

HINIKER
ELECTRONIC PRODUCTS
PARTS BOOK

PART NUMBER 39300034 Rev. A

HINIKER

ELECTRONIC PRODUCTS

SECTION 1:

8160 CONTROL SYSTEM

SYSTEM DIAGRAMS
CONSOLE & MOUNTING HARDWARE
WIRING
OPTIONAL EQUIPMENT

SECTION 2:

8605 CONTROL SYSTEM

SYSTEM DIAGRAMS
CONSOLE & MOUNTING HARDWARE
WIRING
OPTIONAL EQUIPMENT

SECTION 3:

8200 MONITORING SYSTEM

SYSTEM DIAGRAMS
CONSOLE & MOUNTING HARDWARE
REMOTE RUN/HOLD SWITCH

SECTION 4:

FLOWMETER / VALVES

COMPATIBILITY CHART
HM860
MVR30/MVR50
1 1/4" M/F STEPPER SERVO VALVE
1" STEPPER SERVO VALVE
1 1/4" M/F SERVO VALVE, 3-WIRE
1 1/4" M/F SERVO VALVE, 2-WIRE
1" & 3/4" SERVO VALVES, 3-WIRE

SECTION 5:

SPEED SENSORS

GPS SPEED SENSOR
RADAR INTERFACE MODULES
HUB PLATE SENSORS
MAGNETIC TYPE SENSOR
TRANSMISSION SENSORS

SECTION 6:

HEAT EXCHANGERS

HEAT EXCHANGER 2007-PRESENT PAINTED WHITE
HEAT EXCHANGER MOUNTING PACKAGE 2007-PRESENT
NH3 CONVENIENCE PLUMBING PACKAGE
STRIP-TILL NH3 PLUMBING PACKAGE
HI-CAPACITY DUAL HEAT EXCHANGER PACKAGE
HEAT EXCHANGER PRE 2007 SILVER-GRAY, EXTERNAL TIE BOLT MODEL
HEAT EXCHANGER PRE 1984 SILVER-GRAY, INTERNAL TIE BOLT MODEL
8088 NH3 INSTALLATION KIT

SECTION 7:

SPECIALTY WIRING

SECTION 8:

8100/8150 CONTROL SYSTEMS
CONSOLE & MOUNTING HARDWARE
SYSTEM WIRING DIAGRAMS
OPTIONAL WIRING

SECTION 9:

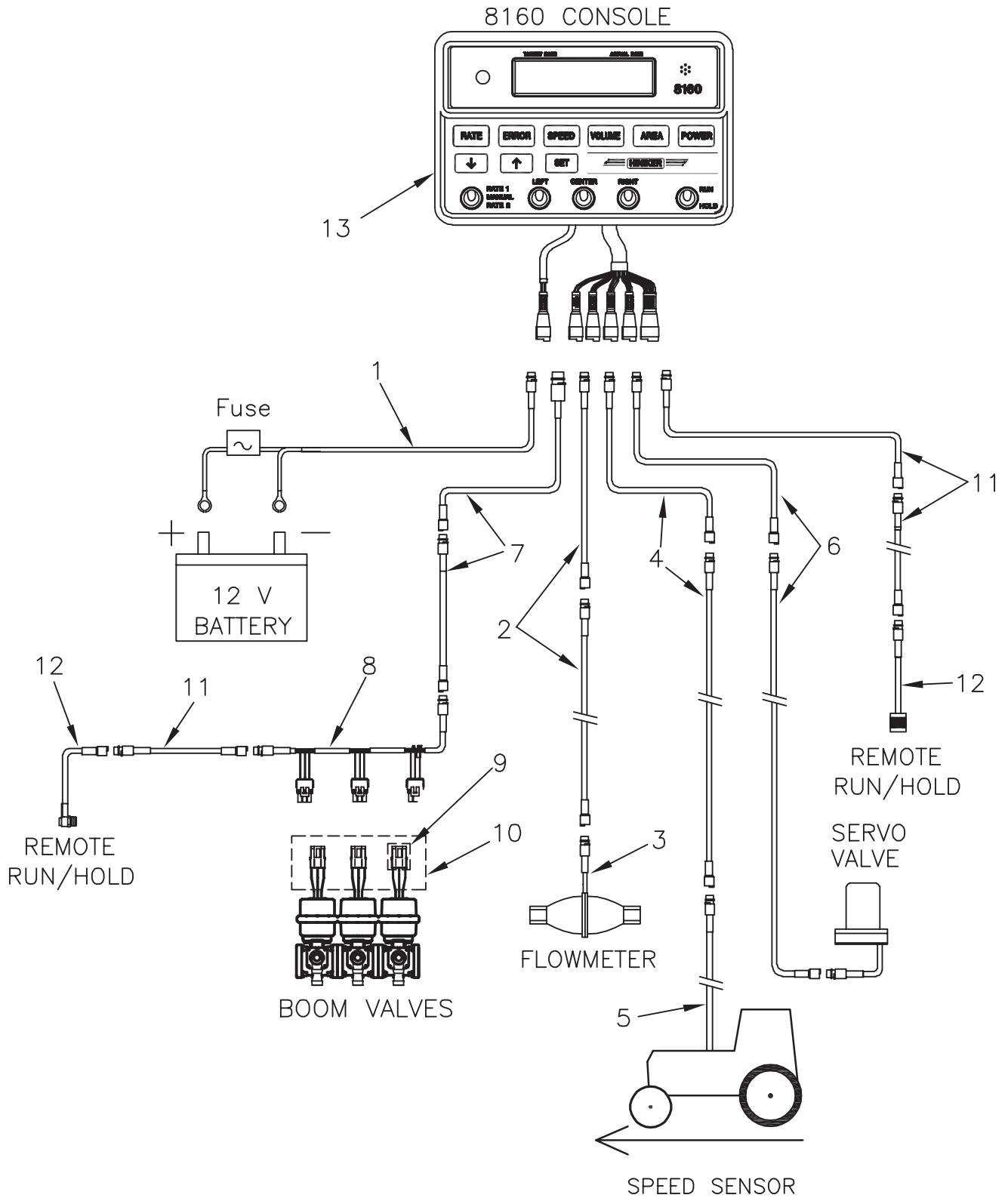
MISCELLANEOUS

WIRING CROSS REFERENCE
FIELD TESTERS
MANUALS/INSTRUCTION SHEETS
MISCELLANEOUS

8160 CONTROL SYSTEM

INDEX.....	1
SYSTEM DIAGRAM	2-3
CONSOLE AND MOUNTING HARDWARE	3
WIRING	4
OPTIONAL EQUIPMENT.....	5-8

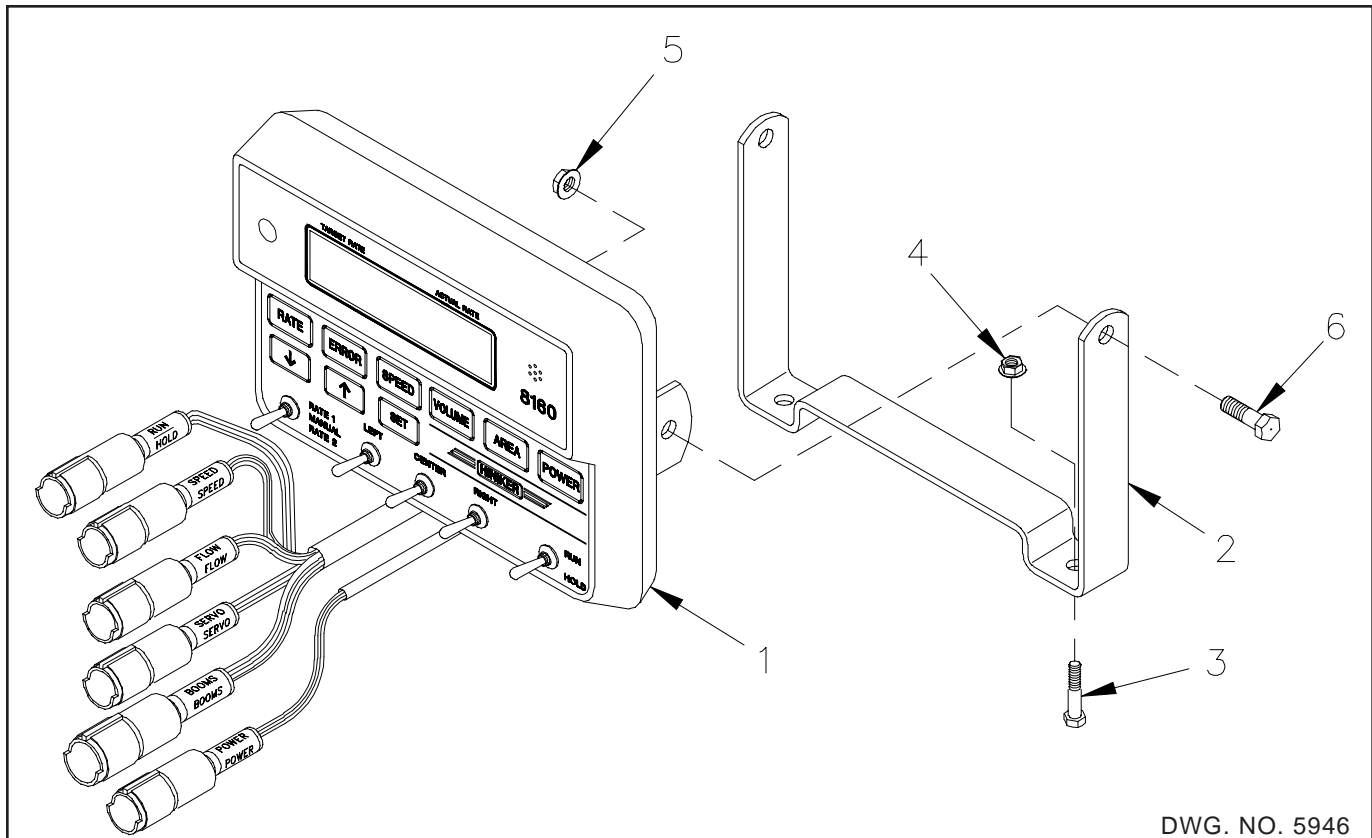
8160 CONTROL SYSTEM



8160 CONTROL SYSTEM

SECTION 1

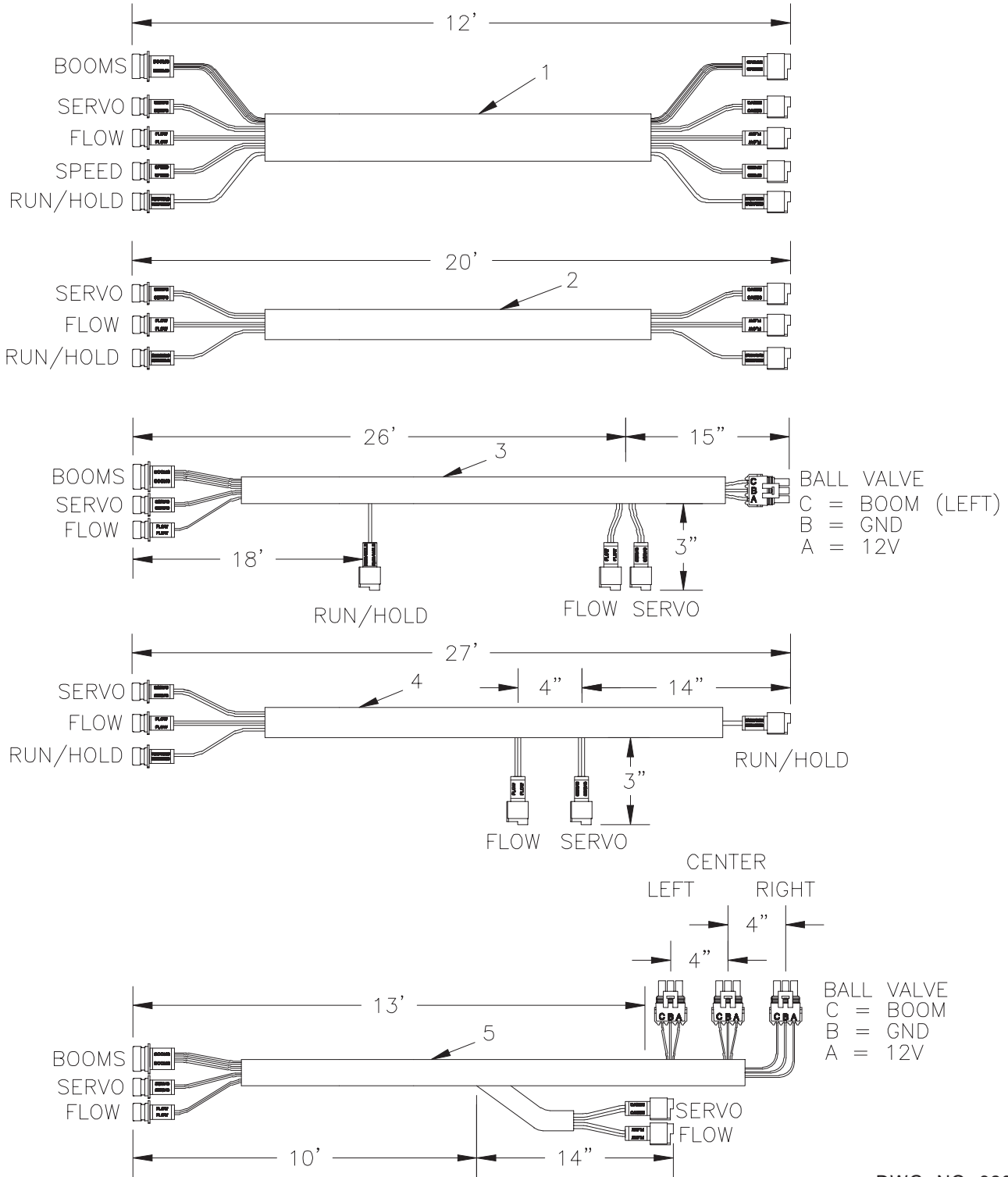
REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	388-003-042 38815023	15 Ft. 3 Conductor Battery Cable With Fuse 6 Ft. 3 Conductor Battery Cable W/Amp Convenience Plug For In-Cab Connection	1 1	9	36028004	3-Pin Mating Weatherpack Connector (Single) Includes Connector Housing, 3 Terminals And 3 Seals	A/R
2	38816008 388-003-004 388-003-008	6 Ft. 3 Conductor Flowmeter Extension Cable 10 Ft. 3 Conductor Flowmeter Extension Cable 20 Ft. 3 Conductor Flowmeter Extension Cable	A/R A/R A/R	10	36015006	3-Pin Mating Weatherpack Connector W/Wires Kit Of 3	A/R
3	363-004-010	HM860 Flowmeter Sensor	1	11	38816012	6 Ft. 2 Conductor Run/Hold Extension Cable	A/R
4	38816011 388-003-003 388-003-020	6 Ft. 3 Conductor Speed Extension Cable 10 Ft. 3 Conductor Speed Extension Cable 20 Ft. 3 Conductor Speed Extension Cable	A/R A/R A/R	12	38815018	10 Ft. 2 Conductor Run/Hold Extension Cable	A/R
5		See Speed Sensor Section	1	13	38815020	20 Ft. 2 Conductor Run/Hold Extension Cable	A/R
6	38816009 388-003-040 388-003-041	6 Ft. 3 Conductor Servo Extension Cable 10 Ft. 3 Conductor Servo Extension Cable 20 Ft. 3 Conductor Servo Extension Cable	A/R A/R A/R		383-101-007	N/C Switch W/12 Inch 2-Pin Plug	1
7	38815026 38815015 38815016	6 Ft. 7 Conductor Boom Extension Cable 10 Ft. 7 Conductor Boom Extension Cable 20 Ft. 7 Conductor Boom Extension Cable	A/R A/R A/R		38815019	N/C Switch Only	1
8	38815017	7 Conductor Boom Harness W/Connectors	1		36015005	Proximity Sensor W/12 Inch 2-Pin Plug	1
	8167	Boom Cable Kit Includes 10 Ft. And 20 Ft. Boom Cables (Item 7), Boom Harness (Item 8) And Valve Connectors (Item 10)			8169	8160 Console Only	1
						8160 Console, Manual, And 7 To 4-Pin Boom Adapter. Replaces Spray Commander, 8100 Or 8150 Console. Use Existing Wiring	1
					38815014	(Not Shown) 7-Pin To 4-Pin Boom Cable Adapter. Required When Using Spray Commander, 8100 Or 8150 Wiring	1
					393-002-089	(Not Shown) Cable Decal Kit: 4 Each; Speed, Flow, Boom, Run/Hold, Servo 2 Each; Power, 1 Each; Bat (-), Left, Center, Right	



REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	36015005	8160 Console Assembly	A/R	5	951-002-002	Lock Nut 5/16-18 Whiz Lock	2
2	365-004-004	Console Mounting Bracket	1	6	950-002-006	Lock Bolt 5/16-18 x 3/4 Whiz Lock	2
3	950-002-004	Lock Bolt 1/4-20 x 1 Whiz Lock	2		363-006-007	Console Mounting Bag (Includes Items 2, 3, 4, 5, 6)	A/R
4	951-002-001	Lock Nut 1/4-20 Whiz Lock	2				

8160 CONTROL SYSTEM

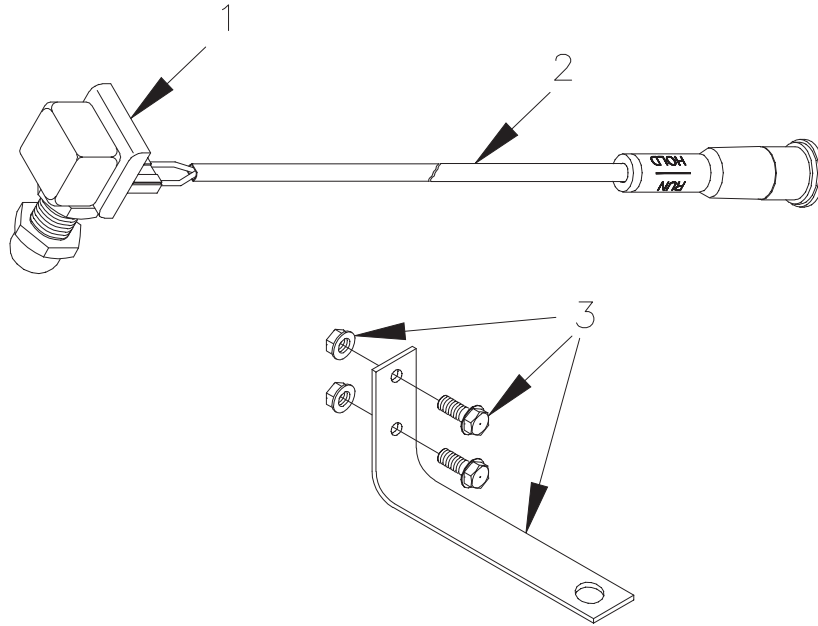
8160 WIRING



DWG. NO. 6291

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	38815024	8160 Tractor Harness 12' Inc. Servo, Flow, Boom, Speed, Run/Hold	A/R	4	38817002	8160 NH3 Strip-Till Harness Inc. Servo, Flow & Run/Hold (NH3 Applications)	A/R
2	38817001	8160 Tractor Harness 20' No Boom Or Speed Connections (NH3 Applications)	A/R	5	38811009	8160 HD Sprayer Harness Inc. Servo, Flow, 3 Boom Connectors For Ball Valves. No Speed Or Run/Hold	A/R
3	38815025	8160 Liquid Strip-till Harness Inc. Servo, Flow, Run/Hold And 1 Boom Connection For A Single 628140 Ball Valve	A/R				

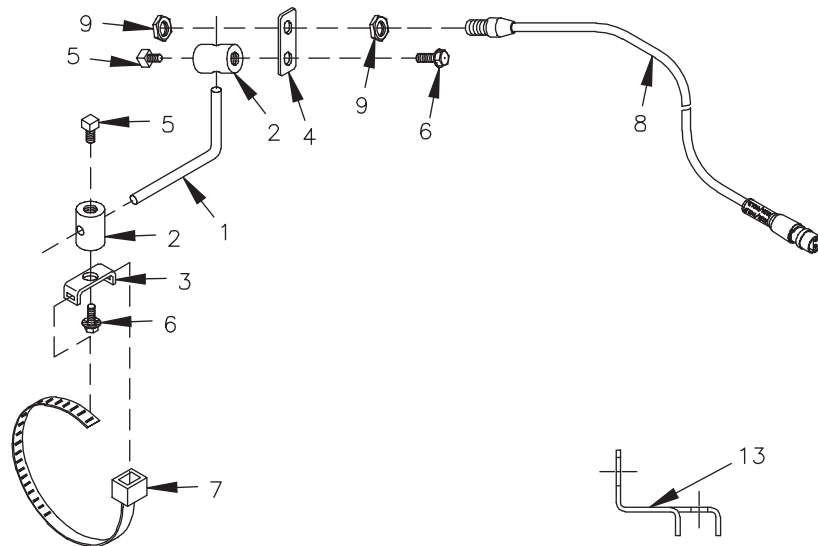
REMOTE RUN/HOLD SWITCH



DWG. NO. 6293

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	383-101-007	Normally Closed Switch	A/R	5	388-003-006	10 Ft. 2 Conductor Run/Hold Extension Cable	A/R
2	38815020	12" Remote Run/Hold Cable Normally Closed Switch	A/R	6	38815018	20 Ft. 2 Conductor Run/Hold Extension Cable	A/R
3	363-004-005	Remote Run Hold Mount Assembly	A/R		8166	Run/Hold Kit With 10 Ft. & 20 Ft. Cables	A/R
4	38816012	6 Ft. 2 Conductor Run/Hold Extension Cable	A/R			(Includes 2, 3, 5, 6)	

PROXIMITY SENSOR REMOTE RUN/HOLD

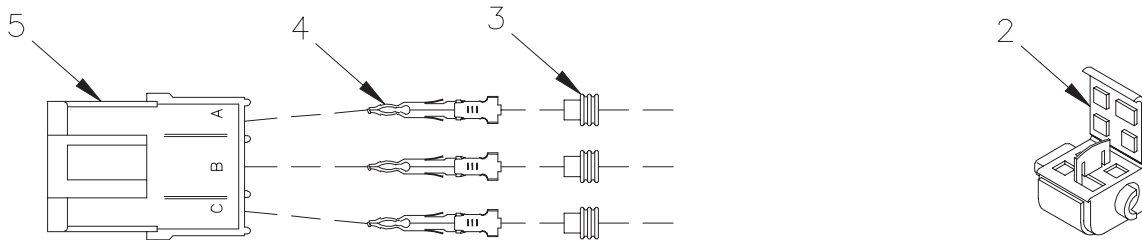
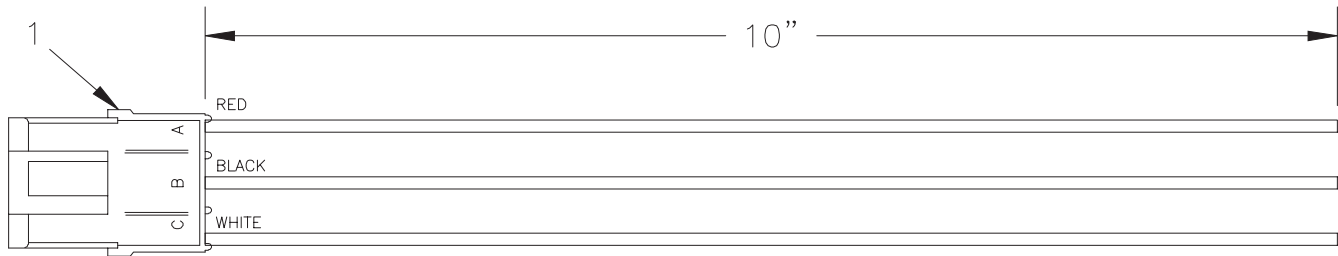


DWG. NO. 6616

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
	363-003-030	Universal Sensor Mount Kit (Includes Items 1-7)	1	8	38815019	Proximity Sensor 12" 2-Pin (Includes 2 Nuts)	1
1	360-000-192	3/8 Inch Diameter 90 Degree Rod	1	9	367-001-007	Nylon Nut	A/R
2	360-000-193	Connector Sleeve	2	10	38816012	6 Ft. 2 Conductor Run/hold Extension Cable	2
3	360-000-194	Mount Bracket	1	11	388-003-006	10 Ft. 2 Conductor Run/hold Extension Cable	A/R
4	360-000-195	Sensor Mount	1	12	38815018	20 Ft. 2 Conductor Run/hold Extension Cable	A/R
5	950-008-002	Square Head Set Screw 3/8-16 x 1/2	2	13	36515015	Run Hold Bracket For Continental R-9590 Hyd Shut-Off	A/R
6	950-002-008	Whiz Lock Bolt 3/8-16 x 3/4	2		8168	Run/hold Kit With 10 Ft. & 20 Ft. Cables	1
7	958-025-004	4 Inch Hose Clamp	1			(Includes 1-9 & 11-12)	

8160 CONTROL SYSTEM

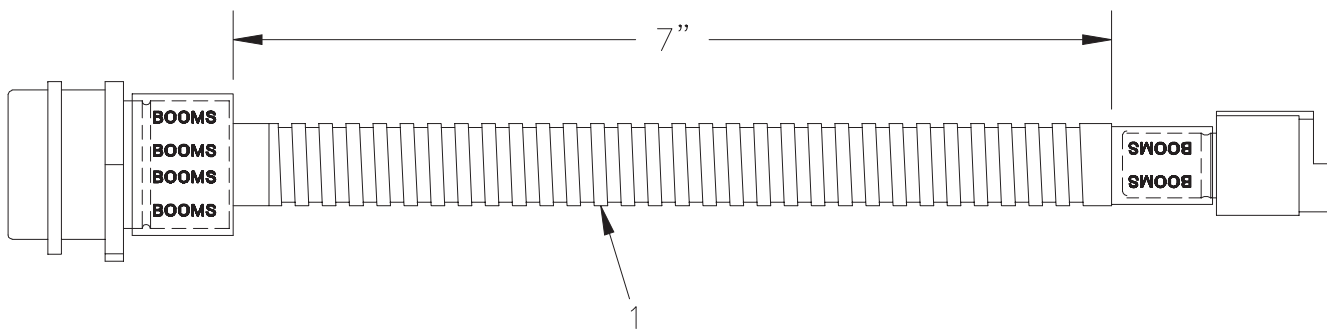
BALL VALVE PIGTAIL KIT



DWG. NO. 6294

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	36015006	Ball Valve Pigtail Kit Includes Three 3-wire Connector Assy And Ten Sealed Wire Tap Connectors (Item 2)	A/R	4	38601222	Terminal, Male 14-16 Ga	3
2	38610104	Sealed Wire Tap Connector	10	5	38472318	Weatherpack Connector 3-Pin Shroud	1
3	386-101-003	Cable Seal	3	6	36028004	Connector Kit, 3-Pin Weatherpack (Includes Items 3,4,5)	A/R

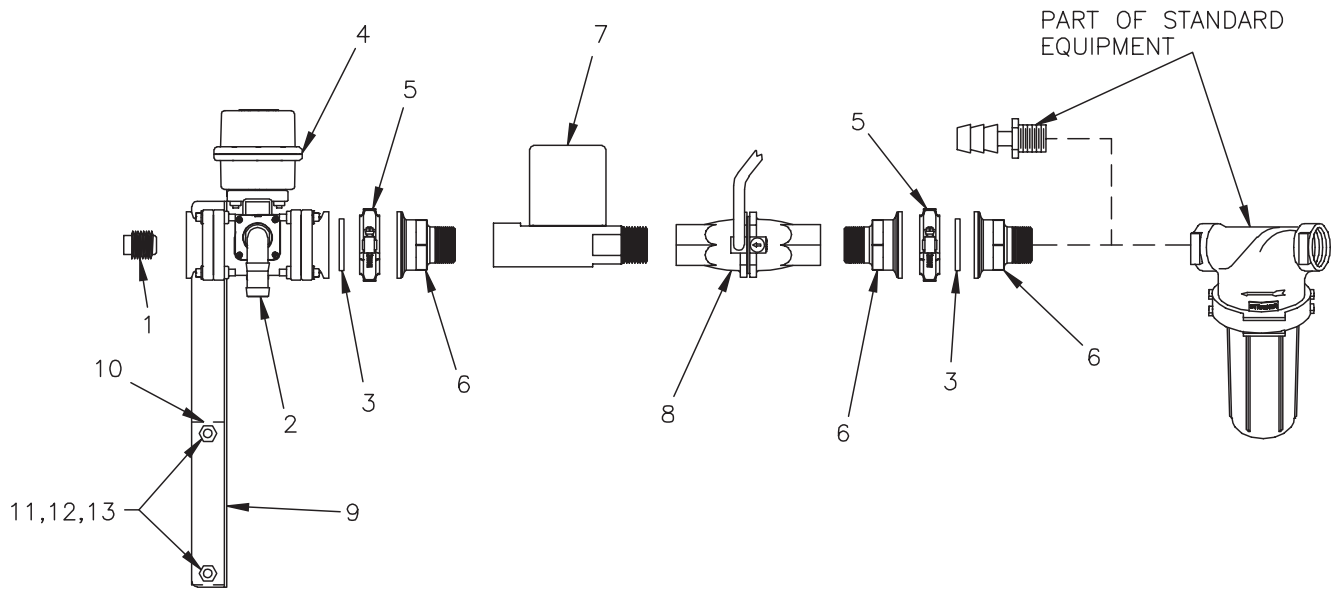
8100 AND 8150 REPLACEMENT CONSOLE ADAPTER



DWG. NO. 6295

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
	8169	8100 Series Replacement Console Kit (Includes 8160 Console, Manual, And 7-pin To 4-pin Boom Cable Adapter). This Kit Uses The Existing Wiring Of 8150, 8100 Or Spray Commander Systems.		1	38815014	7-Pin To 4-Pin- Boom Cable Adapter	A/R

8160 LIQUID CONTROL, STRIP-TILL

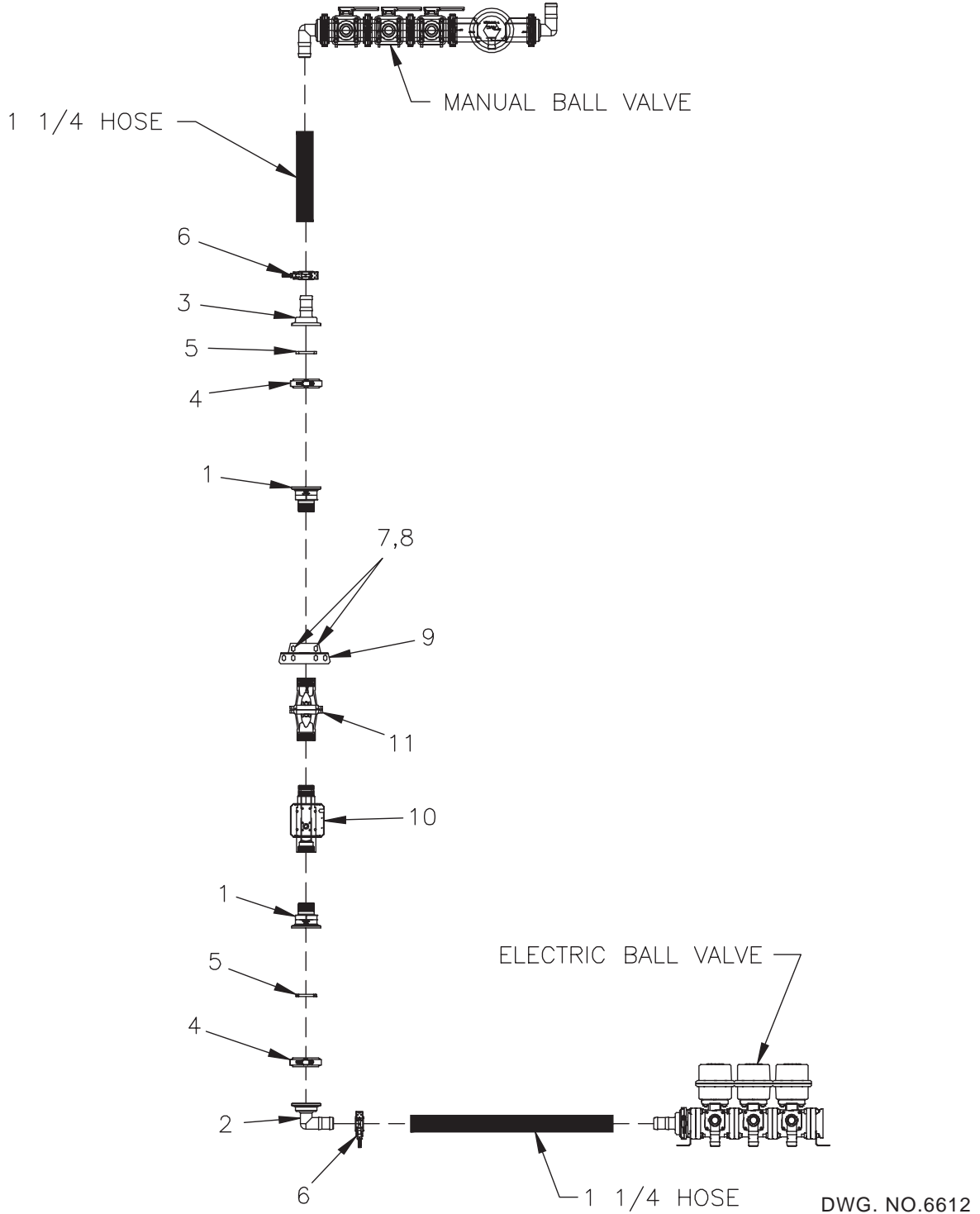


DWG. NO.6064

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	612920	Square Head Plug 3/8 NPT Square Head	1	10	81005161	Strap	1
2	628051	Hose Barb 1" 90 Degree Assembly	1	11	950-001-209	Hex Head Cap Screw 3/8-16 x 5 Gr. 5	2
3	627778	Gasket EPDM #200G	2	12	951-001-005	Hex Nut 3/8-16	2
4	628140	Ball Valve	1	13	952-001-007	Lock Washer 3/8 Med Split SAE	2
5	627767	Flanged Clamp	2		39308086	Instruction Sheet	1
6	627905	2" Flange x 1 1/4 NPT Con	3		81005490	Liquid Plumbing Kit Includes Items 1-3, 5-6, 10-13	A/R
7	36015010	2 Wire Servo 1 1/4 MF	1		81005536	Complete 8160 Liquid Control System. Includes All Above Plus 8160 Console Kit, GPS Speed Sensor, Remote Run/Hold, And Wiring	
8	363-004-025	Flowmeter Assembly	1				
9	81005589	Valve Mount Bracket	1				

8160 CONTROL SYSTEM

8160 LIQUID KIT FOR HD SPRAYERS



DWG. NO.6612

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	627905	2" Flange x 1 1/4 Npt Connection	2	10	36015010	2-Wire Servo 1 1/4 M/F	1
2	628121	Flange x 1 1/4 NPT 90 Degree Hose Barb	1	11	363-004-025	HM860 Flowmeter Assembly	1
3	628126	Flange x 1 1/4 NPT Hose Barb	1	12	8161	8160 Console Kit (Not Shown)	1
4	627767	Flange Clamp #FC200	2	13	38815024	8160 Tractor Harness (Not Shown)	1
5	627768	Flange Gasket #150G	2	14	38811009	8160 HD Sprayer Harness (Not Shown)	1
6	628133	T-Bolt Clamp Banjo #TC-162	2	15	8614	GPS Speed Sensor Kit (Not Shown)	1
7	950-002-007	Hex Head Flanged Whiz Lock Bolt 5/16-18 x 1	2	16	39308083	Instruction Sheet (Not Shown)	1
8	951-002-011	Hex Flanged Whiz Lock Nut 5/16-18 SS	2		628156	8160/8605 HD Plumbing Kit (Includes 1-8)	A/R
9	36016006	HM860 Mount Kit	1		628249	8160 Rate Control Package (Includes Items 1-16)	A/R

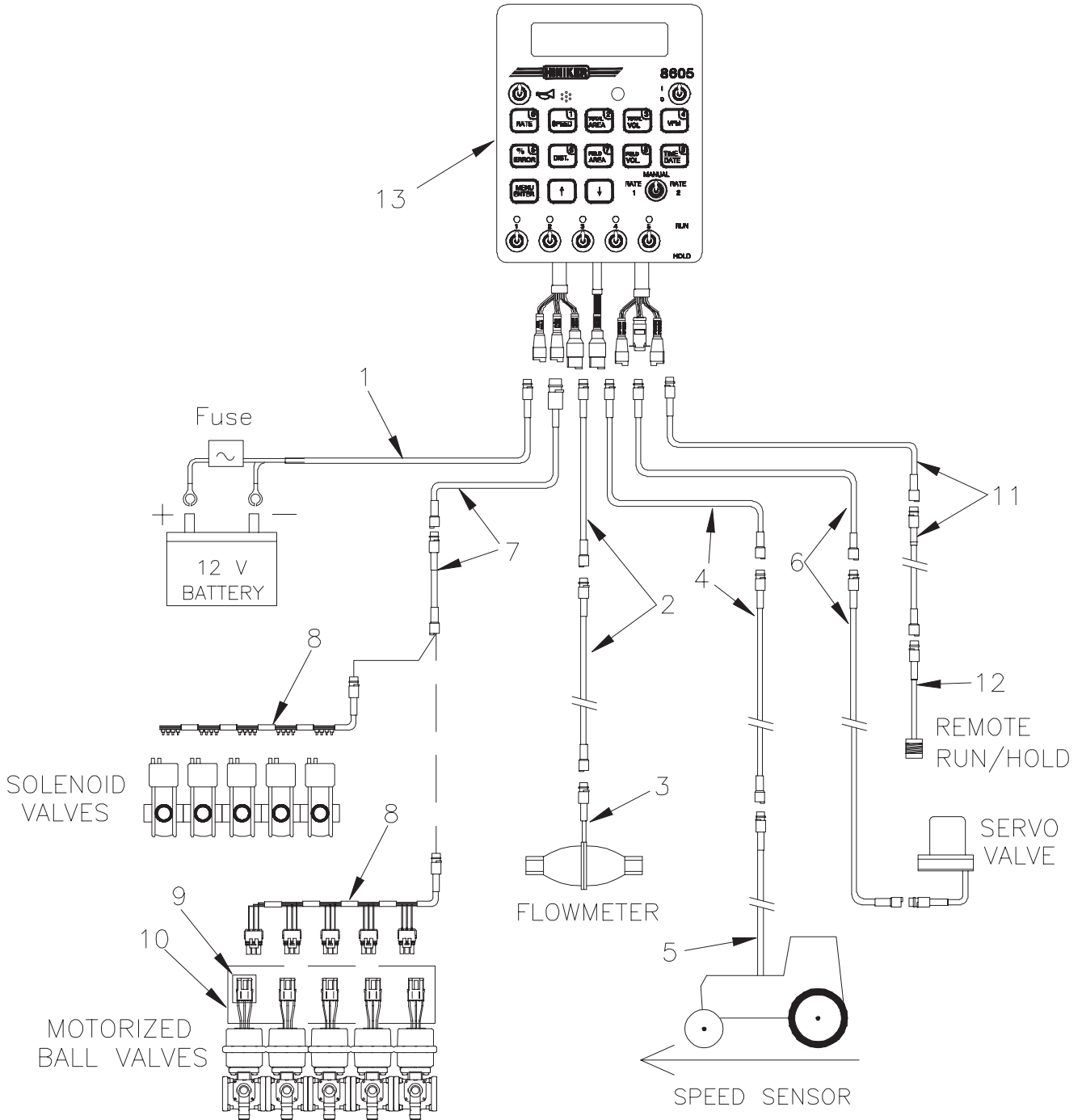
8605 CONTROL SYSTEM

INDEX..... 1
SYSTEM DIAGRAM2-3
CONSOLE AND MOUNTING HARDWARE3
WIRING4
OPTIONAL EQUIPMENT.....5-9

8605 CONTROL SYSTEM

SEC 2

8605 CONSOLE

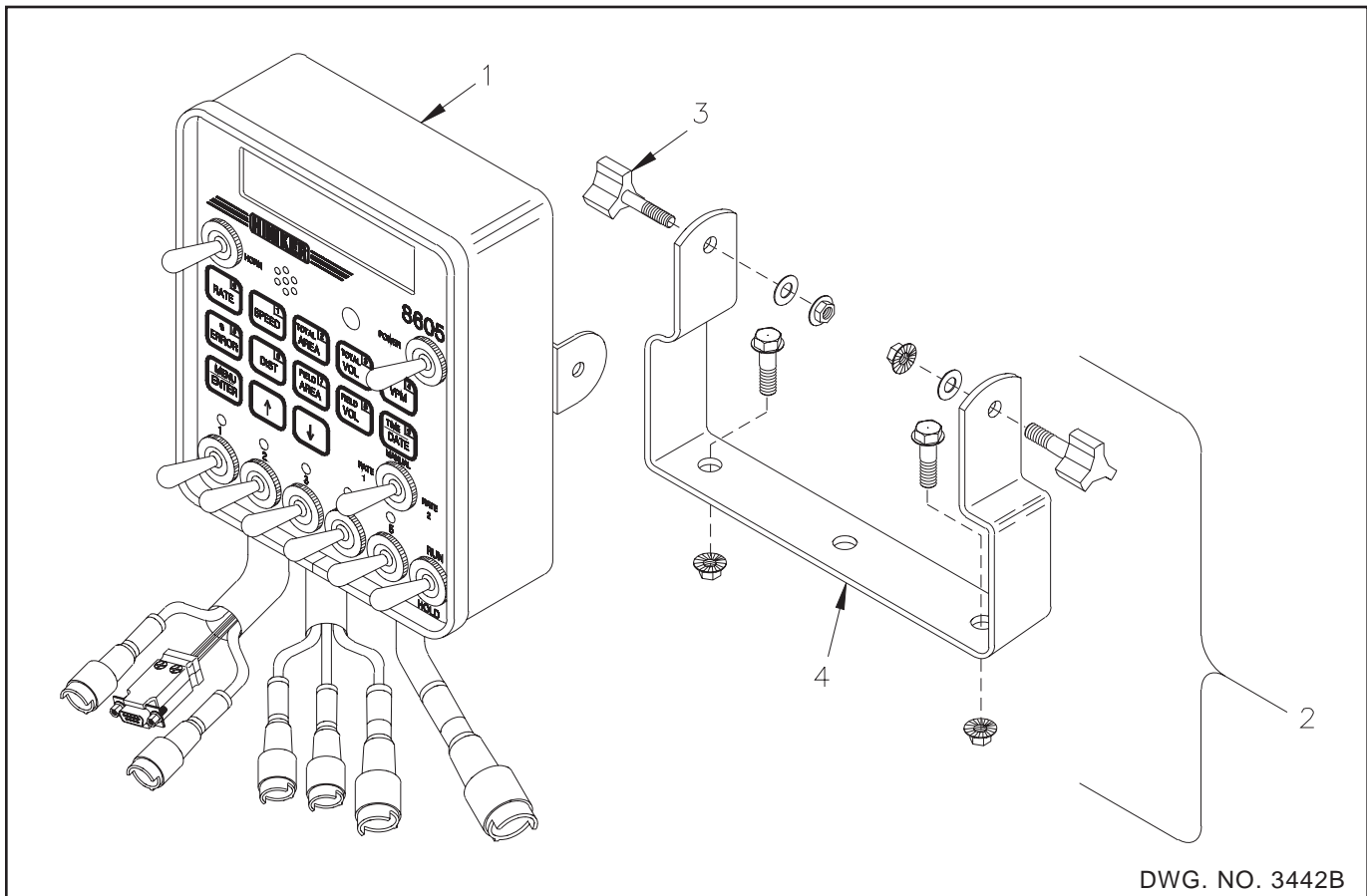


DWG. NO. 6296

8605 CONTROL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	38816001	20 Ft. 4 Conductor Battery Cable With Fuse	1	10	36015006	3 Pin Matting Weatherpack Connector W/Wires (Kit Of 3)	A/R
	38816002	6 Ft. 4 Conductor Battery Cable W/AMP Convenience Plug For In-Cab Connection	1	11	38816012	6 Ft. 2 Conductor Run/Hold Extension Cable	A/R
2	38816008	6 Ft. 3 Conductor Flowmeter Extension Cable	A/R		388-003-006	10 Ft. 2 Conductor Run/Hold Extension Cable	A/R
	388-003-004	10 Ft. 3 Conductor Flowmeter Extension Cable	A/R	12	38815018	20 Ft. 2 Conductor Run/Hold Extension Cable	A/R
	388-003-008	20 Ft. 3 Conductor Flowmeter Extension Cable	A/R		38816014	20 Ft. 2 Conductor Run/Hold Cable With N.O. Switch	A/R
3	363-004-010	HM860 Flowmeter Sensor	A/R		38816024	12 Inch 2 Conductor Run/Hold Cable With N.O. Switch	A/R
4	38816011	6 Ft. 3 Conductor Speed Extension Cable	A/R		38311010	N.O. Switch Only	A/R
	388-003-003	10 Ft. 3 Conductor Speed Extension Cable	A/R		38816024	N.O. Switch With 12 Inch Cable (2-Pin Sure Seal Connector)	A/R
	388-003-020	20 Ft. 3 Conductor Speed Extension Cable	A/R		363-003-021	20 Ft. 2 Conductor Run/Hold Cable With Proximity Sensor	A/R
5		See Speed Sensor Section	A/R		38815019	Proximity Sensor W/12 Inch 2-Pin Plug	A/R
6	38816013	6 Ft. 7 conductor Servo Extension Cable	A/R	13	36016000	8605 Console Only W/Manual	A/R
	38816003	10 Ft. 7 Conductor Servo Extension Cable	A/R		8610	8605 Console W/Manual, Mounting Bracket, And 20 Ft. Power Cable	A/R
	38816004	20 Ft. 7 Conductor Servo Extension Cable	A/R		393-002-089	(Not Shown) Cable Decal Kit; 4 Each; Speed, Flow, Boom, Run/Hold, Servo 2 Each; Power, 1 Each; Bat Left, Center, Right	A/R
7	38816005	6 Ft. 8 Conductor Boom Extension Cable	A/R				
	38816007	10 Ft. 8 Conductor Boom Extension Cable	A/R				
	38816006	20 Ft. 8 Conductor Boom Extension Cable	A/R				
8	38816015	8 Conductor Boom Harness With 1/4 Inch Female Push-On Connectors	A/R				
	38816025	8 Conductor Boom Harness With 5 Weatherpack 3-Pin Connectors	A/R				
9	36028004	3-Pin Matting Weatherpack Connector (Single) Includes Connector Housing, 3 Terminals, And 3 Seals	A/R				

SEC 2

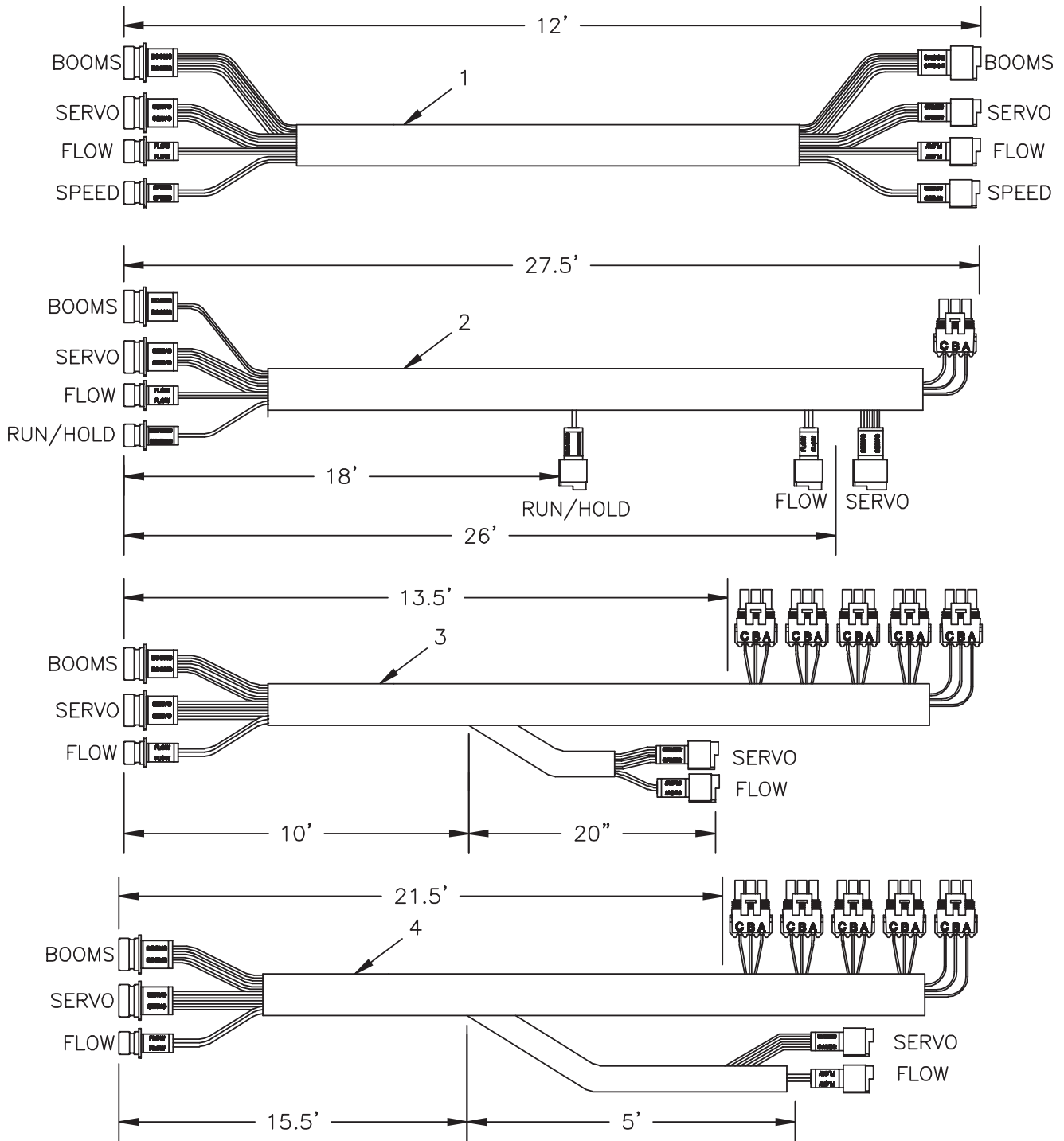


REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	36016000	8605 Console With Manual	1	3	367-003-005	Dress Knob Screw 1/4-20	2
2	36016003	8605 Console Mount Assembly	1	4	36508008	8605 Console Mount Bracket	1

8605 CONTROL SYSTEM

8605 HARNESS

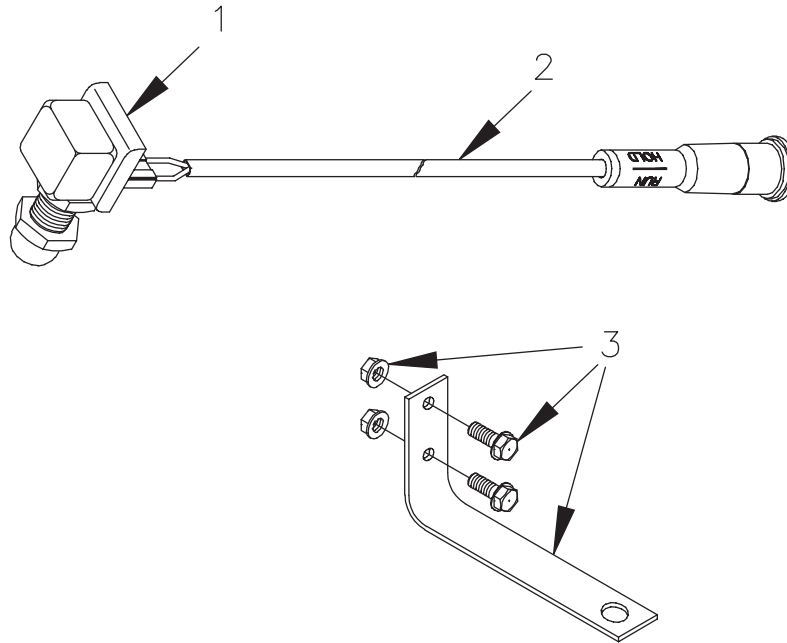
SEC 2



DWG. NO. 6297A

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	38816019	8605 Tractor Harness 12' Includes Servo, Flow, Speed, & Boom Connections	A/R	3	38816022	8605 HD Sprayer Harness. Includes Servo, Flow, & 5 Boom Connections For 5 628140 Ball Valves.	A/R
2	38816021	8605 Liquid Strip-Till Harness. Includes Servo, Flow, Run/Hold, & 1 Boom Connection For A Single 628140 Ball Valve.	A/R	4	38816023	8605 Mid-Mount Sprayer Harness. Includes Servo, Flow, & 5 Boom Connections For 5 628140 Ball Valves.	A/R

8605 REMOTE RUN/HOLD SWITCH

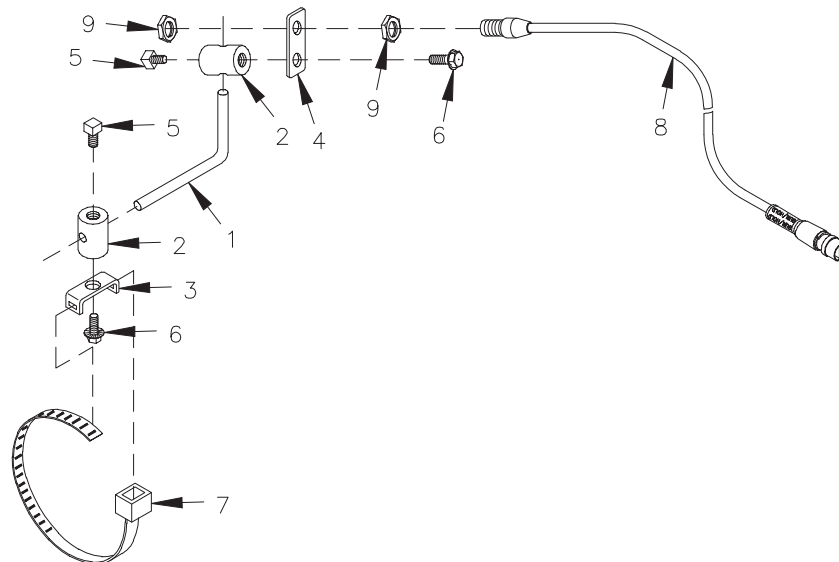


DWG. NO. 3703A

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	38311010	Remote Run Hold Switch, Normally Open	1	3	363-004-005	Remote Run Hold Mount Assembly	1
2	38816014	20' Remote Run Hold Cable W/Normally Open Switch	1	4	388-003-006	10' Remote Run Hold Extension (Not Shown)	1
	38816024	12" Remote Run Hold Cable W/Normally Open Switch			8613	Complete Kit (Includes Items 2 Thru 4)	

SECTION
2

PROXIMITY SENSOR REMOTE RUN/HOLD



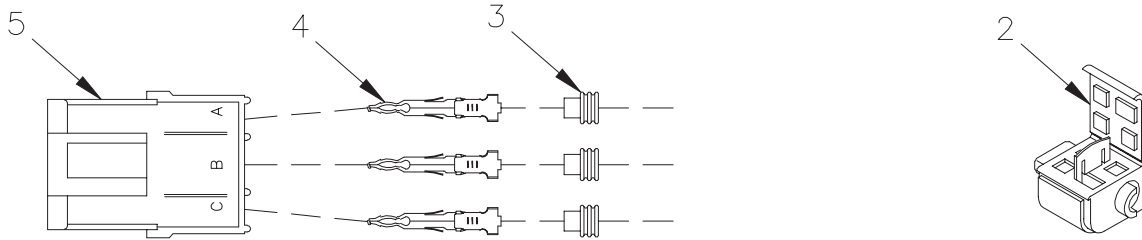
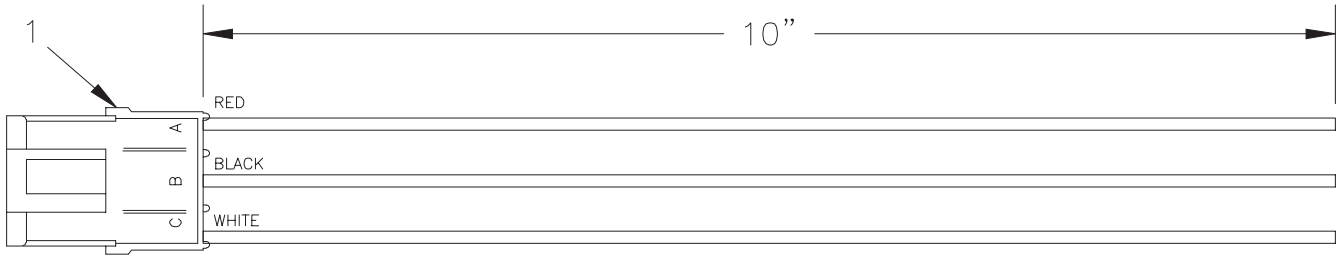
DWG. NO. 6292

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
	363-003-030	Universal Sensor Mount Kit (Includes Items 1-7)	1	8	38815019	Proximity Sensor 12" 2-Pin (Includes 2 Nuts)	A/R
1	360-000-192	3/8 Inch Diameter 90 Degree Rod	1	9	367-001-007	Nylon Nut	2
2	360-000-193	Connector Sleeve	2	10	38816012	6 Ft. 2 Conductor Run/hold Extension Cable	A/R
3	360-000-194	Mount Bracket	1	11	388-003-006	10 Ft. 2 Conductor Run/hold Extension Cable	A/R
4	360-000-195	Sensor Mount	1	12	38815018	20 Ft. 2 Conductor Run/hold Extension Cable	A/R
5	950-008-002	Square Head Set Screw 3/8-16 x 1/2	2		8168	Run/hold Kit With 10 Ft. & 20 Ft. Cables	
6	950-002-008	Whiz Lock Bolt 3/8-16 x 3/4	2			(Includes 1-9 & 11-12)	
7	958-025-004	4 Inch Hose Clamp	1				

8605 CONTROL SYSTEM

BALL VALVE PIGTAIL KIT

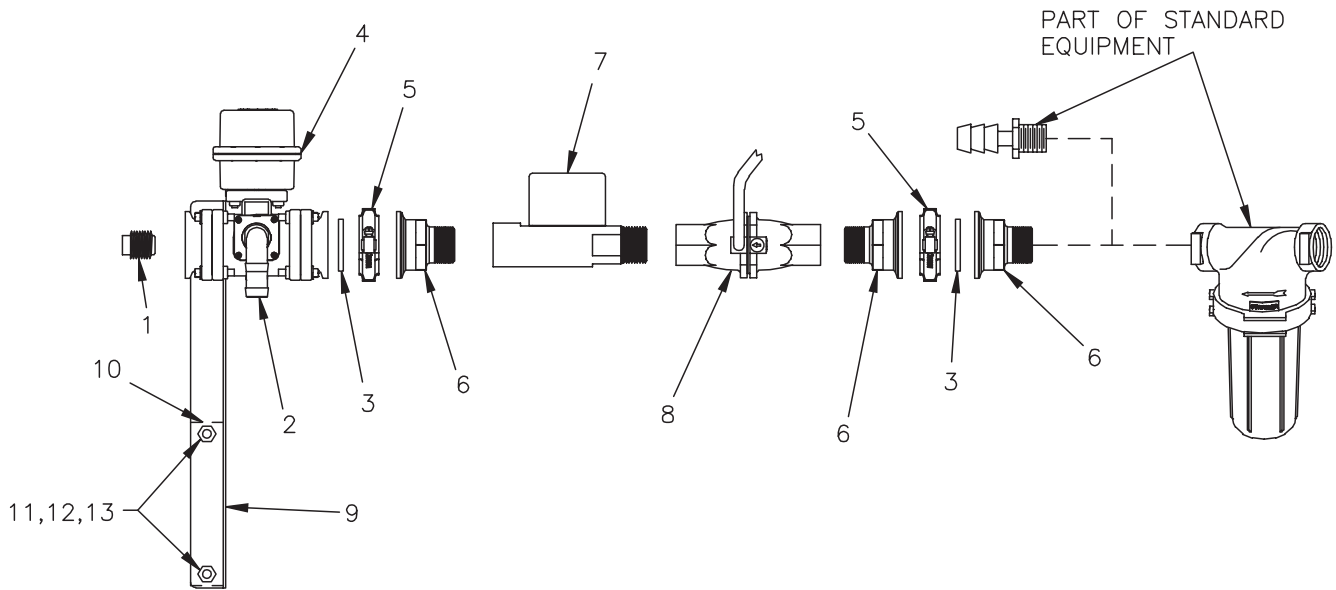
S E C T I O N
2



DWG. NO. 6294

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	36015006	Ball Valve Pigtail Kit Includes Three 3-wire Connector Assy And Ten Sealed Wire Tap Connectors (Item 2)	A/R	4	38601222	Terminal, Male 14-16 Ga	3
2	38610104	Sealed Wire Tap Connector	10	5	38472318	Weatherpack Connector 3-Pin Shroud	1
3	386-101-003	Cable Seal	3	6	36028004	Connector Kit, 3-Pin Weatherpack (Includes Items 3,4,5)	A/R

8605 LIQUID CONTROL, STRIP-TILL

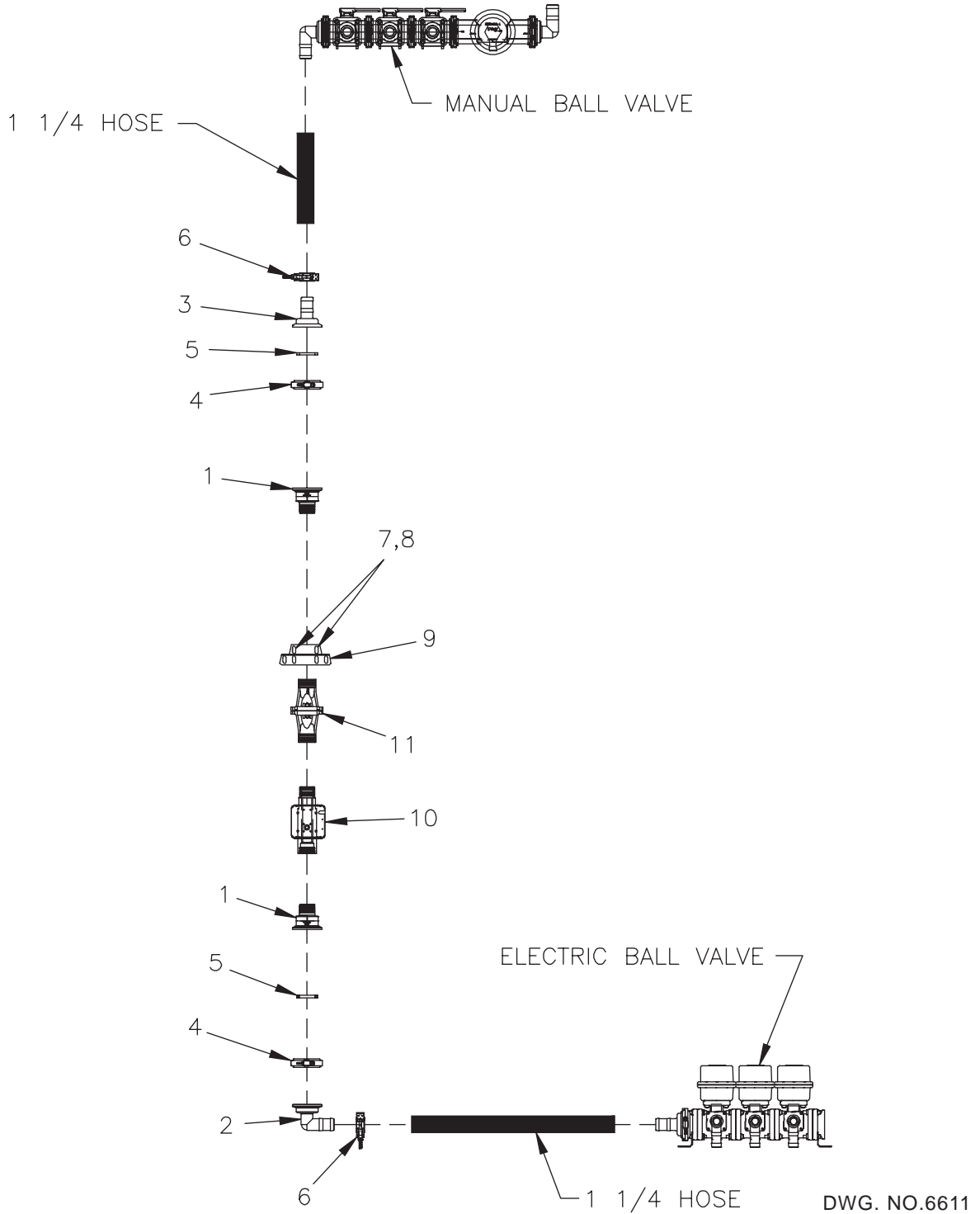


DWG. NO.6063

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	612920	Socket Head Plug 3/8 NPT	1	10	81005161	Strap	1
2	628051	Hose Barb 1" 90 Degree Assembly	1	11	950-001-209	Hex Head Cap Screw 3/8-16 x 5 Gr. 5	2
3	627778	Gasket EPDM #200G	2	12	951-001-005	Hex Nut 3/8-16	2
4	628140	Ball Valve	1	13	952-001-007	Lock Washer 3/8 Med Split SAE	2
5	627767	Flanged Clamp	2		39308087	Instruction Sheet	1
6	627905	2" Flange x 1 1/4 NPT Connector	3		81005490	Liquid Plumbing Kit Includes Items 1-3, 5-6, 10-13	1
7	36016007	Servo, Stepper 1 1/4 M/F	1		81005538	Complete 8605 Liquid Control System. Includes All Above Plus 8605 Console Kit, GPS Speed Sensor, Remote Run/Hold, And Wiring	
8	363-004-025	Flowmeter Assembly	1				
9	81005589	Valve Mount Bracket	1				

8605 LIQUID KIT FOR HD SPRAYERS

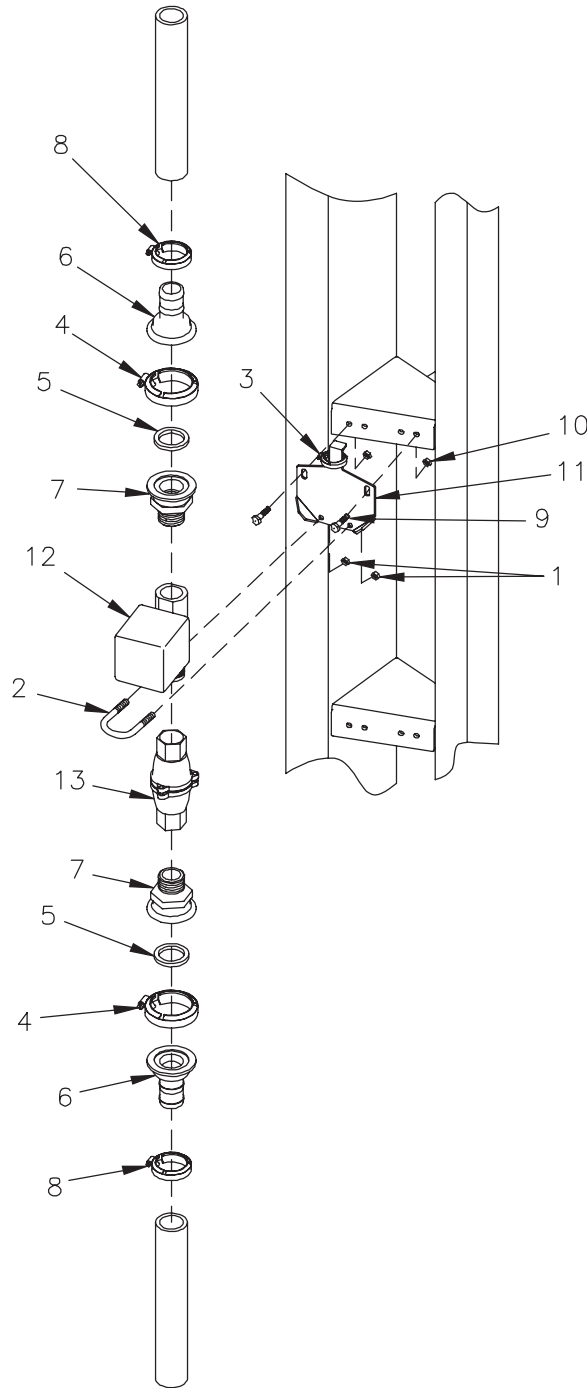
SEC 2



DWG. NO.6611

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	627905	2" Flange x 1 1/4 NPT Connection	2	10	36016007	Stepper Servo 1 1/4 M/F	1
2	628121	Flange x 1 1/4 NPT 90 Degree Hose Barb	1	11	363-004-025	HM860 Flowmeter Assembly	1
3	628126	Flange x 1 1/4 NPT Hose Barb	1	12	8610	8605 Console Kit (Not Shown)	1
4	627767	Flange Clamp #FC200	2	13	38816019	8605 Tractor Harness (Not Shown)	1
5	627768	Flange Gasket #150G	2	14	38816022	8605 HD Sprayer Harness (Not Shown)	1
6	628133	T-Bolt Clamp Banjo #TC-162	2	15	8614	GPS Speed Sensor Kit (Not Shown)	1
7	950-002-007	Hex Head Flanged Whiz Lock Bolt 5/16-18 x 1	2	16	39308084	Instruction Sheet (Not Shown)	1
8	951-002-011	Hex Flanged Whiz Lock Nut 5/16-18 SS	2		628156	8160/8605 HD Plumbing Kit (Includes 1-8)	A/R
9	36016006	HM860 Mount Kit	1		628251	8605 Rate Control Package (Includes Items 1-16)	A/R

8605 LIQUID KIT FOR MID-MOUNT SPRAYERS



DWG. NO.6613

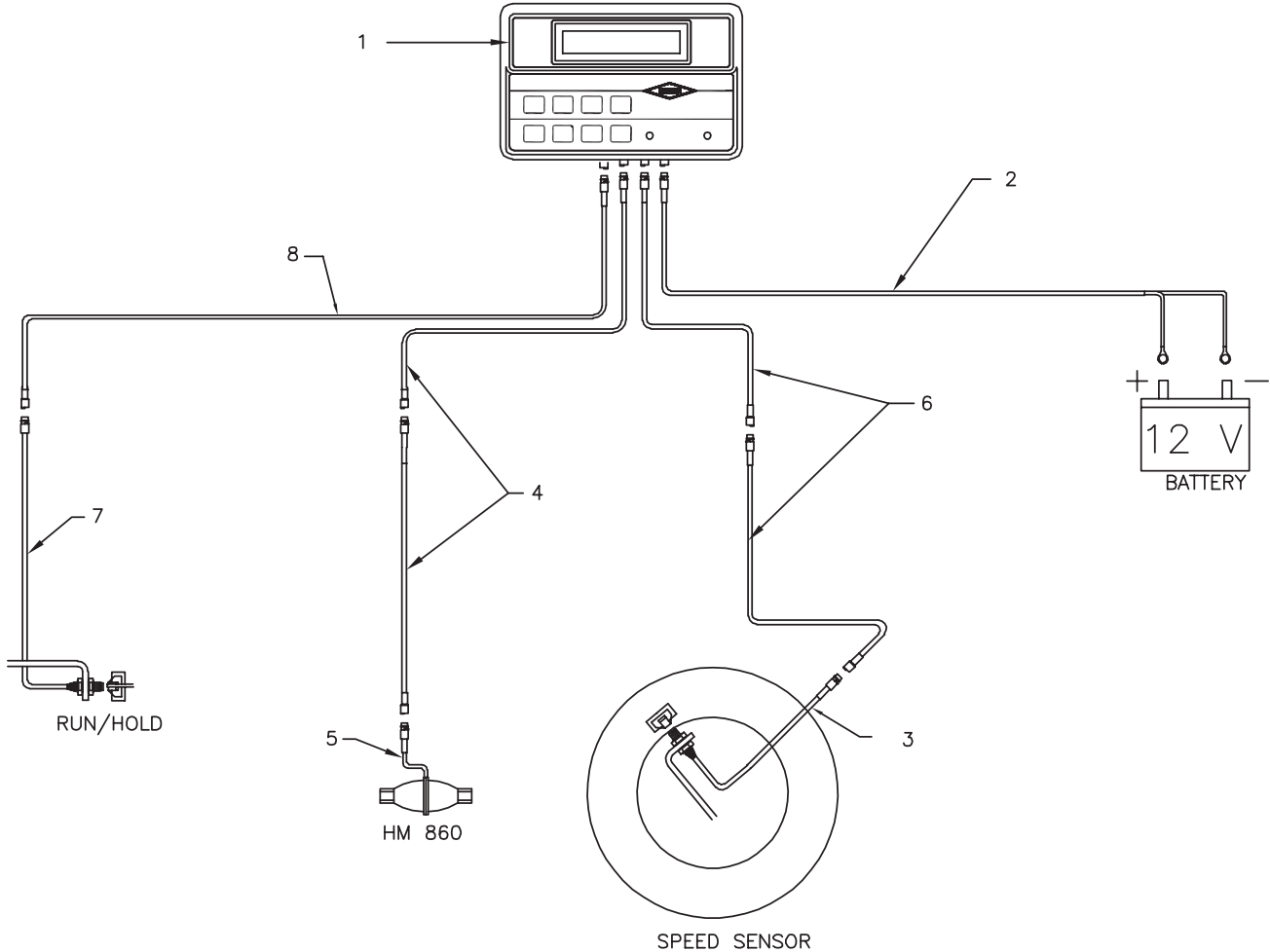
REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	060954	Lock Nut 1/4-20 Nylon Insert	2	12	36016007	Stepper Servo 1 1/4 M/F	1
2	394-002-013	U-Bolt 1/4-20 x 2	1	13	363-004-025	HM860 Flowmeter Assy	1
3	617176	Hose Clamp 2 1/4 SS	1	14	36016000	8605 Console Assembly (Not Shown)	1
4	627767	Flange Clamp #FC200	1	15	36016003	Console Mount Bracket Assembly (Not Shown)	1
5	627768	Flange Gasket #150G	2	16	38816001	Battery Power Cable (Not Shown)	1
6	627771	Flange Hose Barb #M200150BRB	2	17	38816019	8605 Tractor Harness (Not Shown)	1
7	627905	2" Flange x 1 1/4 NPT Connection	2	18	38816023	8605 Mid-Mount Sprayer Harness (Not Shown)	1
8	628110	T-Bolt Clamp Banjo #TC-181	2	19	8614	GPS Speed Sensor Kit (Not Shown)	1
9	950-002-007	Hex Head Flanged Whiz Lock Bolt 5/16-18 x 1	2	20	39308085	Instruction Sheet (Not Shown)	1
10	951-002-011	Hex Flanged Whiz Lock Nut 5/16-18 SS	2		628079	Flanged Spray Kit (Includes Items 1-10)	A/R
11	628089	Servo Valve Support	1		628250	8605 Rate Control Package (Includes Items 1-20)	A/R

8200 MONITOR

INDEX..... 1
SYSTEM DIAGRAM 2
CONSOLE AND MOUNTING HARDWARE 3
REMOTER RUN/HOLD SWITCH 3

8200 MONITOR

8200 TYPICAL SYSTEM WIRING



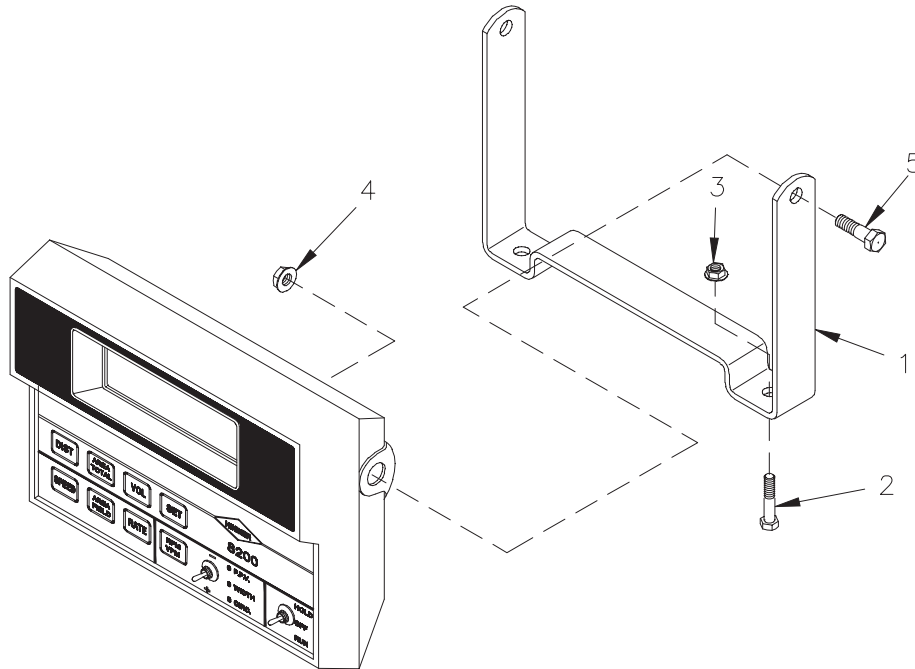
DWG. NO. 6298A

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	363-006-004	8200 Console W/O Manual	1	7	363-006-005	20 Foot Magnetic Sensor	1
	8202	Complete 8200 Kit, Inc Items 1, 2, 3, 10, Mounting HRDW	A/R	8	38816012	6 Ft. 2 Conductor Run/Hold Extension Cable	A/R
2	388-003-002	15 Ft. 2 Conductor Battery Cable	1		388-003-006	10 Ft. 2 Conductor Run/Hold Extension Cable	A/R
3	363-006-005	20 Foot Magnetic Speed Sensor	1		38815018	20 Ft. 2 Conductor Run/Hold Extension Cable	A/R
	8201	Magnetic Speed Sensor Kit Inc Mount Bracket, Magnets	1	9	393-002-089	(Not Shown) Cable Decal Kit: 4 Each; Speed, Flow, Boom, Run/Hold, Servo	A/R
4	38816008	6 Ft. 3 Conductor Flowmeter Extension Cable	A/R			2 Each; Power, 1 Each; Bat (-), Left, Center, Right	
	388-003-004	10 Ft. 3 Conductor Flowmeter Extension Cable	A/R	10	393-000-010	8200 Manual (Not Shown)	A/R
	388-003-008	20 Ft. 3 Conductor Flowmeter Extension Cable	A/R				
5	363-004-010	HM860 Flowmeter Sensor	1				
6	38816011	6 Ft. 3 Conductor Speed Extension Cable	A/R				
	388-003-003	10 Ft. Conductor Speed Extension Cable	A/R				
	388-003-020	20 Ft. 3 Conductor Speed Extension Cable	A/R				

SEC
3

8200 MONITOR

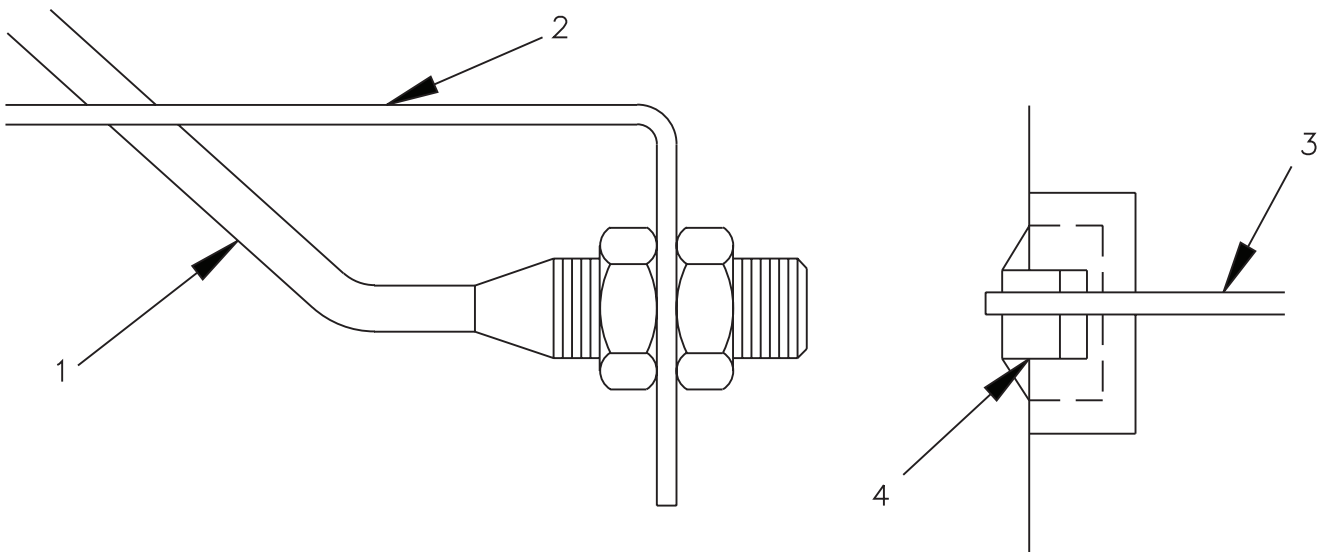
SECTION 3



DWG. NO. 6299

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	365-004-004	Console Mounting Bracket	1	4	951-002-002	Whiz Lock Nut 5/16-18	2
2	950-002-004	Bolt 1/4-20 x 1	2	5	950-002-006	Bolt 5/16-18 x 3/4	2
3	951-002-001	Whiz Lock Nut 1/4-20	2	6	363-006-007	Console Mounting Bag (Includes Items 1-5)	A/R

REMOTE RUN/HOLD SWITCH



* Sensor May Be Used For Remote Run/Hold

DWG. NO. 1820

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	363-006-005	20' Speed Sensor (Magnetic Type) Distance	A/R	3	367-001-011	14 Inch Cable Tie	A/R
2	365-006-002	Sensor Mount Bracket * NOTE: Complete Kit Order Wholegoods Number 8201	A/R	4	367-006-004	1 Inch Magnet Strip	A/R
					363-006-006	Sensor Mount Kit Inc Items 2, 3, & 4	A/R

FLOWMETERS / VALVES

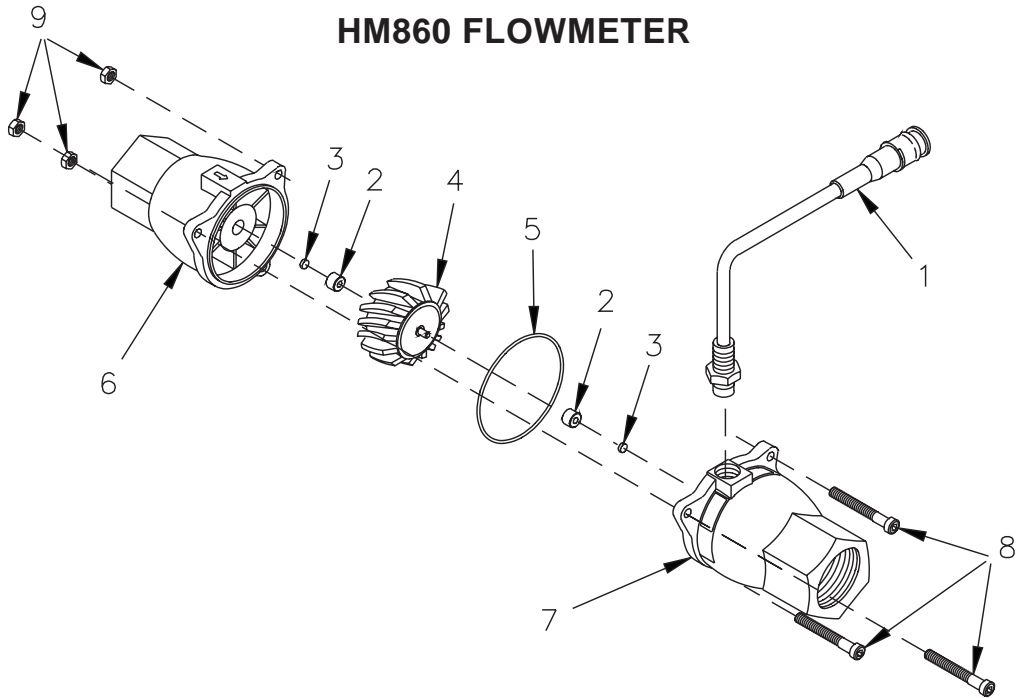
INDEX.....	1
COMPATABILITY CHART	2
HM860	2-3
MVR30 / MVR50.....	4
1 1/4 " M/F STEPPER SERVO VALVE.....	5
1 " STEPPER SERVO VALVE	6
1 1/4" M/F SERVO VALVE 3-WIRE	7
1 1/4" M/F SERVO VALVE 2-WIRE	8
1" & 3/4" SERVO VALVES 3-WIRE	9

FLOWMETER AND SERVO VALVE COMPATIBILITY CHART

Part No	Description	8160	8605	8200	8100 8150
363-004-025	HM860 1 1/4" (3-30GPM) *	X	X	X	X
363-003-003	MVR50 1" (.8 -50 GPM)	X	X	X	X
363-003-073	MVR30 3/4" (.5-30 GPM)	X	X	X	X
36016007	1 1/4" M/F Stepper Servo Valve	-	X	-	-
36016001	1" Stepper Servo Valve	-	X	-	-
36015010	1 1/4" M/F Servo Valve 2-Wire *	X	-	-	X
36015007	1 1/4" M/F Servo Valve 3-Wire	X	-	-	X
363-003-094	1" Servo Valve 3-Wire	X	-	-	X
363-003-097	3/4" Servo Valve 3-Wire	X	-	-	X

* Works With Most Precision Farming Systems.

HM860 FLOWMETER

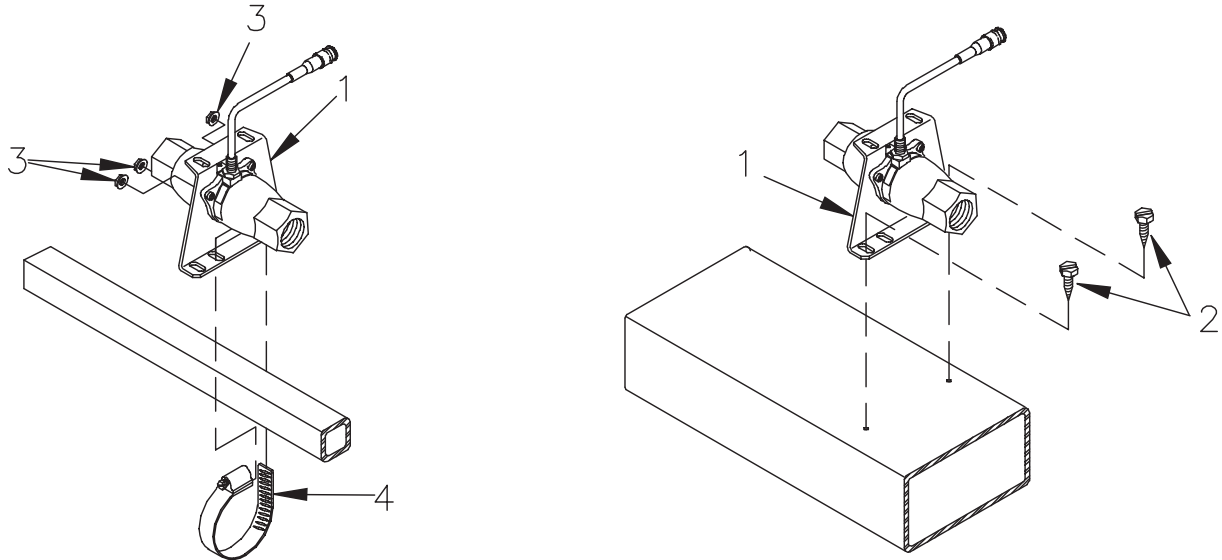


DWG. NO. 2462

REF. NO.	PART NUMBER	DESCRIPTION	QTY.
	Not Serviced	Flowmeter Assembly (Includes All Below) (For Flowmeter With Serial No. Less Than 1000)	
	363-004-025	Flowmeter Assembly (Includes All Below) (For Flowmeter With Serial No. 1000 And Higher)	
1	363-004-010	Sensor Assembly, Solid State	1
2	394-002-009	Bushing Graphite	2
3	394-002-038	Bearing, Sapphire	2
4	394-002-103	Flowmeter Rotor	1
5	394-002-104	O-Ring (For Flowmeter With Serial No. Less Than 1000)	1
	394-002-115	O-Ring (For Flowmeter With Serial No. 1000 And Higher)	1
6	394-002-111	Discontinued Flowmeter Housing Inlet (For Flowmeter With Serial No. Less Than 1000). To Update Order Items 5, 6, (Serial No. 1000 And Higher) Items 2, 3, 8, 9.	1
	394-002-116	Flowmeter Housing Inlet (For Flowmeter With Serial No. 1000 And Higher)	1
7	394-002-112	Flowmeter Housing Outlet	1
8	950-004-064	Socket Head Cap Screw 1/4-20 x 1 1/2 SS	3
9	060954	Lock Nut 1/4 - 20 Nylon Insert	3

SEC 4

FLOWMETER MOUNT



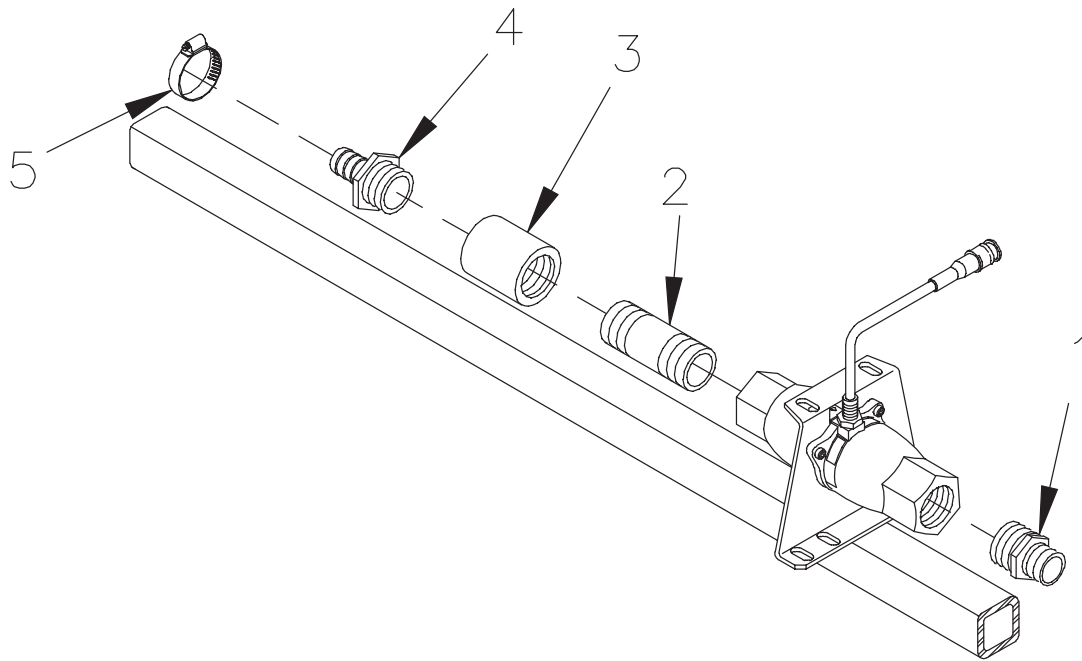
OPTIONAL ASSEMBLY

DWG. NO. 6313

SEC 4

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
	8086	Flowmeter Base Kit (Includes Items 1-7)	A/R	4	958-025-004	4 Inch Hose Clamp	1
1	360-004-016	Flowmeter Mounting Plate	1	5	363-004-025	Flowmeter Assembly	1
2	950-005-024	Self Tapping Screw 5/16-12 x 1 Slotted Hex Head	2	6	388-003-004	10' Flowmeter Extension Cable	1
3	060954	Lock Nut 1/4 Nylon Insert	3	7	388-003-008	20' Flowmeter Extension Cable	1

FLOWMETER PLUMBING KIT

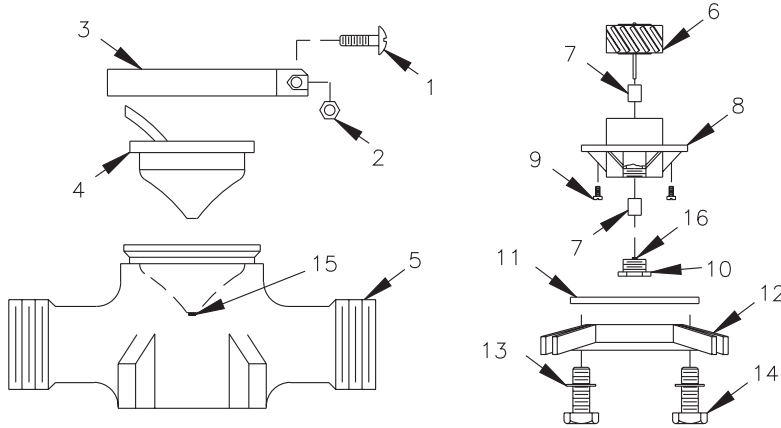


DWG. NO. 6314

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
	8087	HM860 Flowmeter Plumbing Kit For Spray Installation (Includes Items 1-5)	A/R	3	614392	Coupling NPT 1 1/4 x 1 1/4 NPT	1
1	394-002-110	Reducer Nipple 1 1/4 x 1	1	4	612447	1 1/4 NPT x 1 Hose Barb	1
2	612768	Nipple 1 1/4 NPT x 4"	1	5	614582	Hose Clamp 1 1/16 x 2	1

FLOWMETERS/VALVES

MVR 30/50

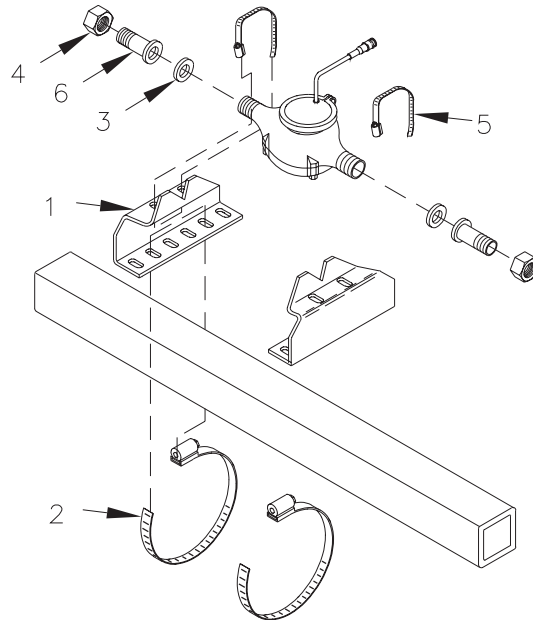


DWG. NO. 985

SECTION 4

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
	Not Serviced	MVR 30 Flowmeter (Includes Items 1-16)	1	8	394-002-044	MVR-30 Inlet Hub	1
	Not Serviced	MVR 50 Flowmeter (Includes Items 1-16)	1		394-002-005	MVR-50 Inlet Hub	1
1	392-010-012	Clamp Band Screw	1	9	392-010-014	Phillips Head SS Screw #8-32 x 3/8	4
2	951-001-012	Clamp Band Nut	1	10	394-002-006	Plug & Bearing Assembly, Includes Item 16	1
3	367-003-003	Clamp Band	1	11	367-003-050	MVR-30 Base Plate Gasket	1
4	363-003-012	Detector Module	1		367-003-017	MVR-50 Base Plate Gasket	1
5	Not Serviced	MVR-30 Flowmeter Case	1	12	394-002-045	MVR-30 Bottom Plate	1
	Not Serviced	MVR-50 Flowmeter Case	1	12	394-002-007	MVR-50 Bottom Plate	1
6	394-002-042	MVR-30 Rotor	1	13	952-002-002	Washer 5/8 Inch	4
	394-002-003	MVR-50 Rotor	1	14	950-001-005	Hex Head Cap Screw 5/16-18 x 1	4
7	394-002-043	MVR-30 Bushing	2	15	394-002-004	Upper Sapphire Bearing	1
	394-002-009	MVR-50 Bushing	2	16	394-002-040	Lower Sapphire Bearing	1

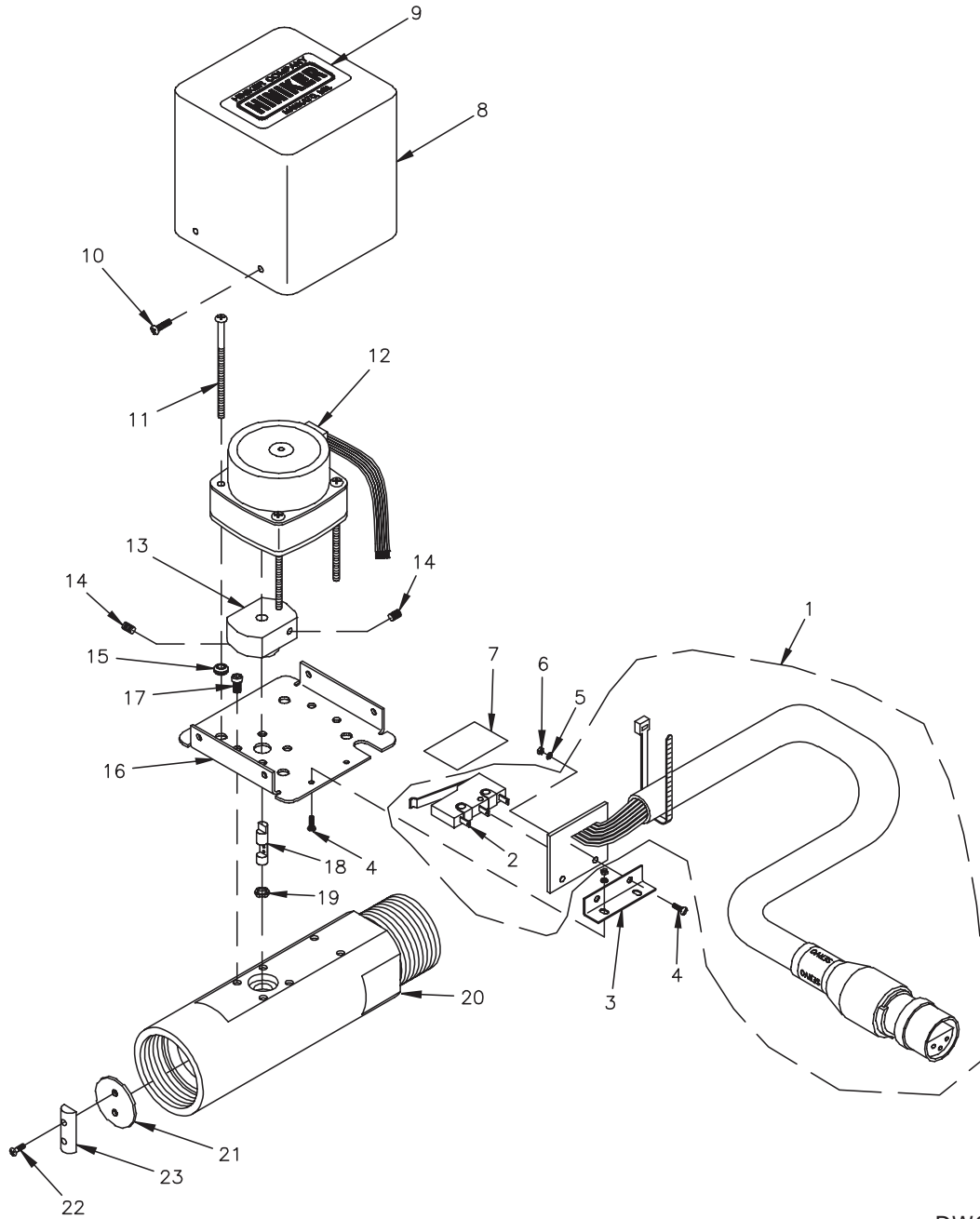
MVR 30/50 MOUNT



DWG. NO. 1019

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	360-000-176	Flowmeter Mount Bracket	2	5	958-025-003	1 1/2 Inch Hose Clamp	2
2	958-025-004	4 Inch Hose Clamp	2	6	394-002-048	MVR-30 3/4 Inch Spud	2
3	394-002-046	MVR-30 Spud Washer	2		394-002-049	MVR-50 1 Inch Spud	2
	394-002-050	MVR-50 Spud Washer	2				
4	394-002-047	MVR-30 Spud Nut	2				
	394-002-051	MVR-50 Spud Nut	2				

1 1/4" M/F STEPPER SERVO VALVE

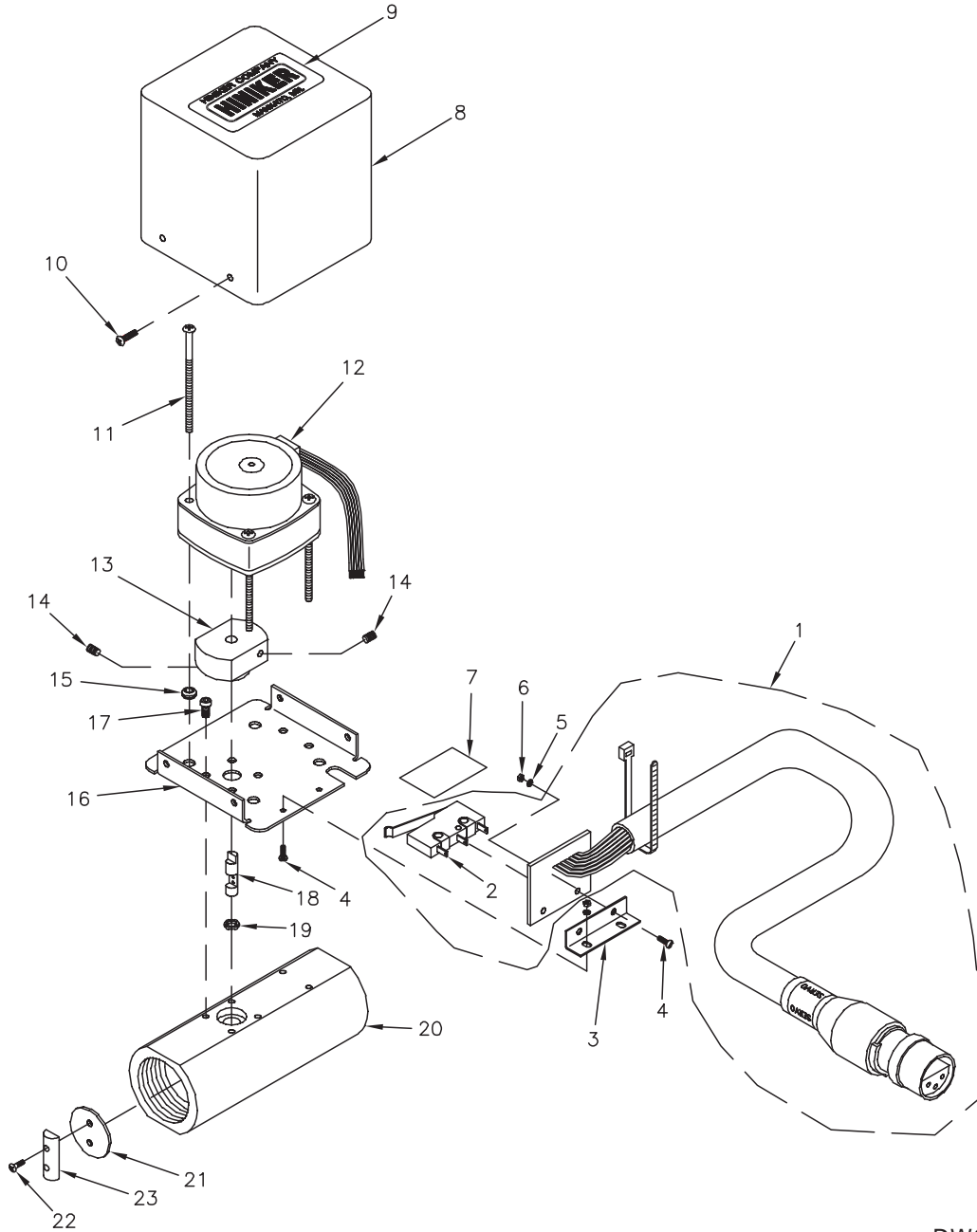


DWG. NO.6315A

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
	36016007	1 1/4 Inch Stepper Servo - Complete	1	14	392-010-024	Set Screw 10-32 x 1/4 Holo Knr	2
1	36116007	Cable/PC Board Assembly	1	15	39200009	Grommet 1/4" Groove 5/32" Hole	4
2	38311008	Switch, Cam Stepper Servo	1	16	36508004	Plate, Servo Mt, Stepper	1
3	36508005	Bracket, Cam Switch PCB Mount	1	17	392-010-007	Socket Head Cap Screw #8-32 x 1/4	6
4	950-004-080	Machine Screw 4-40 x 1/4 Phillips Pan Head SS	4	18	366-003-005	Shaft, Servo Valve	1
5	952-004-074	Internal Tooth Lock Washer #4	4	19	367-003-043	Quad Ring .375 ID Comp. 560PJ	1
6	034-00212	Hex Nut #4 NC PL	4	20	36608004	Body, 1 1/4 M-F Servo Valve	1
7	36717013	Mylar Sheet 2 1/2 x 2 1/2	1	21	366-003-010	Butterfly Disc 1 Inch	1
8	36508007	Cover, Stepper Servo	1	22	950-004-112	Machine Screw #6-32 x 7/16 Phillips Pan Head SS (Used With Backing Plate)	2
9	393-002-013	Rectangular "Hiniker" Decal	1		392-010-013	Machine Screw #6-32 x 1/4 Phillips Round Head SS (Used Without Backing Plate)	
10	392-010-019	Self Tap Screw #6-20 x 3/8 Phillips Pan Head	4				
11	950-004-082	Machine Screw #8-32 x 2 1/2 Phillips Pan Head	4	23	36508018	Butterfly Backing Plate	1
12	36116008	Stepper Motor Assembly (Includes Item 11)	1				
13	36508006	Cam, Stepper Servo	1				

FLOWMETERS/VALVES

1" STEPPER SERVO VALVE



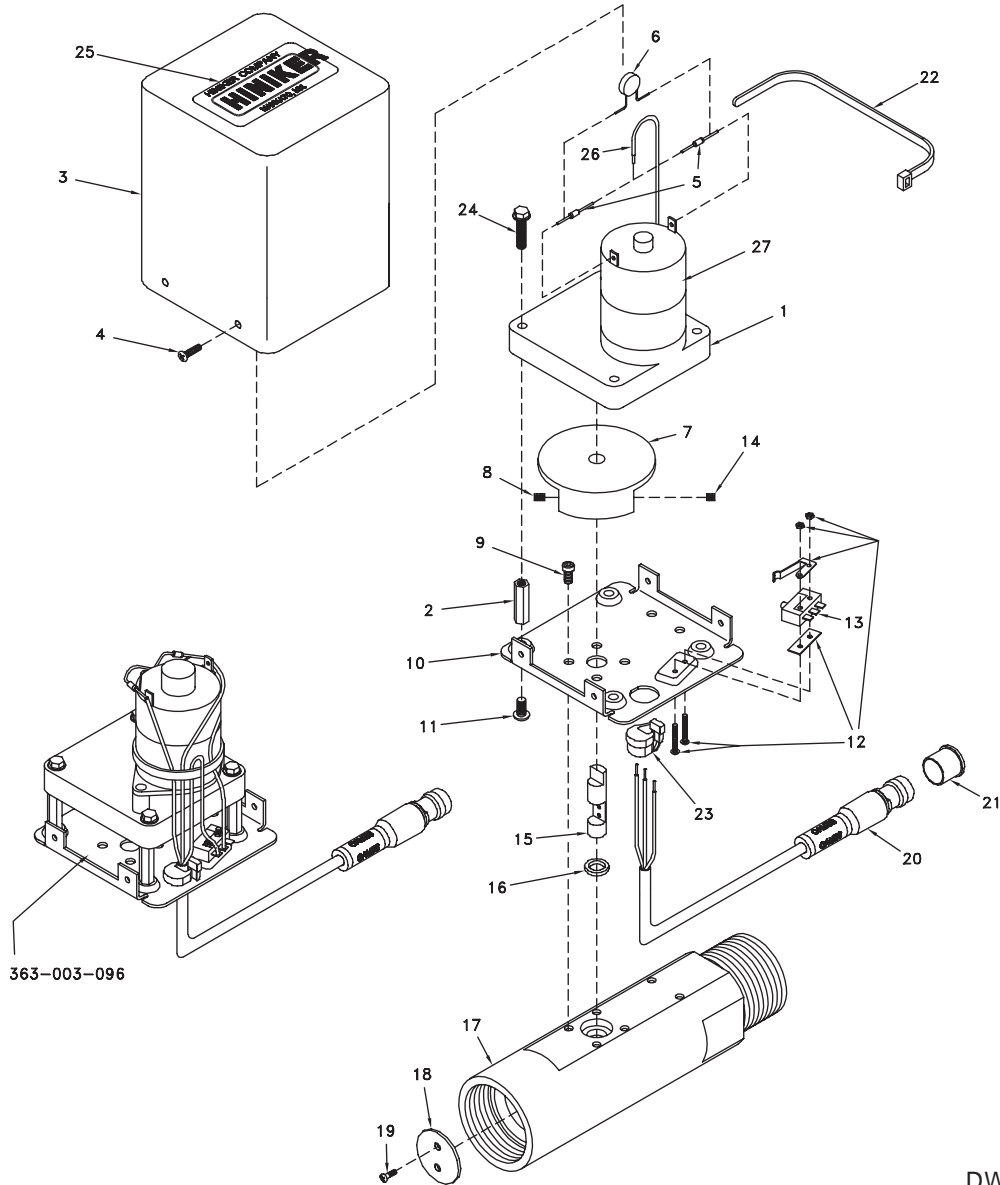
DWG. NO. 5124B

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
	36016001	1 Inch Stepper Servo Complete	1	14	392-010-024	Set Screw 10-32 x 1/4 Hok KNR	2
1	36116007	Cable/PC Board Assembly	1	15	39200009	Grommet 1/4" Groove 5/32" Hole	4
2	38311008	Switch, Cam Stepper Servo	1	16	36508004	Plate, Servo Mount, Stepper	1
3	36508005	Bracket, Cam Switch PCB MT	1	17	392-010-007	Socket Dead Cap Screw #8-32 x 1/4	6
4	950-004-080	Machine Screw 4-40 x 1/4 Phillips Pan Head SS.	4	18	366-003-005	Shaft, Servo Valve	1
5	952-004-074	Internal Tooth Lock Washer #4	4	19	367-003-043	Quad Ring .375 ID Comp. 560 RJ	1
6	034-00212	Hex Nut #4 NC PL	4	20	366-003-004	Body, Servo Valve	1
7	36717013	Mylar Sheet 2 1/2 x 2 1/2	1	21	366-003-010	Butterfly Disc 1 Inch	1
8	36508007	Cover, Stepper Servo	1	22	950-004-112	Machine Screw #6-32 x 7/16 Phillips Pan Head SS (Used With Backing Plate)	2
9	393-002-013	Rectangular "Hiniker" Decal	1		392-010-013	Machine Screw #6-32 x 1/4 Phillips Round Head SS (Used Without Backing Plate)	1
10	392-010-019	Self Tap Screw #6-20 x 3/8 Phillips Pan Head	4	23	36508018	Butterfly Backing Plate 1"	
11	950-004-082	Machine Screw #8-32 x 2 1/2 Phillips Pan Head	4				
12	36116008	Stepper Motor Assembly (Includes Item 11)	1				
13	36508006	Cam, Stepper Servo	1				

SEC 4

FLOWMETERS/VALVES

1 1/4" M/F SERVO VALVE 3-WIRE

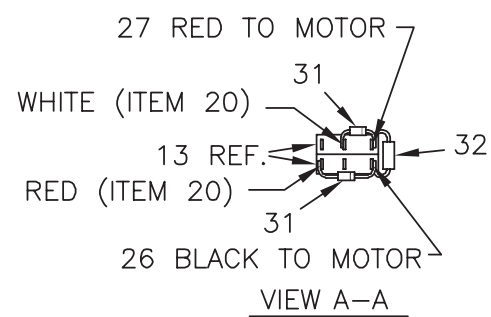
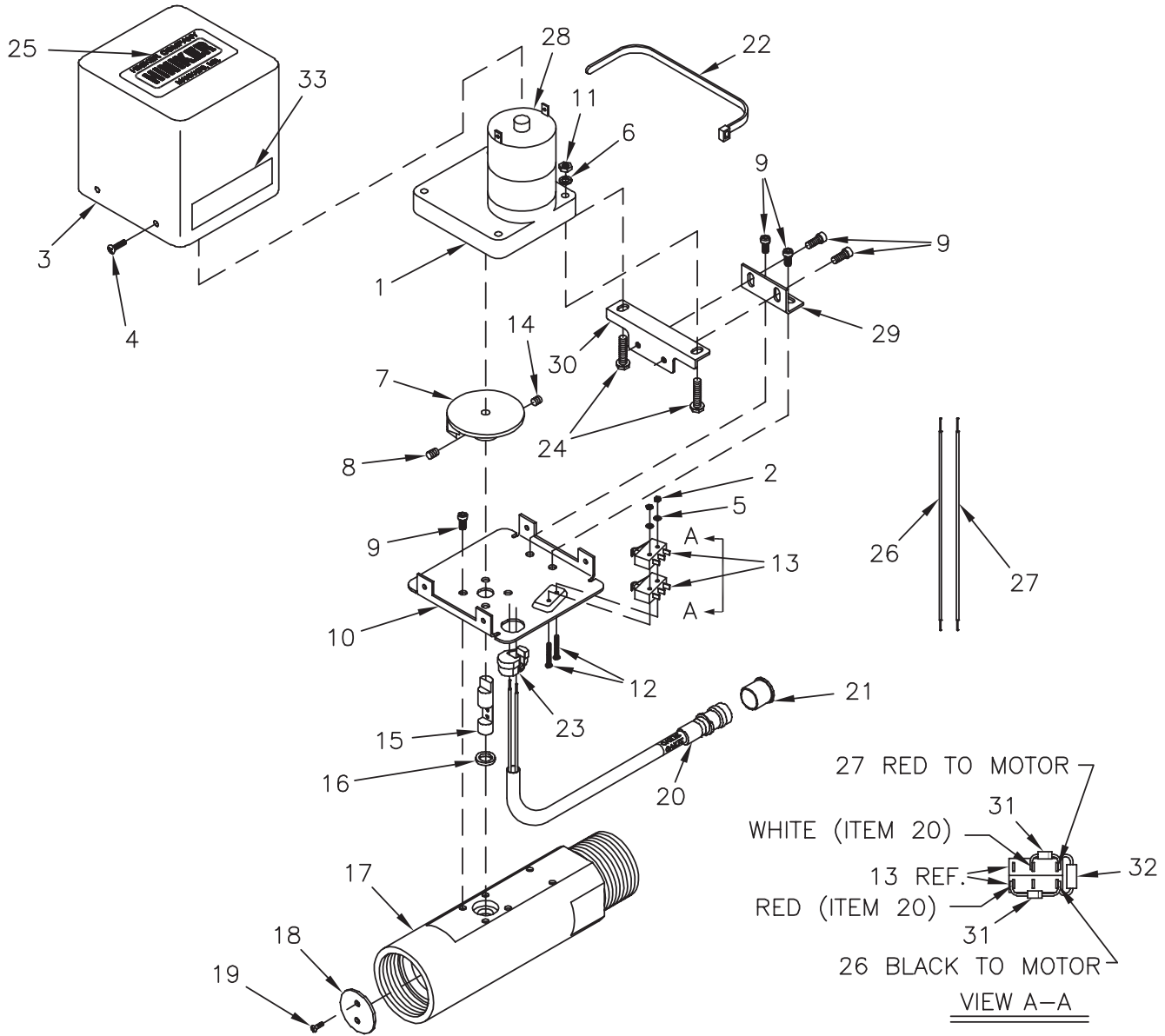


DWG. NO. 6316A

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
	36015007	Servo, GP 1 1/4 MF 3-Wire	A/R	13	383-101-001	Position Switch	1
	363-003-096	Pre-Assembled Gear Motor Assembly Includes Items 1,2, 5-8, 10-14, 16, 20-24, 26-27	A/R	14	392-010-023	Set Screw #10-32 x 3/16 KNR	1
1	39412010	MP Gear Motor; Used As Replacement For ECM And MP Gear Motors. If Motor To Be Replaced Is Not Clearly Identified "ECM" Or "MP" (39412009 & 39412010) You Must Order PN 363-003-096 Includes Items 1, 24, And 27	1	15	366-003-005	Shaft For 1 Inch And 1 1/2 Inch Servo Valve	1
2	392-001-000	Standoff 8-32 x 7/8	4	16	367-003-043	Quad O-Ring	1
3	365-003-023	Cover 4 11/16 Tall	1	17	36608004	1 1/4 Inch Servo Valve Body M/F	1
4	392-010-019	6 AB x 3/8 SM Screw	4	18	366-003-010	1 Inch Butterfly Disc	1
5	380-204-005	IN4005 Rectifier	2	19	392-010-013	Round Head SS Screw #6-32 x 1/4	2
6	379-399-103	.01 MFD Capacitor	1	20	388-003-037	1 Foot Servo Cable	1
7	360-000-260	Tapped Switch Cam	1	21	367-001-001	Large Dust Cap	1
8	392-010-024	Set Screw 10-32 x 1/4 KNR	1	22	367-001-014	Cable Tie, Black, 8 Inch	1
9	392-010-007	Socket Head Cap Screw #8-32 x 1/4	6	23	367-003-059	2/3 Cond. Cable Strain Relief	1
10	365-003-014	Motor Mount Plate	1	24	392-010-020	Whiz-Lock Bolt For "ECM" Motor #8-32 x 3/4"	4
11	950-004-032	Pan Head Screw #8-32 x 1/2	4		950-004-107	Whiz-Lock Bolt For "MP" Motor #8-32 x 1 1/4"	4
12	383-101-002	Switch Mount Hardware	1	25	393-002-013	Rectangular "Hiniker" Decal	1
				26	388-004-016	Wire, 6 Inch, 22 Gauge	1
				27	39302170	Label, MP Motor Cover	1

FLOWMETERS/VALVES

SERVO VALVE 1 1/4 M/F 2-WIRE

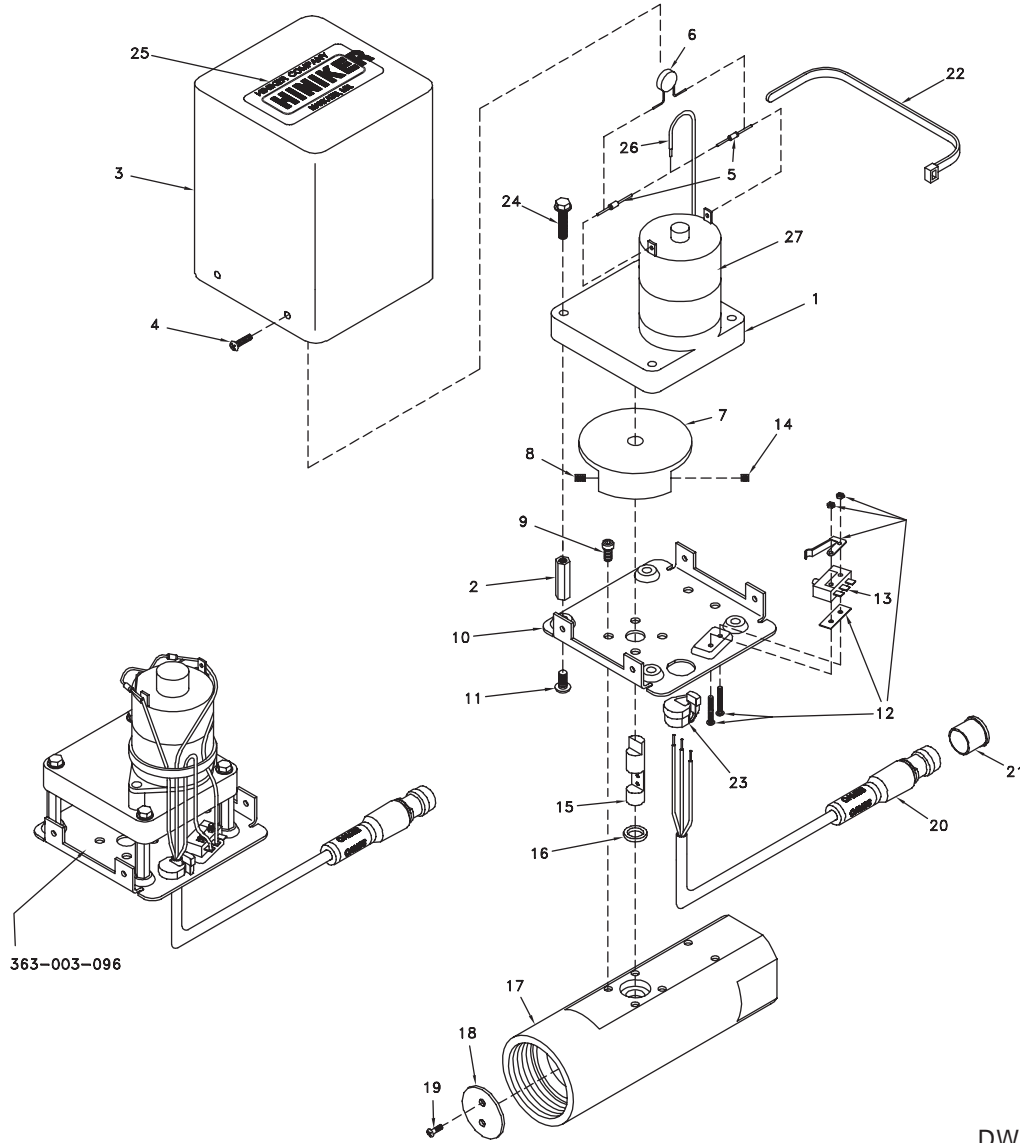


DWG. NO. 6601

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
	36015010	1 1/4" M/F Servo Valve 2-Wire	A/R	17	36608004	Body, Servo 1 1/4 MPT x 1 1/4 FPT	1
1	39412009	Gearmotor MP 12V 3.5 RPM	1	18	366-003-010	Butterfly Disc 1 Inch	1
2	951-001-033	Hex Nut #2-56 18-8 SS	2	19	392-010-013	Phillips Round Head Machine Screw #6-32 x 1/4 SS	2
3	365-003-023	Cover 4 11/16 Tall	1	20	38815029	2 Wire Servo Pigtail	1
4	392-010-019	Phillips Pan Head Self Tap Screw #6-20 x 3/8	4	21	367-001-001	Large Dust Cap	1
5	952-001-014	Lock Washer #2 18-8 Med SS	2	22	367-001-014	Cable Tie, Black 8 Inch	1
6	952-001-011	Lock Washer #8 .164 Med Split SAE	2	23	367-003-059	Strain Relief Heyco SR-5KN-4	1
7	36515011	Cam 2 Wire Servo	1	24	950-004-107	Hex Washer Head Machine Screw 8-32 x 1 1/4 PI	2
8	392-010-024	Set Screw 10-32 x 1/4 Holo Knr	1	25	393-002-013	Rectangular "Hiniker" Decal	1
9	392-010-007	Socket Head Cap Screw #8-32 x 1/4 SS	8	26	390-101-116	Wire 16 Ga Stranded Black GPT	5 1/2"
10	36515012	Plate Base 2 Wire Servo	1	27	390-104-116	Wire 16 Ga Stranded Red GPT	5 1/2"
11	951-001-012	Hex Nut #8-32 ZP	2	28	39302170	Tape Label Mp Motor Cover	1
12	950-004-111	Phillips Pan Head Machine Screw #2-56 x 3/4 SS	2	29	36515013	Lower Mount Bracket 2 Wire Servo	1
13	38311008	Switch, Servo Cam	2	30	36515014	Upper Mount Bracket 2 Wire Servo	1
14	392-010-023	Set Screw 10-32 x 3/16 Holo Knr	1	31	380-204-005	Diode Rectifier In 4005	2
15	366-003-005	Shaft, Servo Valve	1	32	38030620	TVS, Bidirectional 600W 20V	1
16	367-003-043	Quad Ring .375 ID Comp. 560RJ	1	33	39302171	Label 2 Wire Valve	1

SEC 4

SERVO VALVE 1 INCH, 3/4 INCH 3-WIRE



DWG. NO. 2032A

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
	363-003-094	1 Inch Servo Valve Assembly, 3-Wire	A/R	13	383-101-001	Position Switch	1
	363-003-097	3/4 Inch Servo Valve Assembly, 3-Wire	A/R	14	392-010-023	Set Screw 10-32 x 3/16 Knr	1
	363-003-096	Pre-Assembled Gear Motor Assembly, 3-Wire Includes Items 1,2, 5-8, 10-14, 16, 20-24, 26-27	A/R	15	366-003-005	Shaft For 1 Inch Servo	1
1	39412010	MP Gear Motor; Used As Replacement For ECM And MP Gear Motors. If Motor To Be Replaced Is Not Clearly Identified "ECM" Or "MP" (39412009 & 39412010) You Must Order PN 363-003-096 Includes Items 1, 24, And 27	1	16	366-003-021	Shaft For 3/4 Inch Servo	1
				17	367-003-043	Quad O-Ring	1
				17	366-003-004	1 Inch Servo Valve Body	1
					366-003-020	3/4 Inch Servo Valve Body	1
				18	366-003-010	1 Inch Butterfly Disc	1
					366-003-007	3/4 Inch Butterfly Disc	1
2	392-001-000	Standoff 8-32 x 7/8	4	19	392-010-013	Round Head SS Screw #6-32 x 1/4	2
3	365-003-023	Cover 4 11/16 Tall	1	20	388-003-037	1 Foot Servo Cable, 3-Wire	1
4	392-010-019	6 AB x 3/8 SM Screw	4	21	367-001-001	Large Dust Cap	1
5	380-204-005	1 N4005 Rectifier	2	22	367-001-014	Cable Tie, Black, 8 Inch	1
6	379-399-103	.01 MFD Capacitor	1	23	367-003-059	2/3 Cond. Cable Strain Relief	1
7	360-000-260	Tapped Switch Cam	1	24	392-010-020	Whiz-Lock Bolt For "ECM" Motor #8-32 x 3/4"	4
8	392-010-024	Set Screw 10-32 x 1/4 Knr	1		950-004-107	Whiz-Lock Bolt For "MP" Motor #8-32 x 1 1/4"	4
9	392-010-007	Socket Head Cap Screw 8-32 x 1/4	6	25	393-002-013	Rectangular "Hiniker" Decal	1
10	365-003-014	Motor Mount Plate	1	26	388-004-016	Wire, 6 Inch, 22 Gauge	1
11	950-004-032	Pan Head Screw #8-32 x 1/2	4	27	39302170	Label, MP Motor Cover	1
12	383-101-002	Switch Mount Hardware	1				

SEC 4

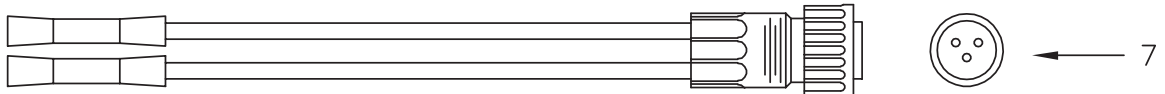
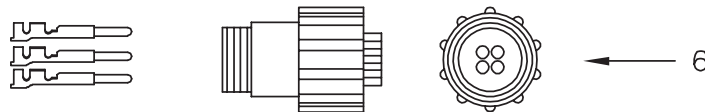
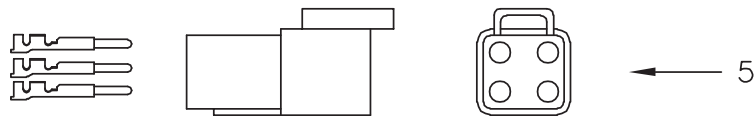
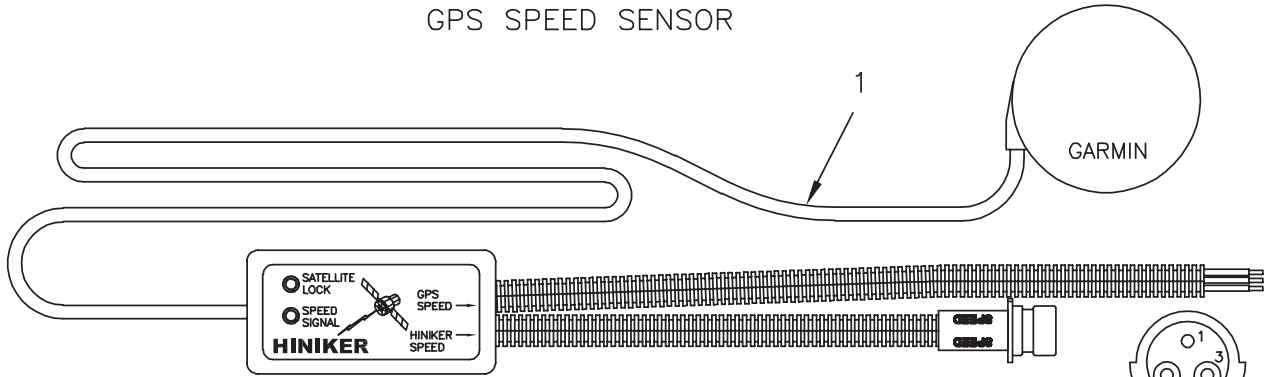
SPEED SENSORS

INDEX..... 1
GPS SPEED SENSOR.....2
RADAR INTERFACE MODULES3-4
HUB PLATE SENSORS 5
MAGNETIC TYPE SENSOR6
TRANSMISSION SENSORS6

SPEED SENSORS

GPS SPEED SENSOR

GPS SPEED SENSOR

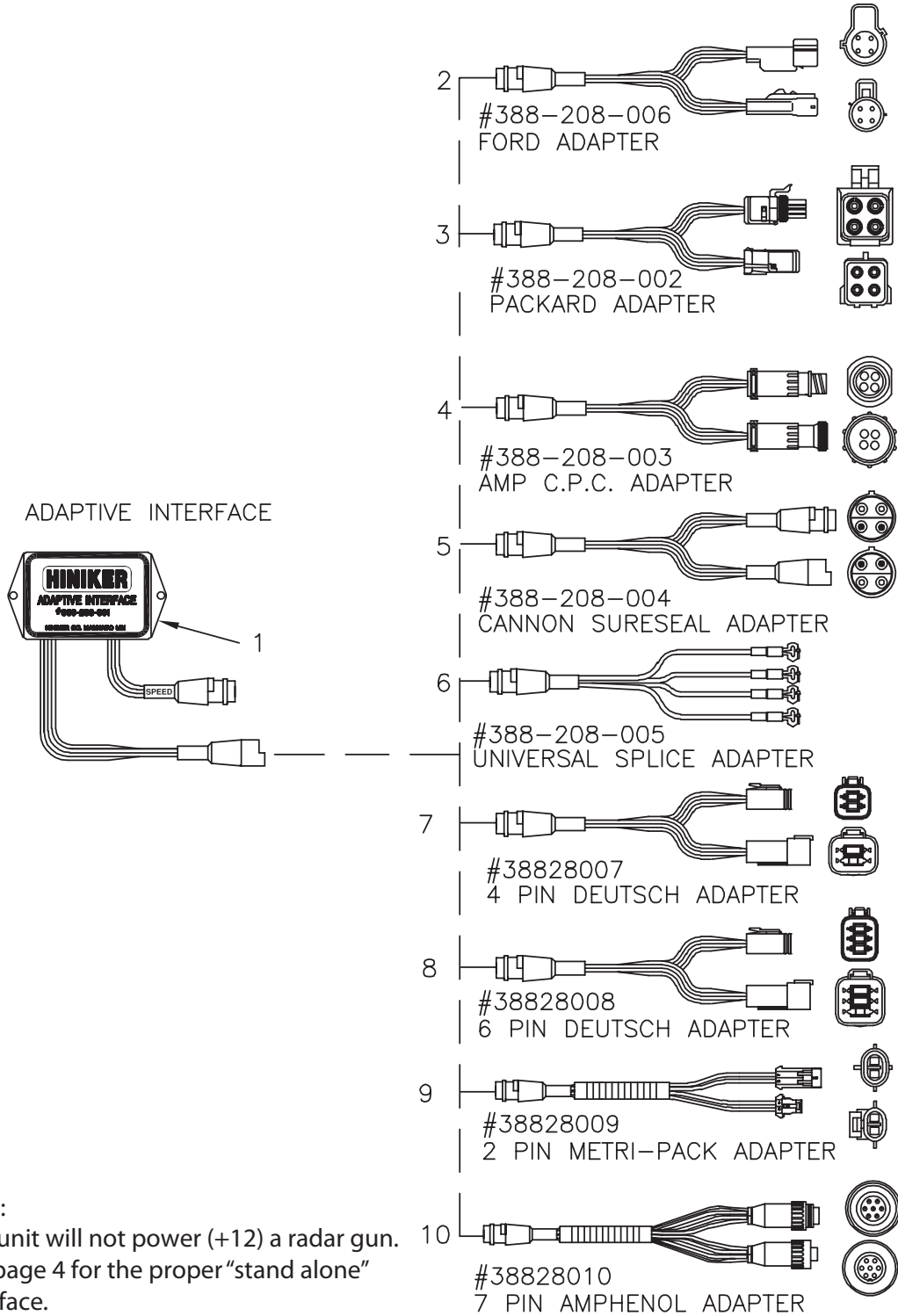


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DWG. NO. 6603

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	8614	GPS1 Speed Sensor Kit (Sensor And Converter Module)	A/R	5	36028006	Connector Kit 4-Pin Deutsch	A/R
	39414000	GPS1 Speed Sensor Only (Does Not Include Hiniker Converter Module)	A/R	6	36028007	Connector Kit 4-Pin AMP CPC	A/R
2	36028003	Connector Kit 4-Pin Weatherpack	A/R	7	36028008	Connector Kit Conxall 3 Pin 2 Wire, (For Raven Consoles)	A/R
3	36028004	Connector Kit 3-Pin Weatherpack	A/R	8	39108003	Velcro, Hook 1 1/2 Wide (Per Inch) (Not Shown)	A/R
4	36028005	Connector Kit 2-Pin Weatherpack	A/R	9	39108004	Velcro, Loop 1 1/2 Wide (Per Inch) (Not Shown)	A/R

RADAR INTERFACE MODULES



Note:
This unit will not power (+12) a radar gun.
See page 4 for the proper "stand alone"
interface.

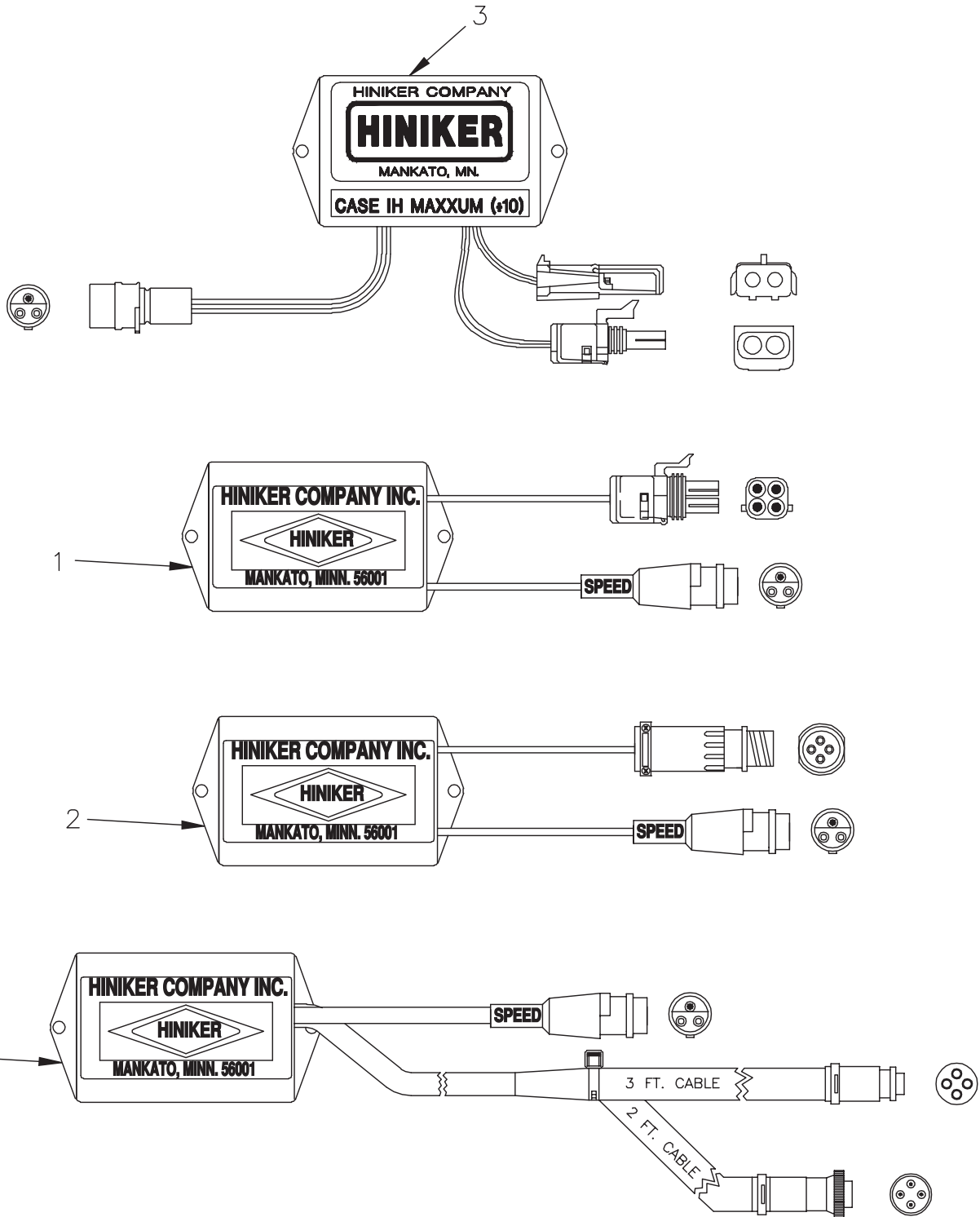
DWG. NO. 6606

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	360-208-001	Adaptive Interface (Requires One Adapter, Items 2, 3, 4, 5, 6, 7, 8, 9, 10)	A/R	6	388-208-005	Adapter-Universal With Splice Tabs	A/R
2	388-208-006	Adapter-Ford/New Holland Connector	A/R	7	38828007	Adapter 4 Pin Deutsch Connector	A/R
3	388-208-002	Adapter-Packard Square Connector	A/R	8	38828008	Adapter 6 Pin Deutsch	A/R
4	388-208-003	Adapter-Amp CPC Connector	A/R	9	38828009	Adapter 2 Pin Metri-Pack Connector	A/R
5	388-208-004	Adapter-Cannon Sure Seal Connector	A/R	10	38828010	Adapter 7 Pin Amphenol Connector	A/R

SPEED SENSORS

RADAR INTERFACE MODULES

SEC 5

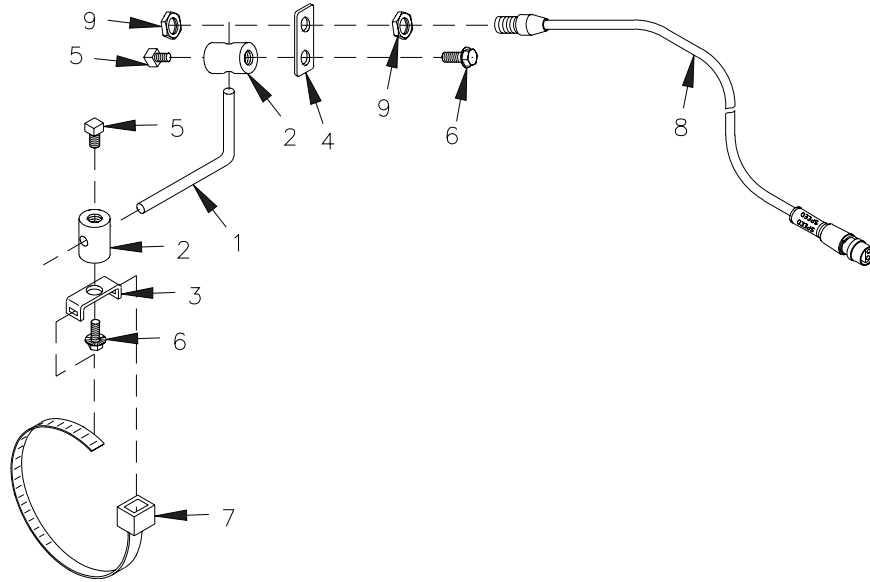


DWG. NO. 6602A

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	363-008-003	Standard Interface With Square Connector (Magnavox To Hiniker Control Only)	A/R	3	36028002	Case/IH. Maxxum Transmission Interface	A/R
2	363-008-006	Standard Interface With CPC Round Connector (D.J. Or Vansco To Hiniker Control Only)	A/R	4	8090	D.J. To Hiniker "Y" Cable Feed Through Interface	A/R

SPEED SENSORS

UNIVERSAL MOUNT BRACKET AND HUB PLATE SENSOR

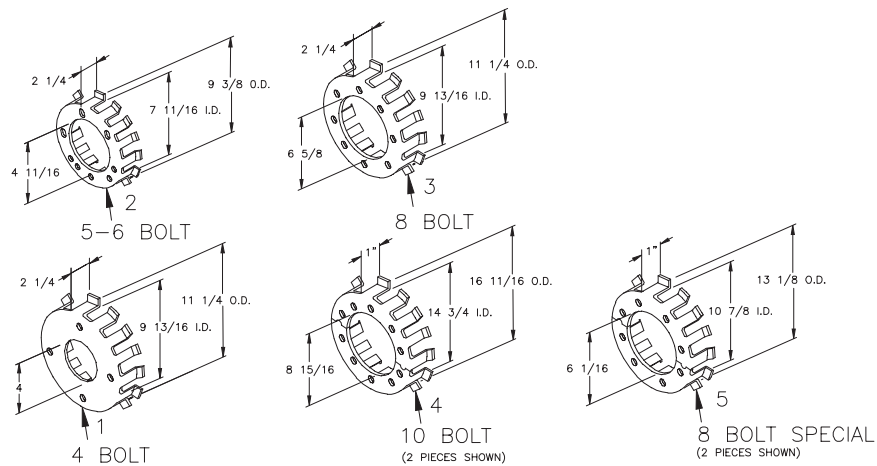


DWG. NO. 1020

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	360-000-192	3/8 Diameter 90° Rod	1	7	958-025-004	4 Inch Hose Clamp	1
2	360-000-193	Connector Sleeve	2	8	363-003-020	20 Foot Speed Sensor (Includes 2 Nylon Nuts)	1
3	360-000-194	Mounting Bracket	1		363-003-120	12 Inch Speed Sensor (Includes 2 Nylon Nuts)	A/R
4	360-000-195	Sensor Mount	1	9	367-001-007	Nylon Nut For Sensor	2
5	950-008-002	Square Head Set Screw 3/8-16 x 1/2	2		363-003-030	Universal Mounting Bracket (Includes Items 1, 2, 3, 4, 5, 6, 7)	1
6	950-002-008	Hex Flange Whiz Bolt 3/8-16 x 3/4	2				

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HUB PLATES



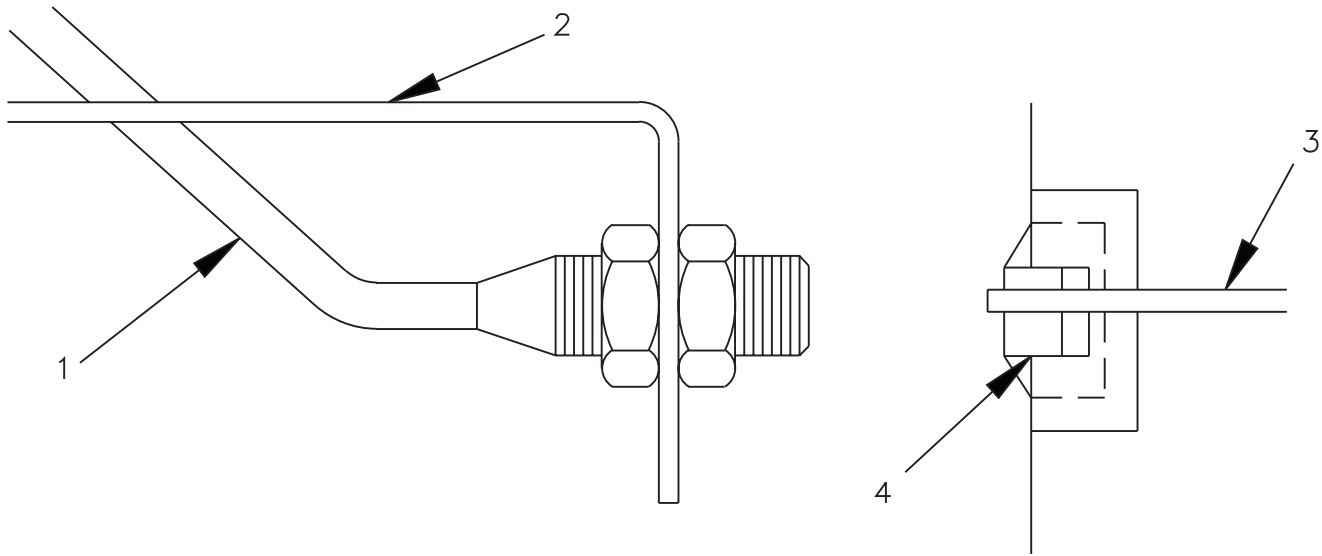
DWG. NO. 5800

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	360-000-167	5 Or 6 Bolt Hub Plate	A/R	4	627397	10 Bolt Hub Plate	2
2	360-000-168	8 Bolt Hub Plate	A/R	5	627650	8 Bolt Hub Plate For Adjustable Axial	2
3	360-000-203	4 Bolt Hub Plate	A/R				

1. The 4 bolt hub plate is for (4) 9/16 inch bolts on a 5-inch bolt circle.
 2. The 5 bolt hub plate is for (5) 9/16 inch bolts on a 5 1/2 inch bolt circle.
 3. The 8 bolt hub plate is for (8) 5/8 inch bolts on a 8-inch bolt circle.
 4. The 10-bolt hub plate is for (10) 3/4 inch bolts on an 11 1/4 inch bolt circle.
 5. The 8 bolt hub plate (special for adjustable axle) is for (8) 5/8 inch bolts on an 8 inch bolt circle.
- The 6 bolt hub plate is for (6) 9/16 inch bolts on a 6-inch bolt circle.

SPEED SENSORS

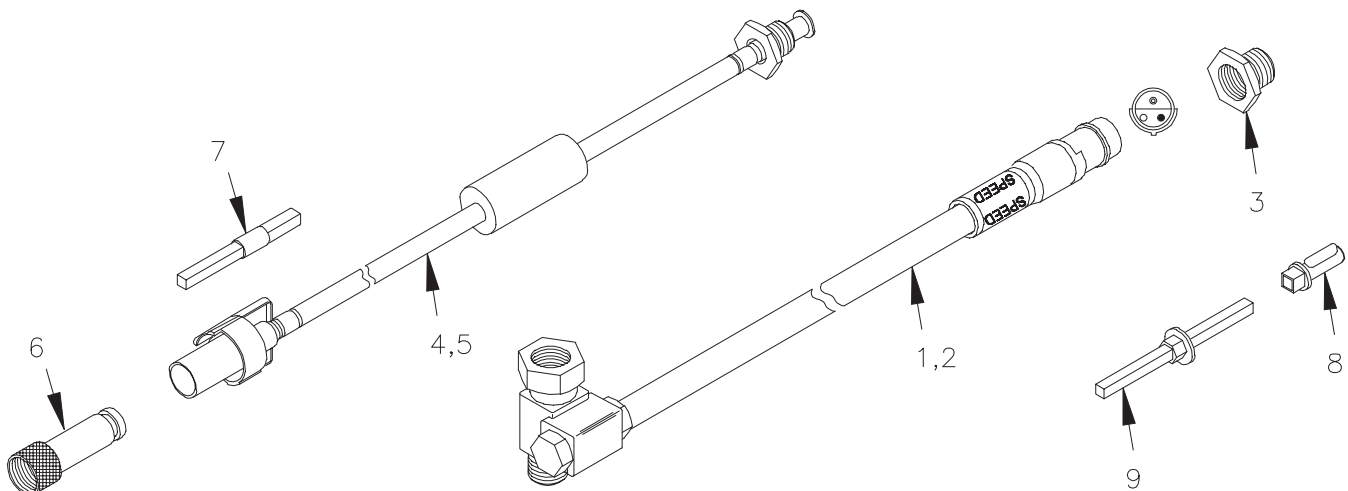
MAGNETIC TYPE SENSOR



DWG. NO. 1820

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	363-006-005	20' Speed Sensor (Magnetic Type) Distance	A/R	3	367-001-011	14 Inch Cable Tie	A/R
2	365-006-002	Sensor Mount Bracket * NOTE: Complete Kit Order Wholegoods Number 8201	A/R	4	367-006-004	1 Inch Magnet Strip	A/R
					363-006-006	Sensor Mount Kit (Includes Items 2, 3, 4)	

TRANSMISSION SENSORS



DWG. NO. 6318

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
	8022	Ford Speedometer Cable Kit (Includes Items 2,3,7,9)	A/R	5	394-008-003	Ford Speedometer Cable 20 Inch	A/R
	8079	General Transmission Sensor Kit (Includes Items 2,4,6,7,9)	A/R	6	394-008-001	Ford Adapter Sleeve	A/R
1	363-003-008	20 Foot Truck Transmission Sensor	A/R	7	394-008-002	Ford Adapter Key	A/R
2	363-003-033	10 Foot Truck Transmission Sensor	A/R	8	394-001-007	1/8 x 3/8 Inch Adapter Key	A/R
3	394-001-006	Adapter 5/8 Female To 7/8 Male	A/R	9	394-001-010	Arthur Allen Speedometer Sensor Drive Pin	A/R
4	394-008-000	Ford Speedometer Cable 13 Inch	A/R				

HEAT EXCHANGER

INDEX..... 1

HEAT EXCHANGER 2007-PRESENT PAINTED WHITE 2

HEAT EXCHANGER MOUNTING PACKAGE 2007- PRESENT 3

NH3 CONVENIENCE PLUMBING PACKAGE 4

STRIP-TILL NH3 PLUMBING PACKAGE 5

HI-CAPACITY DUAL HEAT EXCHANGER PACKAGE 6-7

HEAT EXCHANGER PRE 2007 SILVER-GRAY, EXTERNAL TIE BOLT MODEL 8

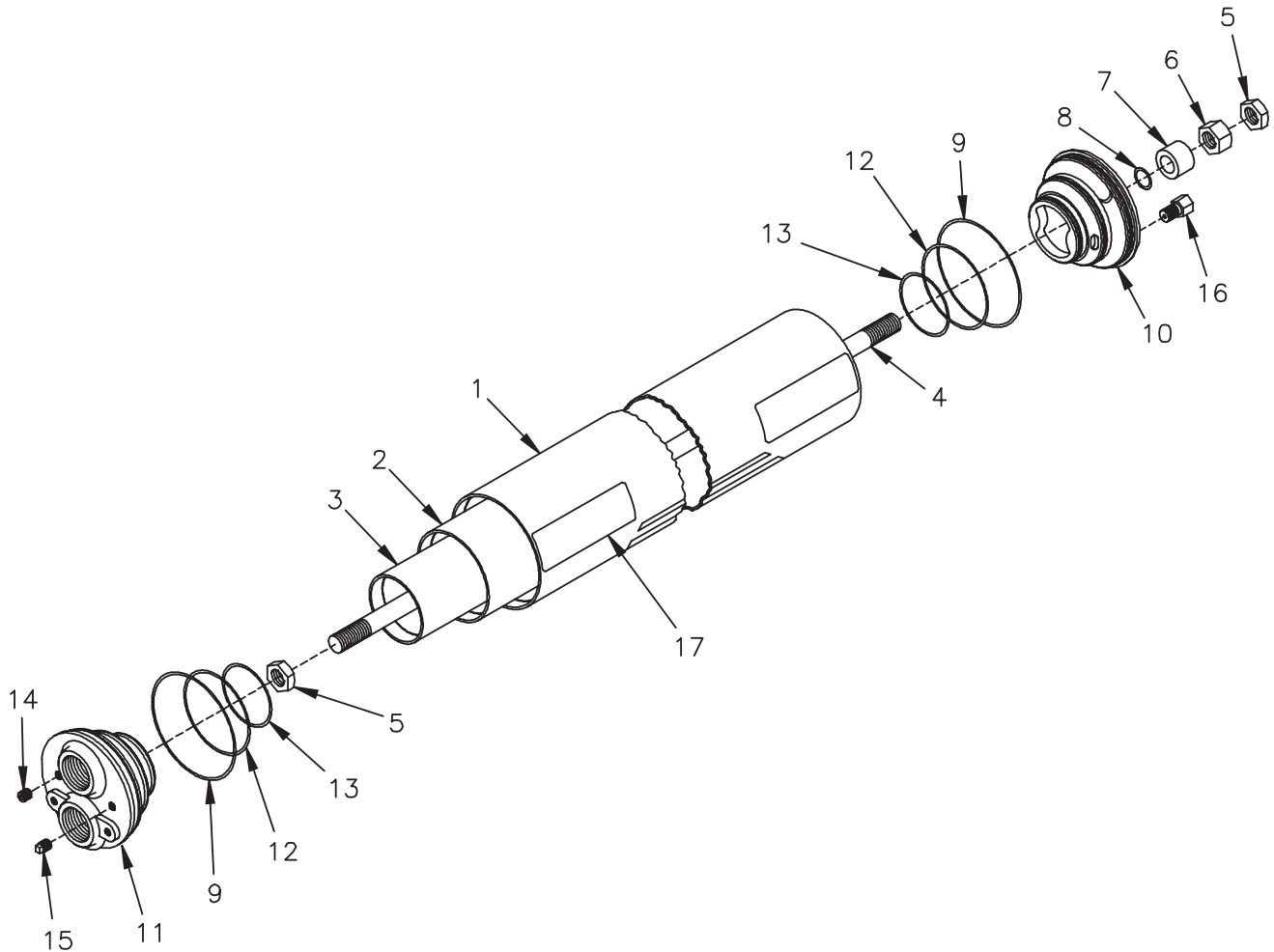
HEAT EXCHANGER PRE 1984 SILVER-GRAY INTERNAL TIE BOLT MODEL 9

8088 NH3 INSTALLATION KIT. CONVERTS FROM STARFLOW VALVE TO HM860
FLOWMETER / 1" SERVO SETUP 10

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HEAT EXCHANGER

36013004 HEAT EXCHANGER 2007 & NEWER

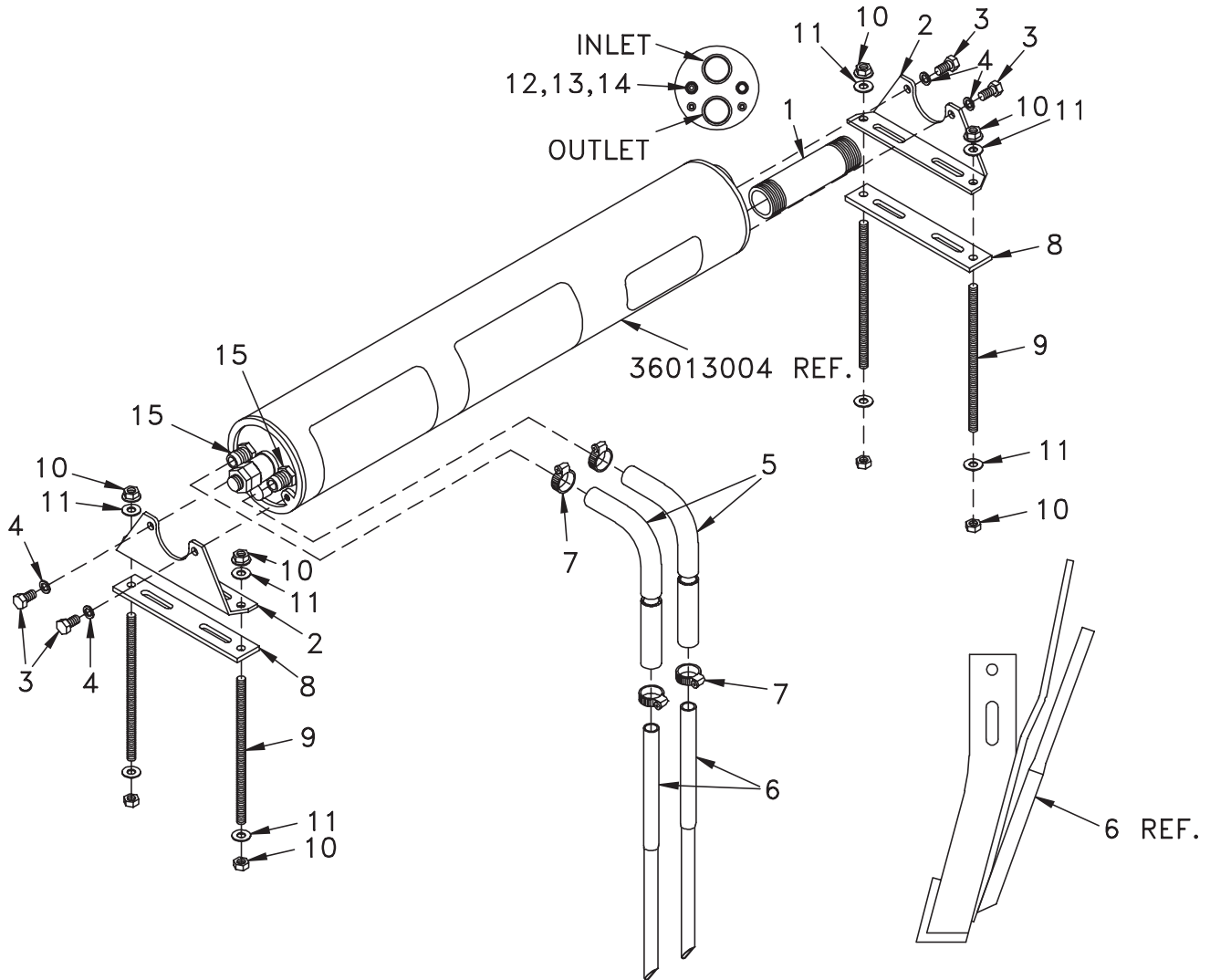


DWG. NO. 6608

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	36605000	Outer Steel Tube	1	12	367-003-041	NH3 Middle O-Ring #1-153	2
2	360-000-239	Center Tube	1	13	367-003-042	NH3 Inner O-Ring #1-145	2
3	360-000-238	Inner Tube	1	14	39216018	Hex Socket Plug 1/8 NPT With 5/32 Orifice	1
4	360-000-237	Tie Rod	1	15	060050	Pipe Plug 3/8 NPT	1
5	951-005-052	Jam Nut 3/4-10	2	16	360-000-249	Hydrostatic Relief Valve	1
6	951-001-009	Hex Nut 3/4-10	1	17	39302156	Heat Exchanger Decal Kit	1
7	360-000-236	Gland	1	18	39300035	NH3 Operators Manual	1
8	360-000-240	Port O-Ring	1	19	363-003-067	Repair Kit-Heat Exchanger (Includes Items 8, 9, 12 & 13)	A/R
9	367-003-040	NH3 Outer O-Ring #1-157	2		36013004	Complete Heat Exchanger (Includes Items 1-18)	A/R
10	36510002	Vapor Outlet-Machined	1		8175	36013004 Heat Exchanger With 36015009 Mount Package	A/R
11	36510001	Main Inlet/Outlet-Machined	1				

6 CMS

HEAT EXCHANGER MOUNT PACKAGE
2007 & NEWER

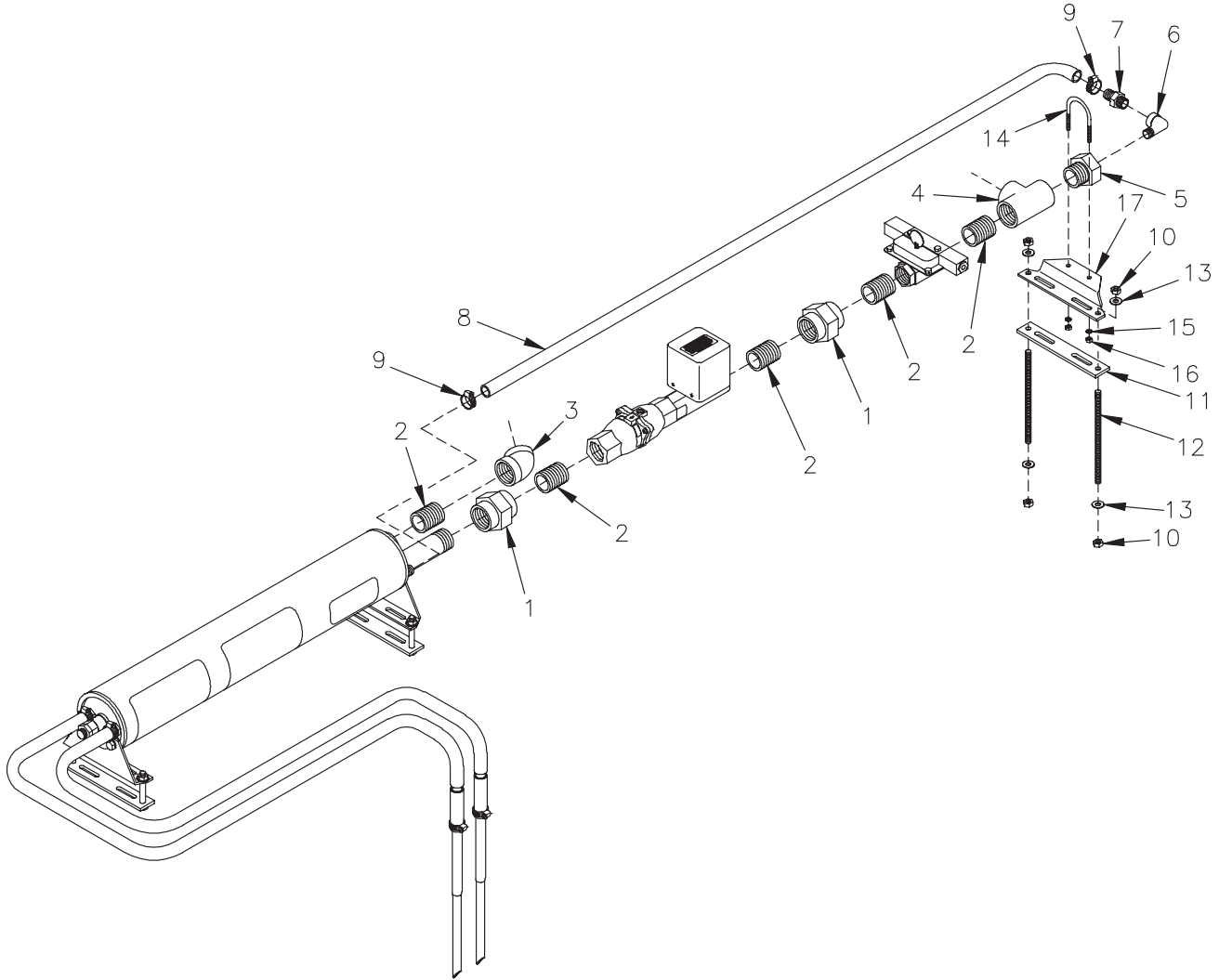


DWG. NO. 6051

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	39216017	1 1/4 x 6 Sch 80 Pipe Nipple	1	10	951-002-003	Hex Flanged Whiz Lock Nut 3/8-16	8
2	36510000	Mounting Bracket	2	11	952-002-003	Flat Washer 3/8 Wrt	8
3	950-001-089	Hex Head Cap Screw 3/8-16 x 3/4 Gr. 5	4	12	392-016-003	3/8-18 NPT To 3/8 Hose Barb Adapter	1
4	952-001-007	Lock Washer 3/8 Med Split SAE	4	13	39216019	Hex Socket Plug 1/8 Orifice	1
5	39216022	3/4 10 Eva Tubing x 18 Ft	1	14	39216020	Hex Socket Plug 3/32 Orifice	1
6	39216023	3/4 In Vapor Tube	2	15	39216021	Straight Hose Barb Fitting	2
7	604504	Clamp-Hose 5/8-3/4	4	16	39308091	Instruction Sheet / Parts List (Not Shown)	1
8	360-000-225	Mount Strap	2		36015009	Heat Exchanger Mount Package (Includes Items 1 Thru 16)	A/R
9	360-000-226	Mount Stud	4				

HEAT EXCHANGER

NH3 CONVENIENCE PLUMBING PACKAGE

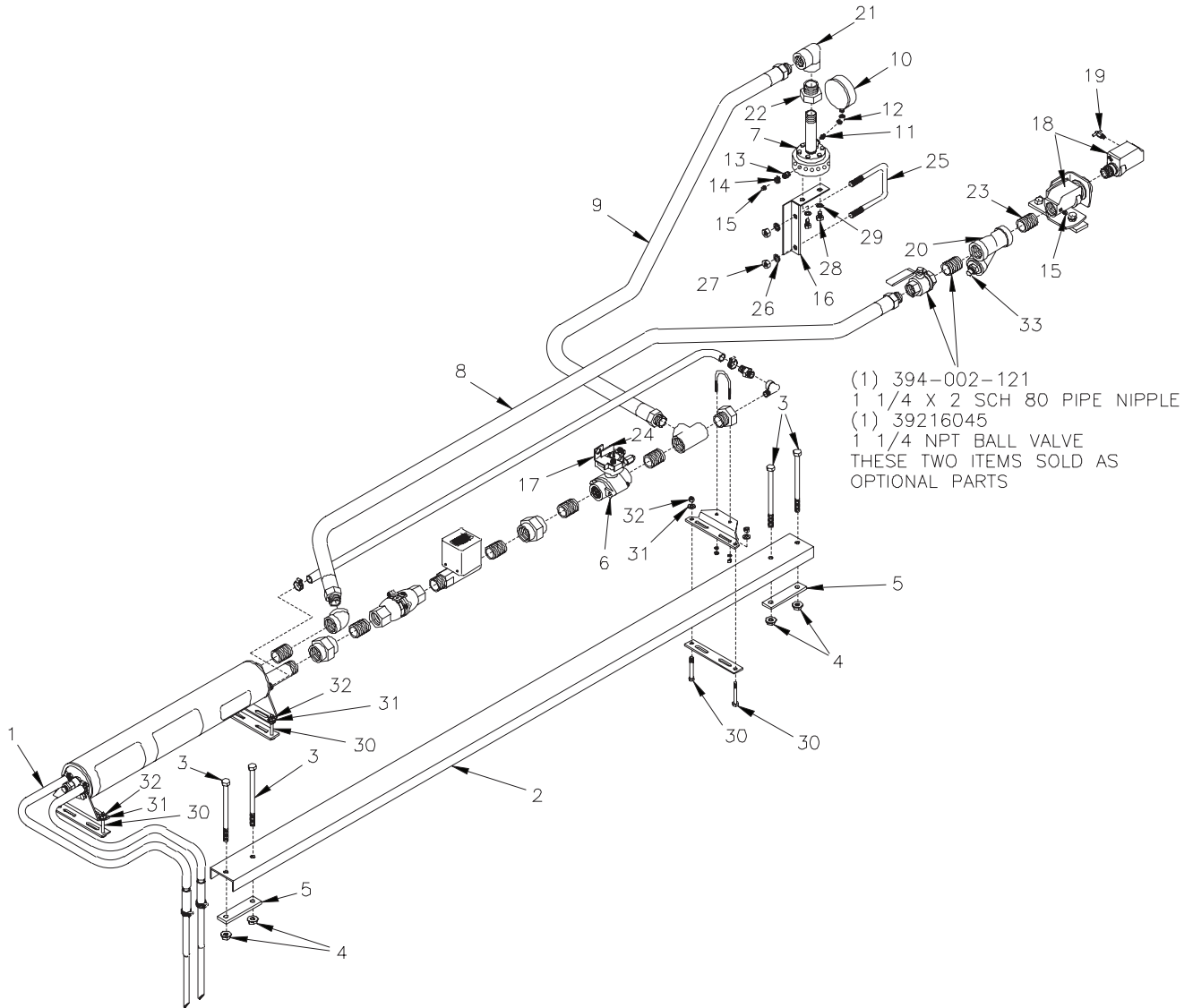


DWG. NO. 6052

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	39216024	1 1/4 Npt Swivel Union 3000#	2	11	360-000-225	Mount Strap	1
2	394-002-121	Nipple 1 1/4 x 2 Sch 80	5	12	360-000-226	Mount Stud	2
3	39216025	1 1/4 NPT 45 Degree Elbow 3000#	1	13	952-002-003	Flat Washer 3/8 Wrt	4
4	39216026	1 1/4 NPT Tee 3000#	1	14	394-002-013	U-Bolt 1/4-20 x 2	1
5	39216027	1 1/4 NPT x 3/8 NPT Hex Bushing 3000#	1	15	952-001-001	Lock Washer 1/4 Med Split SAE	2
6	39216028	3/8 NPT 90 Degree Street Elbow 3000#	1	16	951-001-003	Hex Nut 1/4-20	2
7	392-016-003	3/8-18 NPT To 3/8 Hose Barb Ad	1	17	39515003	Support Bracket	1
8	39216029	3/8 ID Eva Tubing 4'	1	18	39308092	Instruction Sheet / Parts List	1
9	958-025-002	Clamp-Hose 1/2 SS	2		8172	Convenience Plumbing Package (Items 1-18)	
10	951-002-003	Flanged Whiz Lock Hex Nut 3/8-16	4				

HEAT EXCHANGER

STRIP-TILL NH3 PLUMBING KIT

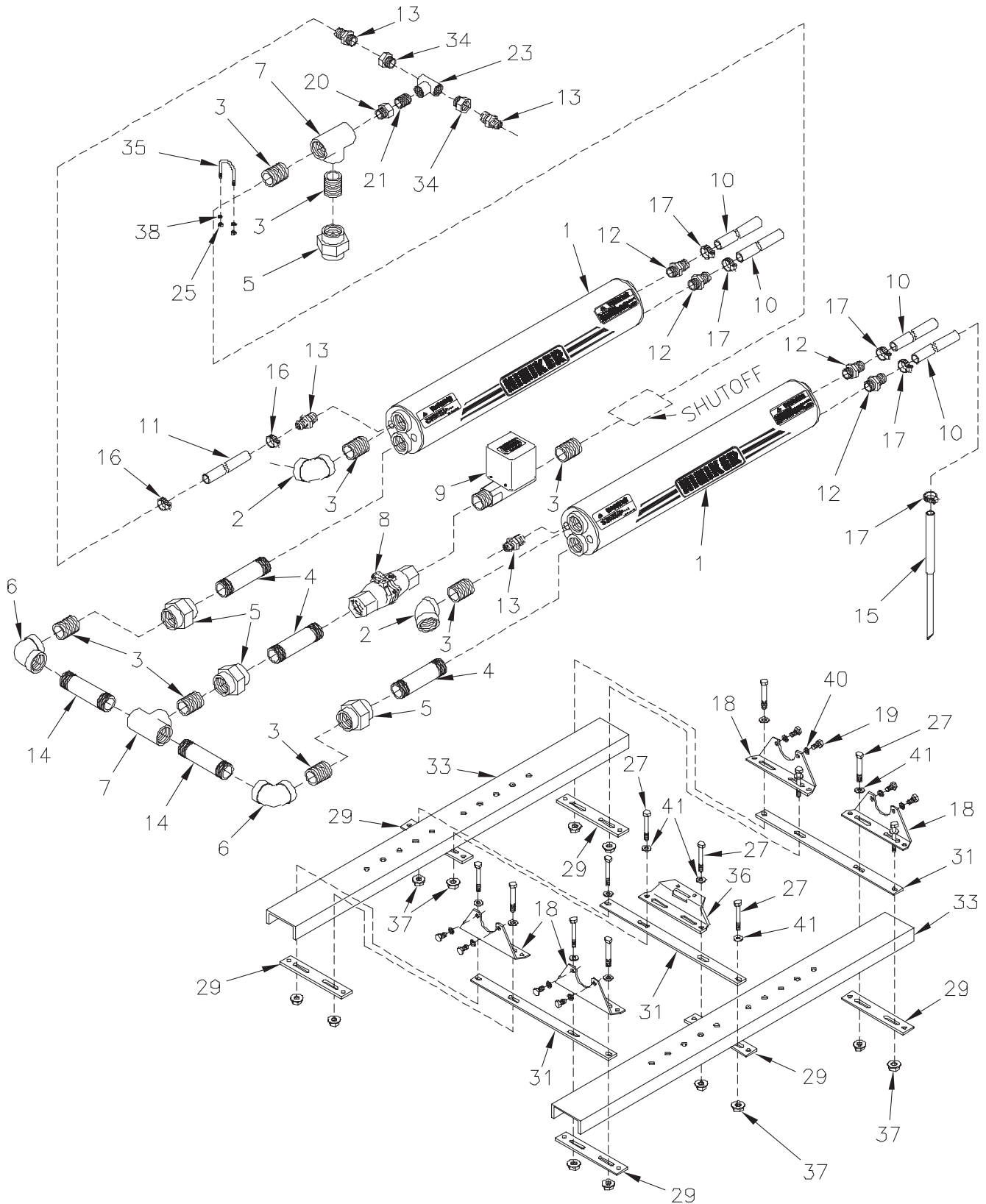


DWG. NO. 6520

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	39216022	3/4 Id Eva Tubing x 18'	1	20	3921 6040	1 1/4 Y-Strainer	1
2	36515004	Channel	1	21	39216041	1 1/4 NPT 90 Degree Elbow	1
3	950-001-282	Hex Head Cap Screw 1/2-13 x 8 1/2 Gr. 5	4	22	39216042	1 1/4 NPT x 1 NPT Hex Bushing 3000#	1
4	951-002-004	Flanged Whiz Lock Hex Nut 1/2-13 Nc	4	23	394-002-121	1 1/4 x 2 Sch 80 Pipe Nipple	1
5	36515005	Channel Mounting Strap	2	24	36515016	Hydraulic Valve Shutoff Indicator	1
6	39216048	Hydraulic NH3 Shutoff Valve	1	25	850-001-072	U-Bolt 5/8-11 4 5/8 x 5 9/16	1
7	39216031	16 Port Manifold	1	26	952-001-005	Lock Washer 5/8 Inch	2
8	39216032	NH3 1 1/4 Hose Assembly x 4'	1	27	951-001-008	Hex Nut 5/8-11	2
9	39216033	NH3 1 1/4 Hose Assembly X 10'	1	28	950-001-065	Hex Head Cap Screw 1/2-13 x 3/4 Gr. 2	2
10	39216034	NH3 Pressure Gauge	1	29	952-001-004	Lock Washer 1/2 Inch	2
11	39216035	Hex Pipe Nipple 1/4 NPT	1	30	031-06113	Hex Head Cap Screw 3/8-16 X 3 Gr. 5	6
12	39216036	Pipe 45 Dec Elbow 1/4 NPT	1	31	952-002-003	Flat Washer 3/8 Wrt	6
13	39216037	1/4 NPT x 3/8 Hose Barb Fitting	16	32	951-002-003	Flanged Whiz Lock Hex Nut 3/8-16	6
14	958-025-002	1/2 Hose Clamp	32	33	39216046	Pipe Plug 3/4 NPT	1
15	203-51155	Pipe Plug 1/4	11	34	39308092	Instruction Sheet / Parts List	1
16	36515007	Manifold Support Weld	1		36117000	Plumbing Kit Strip Till NH3 (Items 1 Through 34 For Complete 8160 Strip-Till NH3 Control Package Refer To Whole Goods Number 8173	A/R
17	36515015	Run Hold Bracket	1				
18	39216038	Flo-Max Breakaway Coupler W/Bracket	1				
19	39216043	Bleeder Valve W/T Handle	1				

HEAT EXCHANGER

HIGH CAPACITY NH3 CONTROL SYSTEM

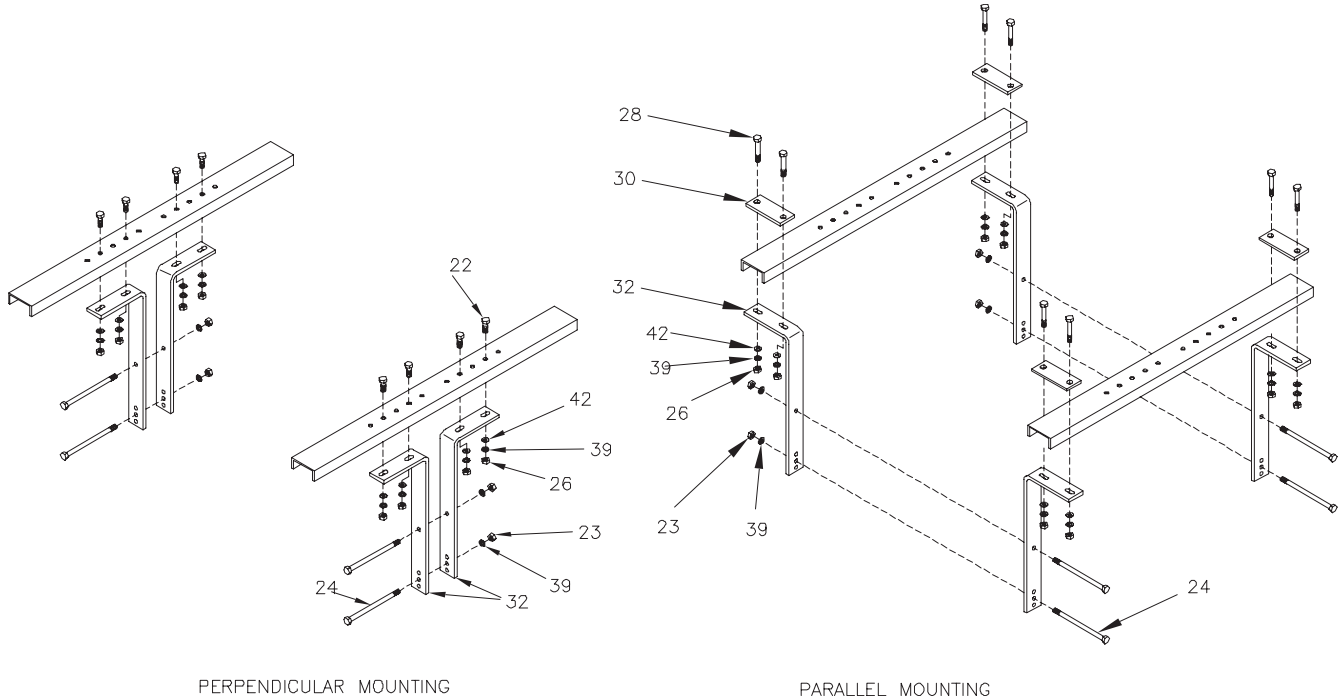


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DWG. NO. 6609

HEAT EXCHANGER

HIGH CAPACITY NH3 CONTROL SYSTEM



DWG. NO. 6609

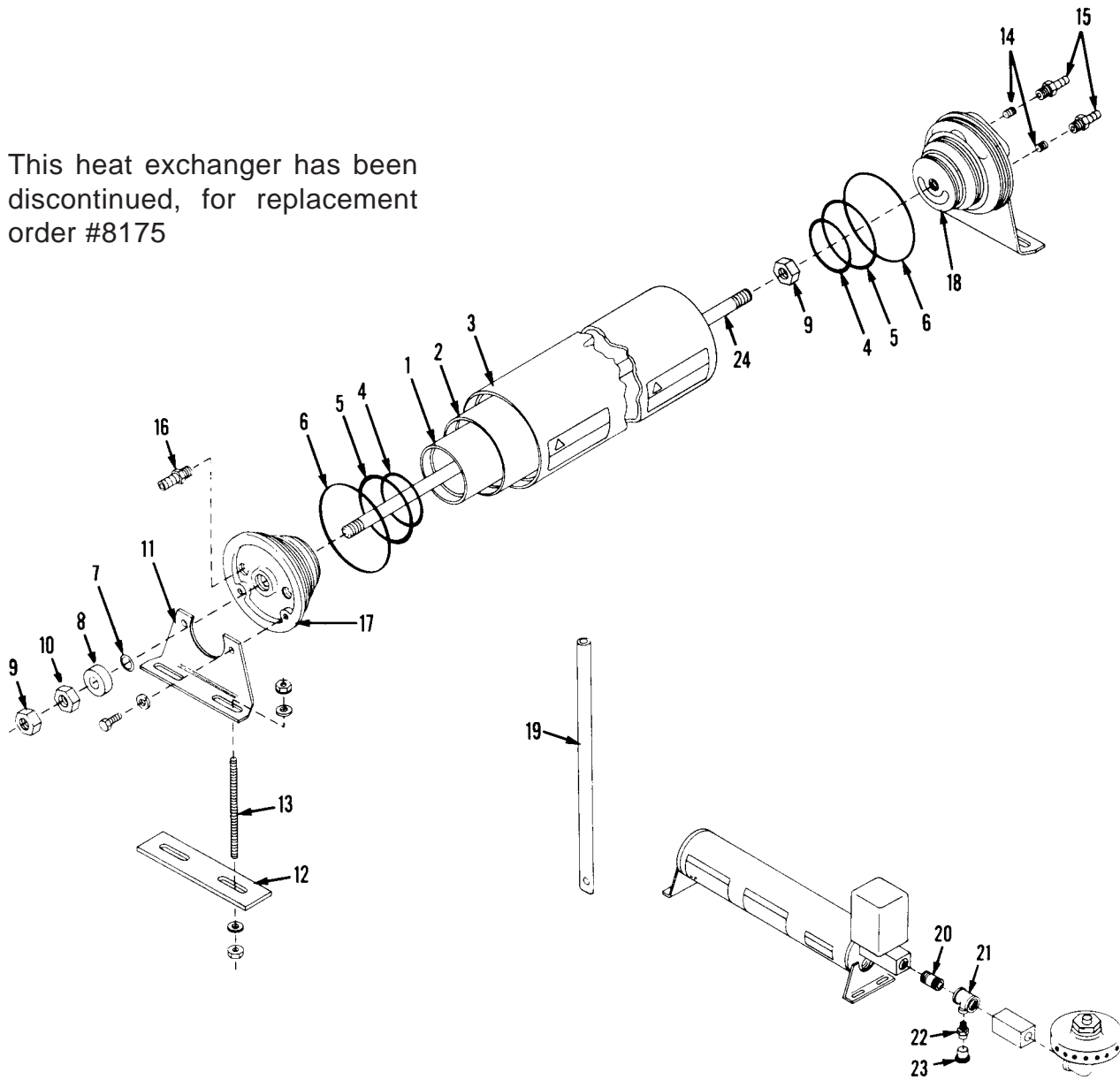
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REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	36013004	Heat Exchanger Assembly Boxed	2	23	39216050	1/2 NPT Tee 3000#	1
2	39216025	1 1/4 Npt 45 Degree Elbow 3000#	2	24	950-001-342	Hex Head Cap Screw 1/2-13 x 8 3/4 Gr. 5, 4" Thread	4
3	394-002-121	Nipple 1 1/4 x 2 Sch 80	8	25	951-001-003	Hex Nut 1/4-20	2
4	3921 6017	Pipe Nipple 1 1/4 x 6 Sch 80	3	26	951-001-007	Hex Nut 1/2-13	12
5	39216024	1 1/4 NPT Swivel Union 3000#	4	27	031-06113	Hex Head Cap Screw 3/8-16 x 3 Gr. 5	12
6	39216041	1 1/4 NPT 90 Degree Elbow 3000#	2	28	031-06212	Hex Head Cap Screw 1/2-13 x 3 1/4 Gr. 5	8
7	39216026	1 1/4 NPT Tee 3000#	2	29	360-000-225	Mount Strap	6
8	363-004-025	Flowmeter Assembly	1	30	36510003	Mount Plate Dual Heat Exchanger	4
9	36015010	2 Wire Servo 1 1/4 MF	1	31	36510004	Mounting Strap Dual Heat Exchanger	3
10	602986	Hose 3/4 Eva Clear	40FT	32	36510005	Mounting Bracket Dual Heat Exchanger	4
11	39216029	Hose 3/8 Eva x 4 Ft	2	33	36510006	Channel Dual Heat Exchanger	2
12	39216021	1/2 NPT x 3/4 Stir Hose Barb Ad	4	34	956-004-002	Bushing-Pipe 1/2 x 3/8	2
13	392-016-003	3/8-18 NPT To 3/8 Hose Barb Ad	4	35	394-002-013	U-Bolt 1/4-20 x 2	1
14	394-002-120	Nipple 1 1/4 x 4 Sch 80	2	36	39515003	Fitting Support Bracket	1
15	39216023	Vapor Tube 3/4"	4	37	951-002-003	Flanged Whiz Lock Hex Nut 3/8-16	12
16	958-025-002	Hose Clamp 1/2 Stainless Steel	4	38	952-001-001	Lock Washer 1/4 Med Split SAE	2
17	604504	Hose Clamp 5/8-3/4	8	39	952-001-004	Lock Washer 1/2 Med Split SAE	12
18	36510000	Mounting Bracket	4	40	952-001-007	Lock Washer 3/8 Ivised Split SAE	8
19	950-001-089	Hex Head Cap Screw 3/8-16 x 3/4 Gr. 5	8	41	952-002-003	Flat Washer 3/8 Wrt	12
20	39216049	1 1/4 x 1/2 Reducer Bushing 3000#	1	42	952-002-005	Flat Washer 1/2 Wrt	8
21	39216051	1/2 Close Nipple Sch 80	1	43	39308104	Installation Instructions (Not Shown)	A/R
22	950-001-125	Hex Head Cap Screw 1/2-13 x 1 1/2 Gr. 5	8	8177		High Capacity NH3 Control System (Includes Items 1-43)	A/R

HEAT EXCHANGER

EXTERNAL TIE BOLT NUT MODEL HEAT EXCHANGER SILVER GRAY, PRE 2007

This heat exchanger has been discontinued, for replacement order #8175



DWG. NO. 998A

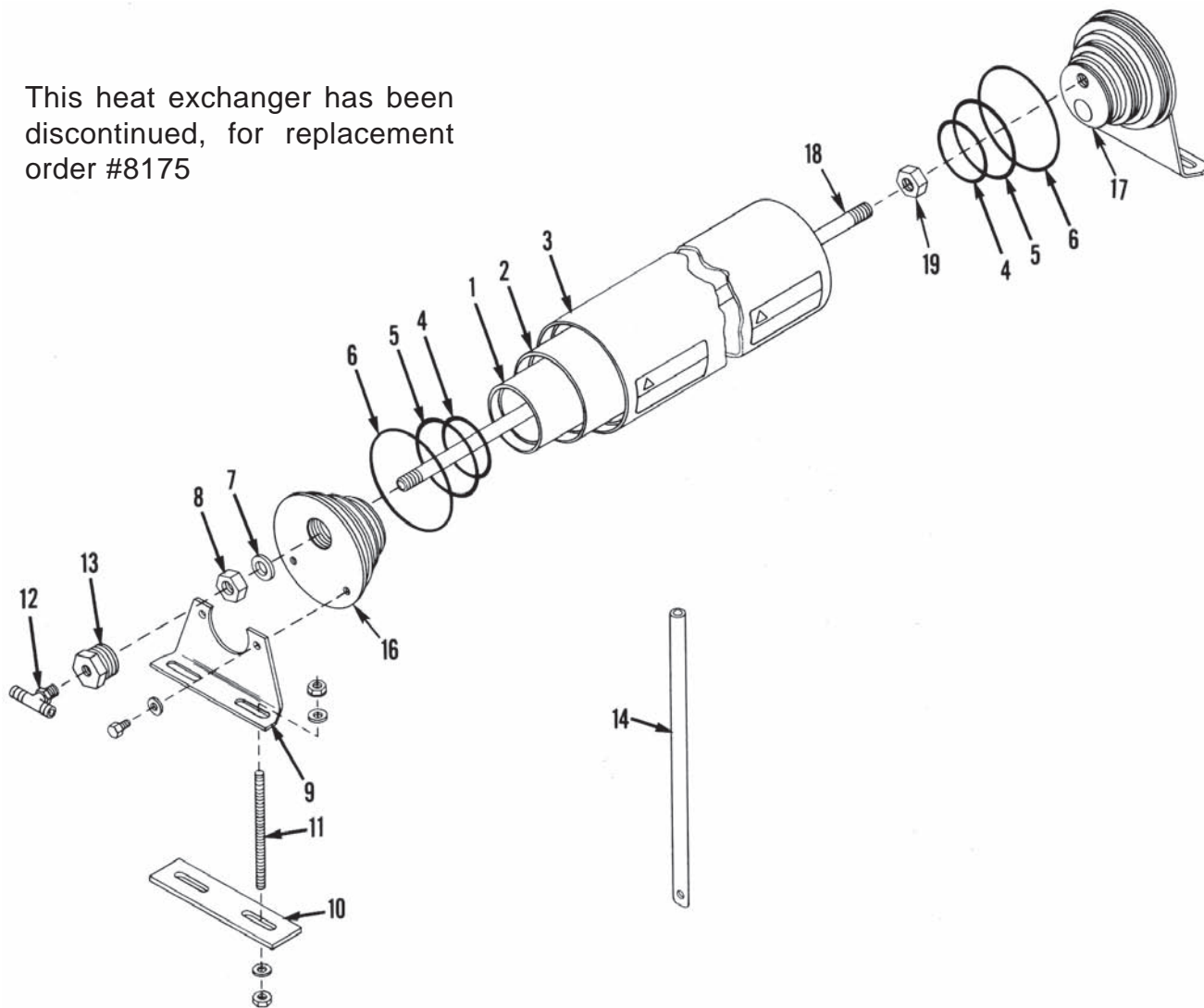
REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	360-000-238	Inner Tube	1	16	392-016-016	1/2-14 To 1/2 Inch Hose Barb (Low Press Outer Not Shown)	2
2	360-000-239	Center Tube	1	17	Not Serviced	End Cap Vapor Outlet	1
3	Not Serviced	Outer Tube	1	18	360-000-234	End Cap Main Inlet & Outlet	1
4-7	363-003-067	Heat Exchanger Seal Repair Kit		19	365-003-018	Vapor Tube	A/R
8	360-000-236	Gland	1	20	360-000-251	2 Inch Pipe Stub	1
9	951-005-052	Jam Nut 3/4-10	2	21	360-000-250	Reducing Tee	1
10	951-001-009	Hex Nut 3/4-10	1	22	360-000-249	Hydrostatic Relief Valve	1
11	360-000-227	Heat Exchanger Mount Bracket	2	23	360-000-235	Dust Cap	1
12	360-000-225	Mounting Strap	12	24	360-000-237	Tie Rod	1
13	360-000-226	Mounting Stud	2		360-004-012	Decal Kit (Not Shown)	A/R
14	392-016-000	Pipe Plug 1/8-27	2		360-000-246	NH3 Operators Manual	
15	392-016-003	3/8-18 NPT To 3/8 Hose Barb	2				

6 CMS

HEAT EXCHANGER

**EXTERNAL TIE BOLT NUT
MODEL HEAT EXCHANGER
PRE 1984**

This heat exchanger has been discontinued, for replacement order #8175

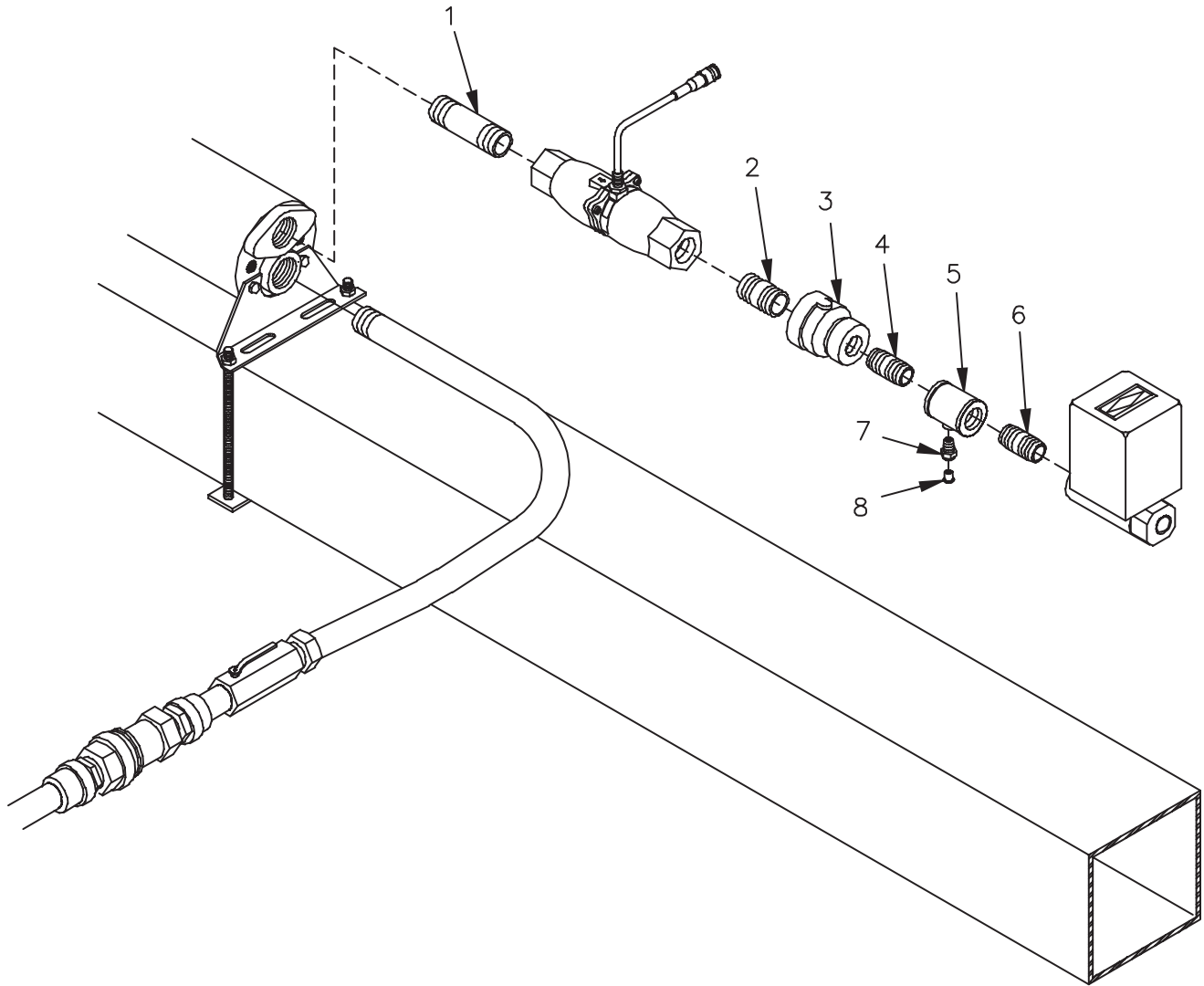


DWG. NO. 997

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	Not Serviced	InnerTube		12	Not Serviced	Nylon Tee	1
2	Not Serviced	Center Tube		13	Not Serviced	Straight Adapter 1 1/4 - 11 1/2 Inches	1
3	Not Serviced	Outer Tube	1	14	365-003-018	Vapor Injector Tube	A/R
4-6	363-003-067	Heat Exchanger Seal Repair Kit	1	15	360-004-012	Decal Kit (Not Shown)	A/R
7	Not Serviced	Lead Washer		16	Not Serviced	End Cap Vapor Outlet	
8	Not Serviced	5/8 Inch Hex Nut Grade 5		17	Not Serviced	End Cap Inlet/Outlet	
9	360-000-227	Heat Exchanger Mount Bracket	2	18	Not Serviced	Tie Rod	
10	360-000-225	Mounting Strap	2	19	Not Serviced	Jam Nut	
11	360-000-226	Mounting Stud	2		360-000-246	NH3 Operators Manual	

HEAT EXCHANGER

8088 NH3 KIT



DWG. NO. 6610

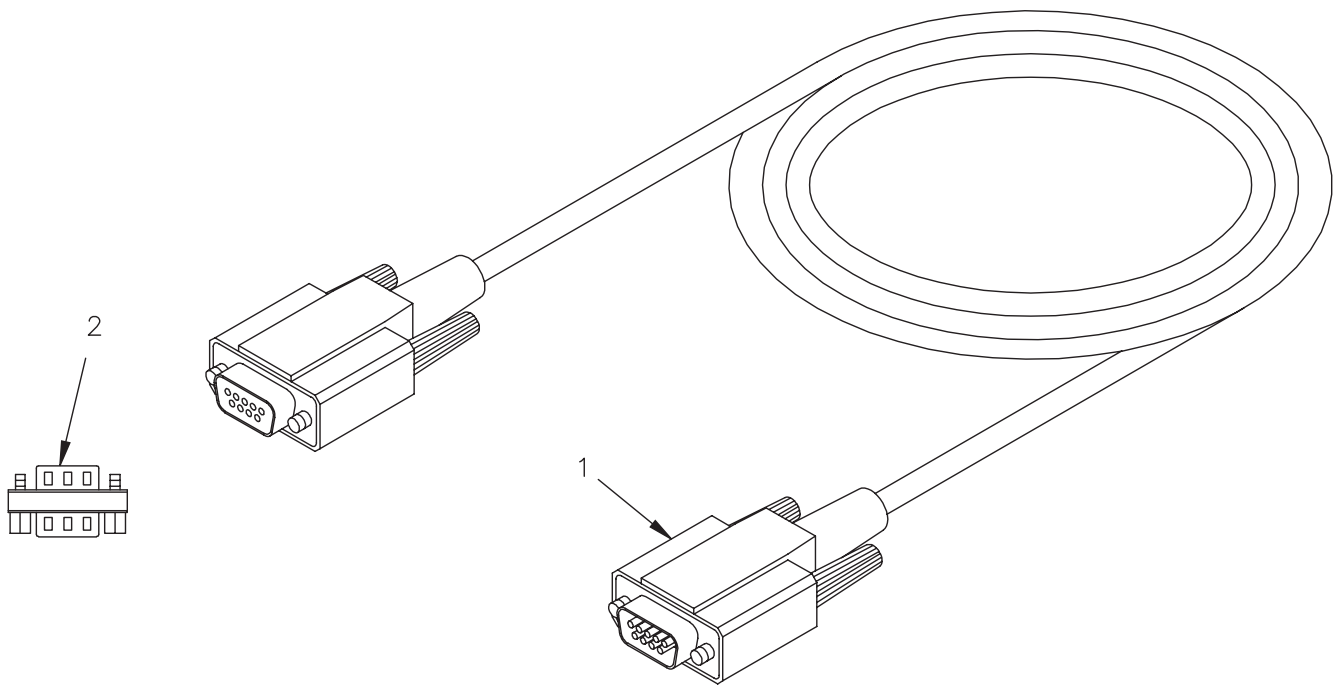
REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
	8088	NH3 Installation Kit (For Connecting Silver/Gray Heat Exchangers To A 1 Inch Servo) Includes Items 1-4.		4	360-000-251	Nipple 1 x 2 Sch 80	1
				5	360-000-250	Reducing Tee	A/R
1	394-002-120	Nipple 1 1/4 x 4 Sch 80	1	6	360-000-251	Nipple 1 x 2 Sch 80	A/R
2	394-002-121	Nipple 1 1/4 x 2 Sch 80	1	7	360-000-249	Hydrostatic Relief Valve	A/R
3	394-002-122	Reducing Coupling 1 1/4 x 1 Black	1	8	360-000-235	Dust Cap	A/R

SPECIALTY WIRING

- INDEX..... 1
- NULL MODEM SERIAL CABLE.....2
- SERIAL CABLE JD GSII 3
- HARNESS, JD GSII TO HINIKER COMPONENTS.....3
- HARNESS, AG LEADER INSIGHT TO HINIKER COMPONENTS.....3
- ADAPTER, RAVEN 3-PIN WIRING TO HINIKER FLOWMETER3
- ADAPTER, RAVEN 4-PIN WIRING TO HINIKER 2-WIRE VALVE.....3
- ADAPTER, RAVEN 2-PIN WIRING TO HINIKER 2-WIRE VALVE.....3

SPECIALTY WIRING

DB9 NULL MODEM CABLE

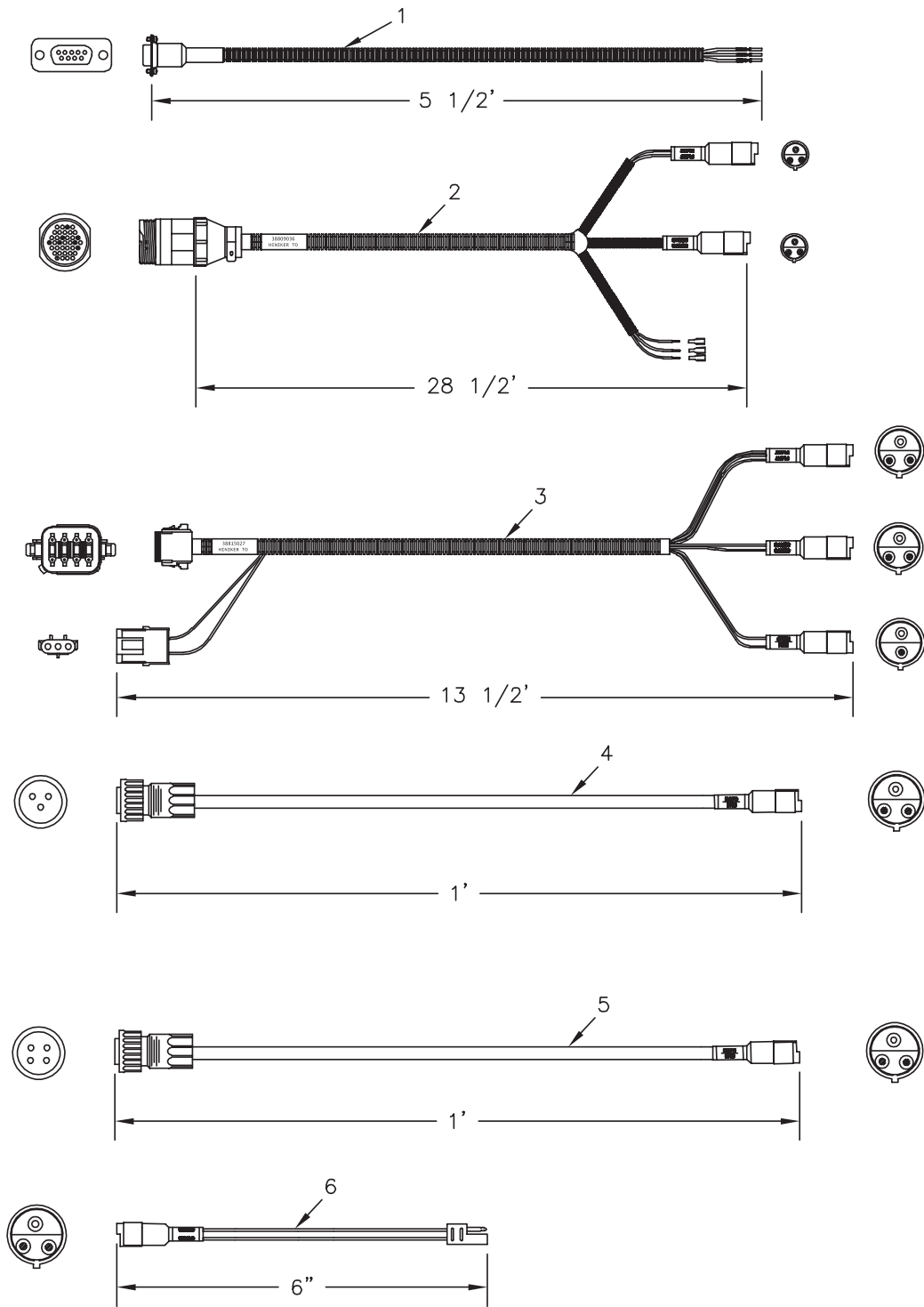


**SEC
7**

DWG. NO. 6604

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	38815033 38815034	DB9 Null Modem Kit, Inc. Items 1 And 2 DB9 Null Modem Cable, 6-Foot	1 1	2	38410021	DB9 Male/Male Gender Changer	1

SPECIALTY WIRING



DWG. NO. 6605

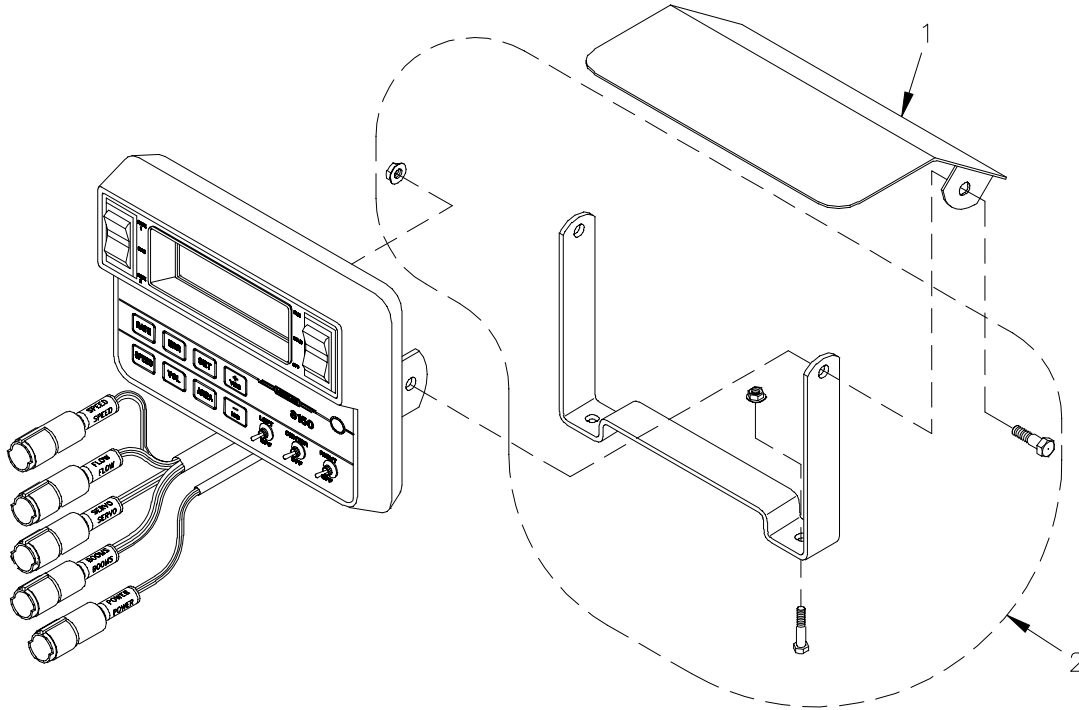
REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	38815028	Serial Cable, John Deere GSII To 8160 / 8605 Harness, John Deere GSII To Hiniker Components. Connects To HM860 Flowmeter, 2-Wire Servo Valve, And An Electric Shut Off Valve For NH3 Applications	A/R	4	38815031	Adapter, Raven Wiring To Hiniker Flowmeter 3-Pin Conxall To 3-Pin Sure Seal	A/R
2	38809036		A/R	5	38815032	Adapter, Raven Wiring To Hiniker 2-Wire Servo 4-Pin Conxall To 3-Pin Sure Seal	A/R
3	38815027	Harness, Insight To Hiniker Components. Connects From Liquid Control Module To HM860 Flowmeter, 2-Wire Servo Valve, And A Hydraulic Shut Off Valve. For NH3 Applications	A/R	6	38815030	Adapter, Raven Wiring To Hiniker 2-Wire Servo 2-Pin Flat To 3-Pin Sure Seal	A/R

8100/8150 CONTROL SYSTEMS

INDEX..... 1
CONSOLE & MOUNTING HARDWARE2
SYSTEM DIAGRAMS3-5
OPTIONAL EQUIPMENT 6-8

8100/8150 CONTROL SYSTEMS

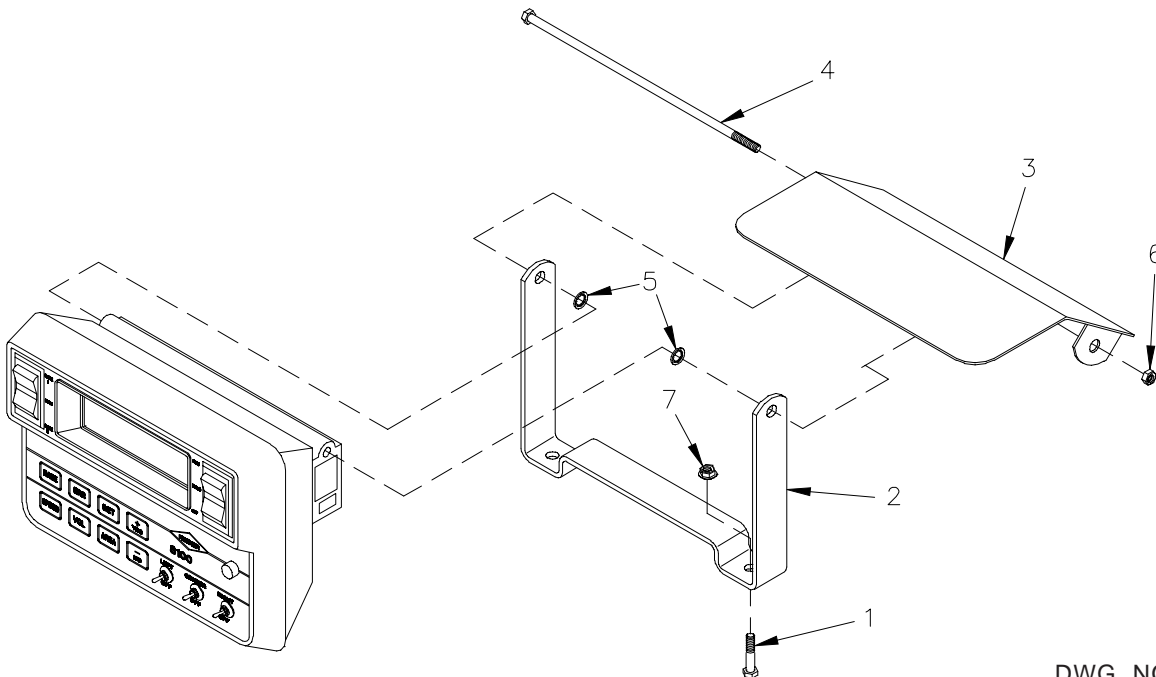
8150



DWG. NO. 6319

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	360-015-000	SHIELD	1	2	363-006-007	CONSOLE MOUNTING BAG	A/R

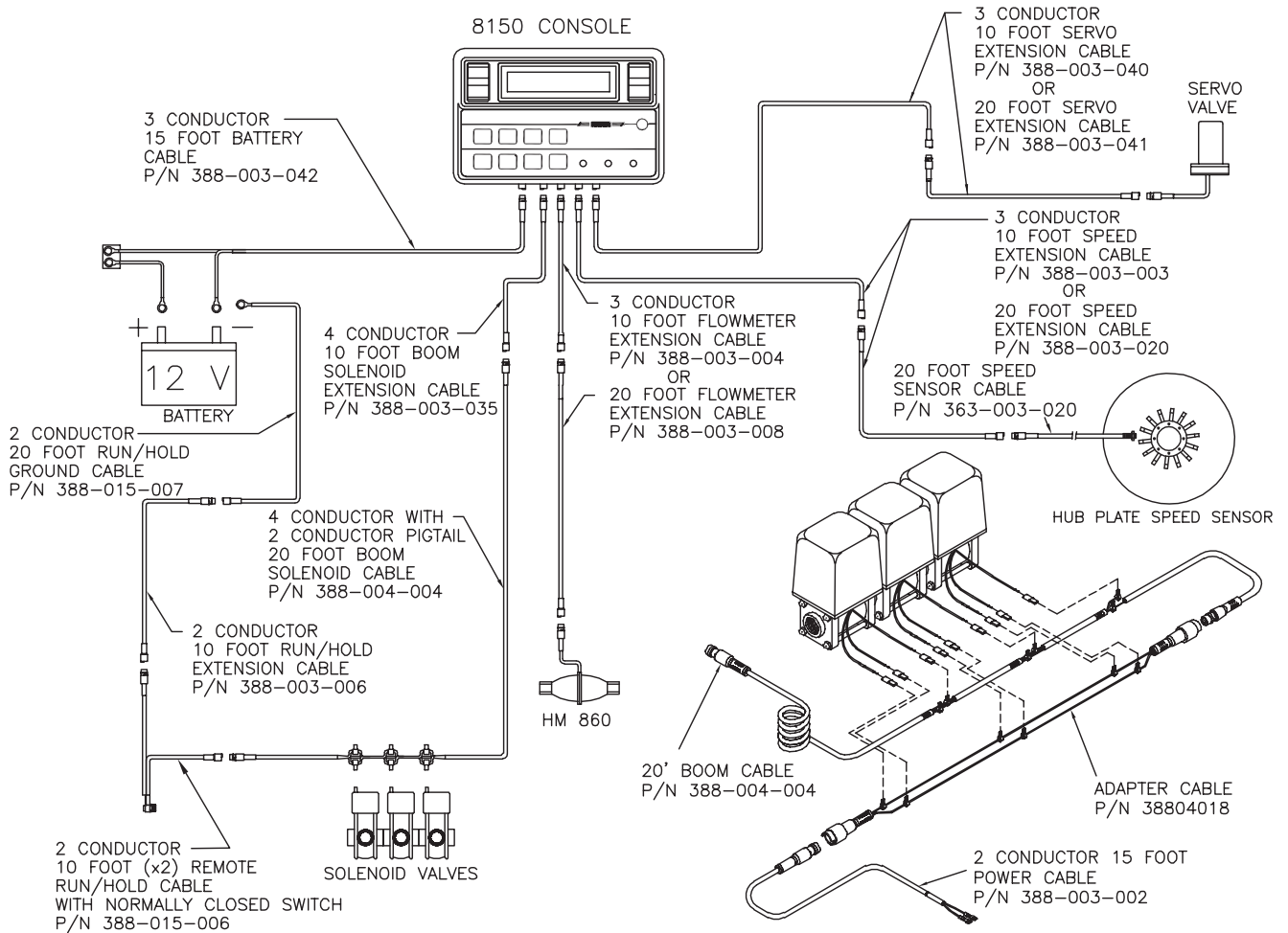
8100 & SPRAY COMMANDER



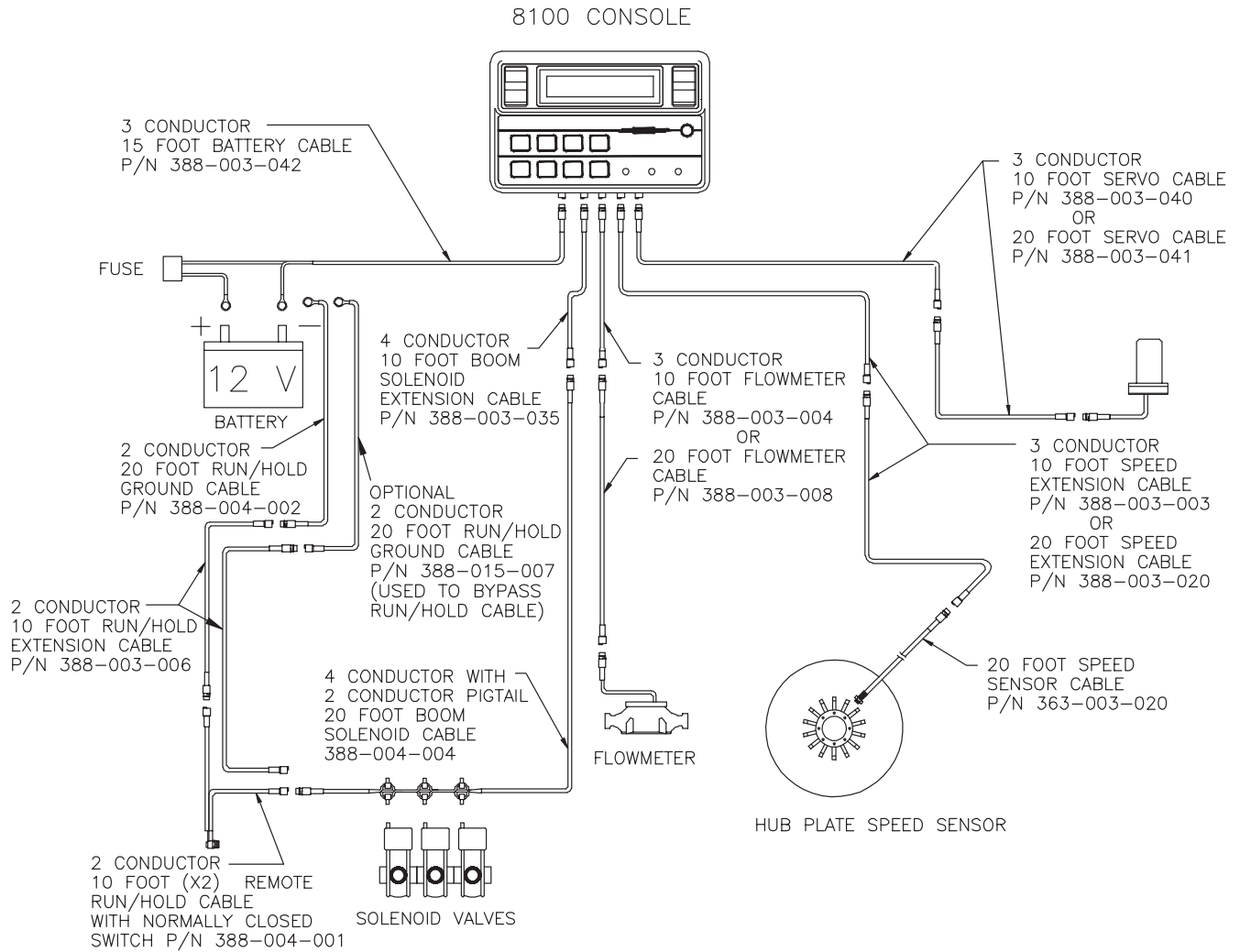
DWG. NO. 6320

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	950-002-004	Hex Head Cap Screw 1/4-20 x 1	2	5	952-004-008	External Lock Washer 1/4 x .494 x .025	2
2	365-004-004	Mounting Bracket	1	6	951-001-003	Hex Nut 1/4-20	1
3	360-015-000	Sun Shield	1	7	951-002-001	Whiz Lock Nut 1/4-20	2
4	950-001-249	Hex Head Cap Screw 1/4-20 x 8 Gr. 2	1				

8150 TYPICAL WIRING - SPRAY APPLICATIONS

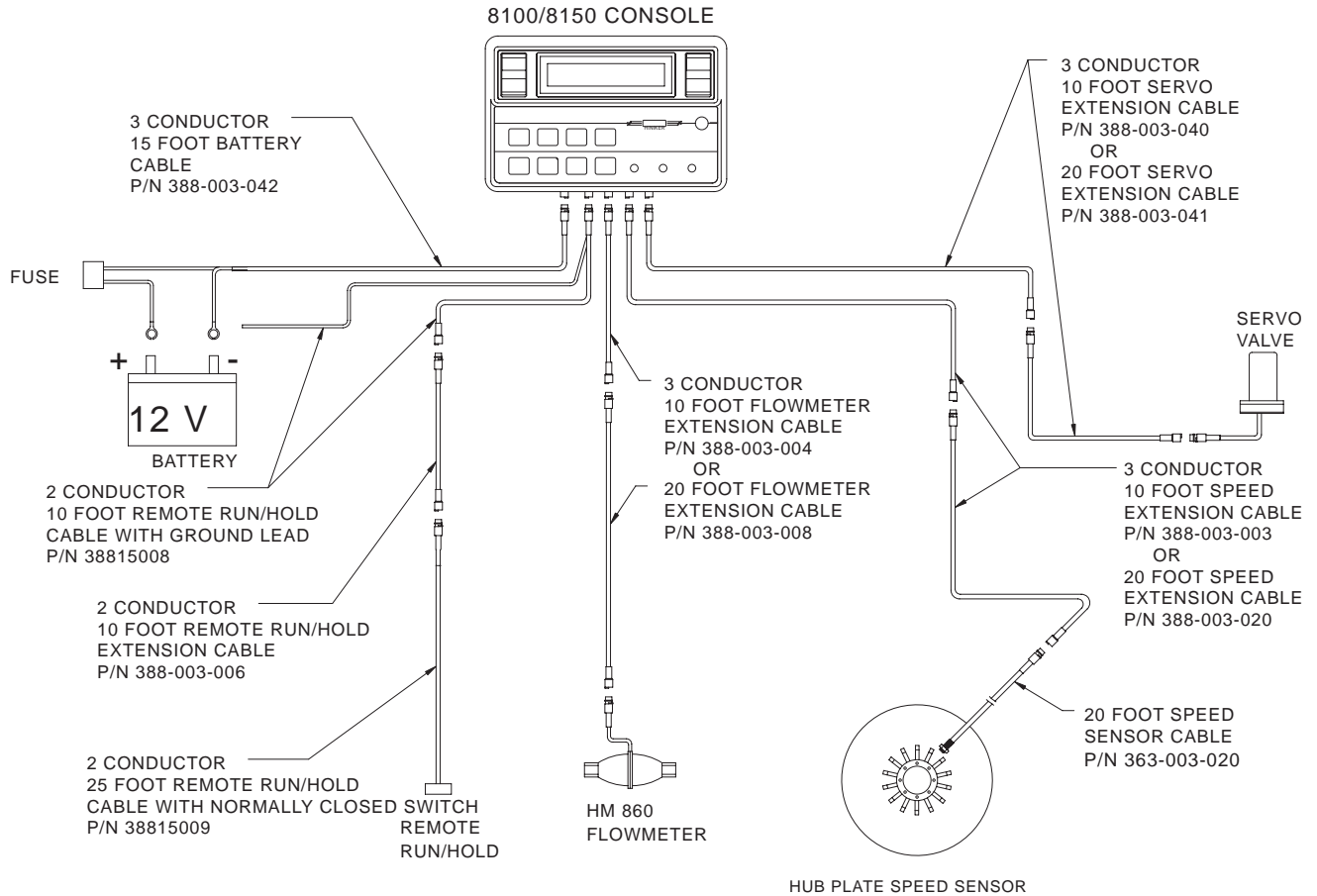


8100 TYPICAL WIRING - SPRAY APPLICATIONS



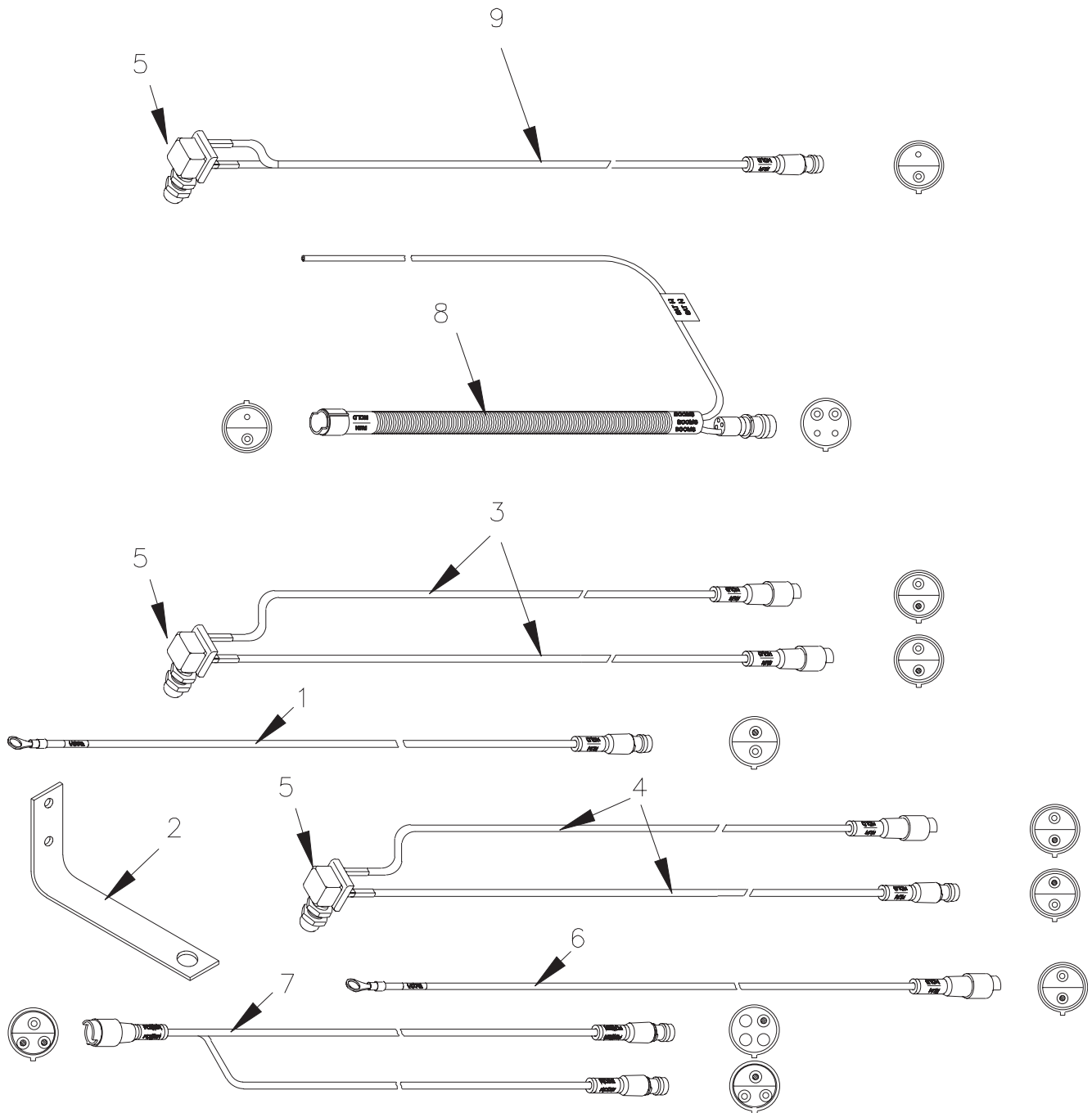
SEC 8

8100/8150 TYPICAL WIRING - NH₃ APPLICATION



NOTE: REMOTE RUN/HOLD HAS BEEN MODIFIED AND IS USED ONLY WITH APPLICATIONS WHERE NO ELECTRIC SOLENOID OR BALL VALVES ARE USED.

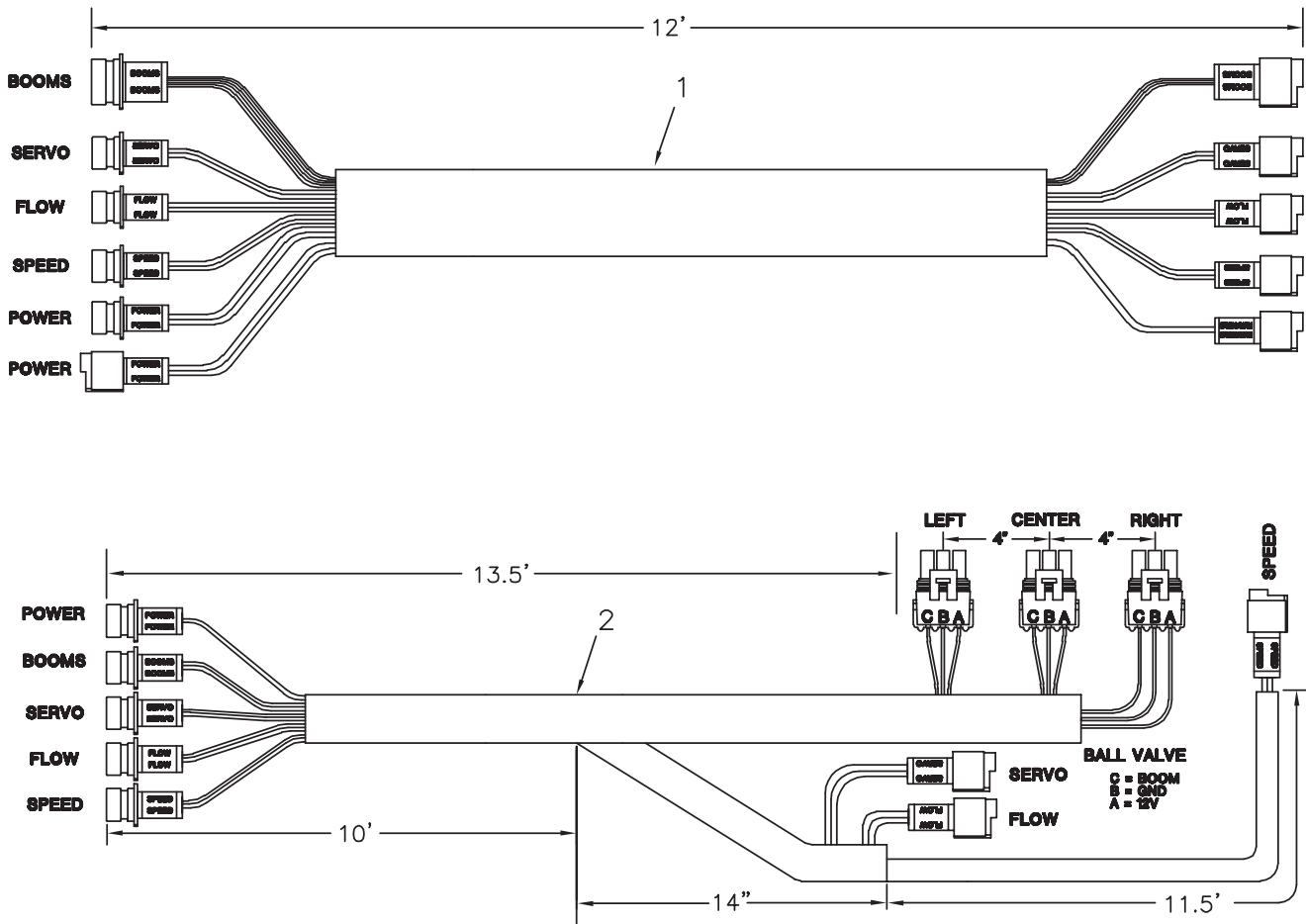
8100 - 8150 REMOTE RUN/HOLD



DWG. NO. 5100

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	388-004-002	20' Remote Run/Hold Ground Cable - 8100	A/R	5	383-101-007	Remote Run/Hold Switch, Normally Closed	A/R
2	363-004-005	Remote Run/Hold Mounting Kit (Includes Bracket)	A/R	6	388-015-007	Remote Run/Hold Ground Cable - 8150	A/R
	365-004-005	Mounting Bracket	A/R	7	388-004-010	Remote Run/Hold Bypass Cable - 8100	A/R
3	388-004-001	Remote Run Hold Cable With Switch - 8100 (Mounting Bracket Not Included)	A/R	8	38815008	Remote Run/Hold Cable with Ground Wire (8100-8150) NH3 Application)	A/R
4	388-015-006	Remote Run/Hold Cable With Switch - 8150 (Mounting Bracket Not Included)	A/R	9	38815009	25 Ft, Remote Run/Hold Cable with Switch (8100-8150 NH3 Application Use with 38815008)	A/R

8150 SPRAYER HARNESS



DWG. NO. 6282

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	38815011	8150 Tractor Harness	A/R	2	38815010	8150, HD Sprayer Harness	A/R

MISCELLANEOUS

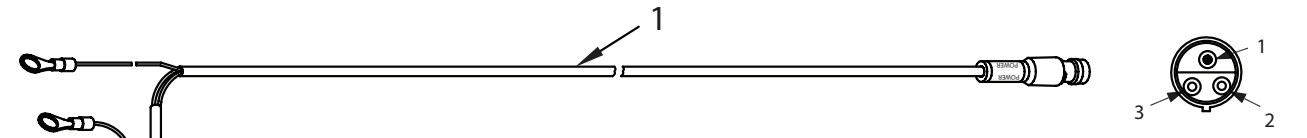
INDEX..... 1
WIRING CROSS REFERENCE2-6
FIELD TESTERS..... 7
MANUALS / INSTRUCTION SHEETS 8
MISCELLANEOUS 9

MISCELLANEOUS

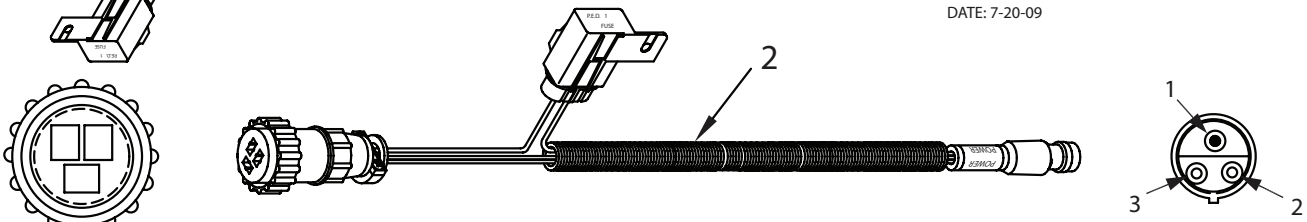
WIRING IDENTIFICATION AND CROSS REFERENCE

PART NO.	DESCRIPTION	8605	8160	8150	8100	8200	Fig-No
388-003-042	15 foot 3 conductor battery cable		X	X	X		1
38815023	6 foot 3 conductor battery cable with convenience plug		X	X	X		2
388-003-002	15 foot 2 conductor battery cable (See note 5)			X	X	X	3
38816001	20 foot 4 conductor battery cable	X					4
38816002	6 foot 4 conductor battery cable with convenience plug	X					5
38816013	6 foot 7 conductor Servo extension cable	X					6
38816003	10 foot 7 conductor Servo extension cable	X					6
38816004	20 foot 7 conductor Servo extension cable	X					6
38816009	6 foot 3 conductor Servo extension cable		X	X	X	X	7
388-003-040	10 foot 3 conductor Servo extension cable		X	X	X	X	7
388-003-041	20 foot 3 conductor Servo extension cable		X	X	X	X	7
38816008	6 foot 3 conductor Flow extension cable	X	X	X	X	X	7
388-003-004	10 foot 3 conductor Flow extension cable	X	X	X	X	X	7
388-003-008	20 foot 3 conductor Flow extension cable	X	X	X	X	X	7
38816011	6 foot 3 conductor Speed extension cable	X	X	X	X	X	7
388-003-003	10 foot 3 conductor Speed extension cable	X	X	X	X	X	7
388-003-020	20 foot 3 conductor Speed extension cable	X	X	X	X	X	7
388-008-005	Dual console Speed "Y" cable	X	X	X	X	X	8
363-003-020	20 foot 3 conductor Speed sensor	X	X	X	X	X	9
363-003-120	12 inch 3 conductor Speed sensor	X	X	X	X	X	9
363-006-005	20 foot 3 conductor magnetic Speed (Run/Hold) sensor					X	10
38816010	6 foot 4 conductor Boom Valve extension cable			X	X		11
388-003-035	10 foot 4 conductor Boom Valve extension cable			X	X		11
38815026	6 foot 7 conductor Boom Valve extension cable		X				6
38815015	10 foot 7 conductor Boom Valve extension cable		X				6
38815016	20 foot 7 conductor Boom Valve extension cable		X				6
38816005	6 foot 8 conductor Boom Valve extension cable	X					12
38816007	10 foot 8 conductor Boom Valve extension cable	X					12
38816006	20 foot 8 conductor Boom Valve extension cable	X					12
38815017	7 conductor Boom Harness W/ 3 Weatherpack connectors		X				13
38816015	8 conductor Boom harness (1/4 in. Push-on connectors)	X					14
38816025	8 conductor Boom harness (5 Weatherpack connectors)	X					15
388-004-004	4 conductor Boom harness (1/4 in. Push-on connectors)			X	X		16
38804018	Cable adapter, Motorized valves			X	X		17
38816012	6 foot 2 conductor remote Run/Hold extension cable	X	X	X	X		18
388-003-006	10 foot 2 conductor remote Run/Hold extension cable	X	X	X	X		18
38815018	20 foot 2 conductor remote Run/Hold extension cable	X	X	X	X		18
38815020	12 inch 2 conductor remote Run/Hold cable with N.C switch		X				19
383-101-007	Normally Closed Switch only		X	X	X		19
38816014	20 foot 2 conductor remote Run/Hold cable with N.O .switch	X					27
38816024	12 inch 2 conductor remote Run/Hold cable with N.O switch	X					27
38311010	Normally open Switch only	X					27
363-003-021	20 foot 2 conductor remote Run/Hold Proximity sensor	X	X				20
38815019	12 inch 2 conductor remote Run/Hold with Proximity sensor	X	X				20
388-015-006	10 foot (X2) remote Run/Hold with N.C. switch (See notes 1 & 4)			X			21
388-004-001	10 foot (X2) remote Run/Hold with N.C. switch cable				X		22
388-004-002	20 foot remote Run/Hold with N.C. switch cable				X		23
388-004-010	Remote Run/Hold bypass cable				X		24
388-015-007	20 foot remote Run/Hold ground cable (See notes 2 & 4)			X			25
38815008	10 foot remote Run/Hold with ground wire (see note 6)			X	X		26
38815009	25 foot remote Run/Hold with N.C.. switch (see note 6)		X	X	X		19
38815014	7-pin to 4-pin boom cable adapter		X				28
393-002-089	Decal kit: 4 each Speed, Flow, Servo, Booms, Run/Hold, 2 Power, 1 Bat(-), Left, Center, Right	X	X	X	X	X	

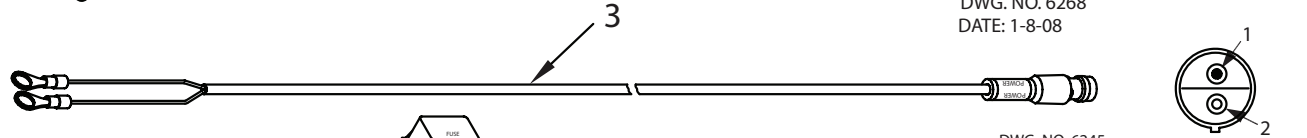
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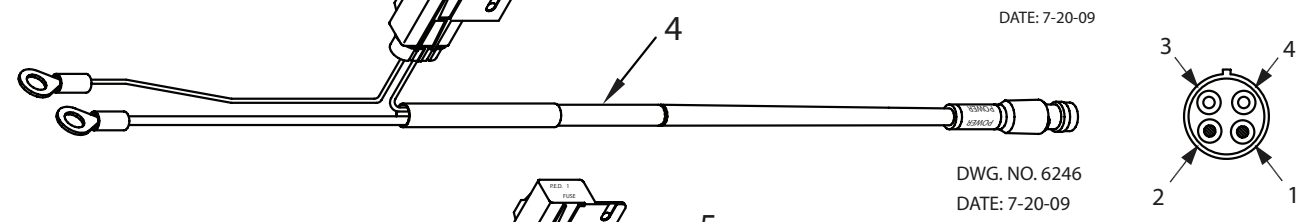
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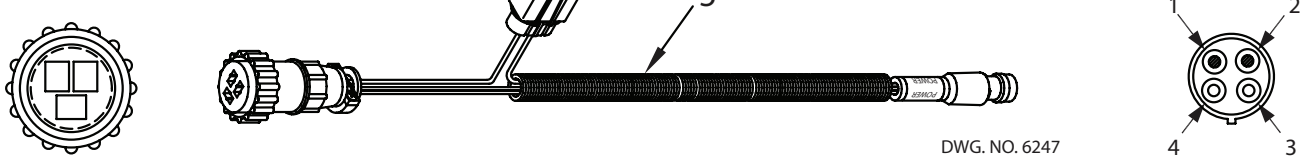
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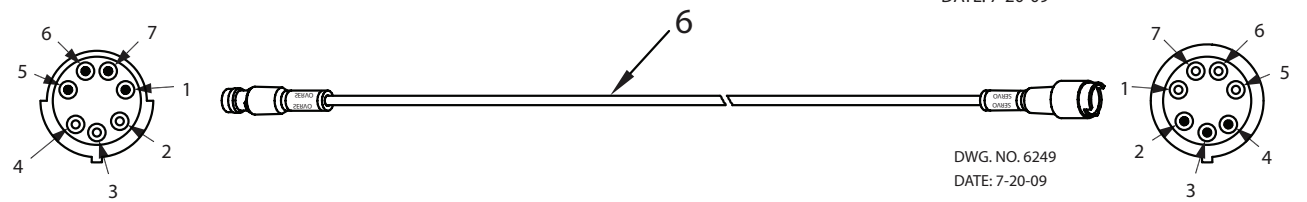
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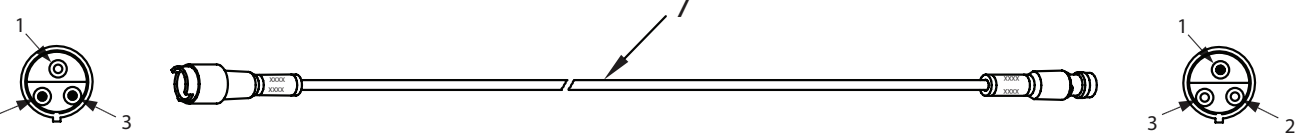
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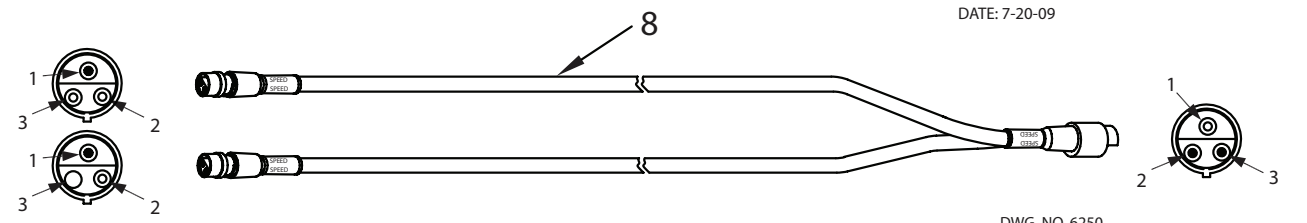
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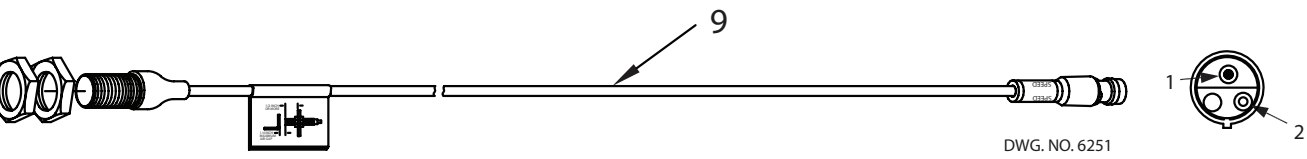
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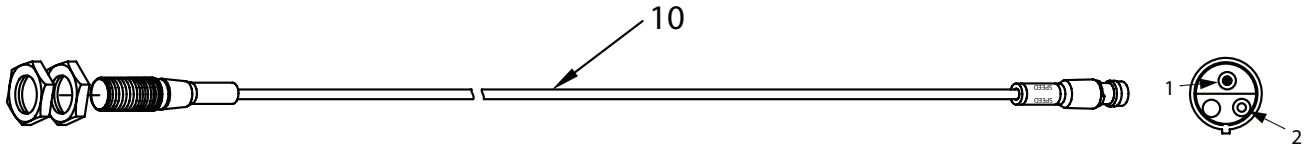


DWG. NO. 6250
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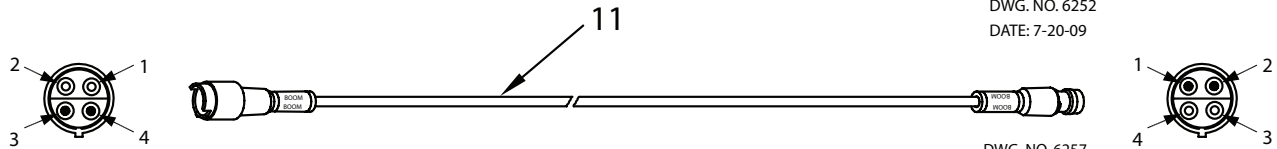


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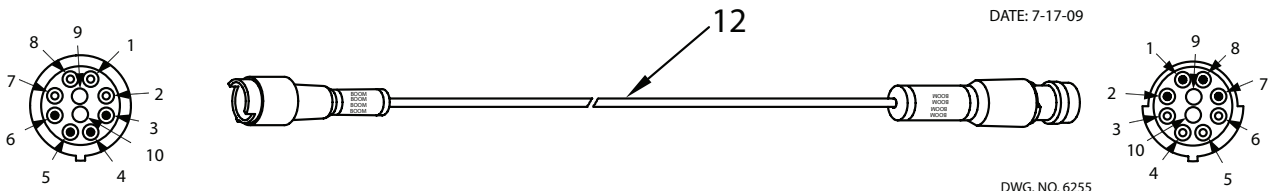
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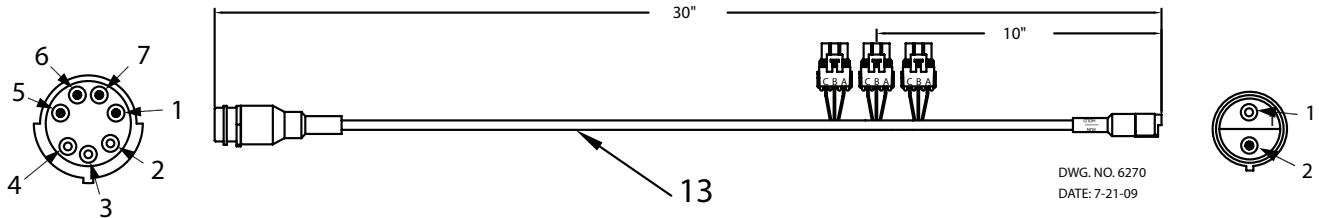
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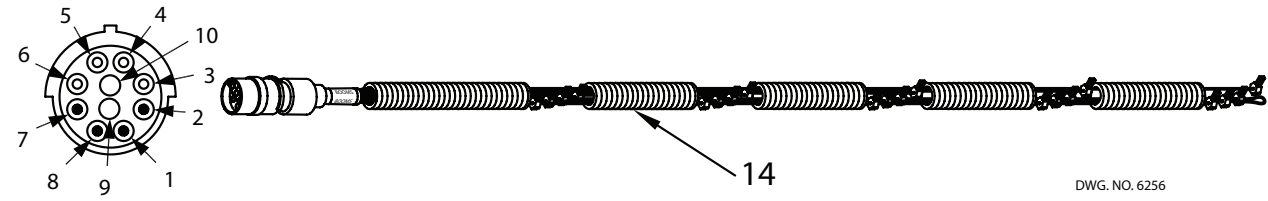
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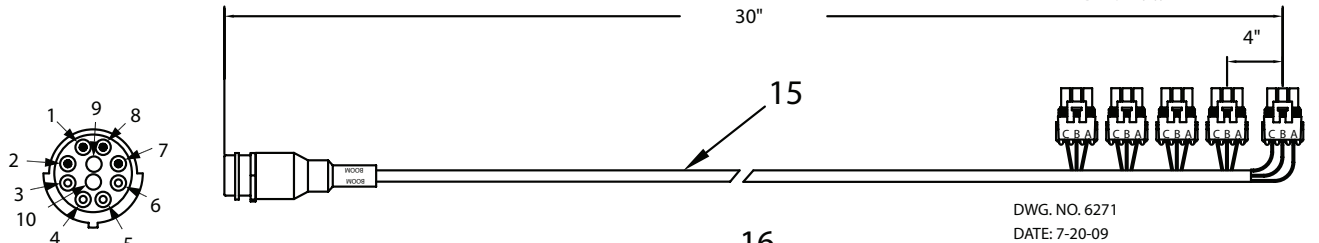
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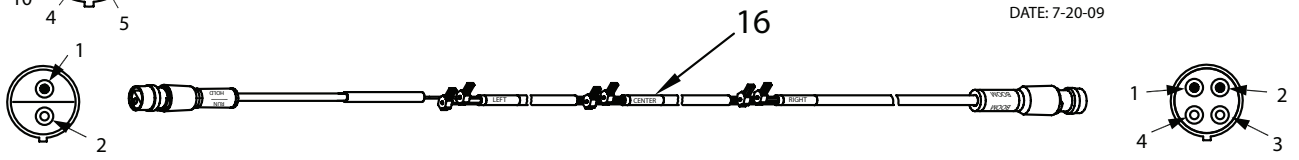
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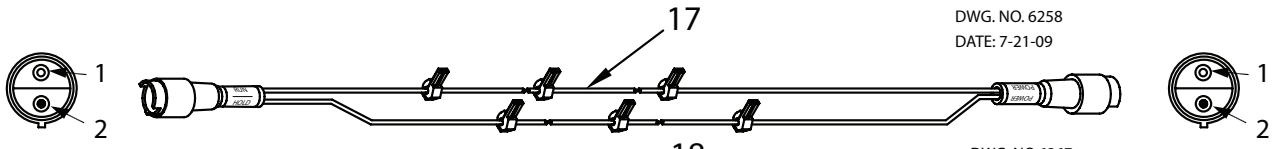
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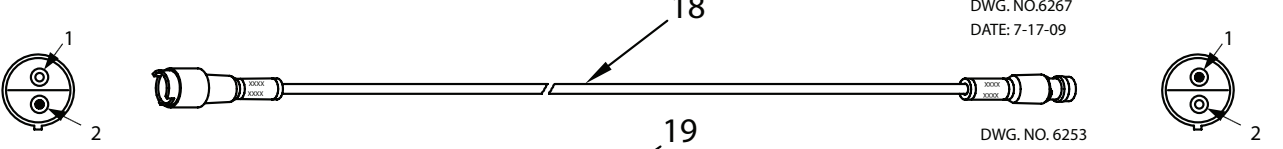
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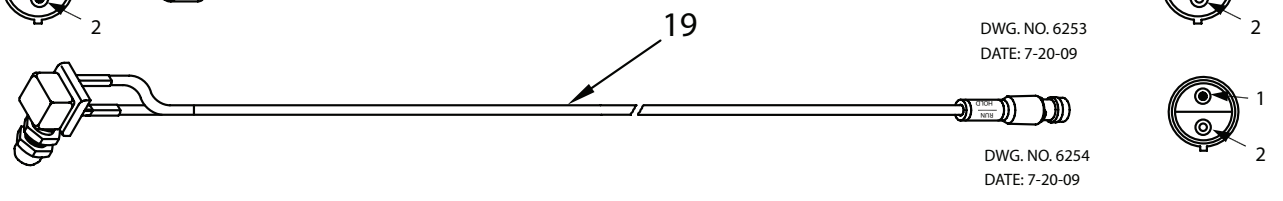
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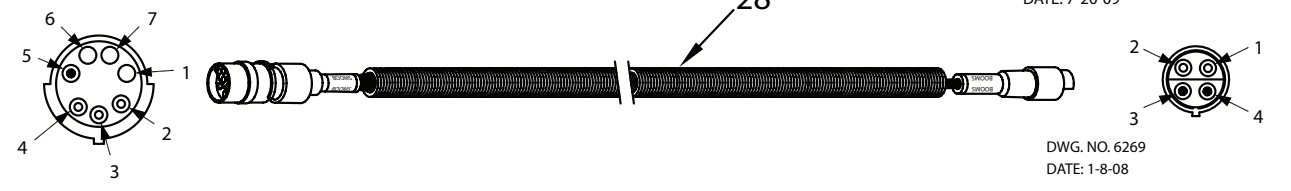
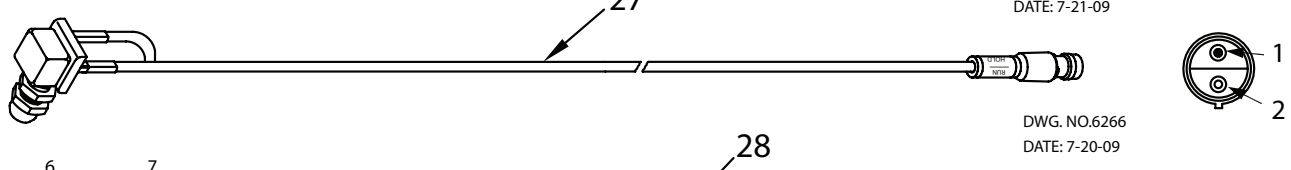
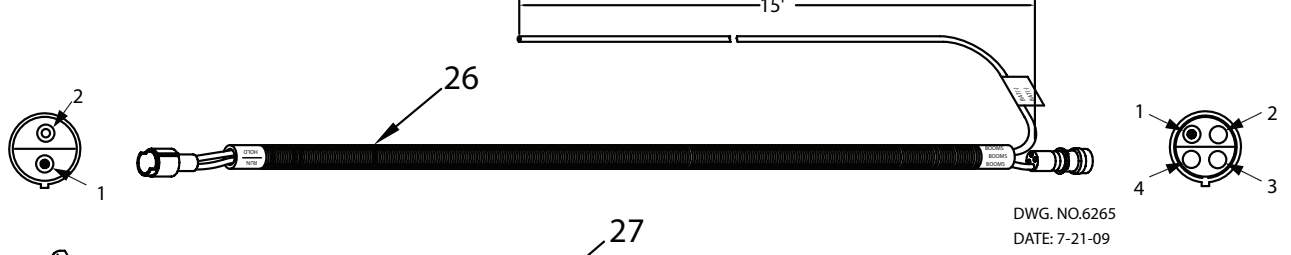
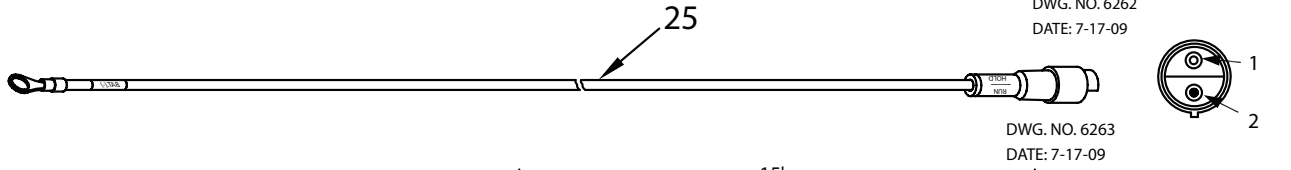
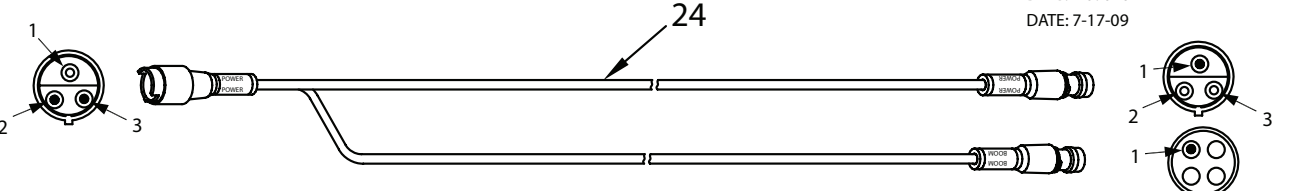
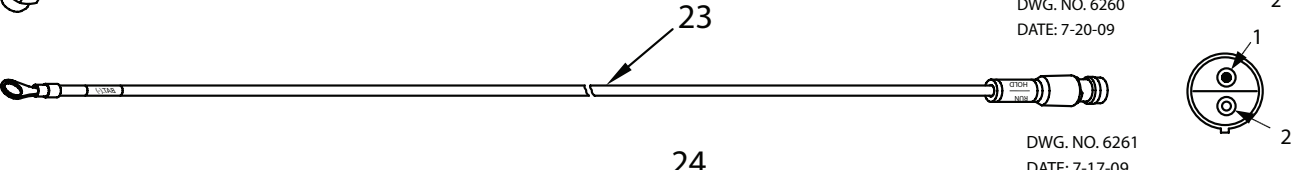
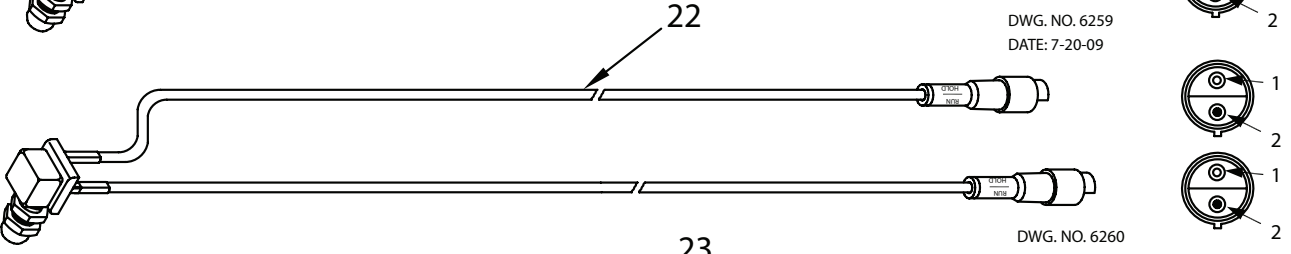
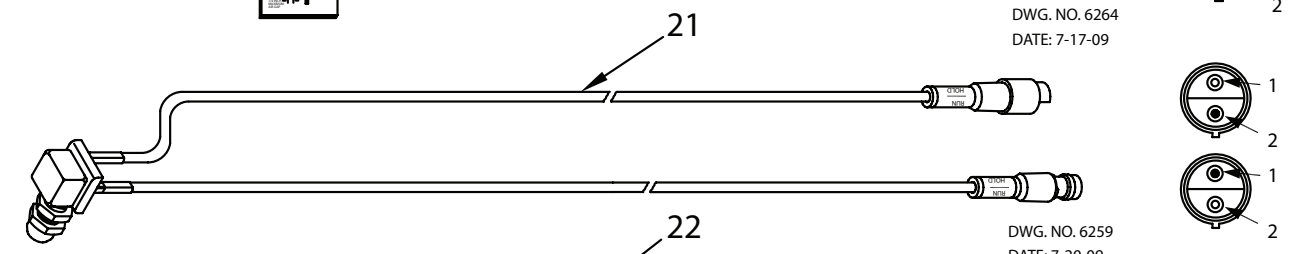
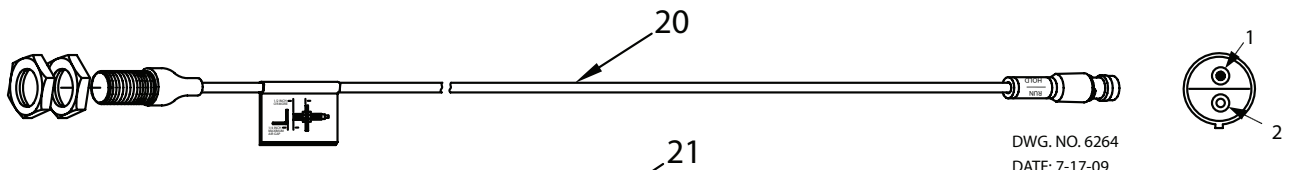


DWG. NO. 6253
DATE: 7-20-09



DWG. NO. 6254
DATE: 7-20-09

MISCELLANEOUS



NOTES:

1. Same As 388-004-001 Except 1 Plug And 1 Receptical.
2. Same As 388-004-002 Except Has Receptacle.
3. For Spray Commander See 8100.
For Acre Commander See 8200.
4. 388-015-006 And 388-015-007 May Be Used To Replace 388-004-001 And 388-004-002 As A Set.

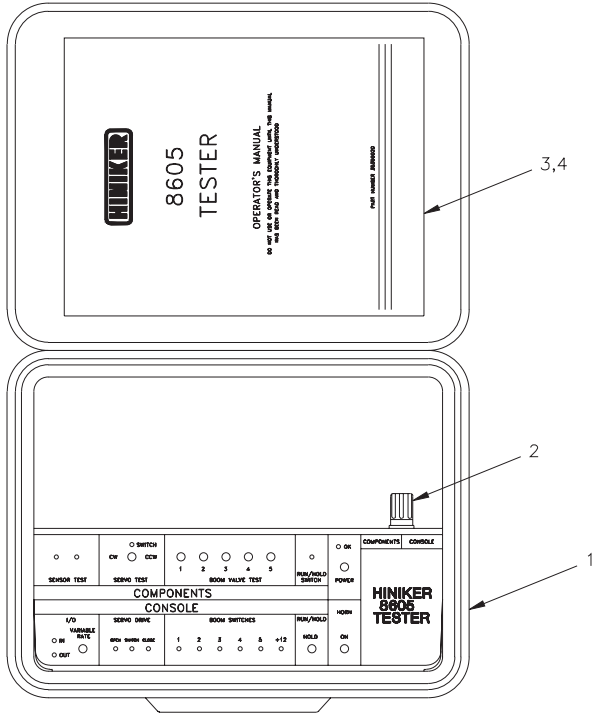
388-015-007 May Be Used To Bypass The Remote Run/Hold Switch. (388-004-001) On The 8100 Or (388-015-006) On The 8150 System.

The Cable Plugs Directly Into Boom Cable (388-004-004).

5. 388-003-002- Power Cable To Motorized Ball Valves 8100/8150.
6. 38815009 - Used With 38815008 Adapter For NH3 Applications (8100 - 8150 Only)

MISCELLANEOUS

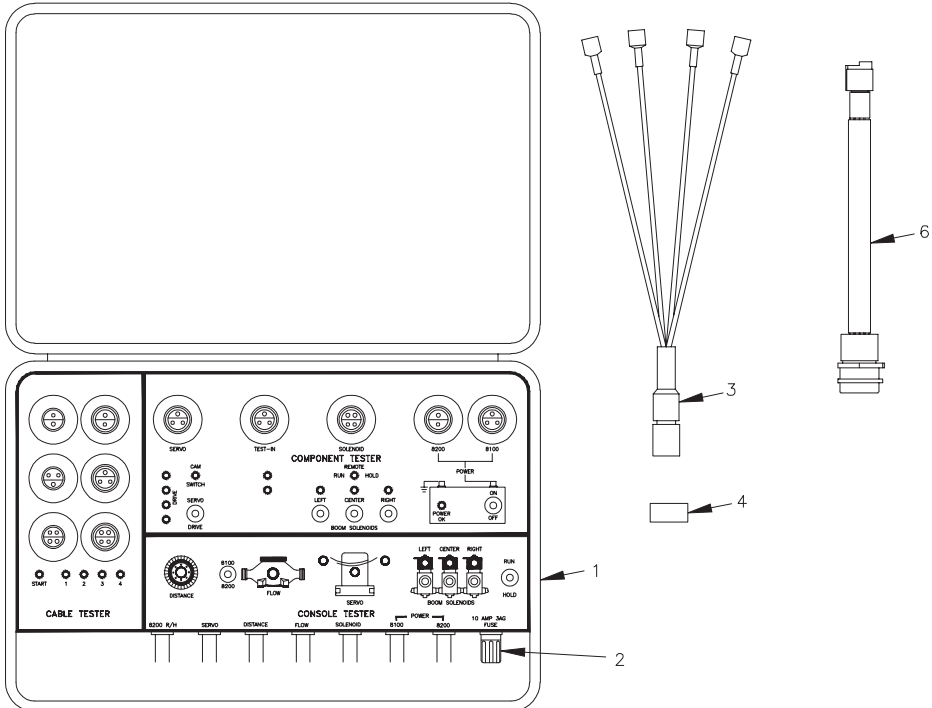
8605 TESTER



DWG. NO. 5120

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	36016005	Tester 8605 Field	1	3	39300020	Manual, 8605 Tester	1
2	070093	Fuss -AGO -10	1	4	39300021	Sheet, 8605 Tester Quick FM	1

8160, 8150, 8100, 8200 TESTER



DWG. NO. 2807

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	360-011-000	8160/8100/8150/8200 Tester	1	4	367-006-004	Magnet 1 Inch	1
2	070093	Fuse AGC-10	1	5	393-000-013	Tester Operator's Manual	1
3	388-009-019	Adapter Cable	1	6	38815014	4-Pin To 7-Pin Adapter	1

SECTION 9

MISCELLANEOUS

MANUALS/INSTRUCTION SHEETS

PART NUMBER	DESCRIPTION	QTY.
39300030	8160 Operators Manual	A/R
39300031	8160 Metric Operators Manual	A/R
39300035	New NH3 Operators Manual (2007-)	A/R
360-000-246	Anhydrous Ammonia Monitor and Control System Operators Manual	A/R
39300018	8605 Operators Manual	A/R
393-000-010	8200 Operators Manual	A/R
393-000-012	8200 Metric Operators Manual	A/R
393-008-020	HM860 Flowmeter Operators Manual	A/R
393-000-015	8150 Operators Manual	A/R
393-000-009	8100 Operators Manual	A/R
393-000-011	8100 Metric Operators Manual	A/R
393-000-013	8160/8150/8100/8200 Tester Manual	A/R
39300032	8150 Supplement to 8100 / 8200 Tester Manual (393-000-013)	A/R
39300033	8160 Supplement to 8150/8100 / 8200 Tester Manual (393-000-013)	A/R
39300020	8605 Tester Manual	A/R
393-000-015	8150 Operators Manual	A/R
39300017	8150 Metric Operators Manual	A/R
39308099	Instruction sheet External boom control 8160/8605	A/R
39308072	Instruction sheet GPS Ground Speed Sensor	A/R
39308091	Instruction sheet for NH3 Mount Kit (36015009)	A/R
39308092	Instruction sheet for 8172 NH3 Convenience Package	A/R
39308093	Instruction sheet for NH3 Strip-Till Plumbing Package (36117000)	A/R
393-008-025	Instruction sheet for Standard Radar Interface (363-008-003, 363-008-006)	A/R
393-008-023	Instruction sheet for Cable Decal Kit (393-002-089)	A/R
393-008-022	Instruction sheet for Adaptive Radar Interface (360-208-001)	A/R
393-008-018	Instruction sheet for DC Gear Motor Assembly	A/R
393-008-012	Instruction sheet for 8090 Radar Interface	A/R
39308076	Instruction sheet for 8079 Pickup Transmission Sensor Kit	A/R
39308077	Instruction sheet for 8022 Ford Sensor Kit	A/R
39308078	Instruction sheet for 8201 Magnetic Speed Sensor Kit	A/R
39308079	Instruction sheet for Boom Valve Pigtail Kit (36015006)	A/R
39308088	Instruction sheet for New Style Heat Exchanger Decal Kit (39302156)	A/R
393-008-016	Instruction sheet for Old Style Heat Exchanger Decal Kit (360-004-012)	A/R
39308066	Instruction sheet for 627687, 8605 Rate Controller Package on Mid-Mount Sprayers (4/7/04)	A/R
39308085	Instruction sheet for 628250, 8605 Rate Controller Package on Mid-Mount Sprayers (1/2/07)	A/R
39308084	Instruction sheet for 628251, 8605 Sprayer Kit on HD Sprayers	A/R
39308068	Instruction sheet for 628015, Discontinued 8605 Sprayer Kit (12/7/04)	A/R
39308067	Instruction sheet for Discontinued 8150 Sprayer Kits (628014, 628181) for HD Trailers with S/N 101 (12/7/04)	A/R
39308083	Instruction sheet for 8160 Sprayer Kit (628249) for HD Trailers with S/N 101 (12/22/06)	A/R
39308086	Instruction sheet for 8160 Liquid Strip-Till	A/R
39308087	Instruction sheet for 8605 Liquid Strip-Till	A/R
39308030	Instruction sheet for 2-Wire Case IH Maxxum Interface	A/R
39300019	Instruction sheet for 8605 Table Top Display (8610)	A/R
39300021	Quick Reference Guide for 8605 Test (8605 Tester)	A/R
39308031	Instruction sheet for 624552 Motorized Ball Valve Adapter Kit 4-Wire Ball Valves 8100/8150 Systems	A/R
39308062	Instruction sheet for Stepper Servo Repair	A/R
393-008-019	Instruction sheet for R/H Bypass Cable (388-044-010) 8100 System	A/R
393-008-017	Instruction sheet for 8074 Manual Servo Valve Control Switch Kit Replaces Auto Facts Console or Connect to 8200 R/H to Control a Servo Valve	A/R
39308102	Instruction sheet for Hiniker GPS Speed Sensor To Raven Input	A/R
39308101	Instruction sheet for Hiniker GSII Serial Cable	A/R

MISCELLANEOUS

PART NUMBER	DESCRIPTION	QTY.
367-001-011	14 Inch Cable Tie	A/R
8074	Manual Servo Valve Control Switch Assembly	A/R
36016004	Table Top Display 8605	A/R