplied Hoses:



Custom Hoses:



The Lift Manifold mounting location may vary slightly from planter to planter

Diagnostic Port
Suggested Locations:
Row 1 & 48

2

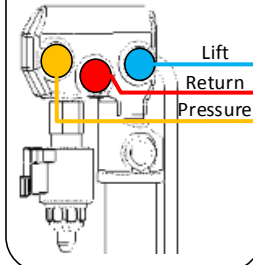
3

Hydraulic T
between Row 9-10

Note: Connection to
Alternator does not
utilize Lift Hydraulic

1

Detail: Cylinder Description



Diagnostic Port

Hydraulic T
between Row 38-39

A

End Row
Plug

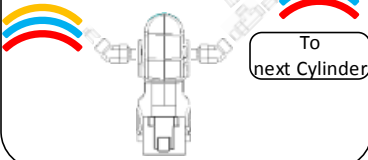
End Row
Plug

A

Detail A: Cylinder Connections

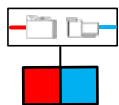
From
Lift Manifold

To
next Cylinder

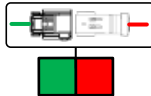


Detail: Harness Connections

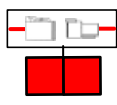
CAN to Backbone Harness



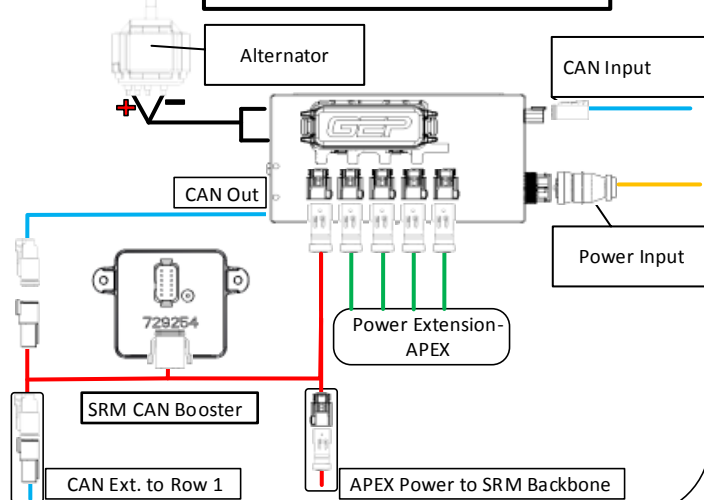
APEX Connection



Backbone to Backbone



Detail A: PDM Connections



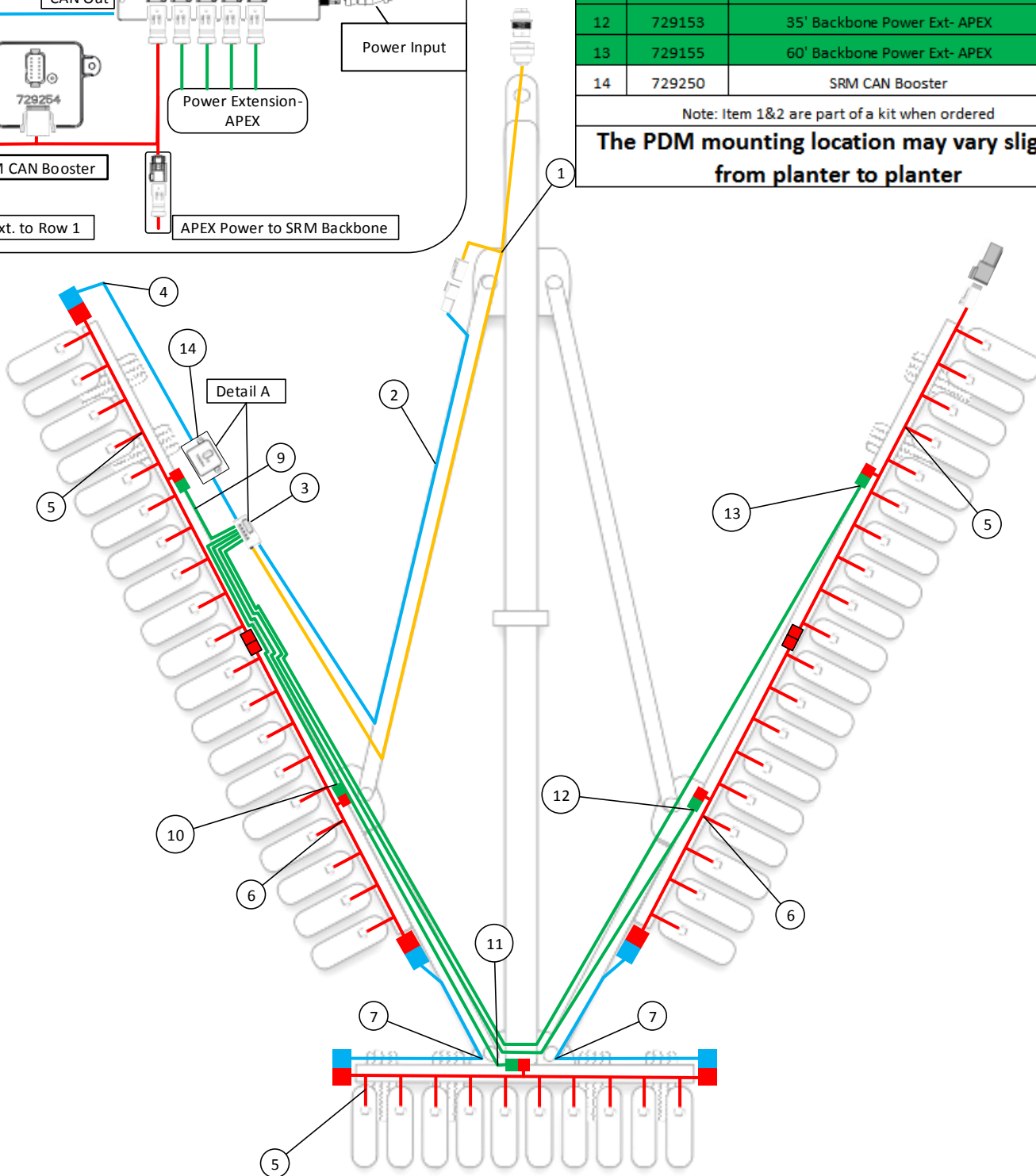
Electrical Systems Overview

John Deere DB88 - 48R22

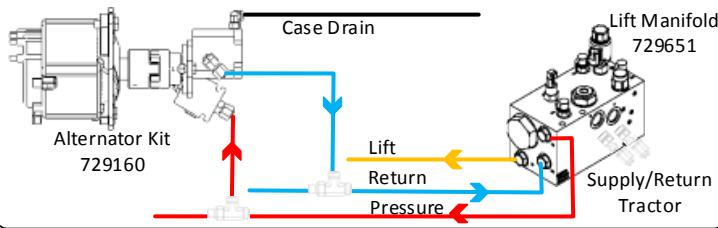
Item	Part NO	Description	QTY
1	729405	55' Tractor Power Ext	1
2	729139	50' CAN Ext	1
3	729180	Power Distribution Module (PDM)	1
4	729143	20' CAN Ext	1
5	729470	10 Row SRM Harness 20-22"	3
6	729469	9 Row SRM Harness 20-22"	2
7	729141	10' CAN Ext	2
8	729147	CAN Terminator	1
9	729150	5' Backbone Power Ext- APEX	1
10	729151	15' Backbone Power Ext- APEX	1
11	729152	25' Backbone Power Ext- APEX	1
12	729153	35' Backbone Power Ext- APEX	1
13	729155	60' Backbone Power Ext- APEX	1
14	729250	SRM CAN Booster	1

Note: Item 1&2 are part of a kit when ordered

The PDM mounting location may vary slightly from planter to planter

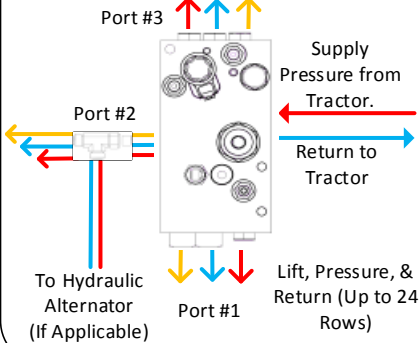


Detail: Lift Manifold to Alternator Hydraulic Routing and Connections



Detail: Lift Manifold Port Connections and Hydraulic line routing

Ports are non-specific. Use port that is most effective with your layout



Tractor Hydraulic Ports

Power Beyond

Motor Return

Hydraulic Systems Overview

John DeereDB 88 48 Row 22"

Item	Part NO	Description	QTY
1	729651	Lift Manifold Kit	1
2	729600	Hydraulic Cylinders	48
3	729611	20/22" Row Spacing Inter-Row Kit	45
4	729614	End Row Plug Kit	3
5	729617	3 Frame Hydraulic Fitting Kit	1
6	729160	Alternator Kit	1

Note: Many of the hoses will vary from planter to planter. We supply hoses for Inter-Rows and from Lift Manifold to first planter section. Custom hose length is up to installation discretion

Supplied Hoses:



Custom Hoses:



The Lift Manifold mounting location may vary slightly from planter to planter

Diagnostic Port
Suggested Locations:
Row 1 & 48

2

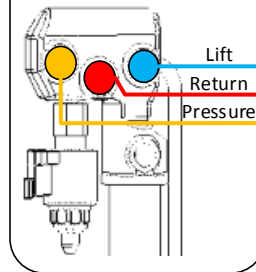
3

Hydraulic T
between Row 9-10

Note: Connection to
Alternator does not
utilize Lift Hydraulic

1

Detail: Cylinder Description



Diagnostic Port

Hydraulic T
between Row 38-39

A

Detail A: Cylinder Connections

From
Lift Manifold

To
next Cylinder

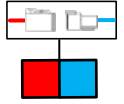
End Row
Plug

End Row
Plug

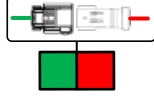
A

Detail: Harness Connections

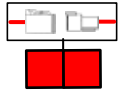
CAN to Backbone Harness



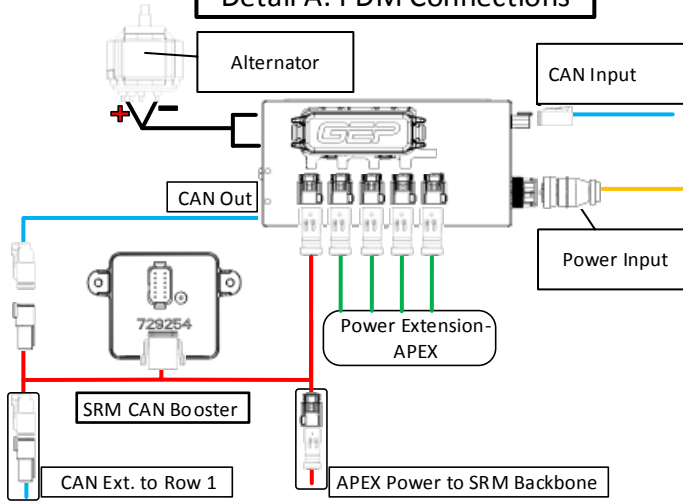
APEX Connection



Backbone to Backbone



Detail A: PDM Connections



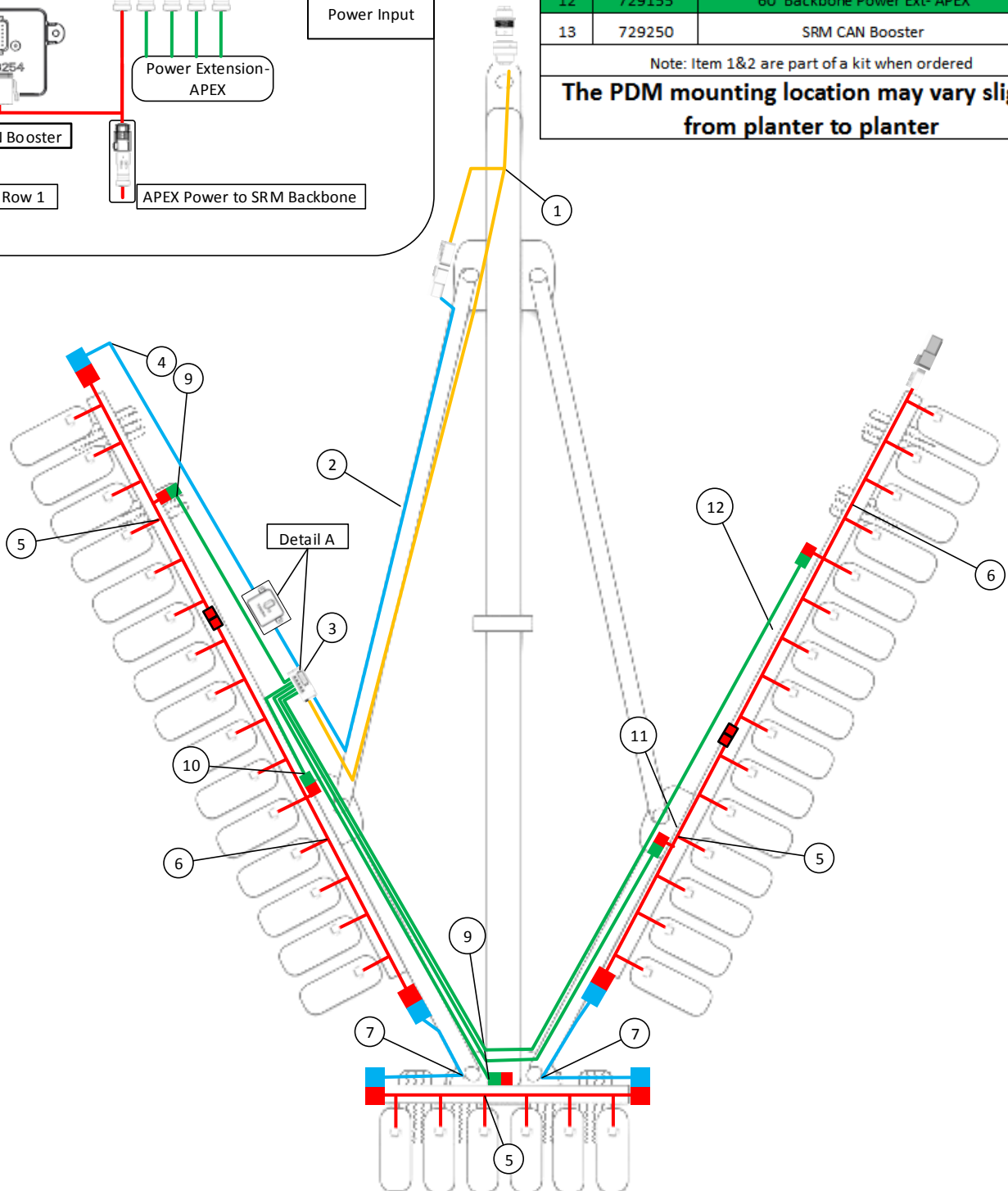
Electrical Systems Overview

John Deere DB90 - 36R30

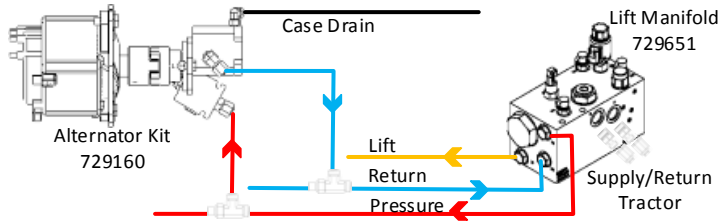
Item	Part NO	Description	QTY
1	729405	55' Tractor Power Ext	1
2	729139	50' CAN Ext	1
3	729180	Power Distribution Module (PDM)	1
4	729144	30' CAN Ext	1
5	729426	6 Row SRM Harness	3
6	729429	9 Row SRM Harness	2
7	729141	10' CAN Ext	2
8	729147	CAN Terminator	1
9	729152	25' Backbone Power Ext- APEX	2
10	729150	5' Backbone Power Ext- APEX	1
11	729154	50' Backbone Power Ext- APEX	1
12	729155	60' Backbone Power Ext- APEX	1
13	729250	SRM CAN Booster	1

Note: Item 1&2 are part of a kit when ordered

The PDM mounting location may vary slightly from planter to planter

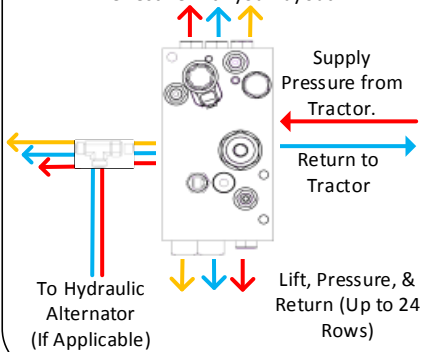


Detail: Lift Manifold to Alternator Hydraulic Routing and Connections

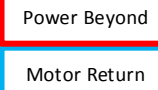


Detail: Lift Manifold Port Connections and Hydraulic line routing

Ports are non-specific. Use port that is most effective with your layout



Tractor Hydraulic Ports



Hydraulic Systems Overview

John DeereDB 90 36R30

Item	Part NO	Description	QTY
1	729651	Lift Manifold Kit	1
2	729600	Hydraulic Cylinders	36
3	729610	30" Row Spacing Inter-Row Kit	33
4	729614	End Row Plug Kit	3
5	729617	3 Frame Hydraulic Fitting Kit	1
6	729160	Alternator Kit	1

Note: Many of the hoses will vary from planter to planter. We supply hoses for Inter-Rows and from Lift Manifold to first planter section. Custom hose length is up to installation discretion

Supplied Hoses:

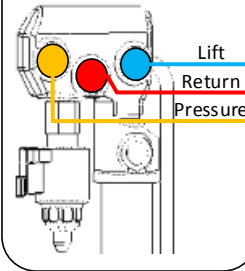


Custom Hoses:



The Lift Manifold mounting location may vary slightly from planter to planter

Detail: Cylinder Description



Diagnostic Port

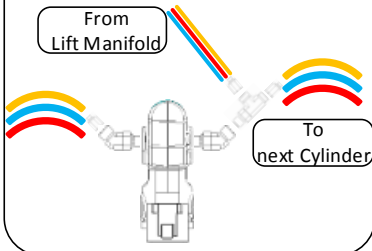
Diagnostic Port
Suggested Locations:
Row 1 & 36

2

3

Note: Connection to Alternator does not utilize Lift Hydraulic

Detail A: Cylinder Connections



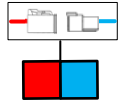
End Row Plug

End Row Plug

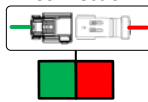
A

Detail: Harness Connections

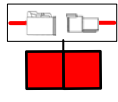
CAN to Backbone Harness



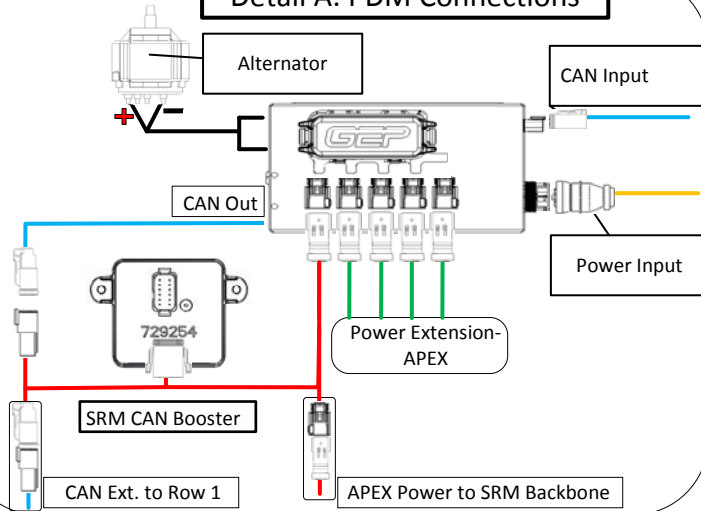
APEX Connection



Backbone to Backbone



Detail A: PDM Connections



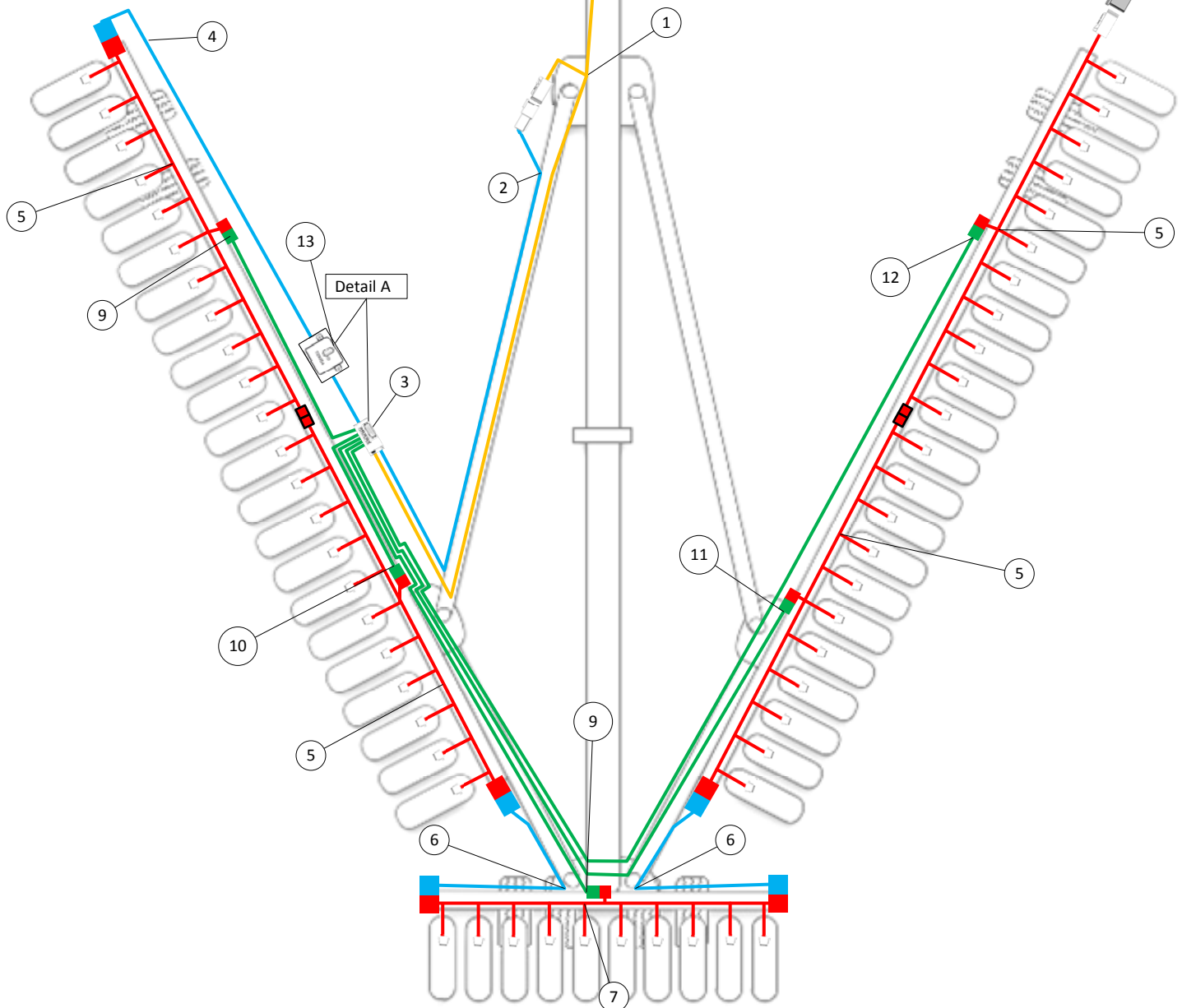
Electrical Systems Overview

John Deere DB90 - 54R20

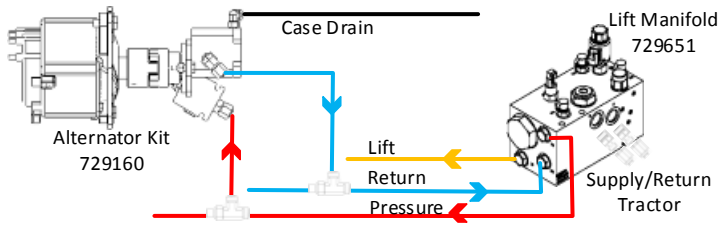
Item	Part NO	Description	QTY
1	729405	55' Tractor Power Ext	1
2	729139	50' CAN Ext	1
3	729180	Power Distribution Module (PDM)	1
4	729144	30' CAN Ext	1
5	729471	11 Row SRM Harness 20-22"	4
6	729141	10' CAN Ext	2
7	729470	10 Row SRM Harness 20-22"	1
8	729147	CAN Terminator	1
9	729152	25' Backbone Power Ext- APEX	2
10	729150	5' Backbone Power Ext- APEX	1
11	729154	50' Backbone Power Ext- APEX	1
12	729155	60' Backbone Power Ext- APEX	1
13	729250	SRM CAN Booster	1

Note: Item 1&2 are part of a kit when ordered

The PDM mounting location may vary slightly from planter to planter

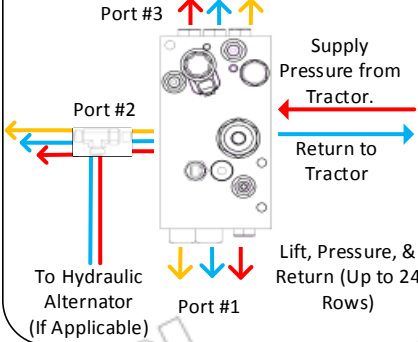


Detail: Lift Manifold to Alternator Hydraulic Routing and Connections



Detail: Lift Manifold Port Connections and Hydraulic line routing

Ports are non-specific. Use port that is most effective with your layout and Lift Manifold Orientation



Tractor Hydraulic Ports

Power Beyond

Motor Return

Hydraulic Systems Overview

John Deere DB90 54R20

Item	Part NO	Description	QTY
1	729651	Lift Manifold Kit	1
2	729600	Hydraulic Cylinders	54
3	729611	20/22" Row Spacing Inter-Row Kit	51
4	729614	End Row Plug Kit	3
5	729617	3 Frame Hydrualic Fitting Kit	1
6	729160	Alternator Kit	1

Note: Many of the hoses will vary from planter to planter. We supply hoses for Inter-Rows and from Lift Manifold to first planter section. Custom hose length is up to installation discretion

Supplied Hoses:

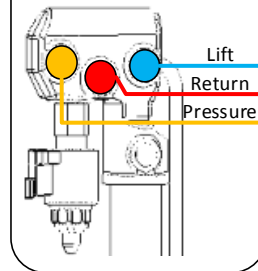


Custom Hoses:



The Lift Manifold mounting location may vary slightly from planter to planter

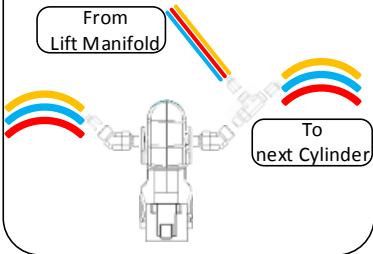
Detail: Cylinder Description



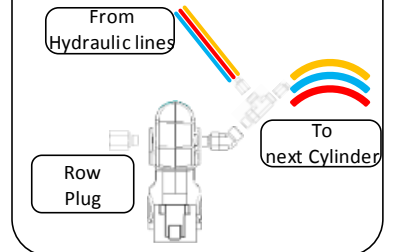
Diagnostic Port
Suggested Locations:
Row 1 & 54

Note: Connection to Alternator does not utilize Lift Hydraulic

Detail A: Cylinder Connections



Detail B: Cylinder Connections



End Row Plug

End Row Plug

Row Plug

To next Cylinder