

Topcon to Bourgault part # cross reference.

7000 series serial # 40980AS-01 through 41358AS-01		6000 / 7000 series serial # 41380AS-01 through 41472AS-01		6000 / 7000 series serial # 41549AS-01 through date	
Bourgault part #	Topcon part #	Bourgault part #	Topcon part #	Bourgault part #	Topcon part #
3132-10	AGA4477	3132-10	AGA4477	3132-10	AGA4477
3132-04-02	AGA4072	3132-12-01	AGA5072	3132-12-01	AGA5072
3132-04-03	AGA4073	3132-04-03	AGA4073	3132-04-03	AGA4073
3132-04-04	AGA4219	3132-09-03	AGK159	3132-09-03	AGK159
3132-01	AGA4823	3132-09-02	AGA4678	3132-09-02	AGA4678
3132-05	AGA4634	3132-09-01	AGA5251	3132-09-01	AGA5251
3132-08	AGA4598	3132-01	AGA4823	3132-01	AGA4823
3132-06	AGA4885	3131-09	A1267	3131-09	A1267
3131-90		3132-05	AGA4634	3132-13	AGA4634
3132-07	AGA4957	3132-06	AGA4885	3132-14	
		3132-07	AGA4957	3132-07	AGA4957
		3132-04-04	AGA4219	3132-04-04	AGA4219
		3131-90			
		Topcon part #			
pulse generator	3131-80	A2614			
MDECU	3131-13	A1526			
Seeder ECU	3132-02	AGA4727			
BHECU	3131-51	A2021			
Blockage adapter	3131-67	AGA4201			

11 WIRING SCHEMATICS

11.1 IN-CAB COMPONENTS

UP TO L.N. 41358AS01

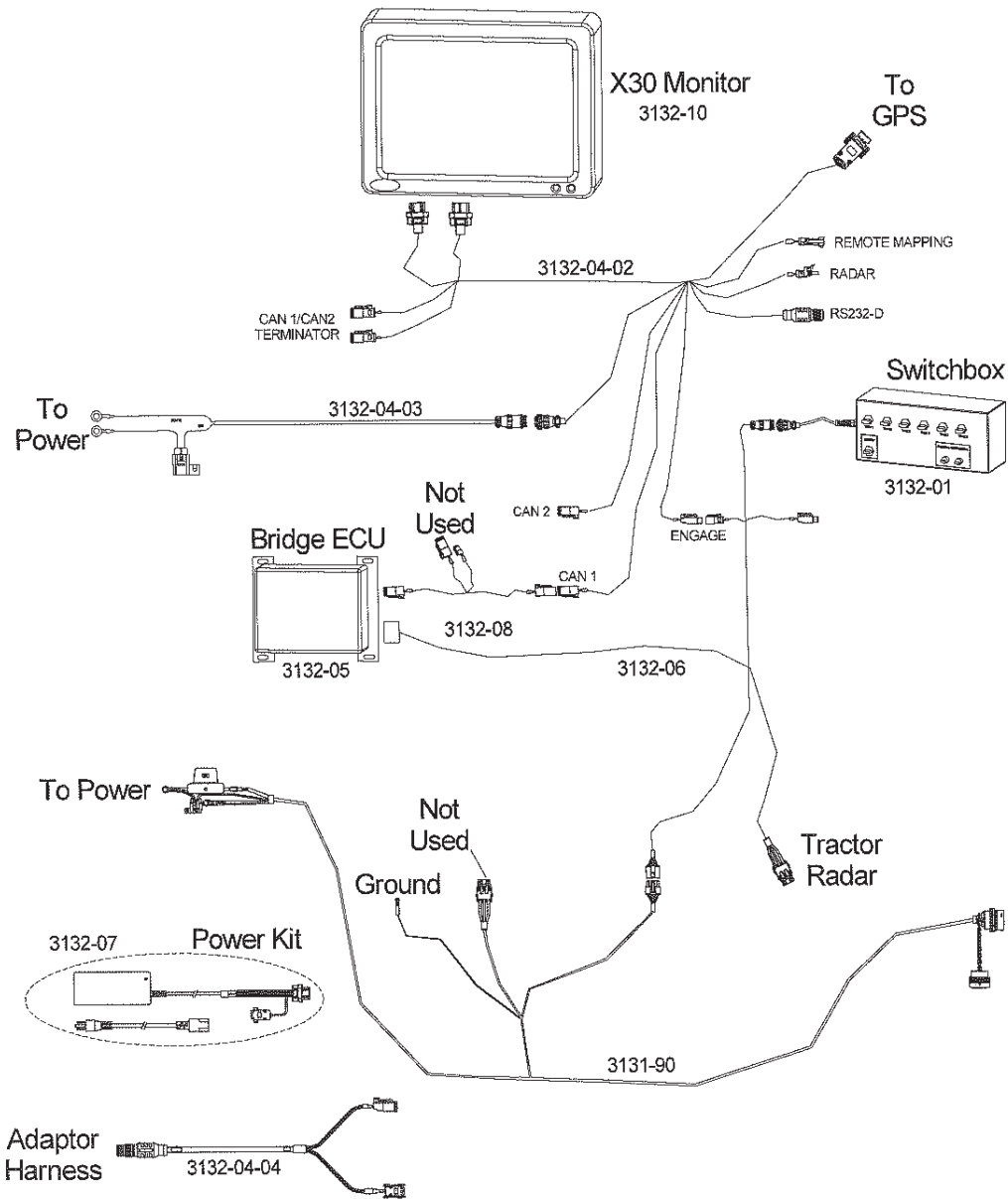


Figure 7.1 - X30 SRC - In-Cab Components (Up To L.N. 41358AS01)

X30_IN-CAB_COMP_ONLY_8.PDF

L.N. 41463AS01 TO L.N. 41508AS06

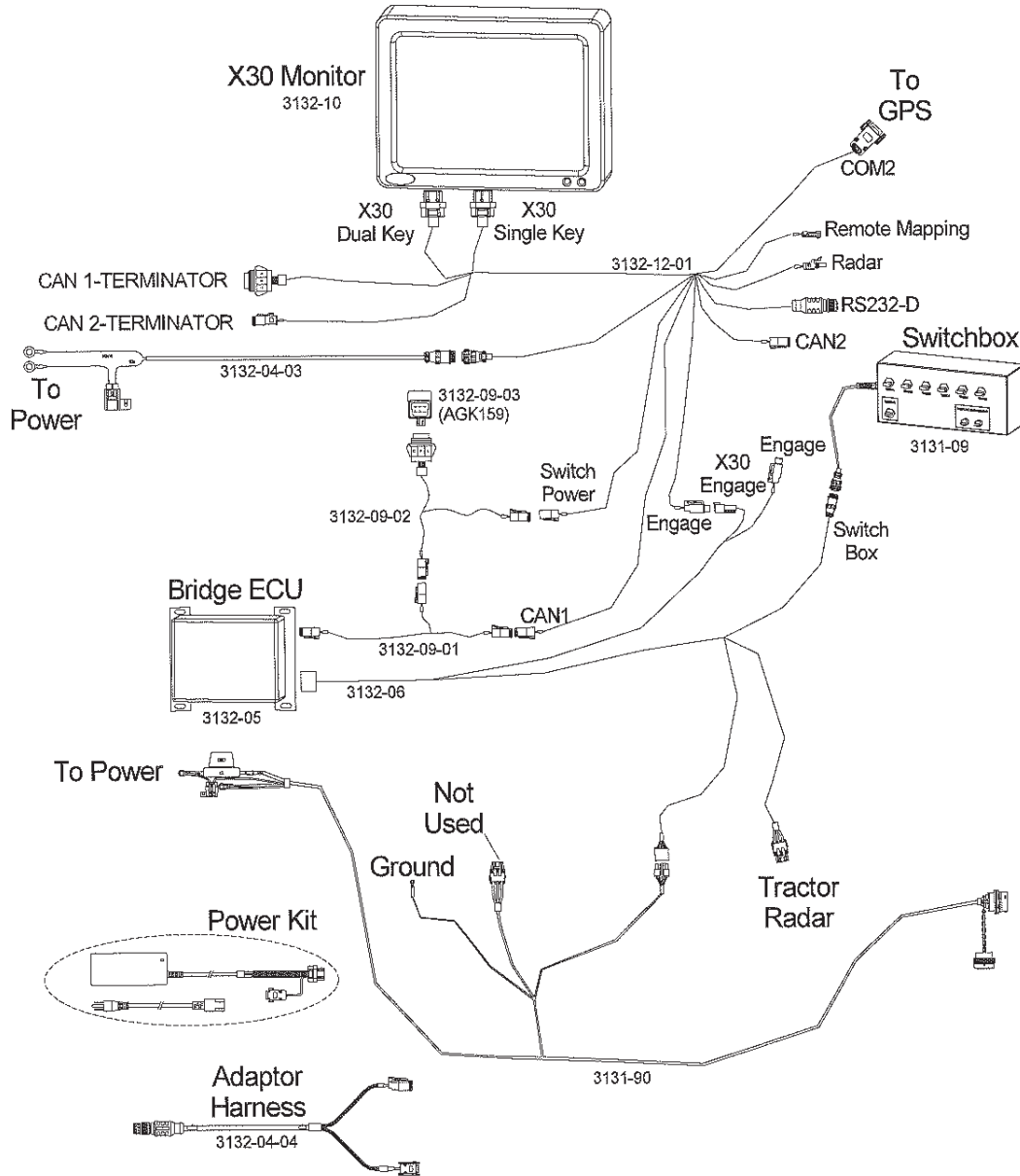


Figure 7.2 - X30 SRC - In-Cab Components (L.N. 41463AS01 - 41508AS06)

X30_INCAR_COMP_ONLY_C.PDF

FROM L.N. 41508AS07

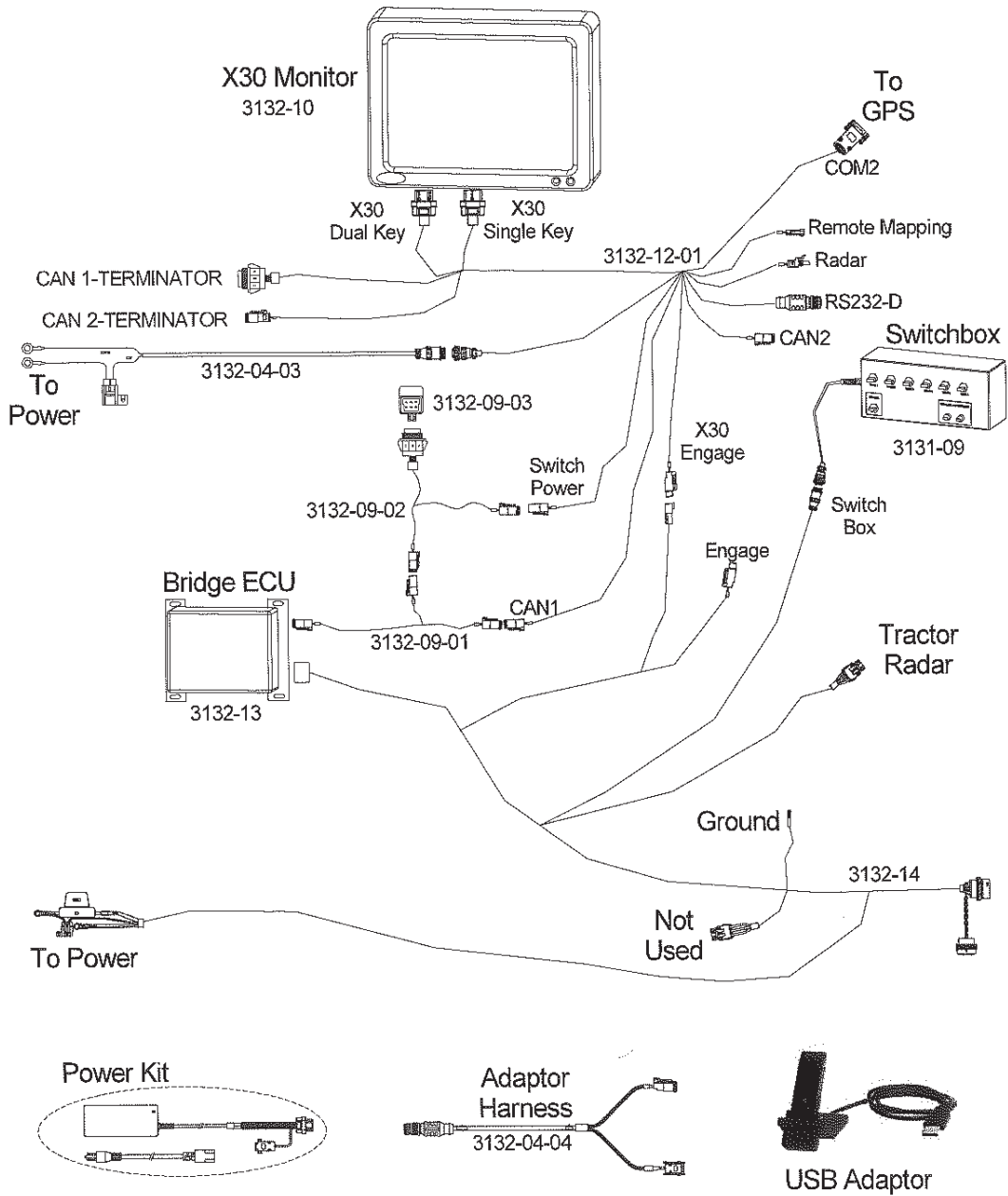


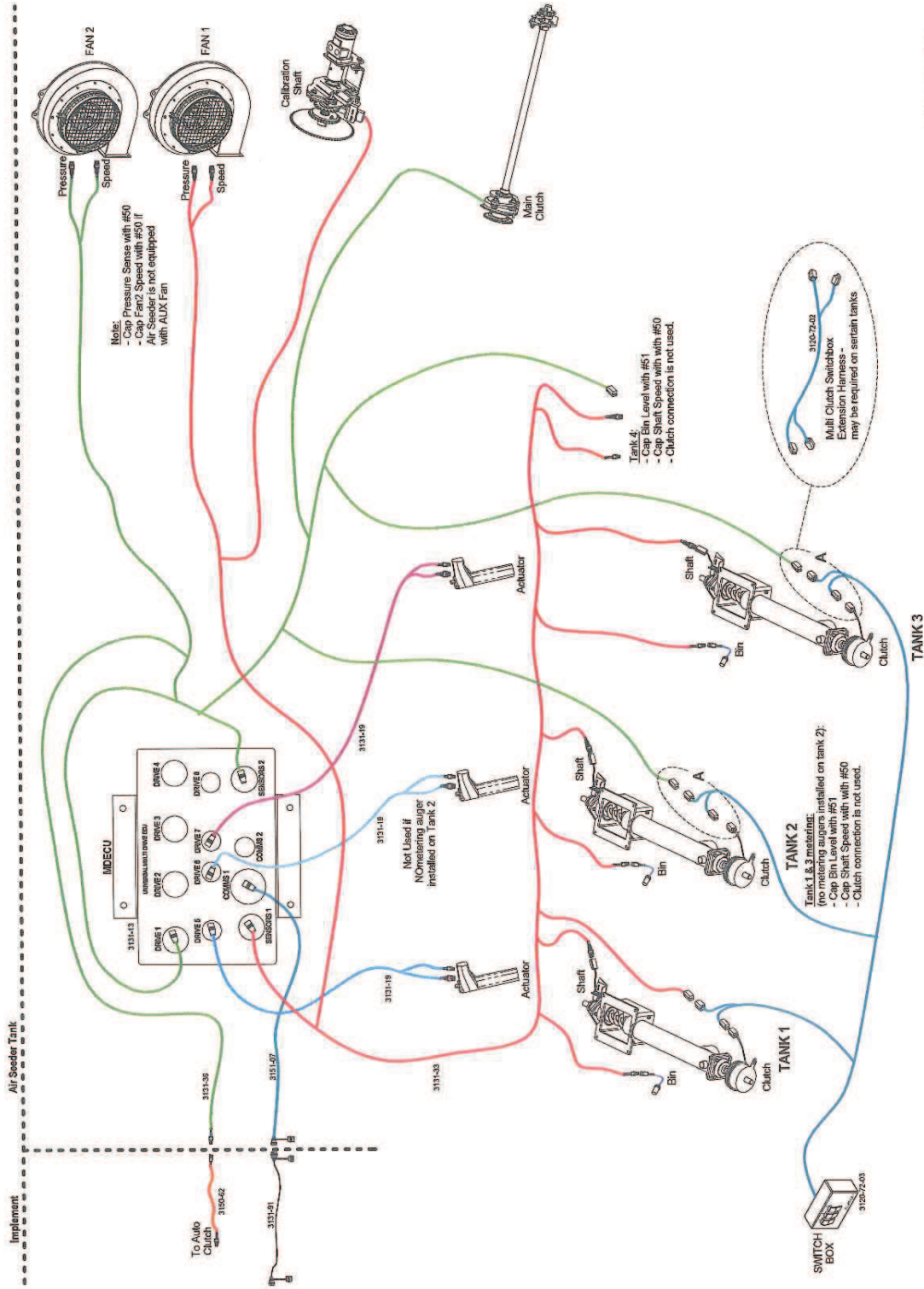
Figure 7.3 - X30 SRC - In-Cab Components (From L.N. 41508AS07)

X30_IN-CAB_COMP_ONLY_D_PDF

11.2 COMPONENTS ON THE AIR SEEDER TANK AND IMPLEMENT

11.2.1 6000 SERIES AIR SEEDERS

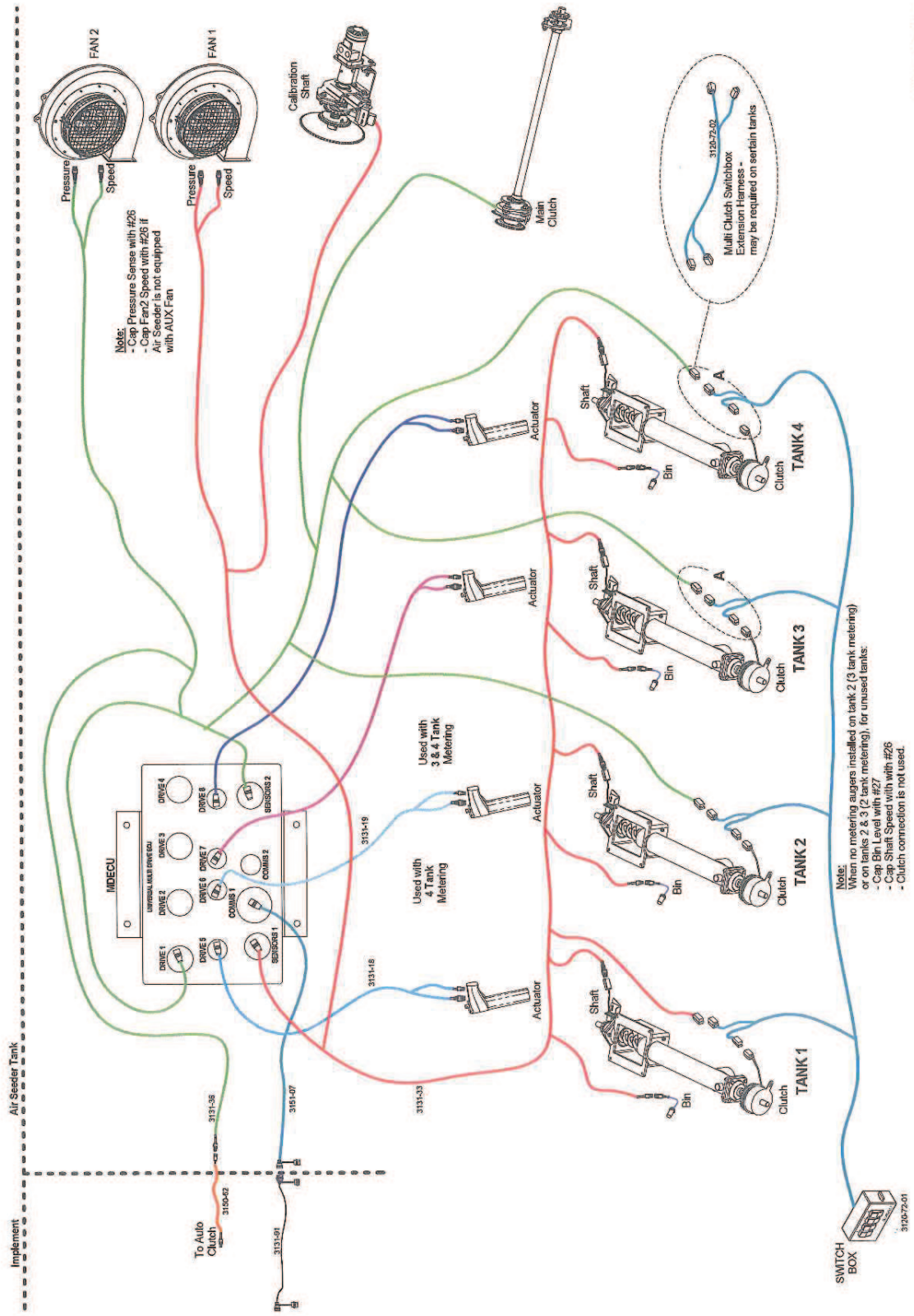
11.2.1.1 6280 & 6350 MODELS



6350, 6280, X30CON, RPDF

Figure 7.4 - Implement/AS Tank Components - 6280 & 6350 Models

11.2.1.2 6450 & 6550 MODELS



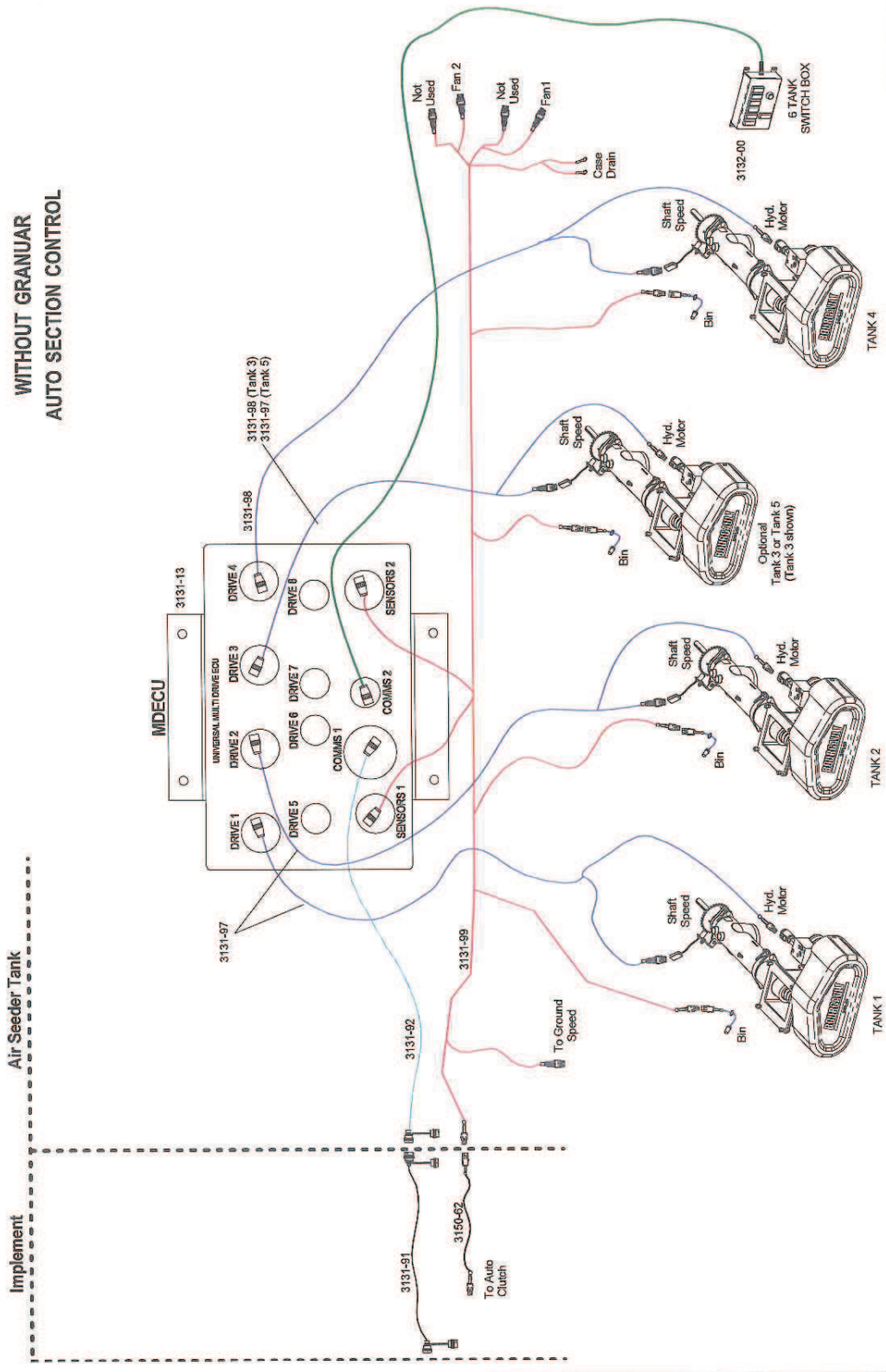
6550_6450_X30CON_B.PDF

Figure 7.5 - Implement/AS Tank Components - 6450 & 6550 Models

11.2.2 7000 SERIES AIR SEEDERS

11.2.2.1 UP TO 4 TANK METERING - NO NH3/LIQUID - NO ASC

WITHOUT GRANULAR
AUTO SECTION CONTROL



TRDAS_ELECTR_SCH301UPFORGRANMTR_NONNH3LIQUID_D.PDF

Figure 7.6- Implement/AS Tank Components - Up to 4 Tank Metering - No NH3/Liquid - No ASC

11.2.2.2 UP TO 4 TANK METERING - NO NH3/LIQUID - WITH ASC

WITH GRANULAR
AUTO SECTION CONTROL

UNITS WITH ASC:
ASC HARNESS
CONNECTS HERE.
REFER TO ASC
6/8/OR 10 PORTS
SCHEMATICS ON
FIGURES 11.10
- 11.12.

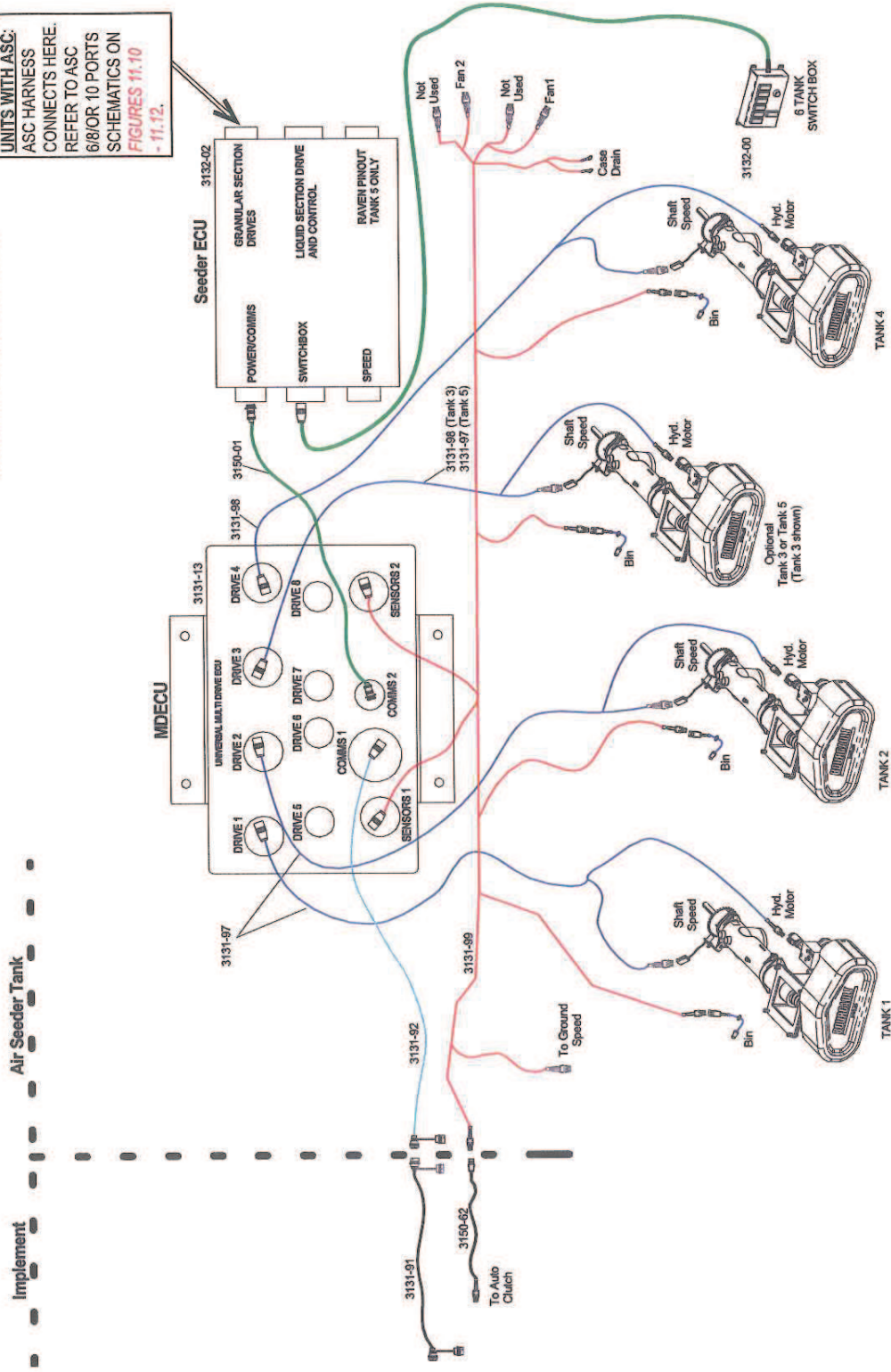


Figure 7.7- Implement/AS Tank Components - Up to 4 Tank Metering - No NH3/Liquid - With ASC

11.2.2.3 5 TANK METERING - NO NH3/LIQUID - WITH/WITHOUT ASC

WITH/WITHOUT GRANULAR
AUTO SECTION CONTROL

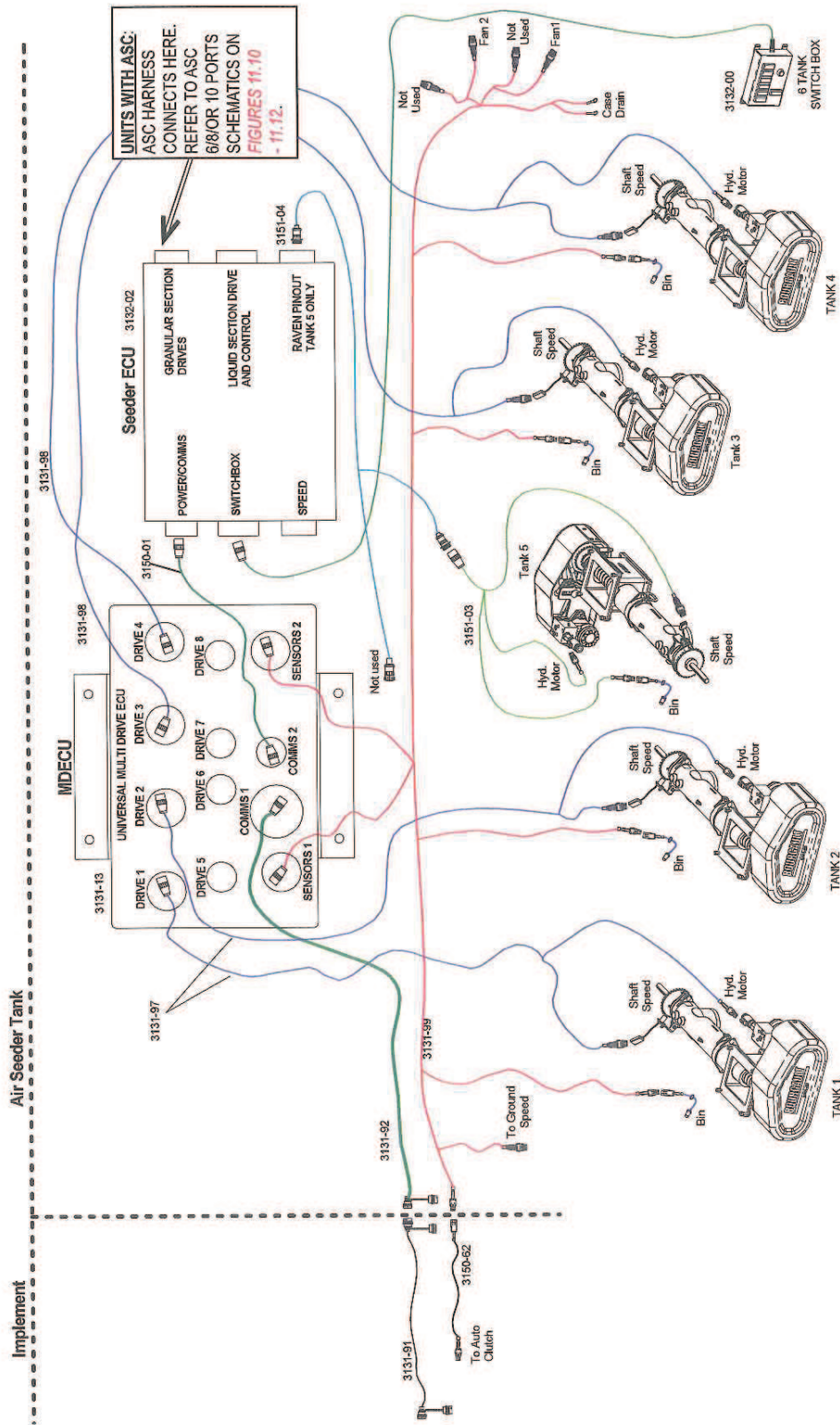
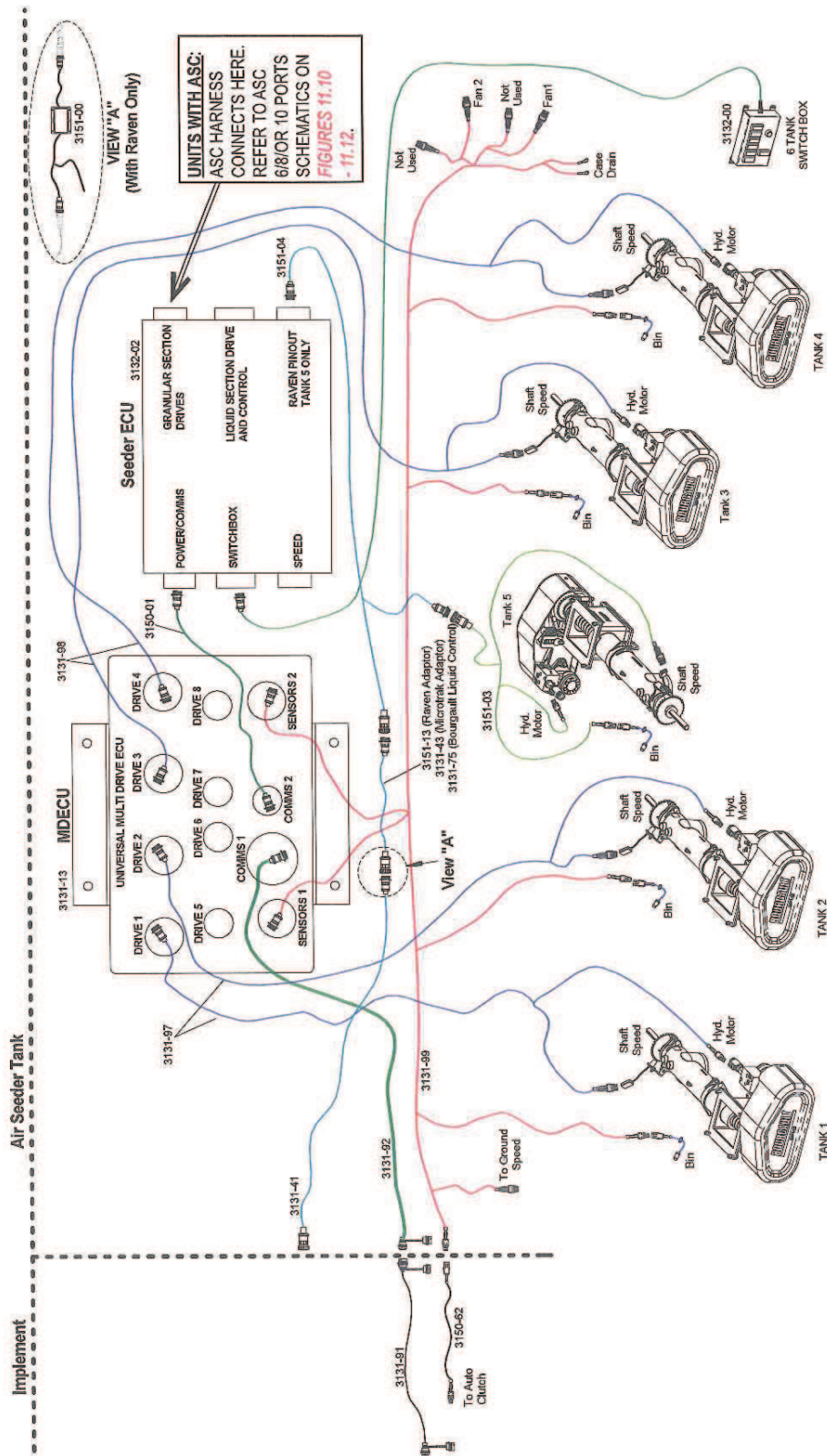


Figure 7.8 - Implement/AS Tank Components - 5 Tank Metering - No NH3/Liquid

11.2.2.4 UP TO 5 TANK METERING WITH NH3/LIQUID APPLICATION - WITH/WITHOUT ASC

WITH/WITHOUT GRANULAR
AUTO SECTION CONTROL

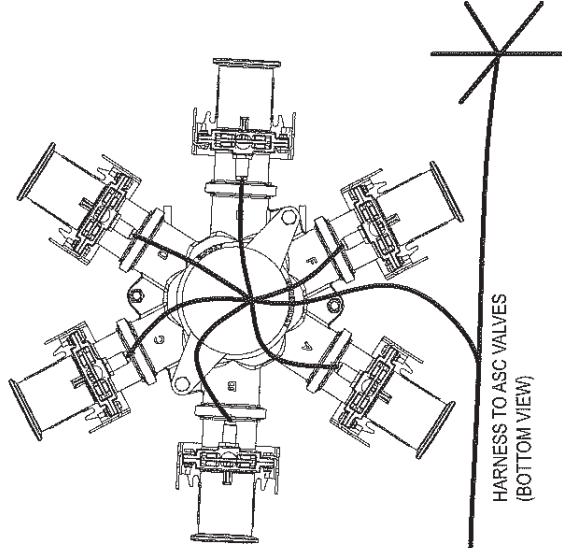
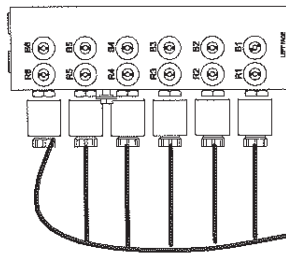


709A6ELECTR_SCHM_OVER/TANKMTR_NH3LIQUID.DPDF

Figure 7.9 - Implement/AS Tank Components - Up to 5 Tank Metering With NH3/Liquid application

11.2.2.5 AUTO SECTION CONTROL - 6 PORTS

MANIFOLD PORT LABEL	HARNES LABEL
A	6/8P:6 10P:7
B	6/8P:1 10P:1
C	6/8P:3 10P:3
D	6/8P:5 10P:5/6
E	6/8P:2 10P:2
F	6/8P:4 10P:4



CONNECT TO GRANULAR SECTION DRIVES CONNECTOR ON SEEDER ECU

3151-01

HARNES TO ASC VALVES (BOTTOM VIEW)

THESE ENDS ARE FOR DOUBLE SHOOT. CONNECTIONS ARE THE SAME AS FOR SINGLE SHOOT

Figure 7.10 - Auto Section Control - 6 Ports

11.2.2.6 AUTO SECTION CONTROL - 8 PORTS

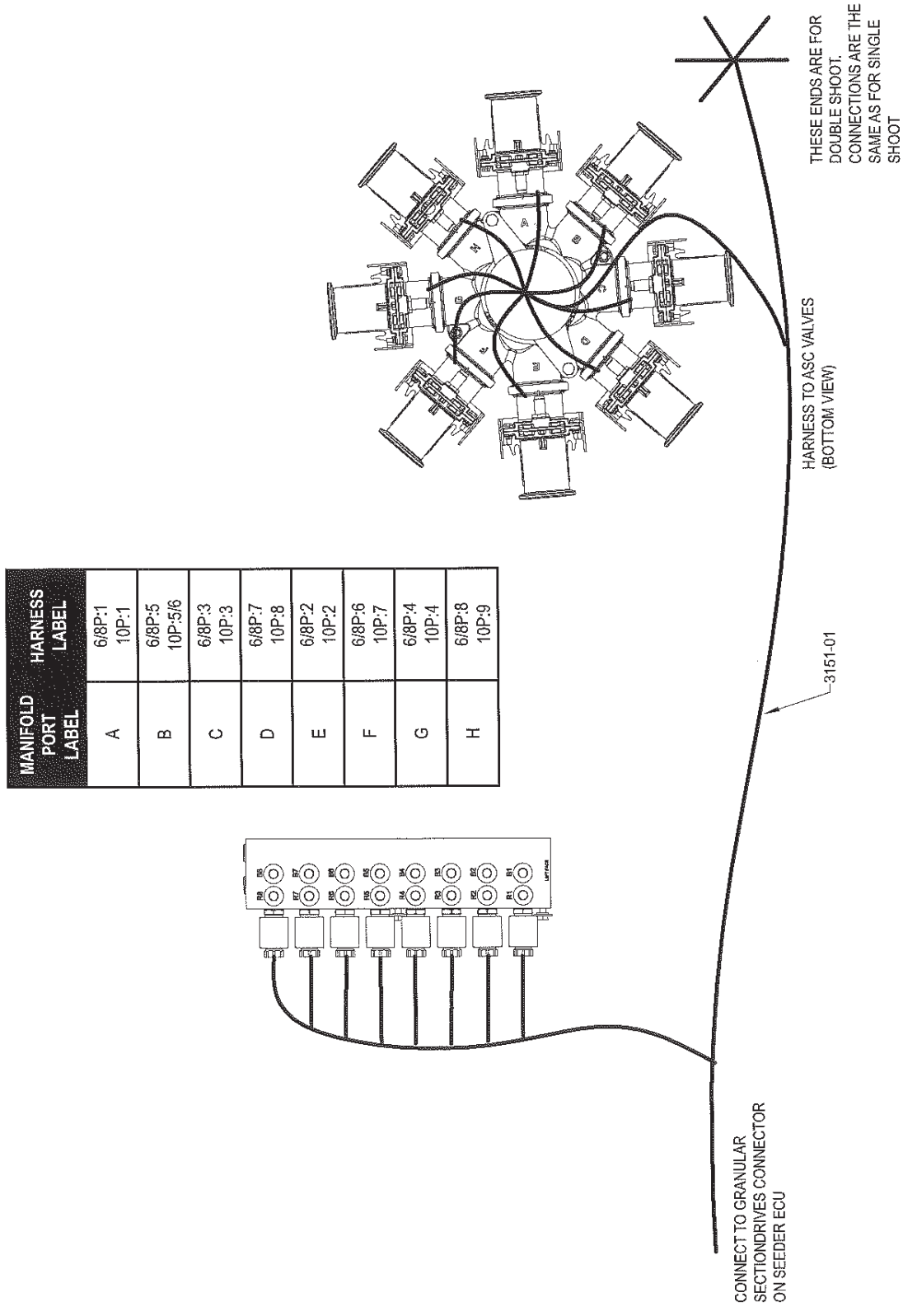


Figure 7.11 - Auto Section Control - 8 Ports

11.2.2.7 AUTO SECTION CONTROL - 10 PORTS

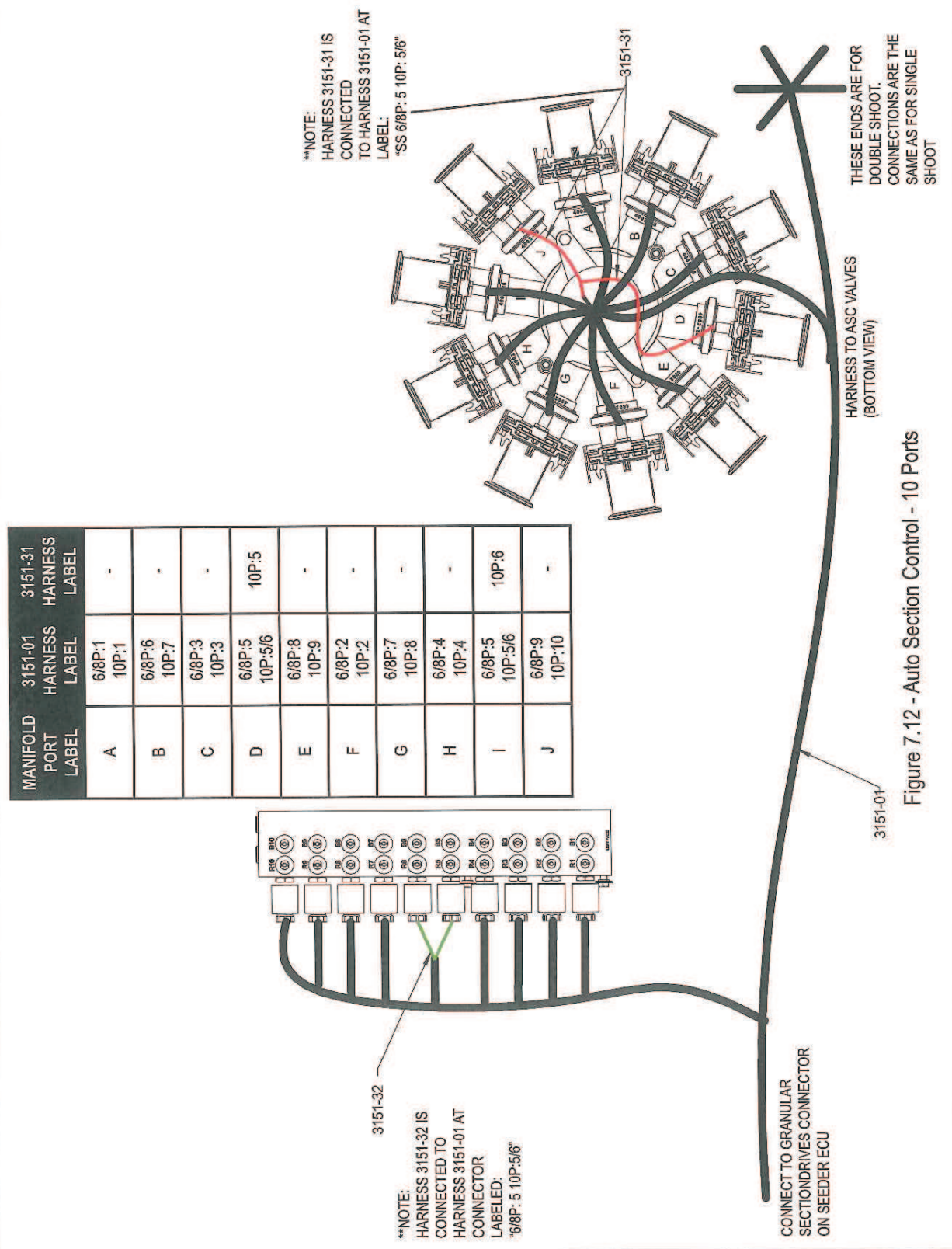
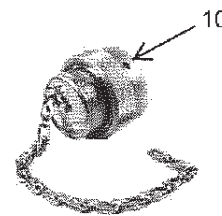
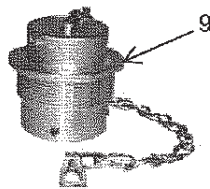
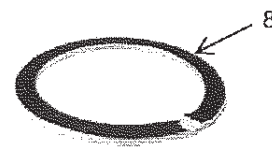
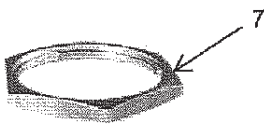
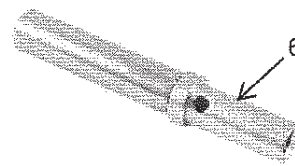
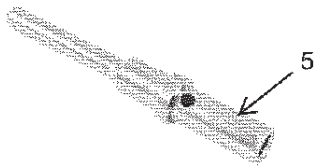
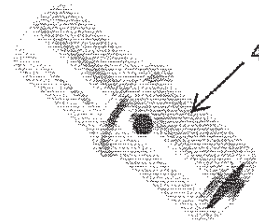
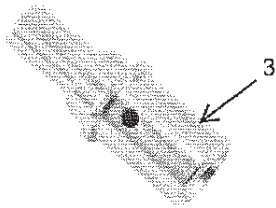
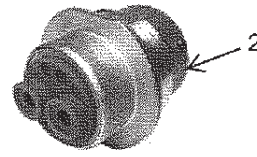
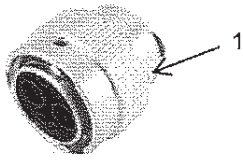


Figure 7.12 - Auto Section Control - 10 Ports

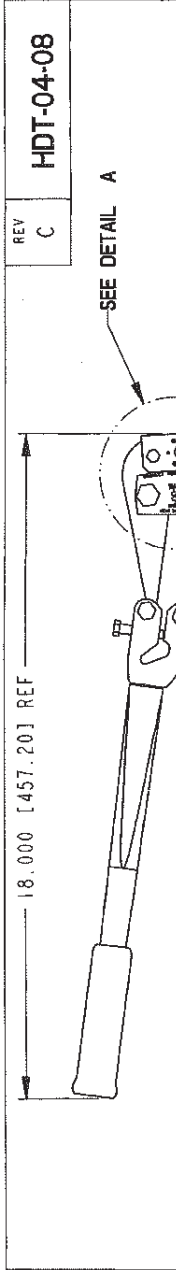
Bourgault [Mar. 1, 2013]/Product Information/Air Seeder Tanks/6000 Series AS/Parts Book/
Electronic Equipment/X20 Monitor & Clutch Layout/X20 Harness Replacement Components



Bourgault [Mar. 1, 2013]/Product Information/Air Seeder Tanks/6000 Series AS/Parts Book/
Electronic Equipment/X20 Monitor & Clutch Layout/X20 Harness Replacement Components

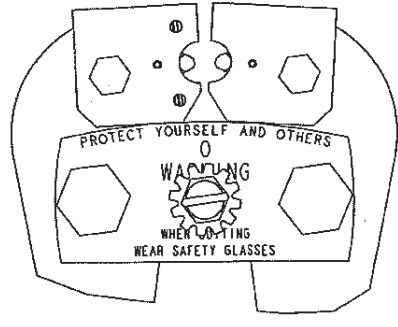
No.	Part No.	Qty.	Description
1	3140-86	*	PLUG DEUTSCH HD36 6 WIRE
2	3140-87	*	RECEPTACLE DEUTSCH HD34 6 WIRE
3	3140-88	*	PIN DEUTSCH SIZE 4 SOLID 6 AWG
4	3140-89	*	SOCKET DEUTSCH SIZE 4 SOLID 6 AWG
5	3140-90	*	PIN DEUTSCH SIZE16 SOLID 16-20GA
6	3140-91	*	SOCKET DEUTSCH SIZE16 SOLID 16-20GA
7	3140-92	*	NUT PANEL DEUTSCH 18 SHELL
8	3140-93	*	LKWSHR PANEL DEUTSCH 18 SHELL
9	3140-94	*	DUST CAP HD34 FOR PLUG W CHAIN
10	3140-95	*	DUST CAP HD36 FOR RECEPTACLE W CHAIN

REV		HDT-04-08	
SYM	DESCRIPTION	DATE	APPROVED
NC	NEW RELEASE PER E.O. 91185	3/12/81	T.H.
A	REVISED PER E.O. 95605	11/19/82	T.H.
B	REVISED AND REDRAWN PER E.O. P17840	7/25/02	R.D.R.
C	REVISED PER E.O. P19867	6-12-08	RDR



Bourgault part # 3140-96
Available through LADD Industries

SOLID CONTACT PART NUMBER	SIZE TYPE	WIRE SIZE AWG [mm ²]	RETAINER ASSY CRIMP TOOL	RECOMMENDED INS. STRIP LENGTH	"GO" GAGE	"NOGO" GAGE
5960-203-04** 5962-203-04**	4 PIN 4 SOC	4 [21.0]	0434-205-0400		.120 [3.05]	.130 [3.30]
112347 112350 0460-204-04141 0462-203-04141	4 PIN 4 SOC 4 PIN 4 SOC	6 [13.0]	0434-205-0400	.430-.492 [10.92-12.50]	.120 [3.05]	.130 [3.30]
112348 112351 0460-204-08141 0462-203-08141	8 PIN 8 SOC 8 PIN 8 SOC	8-10 [8.0-5.0]	0434-205-0800		.090 [2.29]	.100 [2.54]



DETAIL A

- 7. TOOL IS PREASSEMBLED WITH 0434-205-0400. 0434-205-0800 IS PACKAGED SEPARATELY WITH TOOL.
- 6. WIRE SIZES PER SAE J1128 AND J1560 (DIN 72551-6).
- 5. PROPER LOCATION OF CONTACT IN CRIMP TOOL WILL PRODUCE A CRIMP CENTERED BETWEEN THE INSPECTION HOLE AND CRIMP BARREL END.
- 4. FOR CONTACT PERFORMANCE, MATERIAL SPECIFICATIONS, AND APPLICATION DETAILS, SEE ENVELOPE DRAWING 0425-015-0000.
- 3. CAUTION: DO NOT CLOSE TOOL ON GAGES. CLOSE TOOL FIRST THEN INSERT GAGE PIN.
- 2. MINIMUM ±.0005 [0.13] TOLERANCE STEEL GAGE PINS.
- 1. DIMENSIONS ARE IN INCHES [mm].

8. WHEN ** = 31, CONTACT PLATING IS GOLD.
WHEN ** = 90, CONTACT PLATING IS NICKEL.

SIGNATURE & DATE		MATERIAL CODE	
DR	J. APOSTOL 17 JUN 2002	EP	3850 INDUSTRIAL AVE. HEMET, CA 92545
CHK	R. Mergerson 6/11/08		DEUTSCH INDUSTRIAL
PE	Paula Carraway 6/11/08		B HDT-04-08
APPD	D. Mergerson 6/11/08		CODE 11139
SCALE	NONE		SHEET 1 OF 1

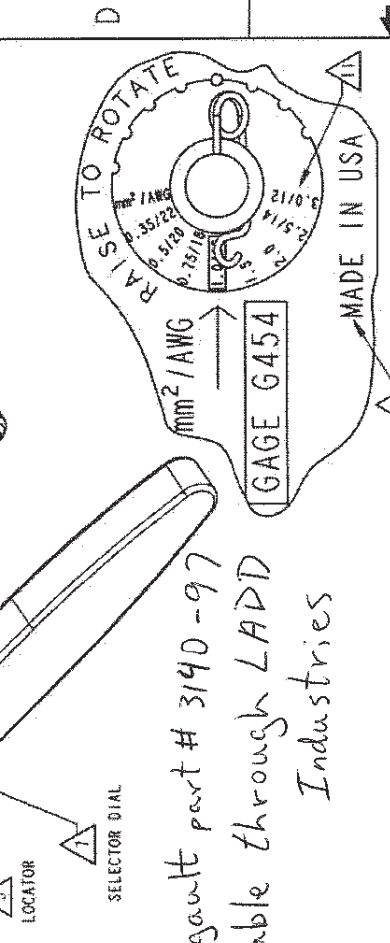
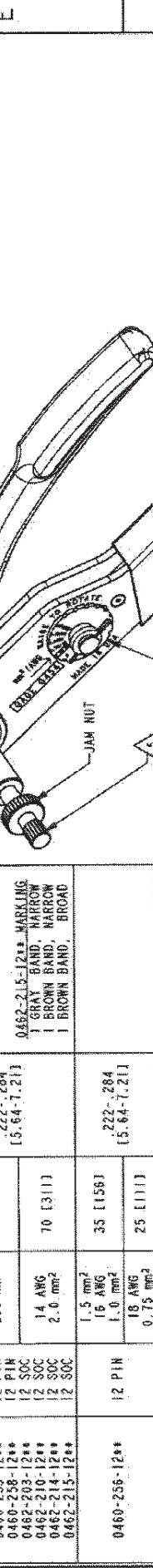
CRIMP TOOL
HD SERIES
ENVELOPE

NOTES: UNLESS OTHERWISE SPECIFIED

REV	DESCRIPTION	DATE	APPROVED
J	REVISED PER E.O. P19922	6-25-08	R.D.R.
K	REVISED PER E.O. P20130	2-3-09	R.D.R.
L	REVISED PER E.O. P20837	3-9-11	R.D.R.
M	REVISED PER E.O. P21299	4/13/12	DM

WIRE SIZE AWG (mm ²)	REF. ONLY CRIMP TENSILE (LBS IN)	RECOMMENDED STRIP LENGTH (INCH mm)	CONTACT IDENTIFICATION INFO & NOTES
12 AWG 3.0 mm ²	75 [334]	.222-.284 [5.64-7.21]	0462-215-12** MARKING 1 GRAY BAND, NARROW 1 BROWN BAND, NARROW 1 BROWN BAND, BROAD
14 AWG 2.0 mm ²	70 [311]		
1.5 mm ² 16 AWG 1.0 mm ² 18 AWG 0.75 mm ²	35 [156]	.222-.284 [5.64-7.21]	1 GREEN BAND, BROAD 1 GREEN BAND, BROAD
14 AWG 2.0 mm ²	70 [311]	.250-.312 [6.35-7.92]	
1.5 mm ² 16 AWG 1.0 mm ²	35 [156]		0460-002-1631 AND 0462-004-1631 MARKING 1 BLUE BAND, BROAD
18 AWG 0.75 mm ²	25 [111]	.250-.312 [6.35-7.92]	
20 AWG 0.50 mm ²	20 [89]		1 BLUE BAND, NARROW USE 2.0 mm ² DIAL SET
16 AWG 1.0 mm ²	35 [156]	.156-.218 [3.96-5.54]	
1.5 mm ² 16 AWG 1.0 mm ²	35 [156]	.117-.237 [4.49-6.02]	1 PURPLE BAND, BROAD
16 AWG 1.0 mm ²	20 [89]	.156-.218 [3.96-5.54]	
20 AWG 0.50 mm ²	20 [89]		SLOTTED (SPLIT) PIN
12 AWG 3.0 mm ²	75 [334]	.222-.284 [5.64-7.21]	
1.5 mm ² 16 AWG 1.0 mm ² 18 AWG 0.75 mm ²	35 [156]	.222-.284 [5.64-7.21]	SLOTTED (SPLIT) PIN
14 AWG 2.0 mm ²	70 [311]		
1.5 mm ² 16 AWG 1.0 mm ²	35 [156]	.222-.284 [5.64-7.21]	
18 AWG 0.75 mm ²	25 [111]	.250-.312 [6.35-7.92]	
20 AWG 0.50 mm ²	20 [89]		

SOLID CONTACT PART NUMBER	SIZE TYPE	WIRE SIZE AWG (mm ²)	REF. ONLY CRIMP TENSILE (LBS IN)	RECOMMENDED STRIP LENGTH (INCH mm)	CONTACT IDENTIFICATION INFO & NOTES
0460-204-12**	12 PIN	12 AWG	75 [334]	.222-.284	0462-215-12** MARKING 1 GRAY BAND, NARROW 1 BROWN BAND, NARROW 1 BROWN BAND, BROAD
0460-211-12**	12 PIN	3.0 mm ²			
0460-230-12**	12 PIN	2.5 mm ²			1 GREEN BAND, BROAD 1 GREEN BAND, BROAD
0460-258-12**	12 PIN	14 AWG	70 [311]		
0462-203-12**	12 SOC	2.0 mm ²			0460-002-1631 AND 0462-004-1631 MARKING 1 BLUE BAND, BROAD
0462-210-12**	12 SOC	1.5 mm ²	35 [156]	.222-.284	
0462-214-12**	12 SOC	16 AWG	25 [111]	.250-.312	1 BLUE BAND, NARROW USE 2.0 mm ² DIAL SET
0462-215-12**	12 SOC	1.0 mm ²	70 [311]	.250-.312	
0460-256-12**	12 PIN	1.5 mm ²	35 [156]		1 PURPLE BAND, BROAD
0462-209-16**	16 SOC	16 AWG	25 [111]	.156-.218	
0460-002-16**	16 PIN	1.5 mm ²	35 [156]		SLOTTED (SPLIT) PIN
0460-202-16**	16 PIN	16 AWG	20 [89]	.117-.237	
0460-230-16**	16 PIN	1.0 mm ²			SLOTTED (SPLIT) PIN
0460-235-16**	16 PIN	18 AWG	10 [44]	.156-.218	
0460-247-16**	16 PIN	16 AWG	75 [334]	.222-.284	
0462-004-16**	16 SOC	0.75 mm ²	70 [311]		
0462-007-16**	16 SOC	20 AWG	20 [89]		
0462-201-16**	16 SOC	16 AWG	35 [156]	.222-.284	
0462-214-16**	16 SOC	1.0 mm ²	70 [311]	.250-.312	
0462-221-16**	16 SOC	0.50 mm ²	20 [89]		
0462-222-16**	16 SOC	16 AWG	35 [156]		
0462-001-16**	16 SOC	1.0 mm ²	35 [156]	.117-.237	
0462-223-16**	16 SOC	1.5 mm ²	35 [156]	.156-.218	
0460-010-20**	20 PIN	1.00 mm ²	20 [89]		
0462-005-20**	20 SOC	18 AWG	20 [89]		
0460-202-20**	20 PIN	0.50 mm ²	20 [89]		
0462-201-20**	20 SOC	12 AWG	75 [334]	.222-.284	
112349	12 PIN	3.0 mm ²			
112352	12 SOC	2.5 mm ²			
0460-201-1690	16 PIN	1.5 mm ²	35 [156]	.222-.284	
0461-201-1690	16 SOC	16 AWG	25 [111]	.250-.312	
8960-025-12603	12 PIN	1.5 mm ²	35 [156]		
8962-014-12603	12 SOC	12 AWG	75 [334]	.222-.284	
8960-020-16603	16 PIN	3.0 mm ²			
8962-011-16603	16 SOC	2.5 mm ²			
		1.5 mm ²	35 [156]	.250-.312	
		16 AWG	25 [111]	.250-.312	
		1.0 mm ²			
		0.75 mm ²	20 [89]		
		0.50 mm ²	20 [89]		



Bourgault part # 3140-97
Available through LADD Industries

SOLID CONTACT PART NUMBER	SIZE TYPE	WIRE SIZE AWG (mm ²)	REF. ONLY CRIMP TENSILE (LBS IN)	RECOMMENDED STRIP LENGTH (INCH mm)	CONTACT IDENTIFICATION INFO & NOTES
4060-002-12**	12 PIN	12 AWG	75 [334]	.250-.312	3
4062-002-12**	12 SOC	3.0 mm ²		[6.35-7.92]	
4060-001-16**	16 PIN	1.5 mm ²	35 [156]	.240-.302	3
4062-001-16**	16 SOC	1.0 mm ²	25 [111]	[6.10-7.67]	

- USE 3.0/12 SETTING FOR THIS PART WITH 4.0mm².
- COUNTRY OF ORIGIN "MADE IN USA" SHOWN AS EXAMPLE.
- SEE 0425-071-0000 INSTRUCTION GUIDE, SHIPPED WITH TOOL.
- OVERALL TOOL LENGTH IS APPROXIMATELY 9.90 (251.46).
- CYCLE TOOL TO OPEN HANDLES, REMOVE LOCK CLIP, RAISE AND ROTATE DIAL TO SELECT WIRE SIZE, REPLACE LOCK CLIP.
- WHEN **=31, PLATING IS GOLD.
- WHEN **=141, PLATING IS NICKEL.

DEPTH ADJUSTING SCREW P/N 0425-209-0000 INCLUDES JAM NUT.

USE 2.5/14 SETTING FOR THIS PART WITH 12 AWG.

USE 1.5 SETTING FOR THIS PART WITH 14 AWG.

CAUTION: NEVER CLOSE TOOL ON GAGE G454. CLOSE TOOL FIRST AND THEN INSERT GAGE.

USE GAGE G454 IN DIAL POSITION 1.0/16 TO CHECK WEAR ANNUALLY. CHECK OFTEN IF USED FOR FREQUENT CRIMPING.

NOTES: UNLESS OTHERWISE SPECIFIED

SCALE NONE

SIGNATURE & DATE: J. Apostol 2/12/2007

DR: J. Apostol 2/12/2007

CHK: J. Apostol 2/12/2007

PK: J. Apostol 2/12/2007

APPD: J. Apostol 2/12/2007

TOOL: HAND CRIMP FOR SIZE 20, 16 & 12 SOLID CONTACTS

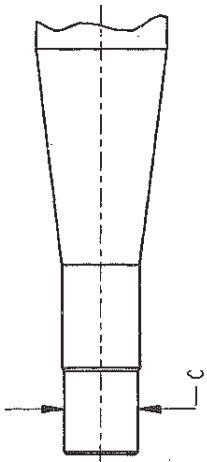
ENVELOPE

HDT-48-00

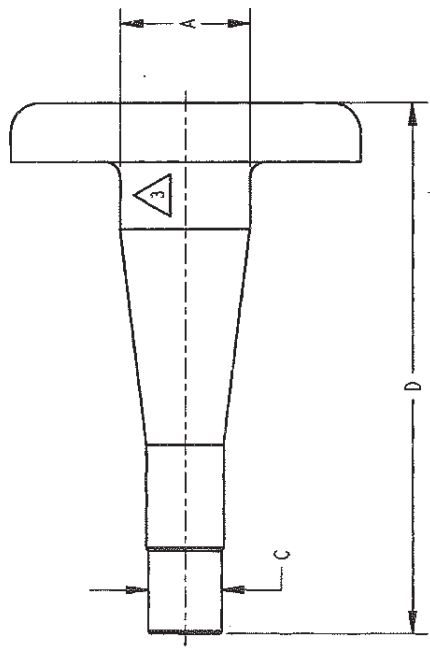
SHEET 1 OF 1

REV **D** **114008-114010**

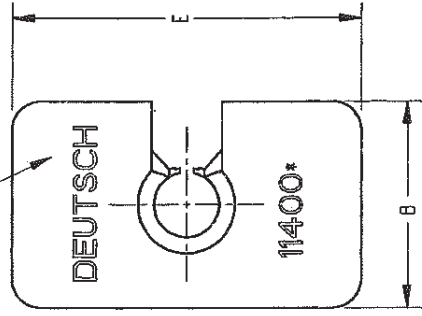
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
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B	REVISED PER E.O. 79792	5/19/75	M.K.
C	REVISED PER E.O. A6833	7/1/87	J.A.
D	REVISED/REDRAWN PER E.O. P17595	7-31-92	RDX



SIZE 8 CONFIGURATION



IDENTIFICATION LOCATION



PART NO.	SIZE	±.015 A	±.031 B	REF C	MAX D	±.031 E
114008	8	.555	.875	.314	2.250	1.500
114009	4	.740	.875	.435	3.100	1.500
114010	12	.350	.825	.202	2.300	1.250

IDENTIFICATION LOCATION OPTIONAL.

CONNECTOR APPLICATION:
THESE TOOLS ARE USED WITH HD SERIES CONNECTORS.

NOTES:
1. MATERIAL: PLASTIC. COLOR FOR SIZE 4 IS WHITE SIZE 8 IS GREEN AND SIZE 12 IS YELLOW.

PROBE - TOOL
EXTRACTION
SIZE 4, 8 AND 12

DR	X. SANCHEZ 23JAN02
CHK	<i>[Signature]</i> 1/3/02
PE	<i>[Signature]</i> 1-25-02
APPD	<i>[Signature]</i> 1-25-02
SCALE	NONE
WT	

CP

The Deutsch Company
 DEUTSCH I.P.D.
 3850 INDUSTRIAL AVE.
 HEWET, CALIF. 92345

B 114008-114010

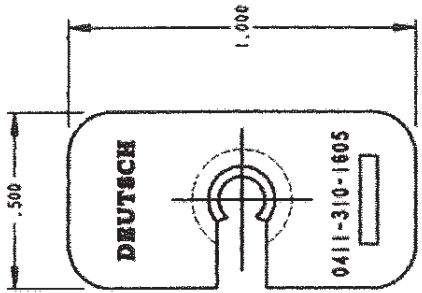
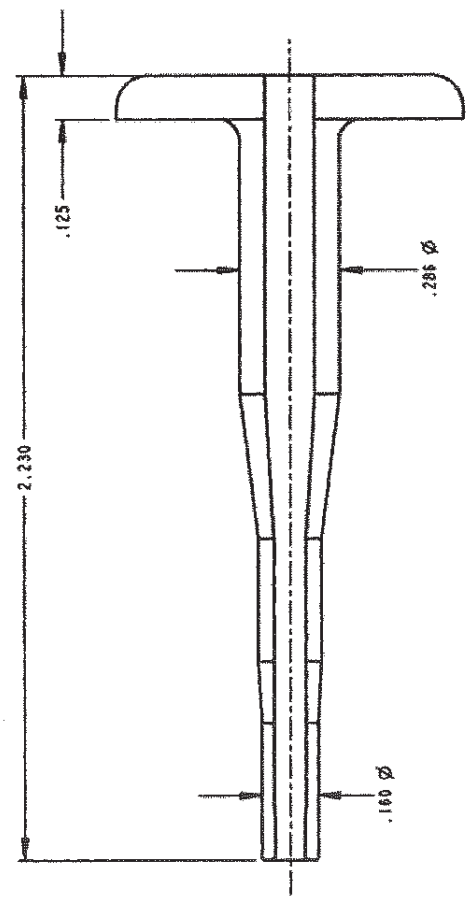
CODE 01139 SHEET 1 OF 1

ENVELOPE

REV A 0411-310-1605

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
NC	NEW RELEASE PER E.O. 11173	7/19/91	J.A.
A	REVISED PER E.O. 114876	7-27-98	R.A.R.



DR	C. WOODRUFF (S/JUL 91)
CHK	
PE	<i>Steve Bergman</i>
APPRO	
SCALE	NONE
WT	

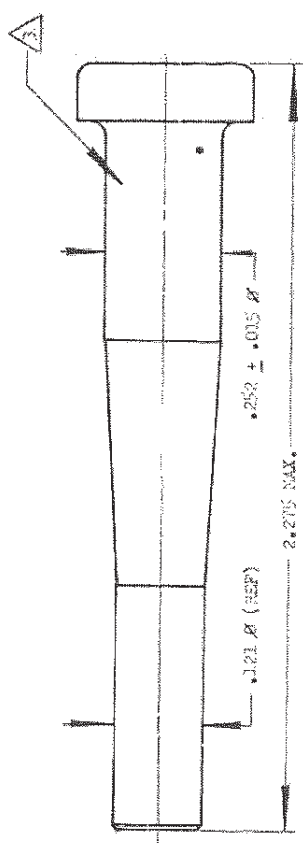
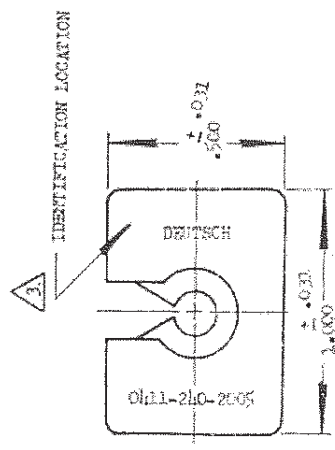
PROBE TOOL
EXTRACTION
SIZE 16
REDUCED WIRE SEAL
ENVELOPE

CP	ENT. CONT.
The Deutsch Company DEUTSCH I. P. D. 37140 INDUSTRIAL AVE. HENET, CALIF. 92343	
B	0411-310-1605
PRO. FILE	CODE 11139
	SHEET 1 OF 1

- NOTES:
1. ALL DIMENSIONS ARE IN INCHES.
 2. ALL DIMENSIONS ARE FOR REFERENCE ONLY.
 3. MATERIAL: PLASTIC, LIGHT BLUE.

REVISIONS		
SYM	DESCRIPTION	DATE
N/C	NEW RELEASE PER E.O. 9333D	10-15-82
A	REVISED PER E.O.A 6838	7-16-83

A 0411-210-2005



SIGNATURE & DATE		DATE	
<i>Jim Sprall 10-15-82</i>		10-15-82	
DR	CHK	CP	MATL. SCALE
APPR	SCALE	The Deutsch Company ELECTRON COMPONENT DIVISION Burbank, California	
		0411-210-2005	
		SIZE	SHEET 1 OF 1

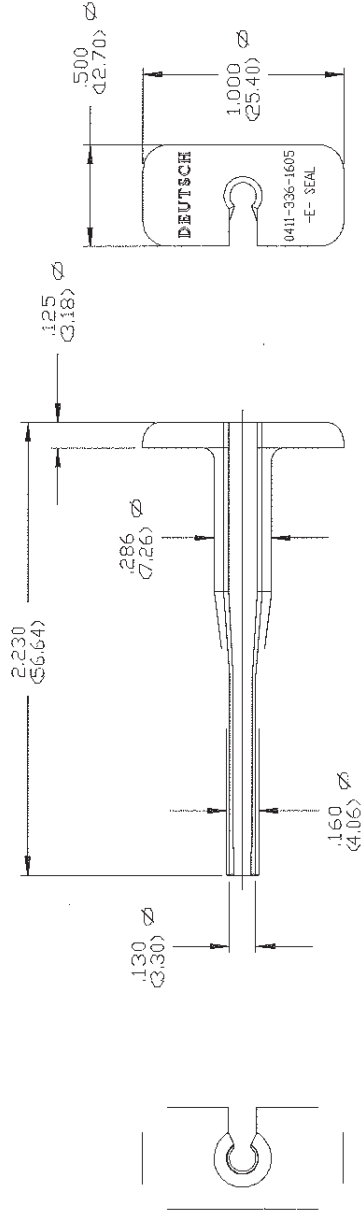
PROJ. TOOL
EXTRACTION
DIE# 30
ENVELOPE
SEP 19 2002

NOTE: 1. MATERIAL: PLASTIC, RED. (A)
2. IDENTIFICATION LOCATION OPTIONAL.
3. CARTRIDGE APPLICATION:
THIS TOOL IS USED WITH RD SERIES CARTRIDGES.

REV	SYM	DESCRIPTION	DATE	APPROVED
NC		NEW RELEASE PER E.O. 14176	7-1-94	R.D.R.

REV 0411-336-1605

REVISIONS



DR	CHK	FE	APPD	SCALE	INCHES	MM
C. WOODRUFF			R. REED	7-1-94	NONE	MT
SIGNATURE & DATE						
C. WOODRUFF 16-JUN-94						
C. WOODRUFF						
7-1-94						

CP	MAIL CODE
The Deutsch Company	
DEUTSCH I.P.D.	
37140 INDUSTRIAL AVE.	
HEMET, CALIF. 92343	
B	0411-336-1605
DWG. SHEET	CODE
	11139
	SHEET 1 OF 1

PROBE TOOL
EXTRACTION
SIZE 16
REDUCED 'E' SEAL

ENVELOPE

- NOTES:
1. ALL DIMENSIONS ARE IN INCHES (METRIC).
 2. ALL DIMENSIONS ARE FOR REFERENCE ONLY.
 3. MATERIAL: PLASTIC, MEDIUM BLUE