



PM- 291018 E

ArcReach 16 Wire Feeder



PARTS MANUAL



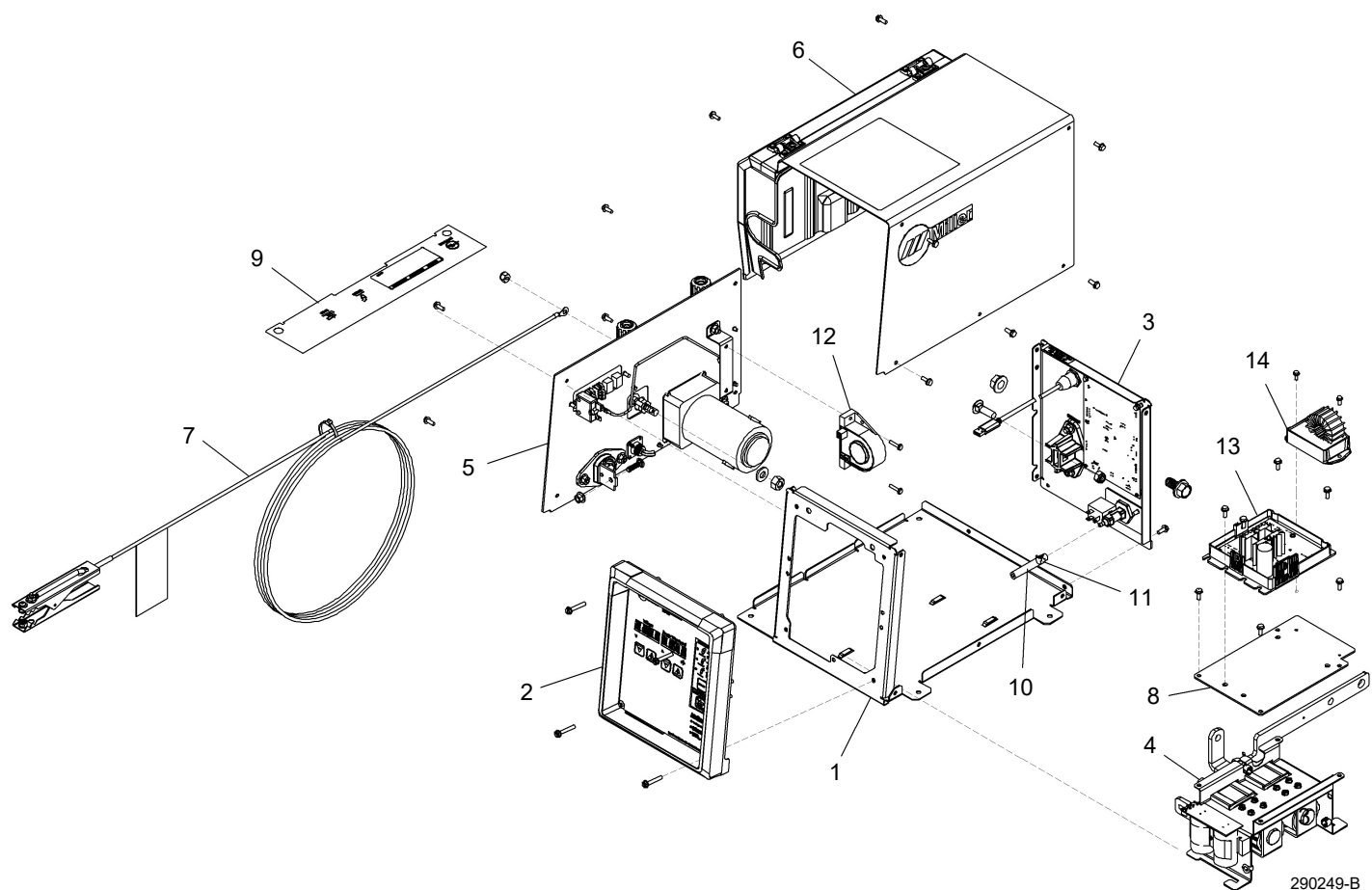
PM- 291018 E

ArcReach 16 Wire Feeder Prior to ND184015V

Effective with Serial Number
NC376067U - ND184015V



PARTS MANUAL

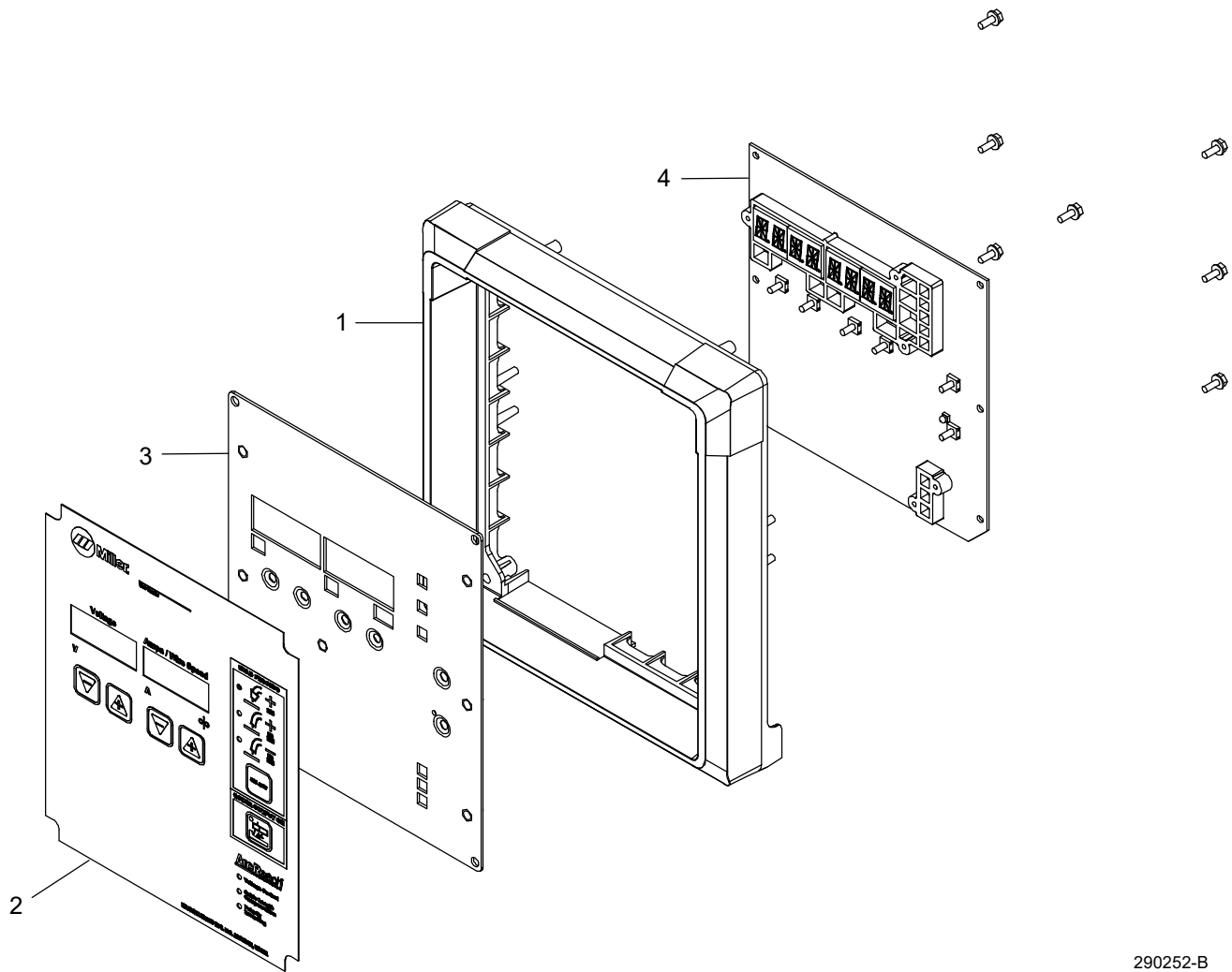


290249-B

Control Box Main Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		290251	Enclosure, Feeder	1
2		209252	Panel Assy, Front	1
3		290272	Panel Assy, Rear	1
4		290275	Panel Assy, Contactor	1
5		290276	Panel Assy, Drive	1
6		290277	Wrapper/Door Assy, Drive	1
7		290566	Cable, Sensing	1
8		290777	Panel, PCB Mtg Bracket	1
9		291055	Insulator, Enclosure	1
10		282689	Hose, Poly Clear 170ldx2500d X 17000In	1
11		283188	Clamp, Hose 335-410 Clp Dia Slftng Steel	2
12		168829	Transducer, Current 1000A Module Max Open Loop	1
13		289387	Circuit Card Assy, Power Brd W/Tray	1
14		289775	Module, Series Res Coupler	1
/		290033	Plug, W/Leads (Control Power)	1
/		290035	Plug, W/Leads (Pb Digital)	1
/		290037	Plug, W/Leads (Pb Analog)	1
/		280003	Plugs, W/Leads (UI Board To Motor Board)	1
/		290311	Plugs, W/Leads (Transducer)	1
/		290319	Plug, W/Leads (Feeder Power)	1

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.

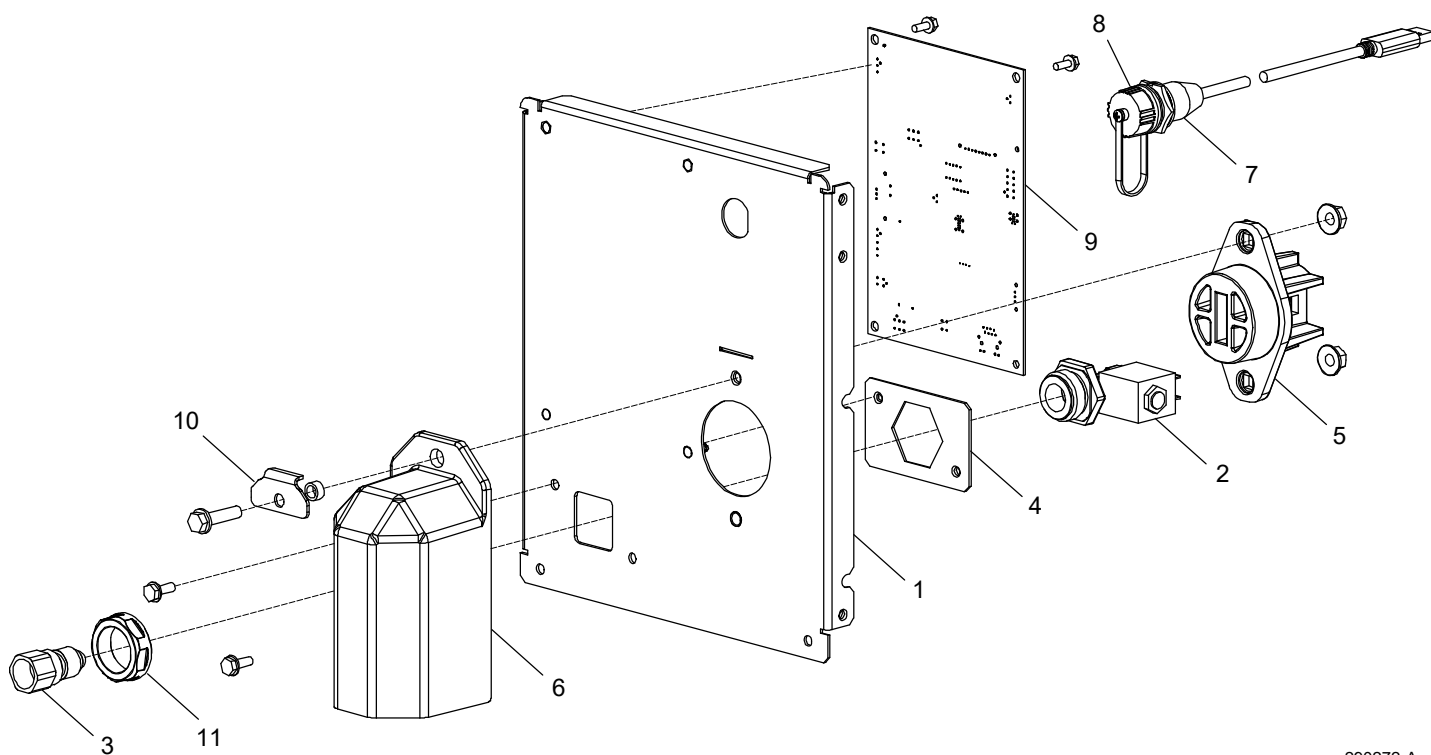


290252-B

Front Panel Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		281085	Bezel, Feeder (No Door)	1
2		290160	Label, Nameplate Miller ArcReach 16 Wire Feeder	1
3		290253	Panel, Front W/Stand-Offs	1
4		289379	Circuit Card Assy, UI W/Prgm	1

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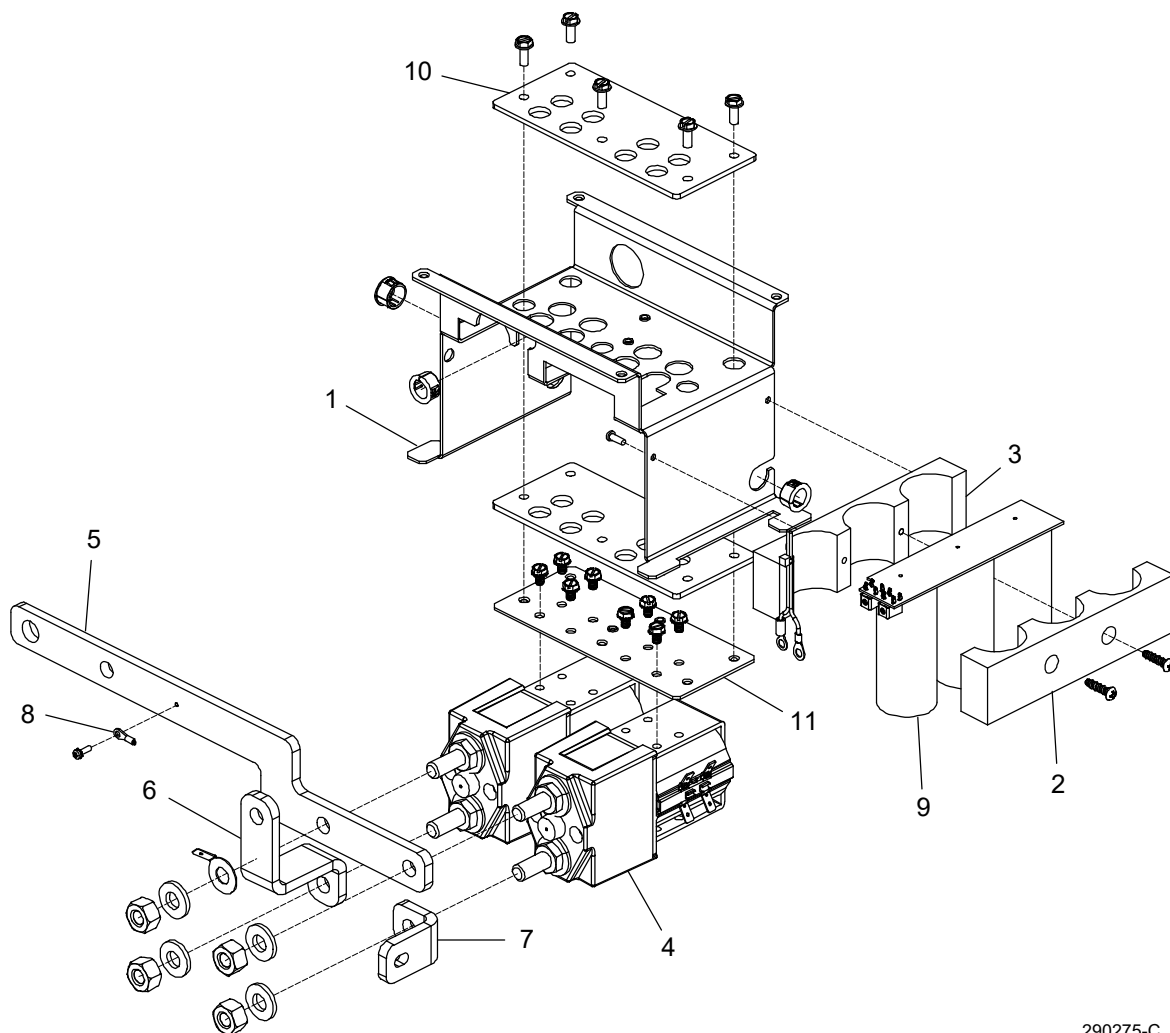


290272-A

Rear Panel Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		290273	Panel, Rear	1
2		226819	Valve, 12VDC 1Way .750-14 Thd 2MM Orf 100PSI	1
3		211989	Fitting, W/Screen	1
4		290274	Bracket, Gas Valve	1
5		263560	Terminal, Pwr Output Black	1
6		264114	Boot, Generic Output Stud	1
7		286624	Cable, USB 2.0 A -A Male 400Cm Panel Mount Ip 67	1
8		286625	Cable, USB Cap Panel?Mount Ip?67	1
9		289368	Circuit Card Assy, Control, Boot/Prog	1
10		268891	Washer, Output Stud	1
11		272186	Nut, 750-14 Nps 1312Hex 413H Nyl	1

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.

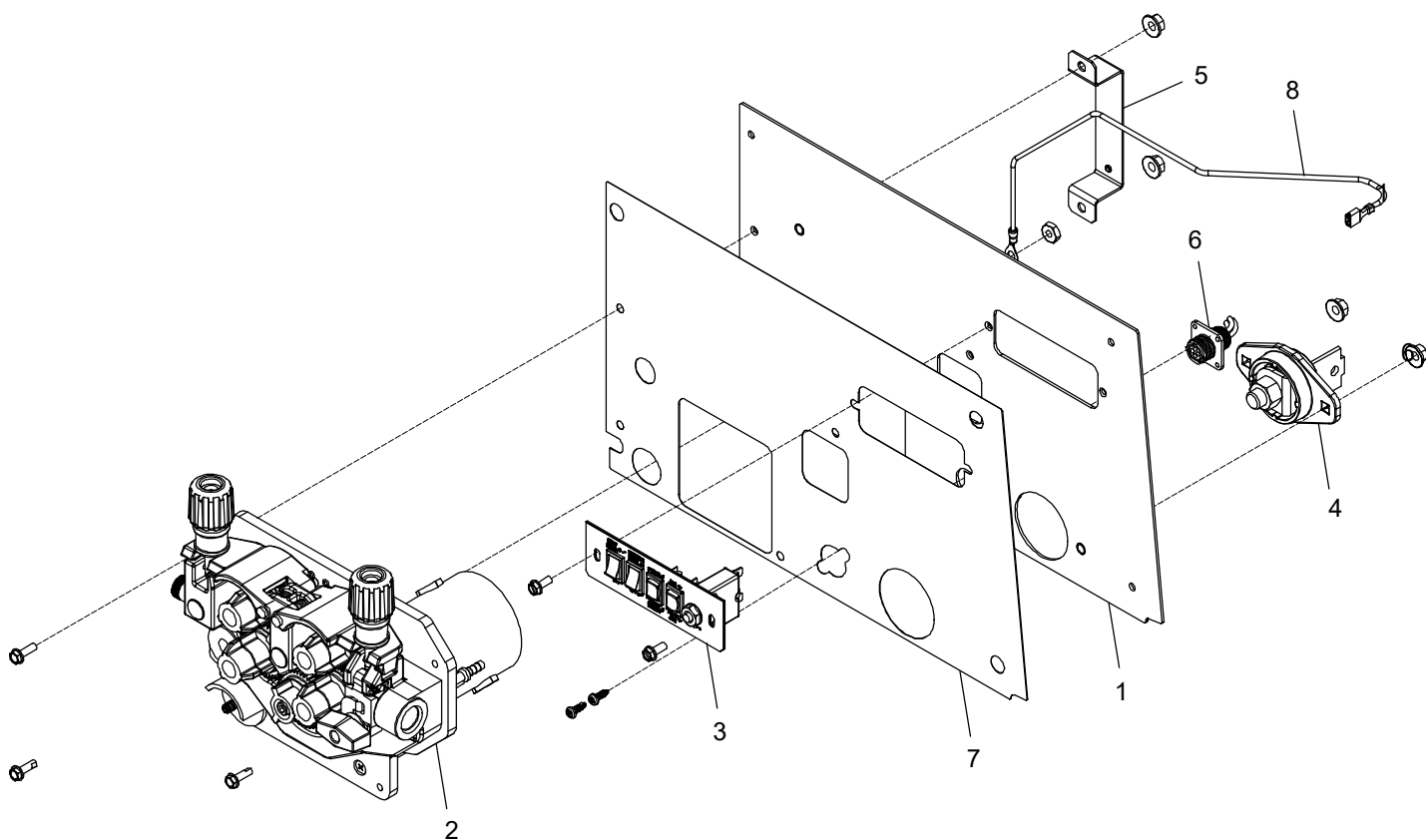


290275-C

Contactor Panel Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		290293	Panel, Contactor Mtg Assy	1
2		293357	Bracket, Capacitor Support Outer	1
3		293366	Bracket, Capacitor Support Inner	1
4		290516	Contactor, 12VDC Spst On-Off Magnetic Blow Out	2
5		290294	Bus Bar, Input	1
6		290295	Bus Bar, Weld	1
7		290296	Bus Bar, Gouge	1
8		286525	Thermistor, NTC 30K OHM @ 25 DEG C 1000In2500	1
9		293367	Circuit Card Assy, Cap Bank VS Feeder	1
10		292796	Insulator, Contactor	2
11		292932	Bracket, Contactor Mtg	1
/		290313	Plug, W/Leads (Coil Drives)	1
/		290316	Plug, W/Leads (Bus Capacitors)	1

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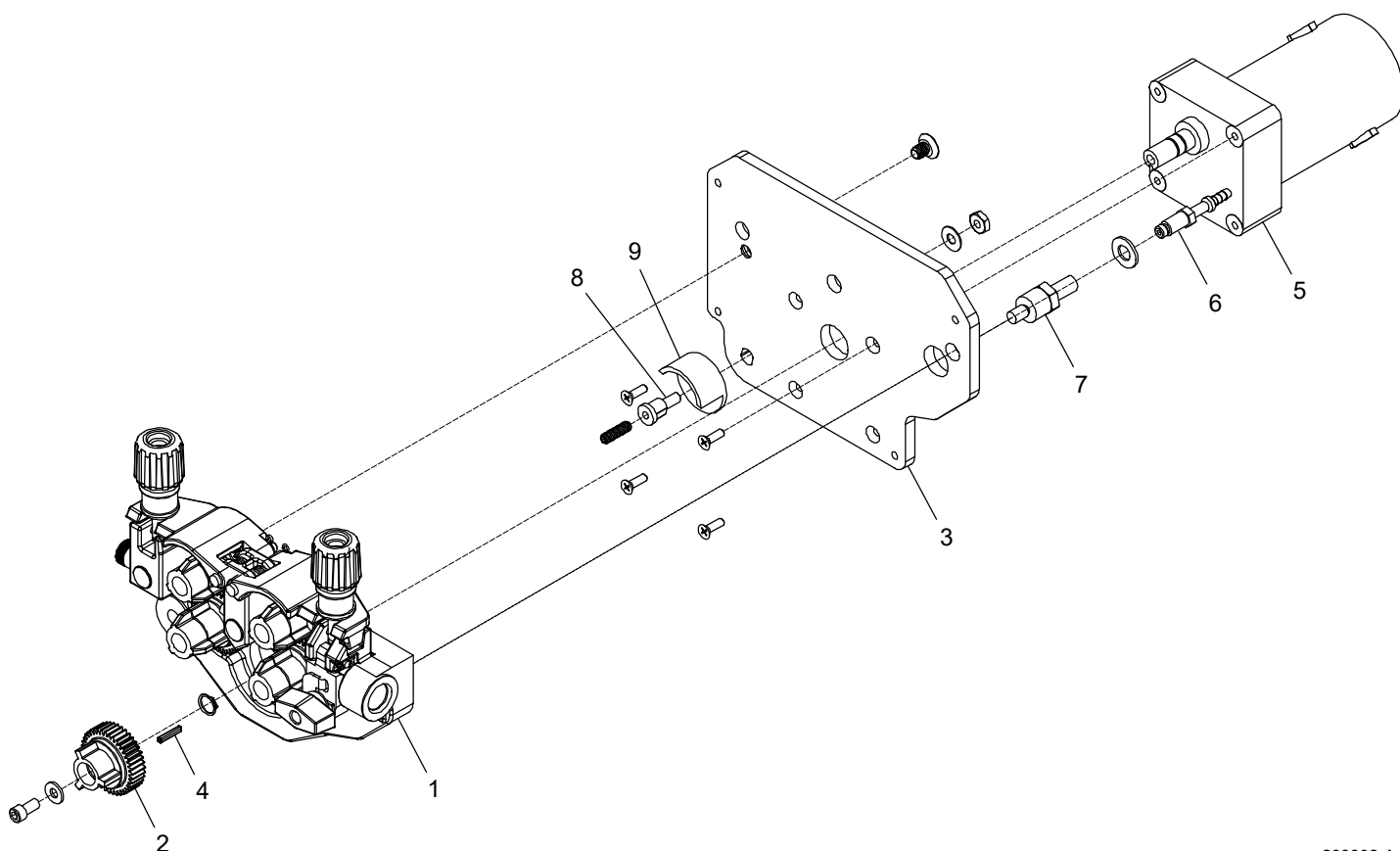


290275-C

Drive Panel Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		290300	Panel, Drive Mtg	1
2		290302	Drive Assy, Wire S/L 4 Roll W/Tach	1
3		290356	Panel Assy, Inner	1
4		241433	Terminal, Pwr Output Black	1
5		290794	Bracket, Lem Mtg	1
6		290308	Plug, W/Leads (Trigger Receptacle)	1
7		291076	Label, Drive Panel Blank	1
8		290319	Plug, W/Leads (Feeder Power)	1
/		290985	Plug, W/Leads(ArcReach)	1

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.

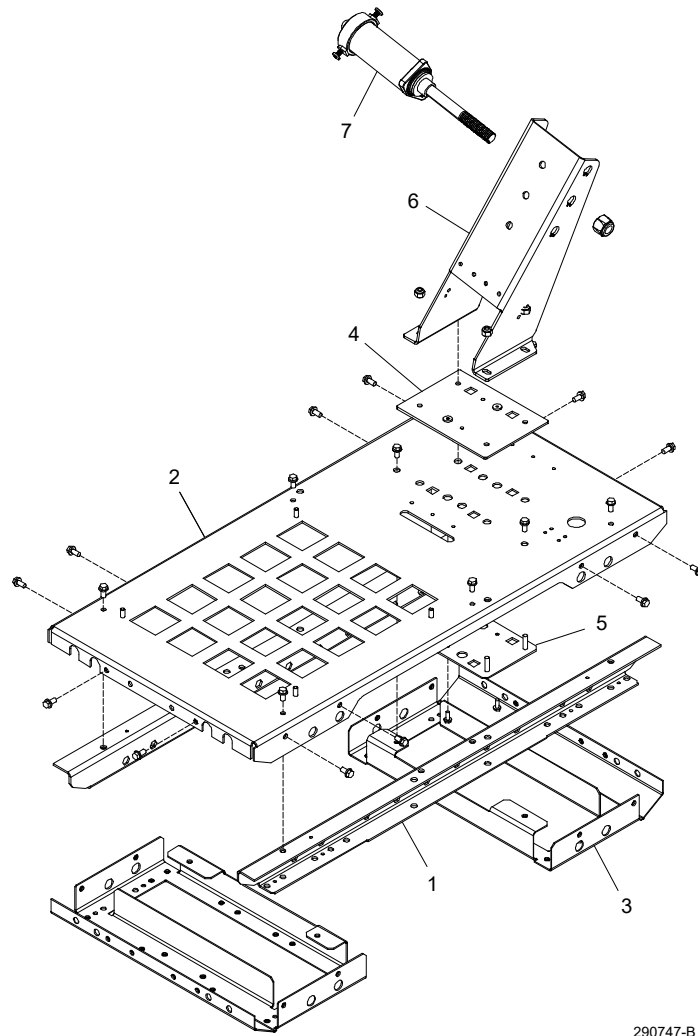


290302-A

Wire Drive Assembly S-L 4 Roll with Tach

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		291156	Housing/Arm Assy,	1
2		172077	Carrier, Drive Roll Keyed 24 Pitch	1
3		290301	Insulator, Motor Drive (4 Roll)	1
4		092865	Key, Stl 1215/1230 X 750	1
5		279222	Motor, Gear 24VDC 146RPM 29:1 Ratio Continuous w/Tach	1
6		290520	Ftg, Hose Brs Barbed	1
7		290357	Terminal, Power Output	1
8		290358	Terminal, Volt Sense	1
9		290535	Insulator, Volt Sense Terminal	1

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.

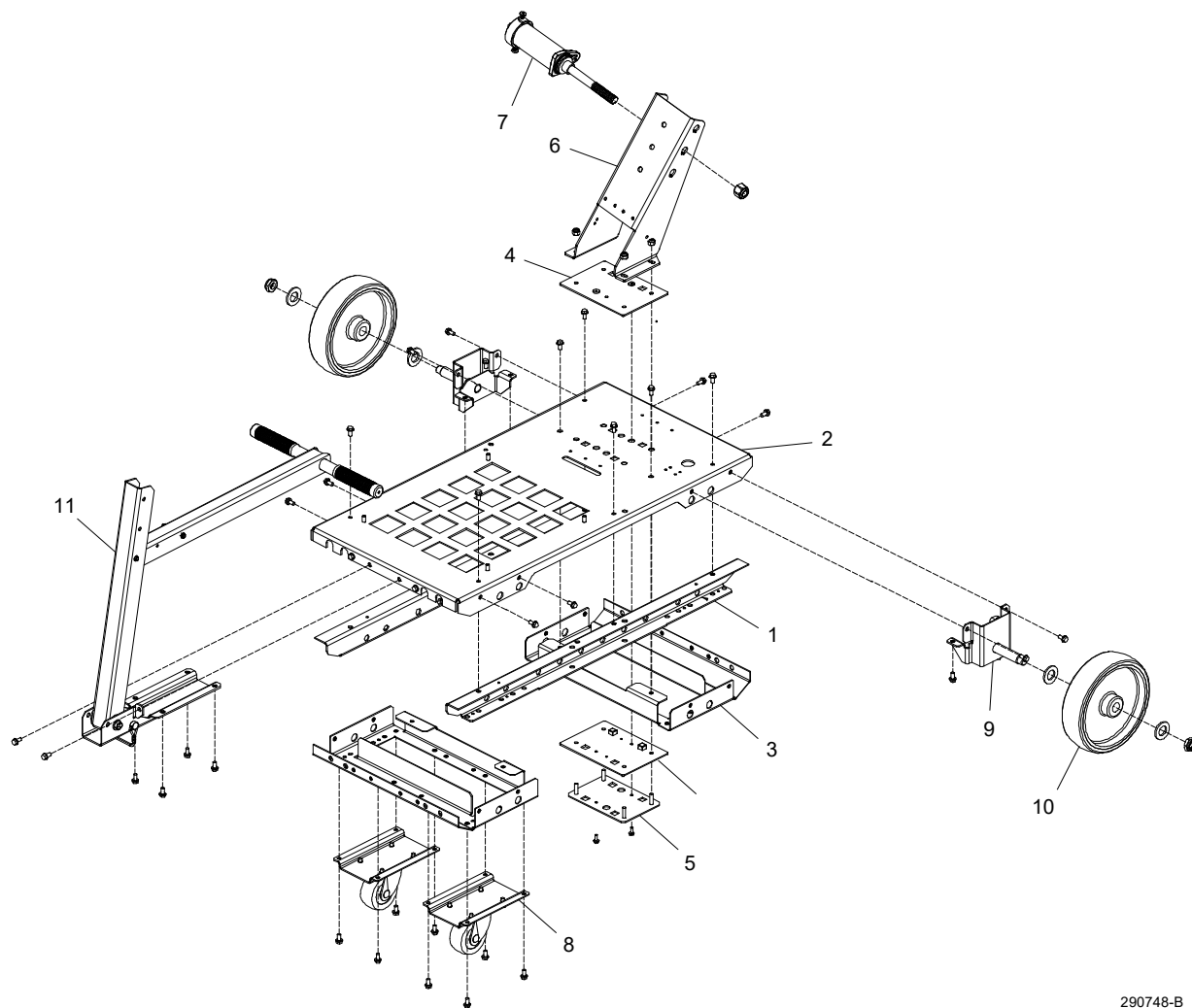


290747-B

Base, Sled Assembly with Rails

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		290763	Rail, Base Support	2
2		290764	Base, Wire Feeder With Studs	1
3		290765	Pan, Bottom Base	2
4		291330	Insulator, Spool Stand	2
5		291364	Plate, Backing Spool Stand W/Studs	1
6		279240	Support, Spool Tilted	1
7		141753	Hub+Spindle Assembly	1

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.

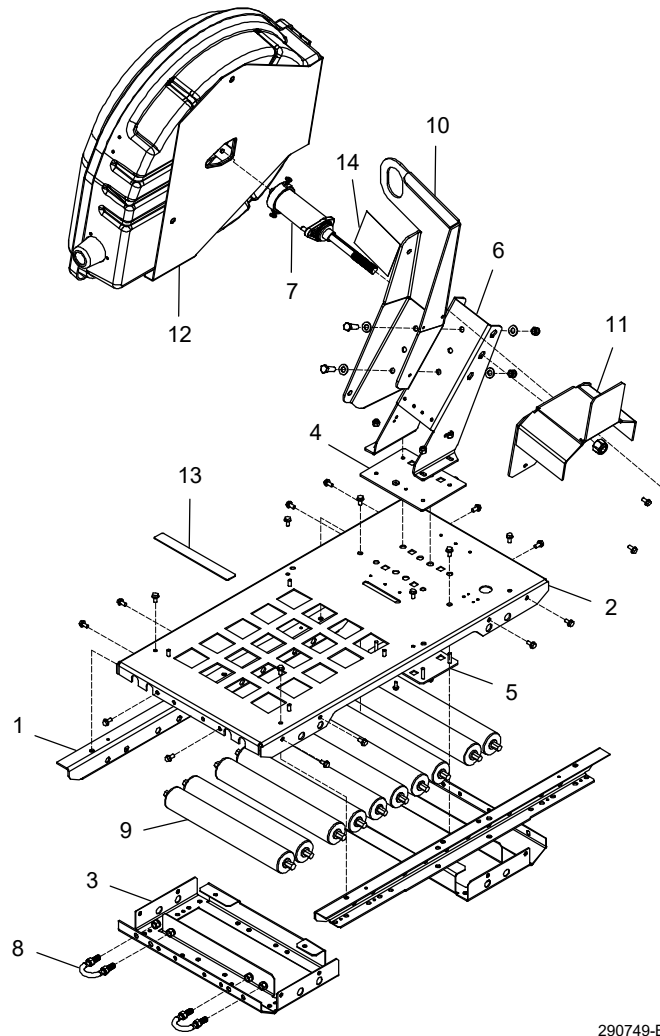


290748-B

Base, Sled Assembly with Wheels

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		290763	Rail, Base Support	2
2		290764	Base, Wire Feeder With Studs	1
3		290765	Pan, Bottom Base	2
4		291330	Insulator, Spool Stand	2
5		291364	Plate, Backing Spool Stand W/Studs	1
6		279240	Support, Spool Tilted	1
7		141753	Hub+Spindle Assembly	1
8		290753	Assembly, Caster	2
9		290750	Bracket, Wheel Mtg Weld Assy	2
10		097455	Wheel, Rbr Tire 8.000 Od x 2.031 Wide x .750 Bore	2
11		290757	Assembly, Handle	1

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.



290749-B

Base, Sled Assembly with Rollers

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		290763	Rail, Base Support	2
2		290764	Base, Wire Feeder With Studs	1
3		290765	Pan, Bottom Base	2
4		291330	Insulator, Spool Stand	2
5		291364	Plate, Backing Spool Stand W/Studs	1
6		279240	Support, Spool Tilted	1
7		141753	Hub+Spindle Assembly	1
8		291487	Bolt, U Stl 375-16X1250 Wd X 2250 Dp W/Nuts Pld	2
9		291494	Roller, 19 Dia X13 Wide 16 Gauge Stl Pld	10
10		291492	Bracket, Lift Eye	1
11		291493	Hanger, Cable	1
12		291626	Assy, Reel Cover	1
13		291915	Plugs, W/Leads (Transducer)	1
14		274996	Hose, Poly Clear 1701 Od X 250 Od X 17000 In	1

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.

Base Selection Of Drive Rolls Upon The Following Recommended Usages:

1. V-Grooved Rolls For Hard Wire.
2. U-Grooved Rolls For Soft And Soft Shelled Cored Wires.
3. U-Cogged Rolls For Extremely Soft Shelled Wires (Usually Hard Surfacing Types).
4. V-Knurled Rolls For Hard Shelled Cored Wires.
5. Drive Roll Types May Be Mixed To Suit Particular Requirements (Example: V-Knurled Roll In Combination With U-Grooved).

Wire Diameter			Drive Roll (2 Required)	
Fraction	Decimal	Metric	Part No.	Type
0.023-0.025 in.	0.023-0.025 in.	0.6 mm	087130	V-Grooved
0.030 in.	0.030 in.	0.8 mm	053695	V-Grooved
0.035 in.	0.035 in.	0.9 mm	053700	V-Grooved
0.040 in.	0.040 in.	1.0 mm	053696	V-Grooved
0.045 in.	0.045 in.	1.2 mm	053697	V-Grooved
0.052 in.	0.052 in.	1.3 mm	053698	V-Grooved
1/16 in.	0.062 in.	1.6 mm	053699	V-Grooved
0.035 in.	0.035 in.	0.9 mm	072000	U-Grooved
0.045 in.	0.045 in.	1.2 mm	053701	U-Grooved
0.052 in.	0.052 in.	1.3 mm	053702	U-Grooved
1/16 in.	0.062 in.	1.6 mm	053706	U-Grooved
5/64 in.	0.079 in.	2.0 mm	053704	U-Grooved
0.035 in.	0.035 in.	0.9 mm	132958	V-Knurled
0.045 in.	0.045 in.	1.2 mm	132957	V-Knurled
0.052 in.	0.052 in.	1.3 mm	132956	V-Knurled
1/16 in.	0.062 in.	1.6 mm	132955	V-Knurled
0.068-0.072 in.	0.068-0.072 in.	1.8 mm	132959	V-Knurled
0.079 in.	0.079 in.	2.0 mm	132960	V-Knurled
0.045 in.	0.045 in.	1.2 mm	083489	U-Cogged
0.052 in.	0.052 in.	1.3 mm	083490	U-Cogged
1/16 in.	0.062 in.	1.6 mm	053708	U-Cogged
5/64 in.	0.079 in.	2.0 mm	053710	U-Cogged

S-0859



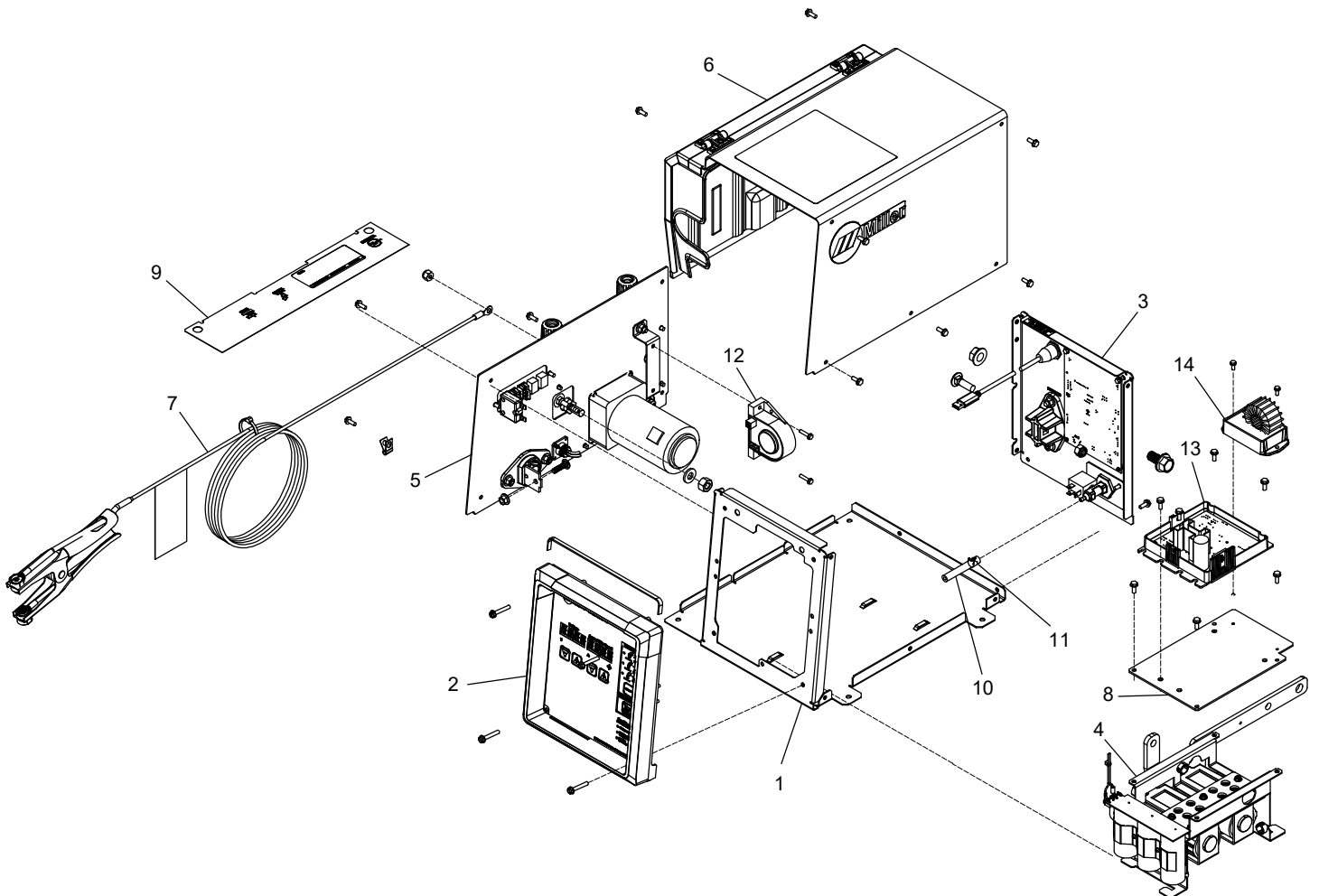
PM- 291018 E

ArcReach 16 Wire Feeder Eff with ND184015V

Effective with Serial Number
ND184015V - ZZ222222



PARTS MANUAL

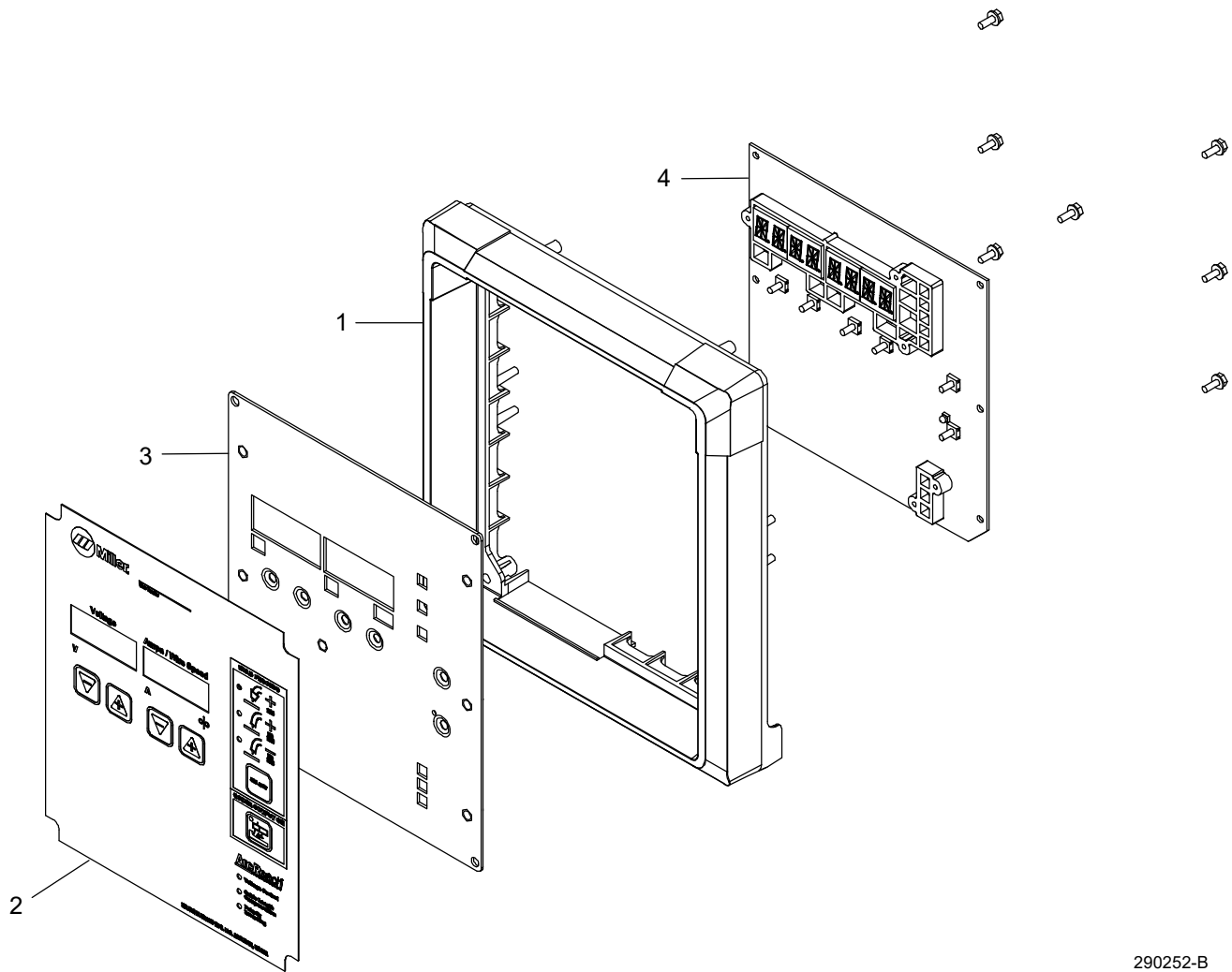


290249-F

Control Box Main Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		290251	Enclosure, Feeder	1
2		209252	Panel Assy, Front	1
3		290272	Panel Assy, Rear	1
4		290275	Panel Assy, Contactor	1
5		290276	Panel Assy, Drive	1
6		290277	Wrapper/Door Assy, Drive	1
7		295235	Cable, Sensing	1
8		290777	Panel, PCB Mtg Bracket	1
9		291055	Insulator, Enclosure	1
10		282689	Hose, Poly Clear 170ldx2500d X 17000In	1
11		283188	Clamp, Hose 335-410 Clp Dia Slftng Steel	2
12		168829	Transducer, Current 1000A Module Max Open Loop	1
13		289387	Circuit Card Assy, Power Brd W/Tray	1
14		289775	Module, Series Res Coupler	1
/		290033	Plug, W/Leads (Control Power)	1
/		290035	Plug, W/Leads (Pb Digital)	1
/		290037	Plug, W/Leads (Pb Analog)	1
/		280003	Plugs, W/Leads (UI Board To Motor Board)	1
/		290311	Plugs, W/Leads (Transducer)	1
/		290319	Plug, W/Leads (Feeder Power)	1

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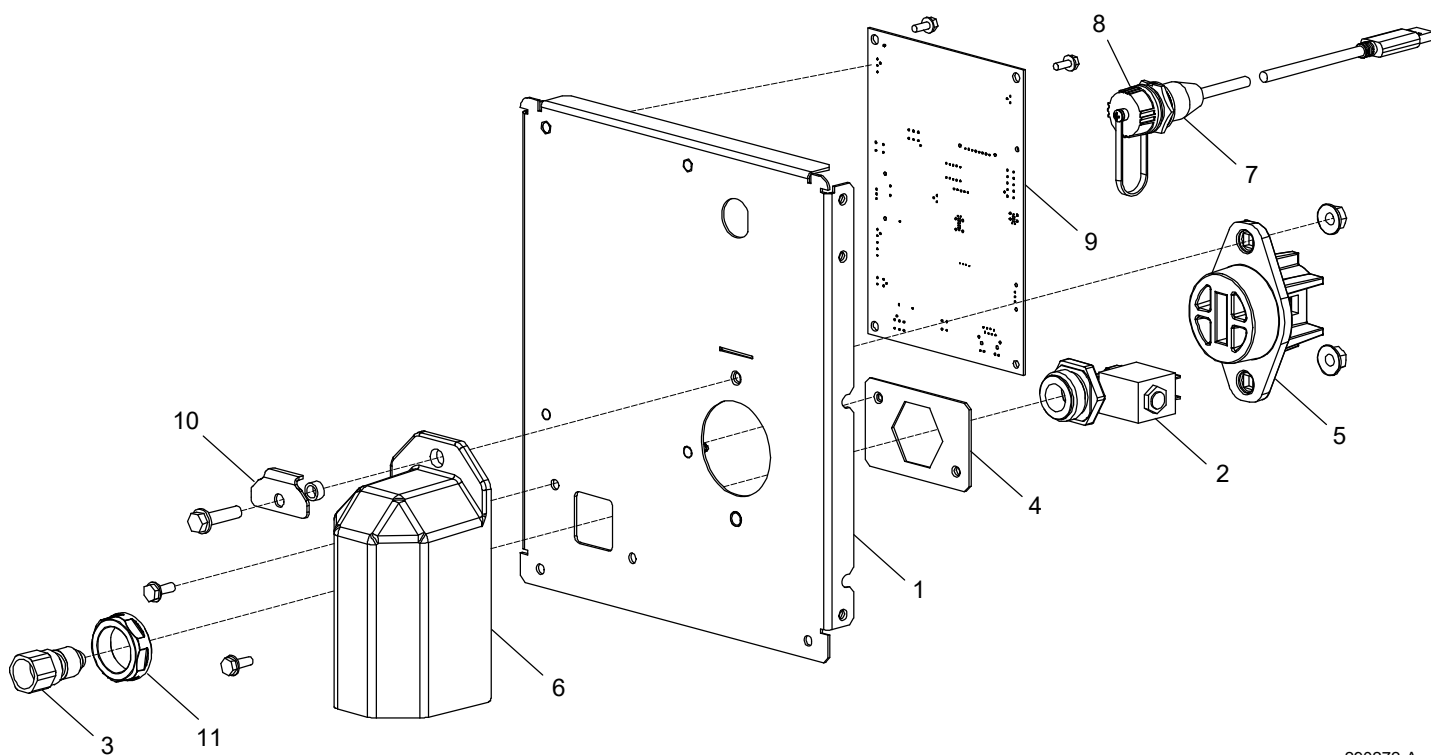


290252-B

Front Panel Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		281085	Bezel, Feeder (No Door)	1
2		290160	Label, Nameplate Miller ArcReach 16 Wire Feeder	1
3		290253	Panel, Front W/Stand-Offs	1
4		289379	Circuit Card Assy, UI W/Prgm	1

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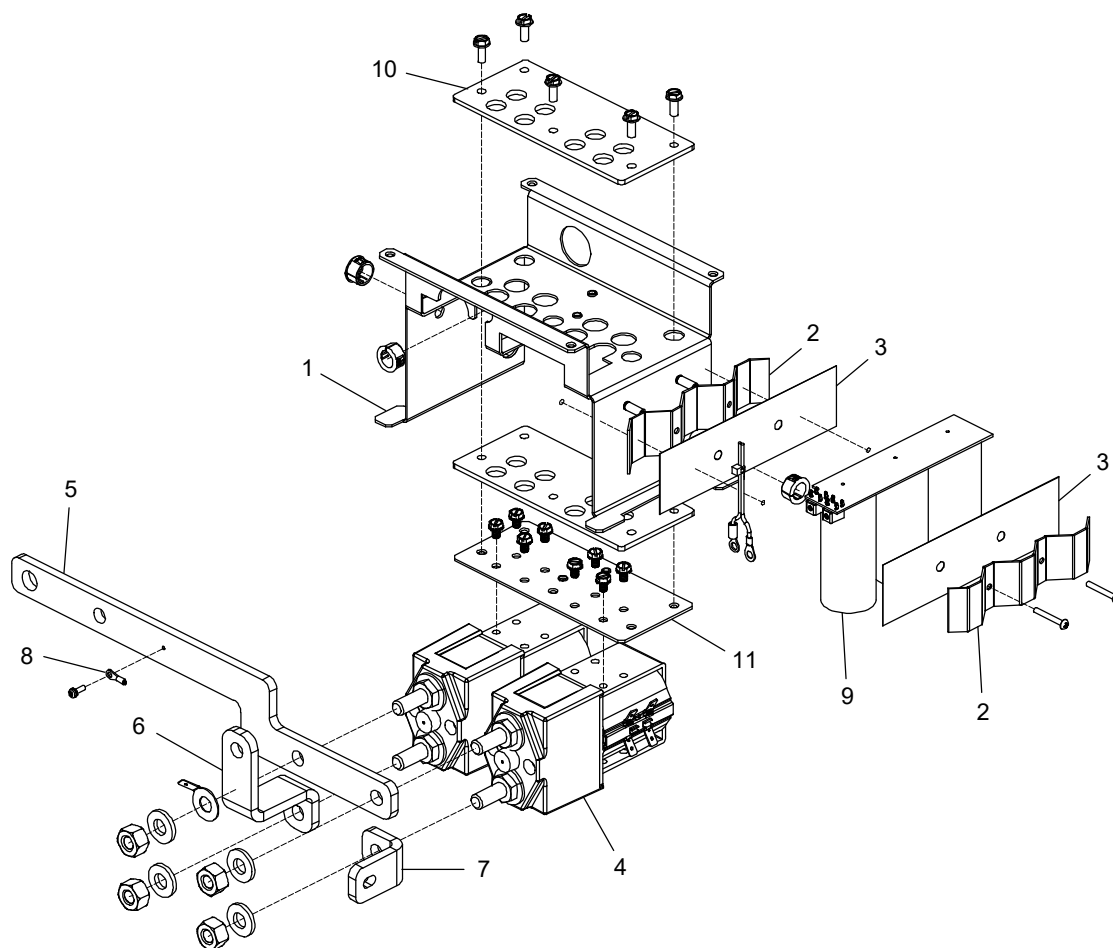


290272-A

Rear Panel Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		290273	Panel, Rear	1
2		226819	Valve, 12VDC 1Way .750-14 Thd 2MM Orf 100PSI	1
3		211989	Fitting, W/Screen	1
4		290274	Bracket, Gas Valve	1
5		263560	Terminal, Pwr Output Black	1
6		264114	Boot, Generic Output Stud	1
7		286624	Cable, USB 2.0 A -A Male 400cm Panel Mount Ip 67	1
8		286625	Cable, USB Cap Panel?Mount Ip?67	1
9		289368	Circuit Card Assy, Control, Boot/Prog	1
10		268891	Washer, Output Stud	1
11		272186	Nut, 750-14 Nps 1312Hex 413H Nyl	1

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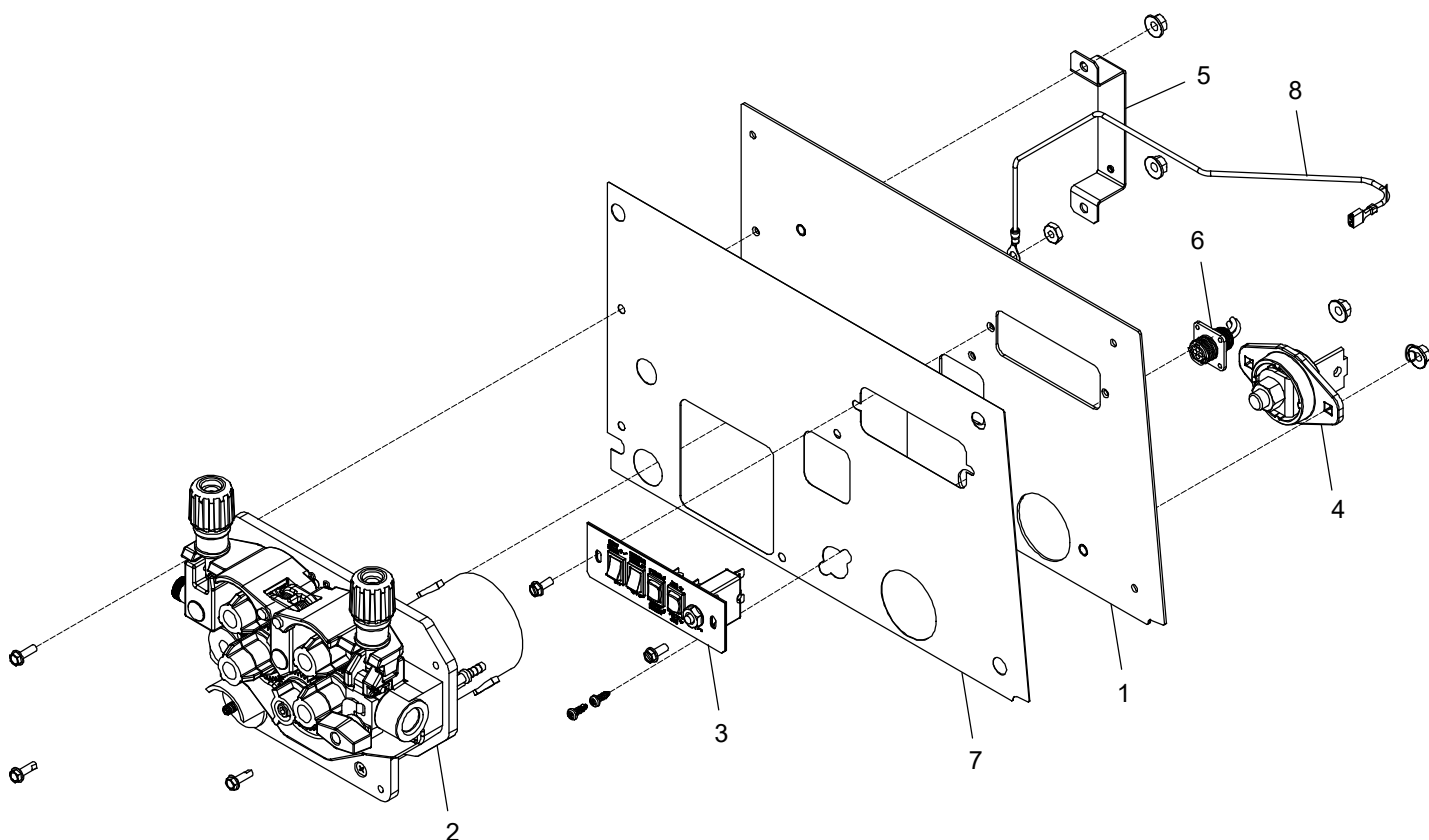


290275-D

Contactor Panel Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		293650	Panel, Contactor Mtg Assy	1
2		293652	Bracket, Steel, Capacitor Support	2
3		293651	Insulator, Capacitors	2
4		290516	Contactor, 12VDC Spst On-Off Magnetic Blow Out	2
5		290294	Bus Bar, Input	1
6		290295	Bus Bar, Weld	1
7		290296	Bus Bar, Gouge	1
8		286525	Thermistor, NTC 30K OHM @ 25 DEG C 1000In2500	1
9		293367	Circuit Card Assy, Cap Bank VS Feeder	1
10		292796	Insulator, Contactor	2
11		292932	Bracket, Contactor Mtg	1
/		290313	Plug, W/Leads (Coil Drives)	1
/		290316	Plug, W/Leads (Bus Capacitors)	1

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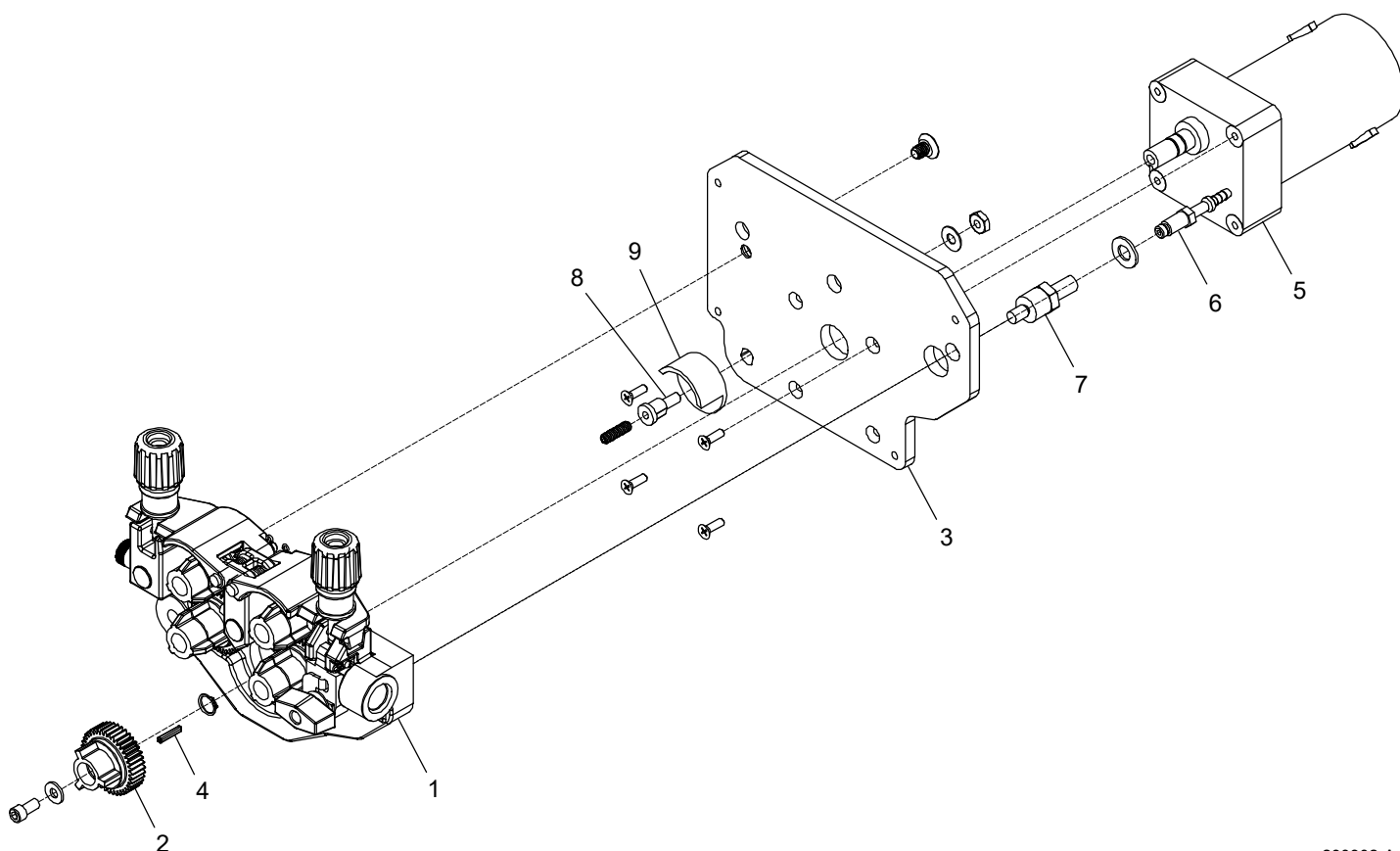


290275-C

Drive Panel Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		290300	Panel, Drive Mtg	1
2		290302	Drive Assy, Wire S/L 4 Roll W/Tach	1
3		290356	Panel Assy, Inner	1
4		241433	Terminal, Pwr Output Black	1
5		290794	Bracket, Lem Mtg	1
6		290308	Plug, W/Leads (Trigger Receptacle)	1
7		291076	Label, Drive Panel Blank	1
8		290319	Plug, W/Leads (Feeder Power)	1
/		290985	Plug, W/Leads(ArcReach)	1

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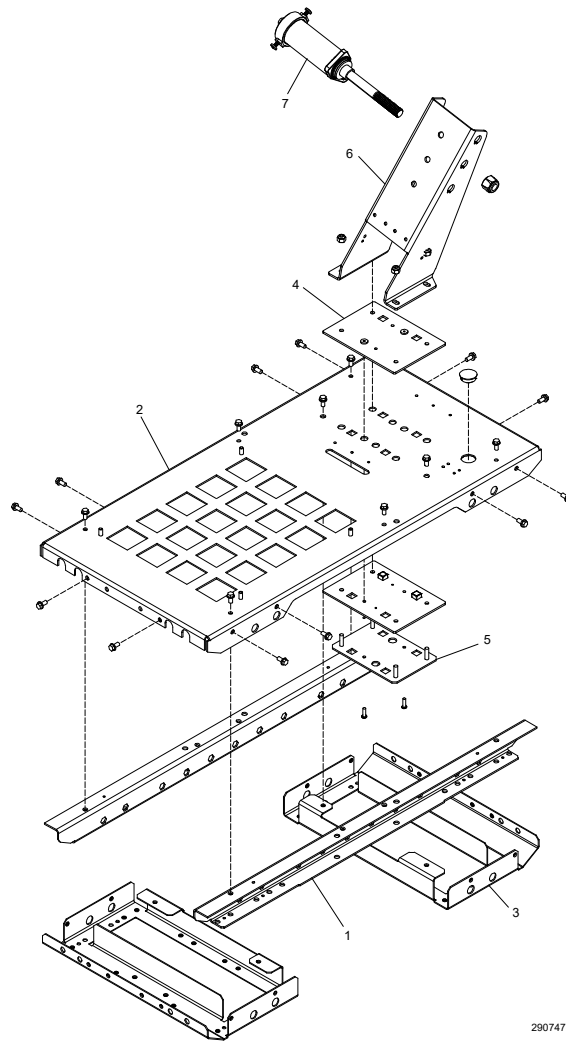


290302-A

Wire Drive Assembly S-L 4 Roll with Tach

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		291156	Housing/Arm Assy,	1
2		172077	Carrier, Drive Roll Keyed 24 Pitch	1
3		290301	Insulator, Motor Drive (4 Roll)	1
4		092865	Key, Stl 1215/1230 X 750	1
5		279222	Motor, Gear 24VDC 146RPM 29:1 Ratio Continuous w/Tach	1
6		290520	Ftg, Hose Brs Barbed	1
7		290357	Terminal, Power Output	1
8		290358	Terminal, Volt Sense	1
9		290535	Insulator, Volt Sense Terminal	1

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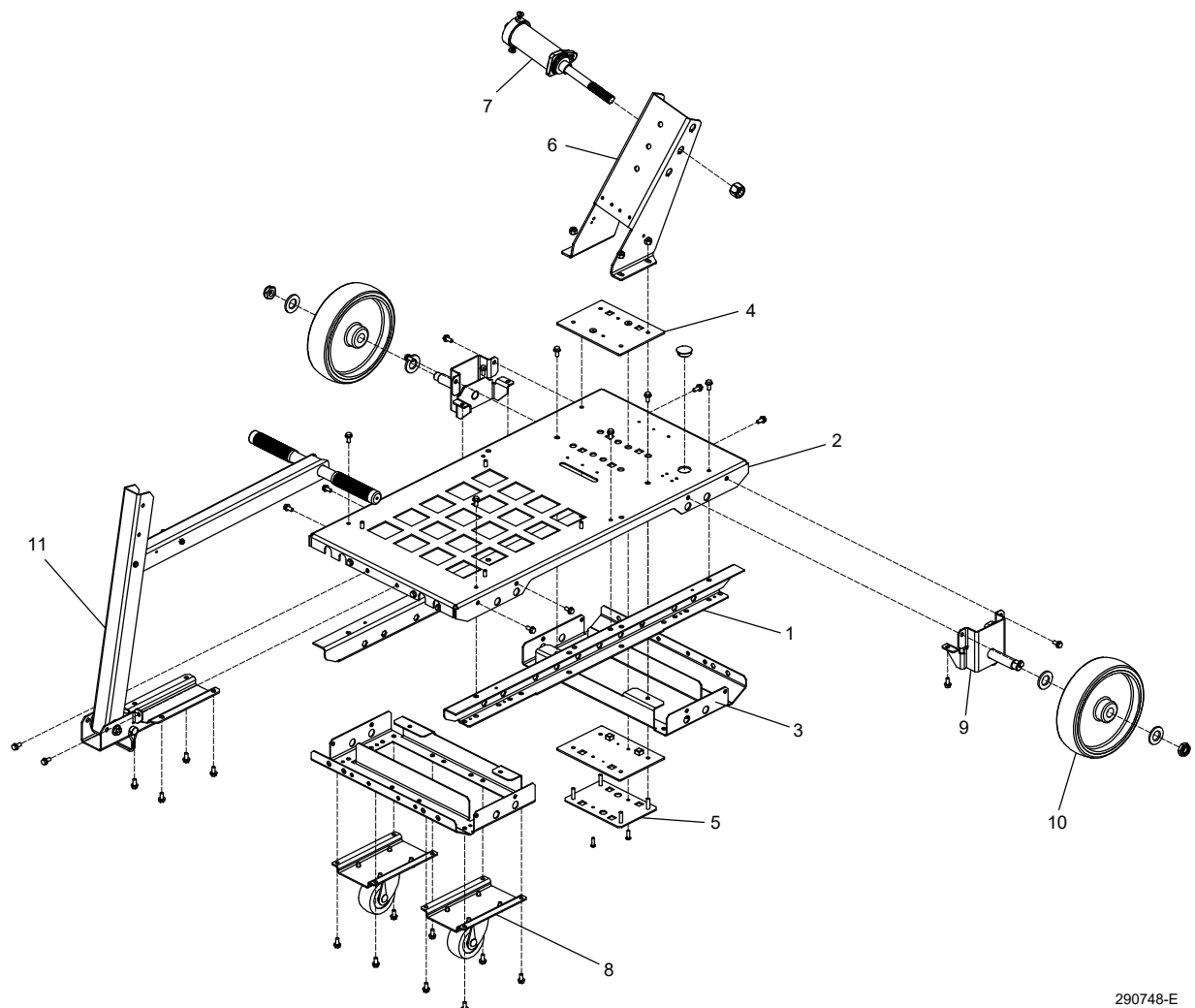


290747-E

Base, Sled Assembly with Rails

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		290763	Rail, Base Support	2
2		290764	Base, Wire Feeder With Studs	1
3		290765	Pan, Bottom Base	2
4		291330	Insulator, Spool Stand	2
5		291364	Plate, Backing Spool Stand W/Studs	1
6		279240	Support, Spool Tilted	1
7		141753	Hub+Spindle Assembly	1

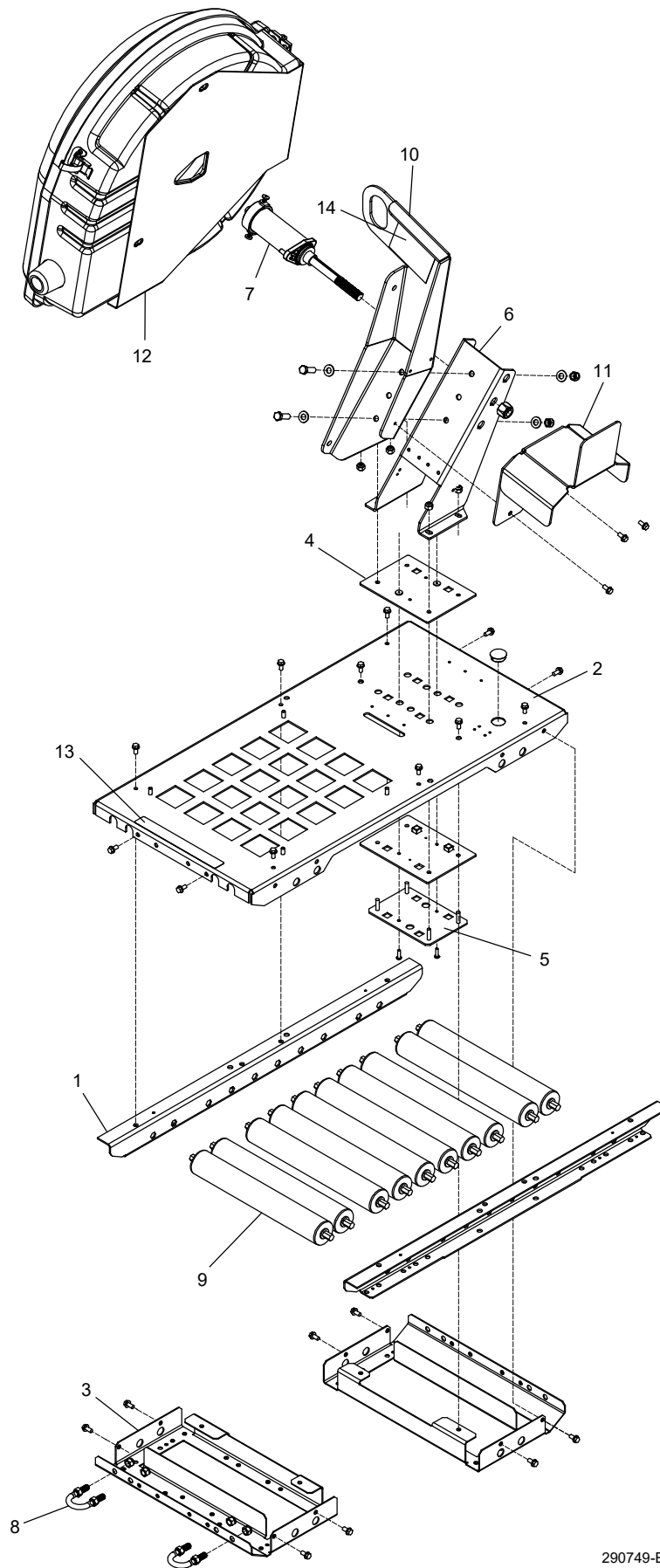
To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.



290748-E

Base, Sled Assembly with Wheels

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		290763	Rail, Base Support	2
2		290764	Base, Wire Feeder With Studs	1
3		290765	Pan, Bottom Base	2
4		291330	Insulator, Spool Stand	2
5		291364	Plate, Backing Spool Stand W/Studs	1
6		279240	Support, Spool Tilted	1
7		141753	Hub+Spindle Assembly	1
8		290753	Assembly, Caster	2
9		290750	Bracket, Wheel Mtg Weld Assy	2
10		097455	Wheel, Rbr Tire 8.000 Od x 2.031 Wide x .750 Bore	2
11		290757	Assembly, Handle	1



290749-E

Base, Sled Assembly with Rollers

Base, Sled Assembly with Rollers

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		290763	Rail, Base Support	2
2		290764	Base, Wire Feeder With Studs	1
3		290765	Pan, Bottom Base	2
4		291330	Insulator, Spool Stand	2
5		291364	Plate, Backing Spool Stand W/Studs	1
6		279240	Support, Spool Tilted	1
7		141753	Hub+Spindle Assembly	1
8		291487	Bolt, U Stl 375-16X1250 Wd X 2250 Dp W/Nuts Pld	2
9		291494	Roller, 19 Dia X13 Wide 16 Gauge Stl Pld	10
10		291492	Bracket, Lift Eye	1
11		291493	Hanger, Cable	1
12		291626	Assy, Reel Cover	1
13		291915	Plugs, W/Leads (Transducer)	1
14		274996	Hose, Poly Clear 1701 Od X 250 Od X 17000 In	1

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.

Base Selection Of Drive Rolls Upon The Following Recommended Usages:

1. V-Grooved Rolls For Hard Wire.
2. U-Grooved Rolls For Soft And Soft Shelled Cored Wires.
3. U-Cogged Rolls For Extremely Soft Shelled Wires (Usually Hard Surfacing Types).
4. V-Knurled Rolls For Hard Shelled Cored Wires.
5. Drive Roll Types May Be Mixed To Suit Particular Requirements (Example: V-Knurled Roll In Combination With U-Grooved).

Wire Diameter			Drive Roll (2 Required)	
Fraction	Decimal	Metric	Part No.	Type
0.023-0.025 in.	0.023-0.025 in.	0.6 mm	087130	V-Grooved
0.030 in.	0.030 in.	0.8 mm	053695	V-Grooved
0.035 in.	0.035 in.	0.9 mm	053700	V-Grooved
0.040 in.	0.040 in.	1.0 mm	053696	V-Grooved
0.045 in.	0.045 in.	1.2 mm	053697	V-Grooved
0.052 in.	0.052 in.	1.3 mm	053698	V-Grooved
1/16 in.	0.062 in.	1.6 mm	053699	V-Grooved
0.035 in.	0.035 in.	0.9 mm	072000	U-Grooved
0.045 in.	0.045 in.	1.2 mm	053701	U-Grooved
0.052 in.	0.052 in.	1.3 mm	053702	U-Grooved
1/16 in.	0.062 in.	1.6 mm	053706	U-Grooved
5/64 in.	0.079 in.	2.0 mm	053704	U-Grooved
0.035 in.	0.035 in.	0.9 mm	132958	V-Knurled
0.045 in.	0.045 in.	1.2 mm	132957	V-Knurled
0.052 in.	0.052 in.	1.3 mm	132956	V-Knurled
1/16 in.	0.062 in.	1.6 mm	132955	V-Knurled
0.068-0.072 in.	0.068-0.072 in.	1.8 mm	132959	V-Knurled
0.079 in.	0.079 in.	2.0 mm	132960	V-Knurled
0.045 in.	0.045 in.	1.2 mm	083489	U-Cogged
0.052 in.	0.052 in.	1.3 mm	083490	U-Cogged
1/16 in.	0.062 in.	1.6 mm	053708	U-Cogged
5/64 in.	0.079 in.	2.0 mm	053710	U-Cogged

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