Replacement Parts Manual

Wall Mounted Package Air Conditioner

Models: WA421 WA422D

WA482 WA483D

WA602 WA603D

General Notes

- > Revised and/or additional pages may be issued from time to time.
- > A complete and current manual consists of pages shown in the following contents section.

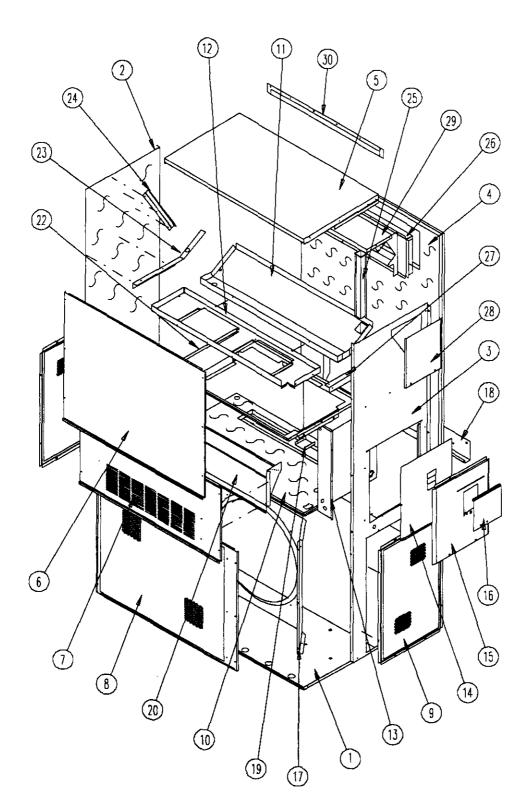
Important

Contact the installing and/or local Bard distributor for all parts requirements. Make sure you have the complete model and serial number available from the unit rating plates.

Contents

Description	Page
Cabinet Components	
•	• Exploded View 1
	Usage List 2
	-
Functional Components	
·	Exploded View
	Usage List 4
	• Usage List 5
Control Bonol	
Control Panel	. Find and Marin
	Exploded View6
	• Usage List 7
	Usage List 8
Blower Assembly	
y	Exploded View9
	Usage List 9





SEXP-175

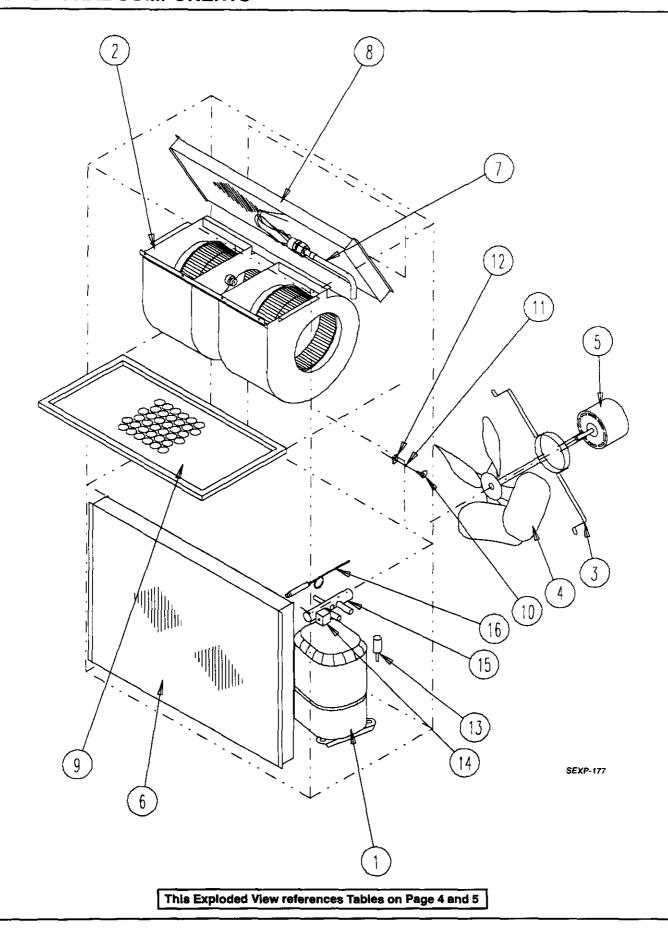
Page: 1 Manual: 2110-413

Drawing No.	Part No.	Description	WA421-A, B, E	WA421-C, F	WA422DA, B	WA422DC	WA482-A, B, E	WA482-C, F	WA483DA, B	WA483DC	WA602-A, B, E	WA602-C, F	WA603DA, B	WA603DC
1	S127Y214	Lower Base	X	Х	Х	Х	X	Х	Х	Х	X	Х	Х	Х
2	S500-262-* ①	Left Side	X	X	X	X	X	X	X_	X	X	X	X	X
3	S500-261-*①	Right Side	X	Х	X	Х	Х	Х	Х	X	Х	Х	Х	X
4	S508-098	Back	X	Х	X	Х	Х	Х	Х	Х	Х	Х	Х	X
5	S506-142-* ①	Top	X	X	х	X	X	X	X	Х	X	Х	Х	Х
6	S514-077-* ①	Upper Front	X	X.	X	X	X	X	Х	X	X	Х	X	X
7	S552-224-* ①	Service Door	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	х
8	118-031-*①	Condenser Grille	X	Х	Х	Х	X	х	Х	Х	Х	Х	Х	X
9	118-032-*①	Side Grille	2	2	2	2	2	2	2	2	2	2	2	2
10	S521X258	Condenser Partition	X	Х	Х	Х	Х	Х	Х	X	X	Х	Х	Х
11	123-083	Drain Pan	Х	Х	х	Х	Х	Х	Х	Х	X	Х	Х	Х
12	121X216	Blower Partition	Х	Х	X	Х	Х	Х	Х	Х	X	Х	Х	X
13	Control Panel	See Control Panel Assembly												
<u> </u>	Assembly	Drawing & Parts List	X	х	X.	Х	х	х	Х	Х	X	Х	х	х
14	S133-114	Control Panel Cover (Inner)	X		Х		Х		X		х		Х	
14	\$133-115	Control Panel Cover (Inner)	ŀ	х		х		х		х		х		x
15	S533-113-* ①	Control Panel Cover (Outer)	Х	Х	Х	Х	X	Х	Х	Х	Х	Х	Х	Х
16	S153-218-*①	Dicsonnect Access Door	Х	Х	Х	Х	Х	X	Х	Х	Х	Х	Х	X
17	125-024	Fan Shroud	X	X	Х	х	х	х	Х	Х	x	х	Х	Х
18	113-140	Bottom Mounting Bracket	Х	Х	Х	Х	Х	Х	Х	Х	X	Х	Х	Х
19	137-209	Fill	X	Х	Х	X	Х	Х	Х	X	х	Х	Х	х
20	962024	Fresh Air Damper Assembly	х	Х	Х	X	X	Х	Х	X	Х	Х	Х	Х
22	131X099	Filter Tray	х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
23	105X877	Left Side Support	Х	Х	Х	х	Х	Х	х	Х	Х	Х	Х	Х
24	147-046-*①	Left Evaporator Support	Х	Х	Х	X	Х	х	Х	Х	X	Х	Х	х
25	135-128	Raceway	2	2	2	2	2	2	2	2	2	2	2	2
26	111X034	Oulet Airframe Assembly	Х	Х	х	Х	Х	Х	Х	Х	X	Х	х	Х
27	105X878	Right Side Support	Х	Х	Х	х	х	Х	Х	Х	х	Х	х	Х
28	S143-042-*①	Right Side Cover Plate (Outer)	Х	Х	Х	Х	Х	Х	Х	Х	х	Х	Х	Х
29	135-129	Heat Shield	Х	Х	х	Х	х	Х	х	Х	x	Х	Х	х
30	113-150-* ①	Top Rain Flashing	×	Х	X	X	X	x	Х	X	Х	х	Х	Х

O NOTE: Exterior cabinet parts are manufactured with various paint color options. To insure that you receive the proper paint color, you must include the complete model and serial number of the unit for which cabinet parts are being ordered.

Manual: 2110-413

FUNCTIONAL COMPONENTS



Page: 3 Manual: 2110-413

FUNCTIONAL COMPONENTS

				WA421-A	NA421-B, E	WA421-C	WA421-F	WA422DA	WA422DB	WA422DC
Dwg.				Ϋ́Α	Ϋ́	₹	₹	Ϋ́	Ϋ́Α	Υ _A
No.	Part No.	Description								
1	8000-126	Compressor		X				Х		
[1	8000-127	Compressor	ſ		Х	ĺ			X	
1	8000-128	Compressor				X	Х			X
2	S900-183	Blower Assembly		Х	Х		Х	Х	Х	l İ
2	S900-184	Blower Assembly			<u> </u>	Χ.				X
3	8200-004	Fan Motor Mount		Х	Х	Х	Х	Х	Х	X
4	5151-027	Fan Blade		Х	Х	Х	Х	Х	Х	X
5	8105-030	Condenser Motor	ŀ			Х				x
5	8105-039	Condenser Motor		Χ_	Х		Х	Х	Х	L
6	5051-078	Condenser Coil		X	Х	х	Х	Х	Х	Х
7	5651-078	Expansion Valve						Х	х	x
7	800-0203	Cooling Capillary Assembly		X	Х	х	Х			
8	5060-070	Evaporator Coil		X	Х	Х	Х			
8	917-0042	Evaporator Coil						Х	х	х
9	7004-016	Air Filter 1" Throw-Away		Х	Х	х	Х	Х	х	x
9	7003-030	Air Filter 1" Washable		Х	Х	х	Х	Х	х	x
9	7004-027	Air Filter 2" Pleated	l	X	Х	Х	Х	Х	Х	Х
10	1171-022	1/4* Turn Fastener		Χ	Х	Х	Х	Х	Х	Х
11	1171-024	1/4" Turn Retainer		X	Х	Х	Х	Х	Х	Х
12	1171-023	1/4* Receptacle		X	X	Х	Х	Х	Х	х
13	8406-055	High Pressure Switch (Solder)		Θ	Θ	Θ	Θ			
14	5650-027	Solenoid Coil						Х	Х	Х
15	5650-026	Three-Way Valve						Х	Х	Х
16	800-0271	Drain Back Capillary						X	Х	Х
NS	8406-061	Low Pressure Switch (Solder) ①		X	Х	Х	Х			
NS	8406-088	Low Ambient Control (Solder) ①		Χ	Х	Х	Х			
NS	1804-0106	High Pressure Switch (Flare) ①		Х	Х	Х	Х			
NS	1804-0107	Low Pressure Switch (Flare) ①		X	X	Х	Х			
NS	1804-0108	Low Ambient Control (Flare) ①		Х	Х	Х	Х			

NS - Not Shown

①- Optional on these models

This Table references Exploded View on Page 3

Page: 4 Manual: 2110-413

FUNCTIONAL COMPONENTS

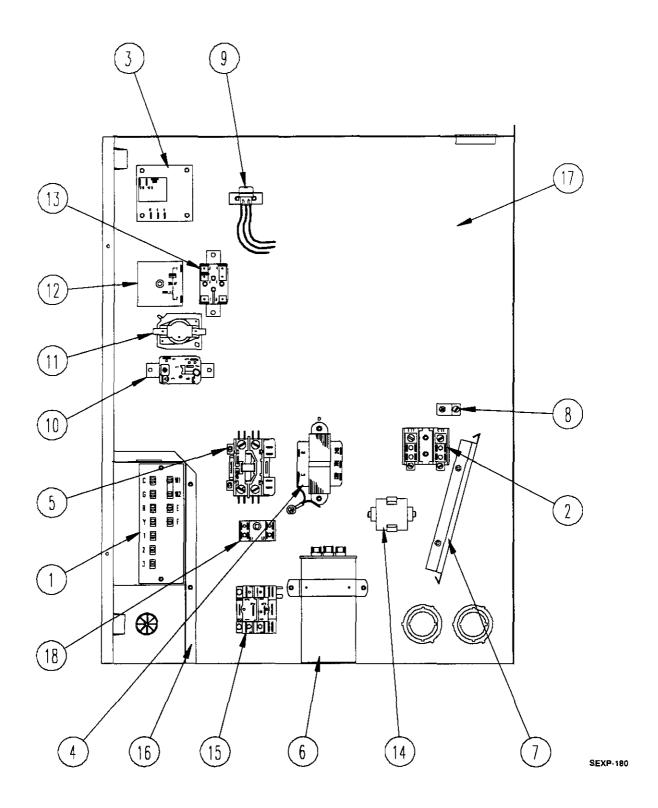
_			WA482-A	WA482-B, E	WA482-C	WA482-F	WA483DA	WA483DB	WA483DC	WA602-A	WA602-B, E	WA602-C	WA602-F	WAGOSDA	WAGG3DB	WA603DC
Dwg. No.	Part No.	Description	3	¥	₹	₹	≩	₹	*	₹	₹	3	*	≩	3	≩
1	8000-153	Compressor	1	Ī					Γ	Х				Х		
1	8000-154	Compressor						Ī			x				х	
1	8000-155	Compressor	ŀ					l				x	Ιx			χl
1	8000-149	Compressor	x	1			x	Ì								
1	8000-156	Compressor	1	x				x	İ							1 1
1	8000-157	Compressor			х	х			x							
2	S900-183	Blower Assembly	Х	Х		х	Х	X								\Box
2	S900-184	Blower Assembly			х			ŀ	х							
2	S900-185	Blower Assembly						ŀ		х	х		х	х	х	
2	S900-186	Blower Assembly]			ļ				х				x
3	8200-004	Fan Motor Mount	Х	Х	Х	Х	Х	Х	X.	Х	Х	Х	Х	Х	Х	Х
4	5151-027	Fan Blade	Х	Х	Х	Х	Х	Х	Х	Х	х	Х	X	X	Х	Х
5	8105-030	Condenser Motor			х				х			Х				Х
5	8105-039	Condenser Motor	Х	х		Х	х	X		х	Χ_		х	х	х	Ш
6	5051-074	Condenser Coil	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
7	5651-078	Expansion Valve					Х	Х	х							
7	5651-079	Expansion Valve	1											х	х	х
7	800-0204	Cooling Capillary Assembly	x	x	х	Х										
7	800-20	Cool. Cap. Assy. (S/N before M95)								х	Х	х	х			
7	800-23	Cool. Cap. Assy. (S/N starting M95)		L						Х	Х	Х	Х			
8	5060-(Evaporator Coil	X	х	Х	Х										
8	5060-071	Evap. Coil (S/N before M95)]							х	х	х	х			
8	5060-082	Evap. Coil (S/N starting M95)]							х	х	х	х			
8	917-0042	Evaporator Coil					Х	Х	Х							
8	917-0044	Evaporator Coil	<u> </u>						<u> </u>	L				X	Х	Х
9	7004-016	Air Filter 1" Throw-Away	X	Х	Х	х	Х	Х	x	х	Х	х	Х	Х	Х	x
9	7003-030	Air Filter 1* Washable	X	х	Х	Х	X	х	x	х	Х	х	Х	Х	Х	x
9	7004-027	Air Filter 2" Pleated	<u> </u>	X	X	Х	Х	X	X	Х	X	Х	Х	Х	Х	X
10	1171-022	1/4" Turn Fastener	X	х	х	Х	Х	Х	X	X	Х	Х	Х	X	Х	Х
11	1171-024	1/4" Turn Retainer	X	Х	Х	Х	Х	Х	X	Х	Х	Х	Х	Х	Х	X
13	8406-055	High Pressure Switch (Solder)	X	<u> </u>	х	Х	X	X	X	X	Х	Х	X	Х	Х	Х
14	5650-027	Solenoid Coil	<u> </u>				Х	Х	Х					X	Х	Х
15	5650-026	Three-Way Valve	<u> </u>				Х	х	х					Х	Х	Х
16	800-0272	Drain Back Capillary		<u> </u>			X	X_	X_	<u> </u>	ļ		ļ	×	X	х
NS	8406-061	Low Pressure Switch (Solder) ①	×	×	х	Х				Х	Х	X	×	1		
NS	8406-088	Low Ambient Control (Solder) ①	X	X	Х	Х		ļ		х	Х	х	Х	<u> </u>		
NS	1804-0106	High Pressure Switch (Flare) ①	×	X	X	х	Х	X	X	×	Х	X	×	X	х	x
NS	1804-0107	Low Pressure Switch (Flare) ①	X	×	x	x			!	×	X	×	×			
NS	1804-0108	Low Ambient Control (Flare) ①	Х	Х	Х	Х		<u> </u>	<u> </u>	X	Х	Х	Х	<u> </u>	<u> </u>	

NS - Not Shown

①-- Optional on these models

This Table references Exploded View on Page 3

Page: 5 Manual: 2110-413



This Exploded View references Tables on Page 7 and 8

Page: 6 Manual: 2110-413

CONTROL PANEL

			WA421-A	WA421-B	WA421-C	WA421-E	WA421-F	WA422DA	WA422DB	WA422DC	WA482-A	WA482-B	WA482-C
Drawing			₹	Ž	A 2	ž	₹	₹	₹.	<u>¥</u>	¥	¥.	¥
No.	Part No.	Description	3	3	3	3	3	3	3	3	3	3	3
1	8607-020	Low Voltage Terminal Strip	X	X	X	Х	X	Х	Х	Х	Х	Х	X
2	8607-013	Terminal Block 2 Pole	Х				2	X	1		Х	_	
2	8607-014	Terminal Block 3 Pole		х	х	х			x	х		x	x
2	8607-015	Phelon Insulator		L	Х		<u> </u>			Х			х
3	8201-056	Blower Control	Х	х		Х	Х	Х	Х		Х	х	
3	8201-032	Blower Relay	<u> </u>		Х					х		<u> </u>	х
4	8407-034	Transformer	Х	x		Х	Х				Х	Х	
4	8407-035	Transformer	i	1]	ļ	х	x				
4	8407-042	Transformer		l	х		L.	<u> </u>		Х			Х
5	8401-002	Compressor Contactor		Х	X	х	Х		X	X		Х	х
5	8401-007	Compressor Contactor	x					X					
5	8401-016	Compressor Contactor								l	Х		
6	8552-005	Outdoor Motor Capacitor		x		Х	X		x			Х	
6	8552-026	Outdoor Motor Capacitor			x]	x			x
6	8552-055	Compressor Capacitor	x					x					
6	8552-059	Compressor Capacitor									х		
7	135-130	Wire Shield	Х	Х	Х	X	Х	х	X	Х	Х	X	х
8	8611-006	Ground Terminal	X	Х	Х	Х	Х	Х	x	X	Х	Χ	Х
9	3000-978	6 Pin Connector	Х	Х	Х	Х	х	X	X	X	Х	X	X
10	8201-034	Lockout Relay	0	Θ	0	Θ	Θ	0	0	Θ	Х	Х	Х
10	8201-062	Control Relay #2						х	х	Х			
11	8201-065	Low Pressure Bypass (TDR) (Optional)	Х	Х	Х	Х	X				Х	Х	x
11	8201-071	Control Relay #1	1					X	X	Х	<u> </u>	l'	Ш
12	8201-050	Compressor TDR	Ф	0	0	0	0	х	Х	Х	0	0	0
12	8201-067	Compressor TDR Adj (Optional)	X	Х	X	Χ.	X				X	X	X
13	8201-062	Alarm Relay (Optional)	Х	Х	Х	Х	Х				X	Х	X
14	8551-005	Start Device (PTCR) (Optional)	X					х			<u> </u>		
15	8201-032	Outdoor Fan Relay (Optional)			Х		<u> </u>		<u>L_</u>	Х			Х
16	117X139	Low Voltage Box	X	X	X	Х	X	X	X	Х	Х	X	X
17	117X143	Control Panel	Х	Х	Х	Х	Х	Х	Х	Х	Х	X	Х
18	8607-017	Terminal Block (Optional)	X	X	<u> </u>	Х	X	<u> </u>	<u> </u>		Х	X	
NS	4095-110	Wiring Diagram	X					<u> </u>	<u> </u>		<u>L</u>		
NS	4095-112	Wiring Diagram	<u> </u>								X		
NS	4095-118	Wiring Diagram			<u> </u>			X	<u>L_</u>			<u> </u>	
NS	4095-210	Wiring Diagram		х								$ldsymbol{ldsymbol{ldsymbol{eta}}}$	
NS	4095-212	Wiring Diagram							<u> </u>			х	<u> </u>
NS	4095-214	Wiring Diagram				Х			<u> </u>				
NS	4095-221	Wiring Diagram							X	<u> </u>		igsquare	
NS	4095-310	Wiring Diagram			Х				<u></u>		<u> </u>	<u> </u>	
NS	4095-313	Wiring Diagram		L							<u> </u>	<u> </u>	х
NS	4095-315	Wiring Diagram			<u> </u>	<u> </u>		<u> </u>	ـــــ	X	<u> </u>	↓	
NS	4095-612	Wiring Diagram			1	<u> </u>	X				<u> </u>		

O Optional on these models.

This Table references Exploded View on Page 6

NS Not shown

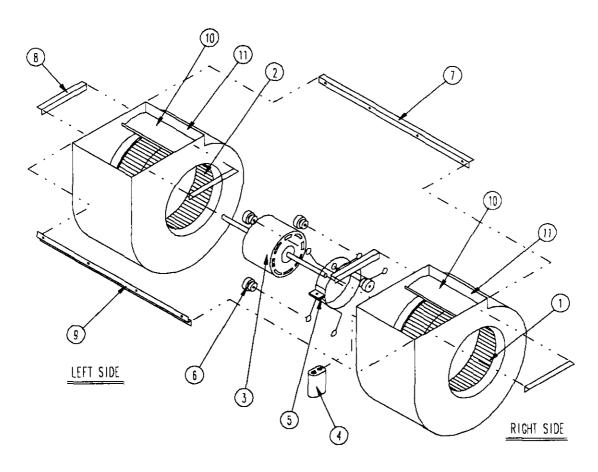
					VA603DA	VA603DB	VA603DC					
Drawing			WA482-E	WA482-F	WA483DA, WA603DA	WA483DB, WA603DB	WA483DC, WA603DC	WA602-A	WA602-B	WA602-C	WA602-E	WA602-F
No.	Part No.	Description			<u> </u>		5	_=	5	5		<u> </u>
1	8607-020	Low Voltage Terminal Strip	X	Х	X	X	X	Х	Х	Х	Х	Х
2	8607-013	Terminal Block 2 Pole		2	Х			Х			!	2
2	8607-014	Terminal Block 3 Pole	X			(X	X	ĺ	X	X	[X]	[[
2	8607-015	Phelon Insulator				ļ	Χ_			Х		<u> </u>
3	8201-056	Blower Control	X	Х	Х	Х		Х	Х		X	x
3	8201-032	Blower Relay					X			X		Ш
4	8407-034	Transformer	X	Х				Х	Х		x	X
4	8407-035	Transformer	- 1		Х	(X	ĺ		[[!		ĺĺ
4	8407-042	Transformer				Ļ	X	L		Х		
5	8401-002	Compressor Contactor	X	Х		Х	X		Х	Х	x	x
5	8401-016	Compressor Contactor			Х			X		<u> </u>		
6	8552-005	Outdoor Motor Capacitor	X	Х		Х		1	X		X	x
6	8552-026	Outdoor Motor Capacitor	[ĺ	X		ĺ	Х		1 1
6	8552-058	Compressor Capacitor						Х				
6	8552-059	Compressor Capacitor			_X							
7	135-130	Wire Shield	X	Х	_X_	X	Х	X	X	Х	<u>_x</u>	х
8	8611-006	Ground Terminal	X	Х	Х	X	Х	X	Х	Х	Х	X
9	3000-978	6 Pin Connector	X	X	Х	X	X	<u> x</u>	X	X	X	X
10	8201-034	Lockout Relay	X	Х		İ		Х	X	Х	x	x
10	8201-062	Control Relay #2			_X	Х	Х	ļ				
11	8201-065	Low Pressure Bypass (TDR) (Optional)	X	X	!			X	Х	Х	X	X
11	8201-071	Control Relay #1			_X	X	X				 	X
12	8201-050	Compressor TDR	Φ	Ф	Х	Х	X	O	Ф	0	[O	0
12	8201-067	Compressor TDR Adj (Optional)	X	Х		ļ	<u> </u>	<u> </u>	X	X	_X_	Х
13	8201-062	Alarm Relay (Optional)	x_	_ X				X	Х	Х	X	X
15	8201-032	Outdoor Fan Relay (Optional)					<u> </u>	ļ		Х	lacksquare	Ш
16	117X139	Low Voltage Box	X	X	X	Х	X	X	X	Х	X	X
17	117X143	Control Panel	X	Х	<u> </u>	×	X	<u> </u>	X	X	X	X
18	8607-017	Terminal Block (Optional)	x	Х			<u> </u>	X	Х		Х	Х
NS	4095-112	Wiring Diagram						X			├ —	
NS	4095-121	Wiring Diagram	Щ		_X		<u> </u>	<u> </u>		L	ļ	igspace
NS	4095-212	Wiring Diagram					ļ		X	<u> </u>	<u> </u>	\sqcup
NS	_4095-213	Wiring Diagram	X				Ĺ	<u> </u>			X	Ш
NS	4095-220	Wiring Diagram				X	Ļ				 	
NS	_4095-313	Wiring Diagram					<u> </u>	 	Ļ	X	 	
NS	4095-316	Wiring Diagram	_			ļ	X	 	<u> </u>		<u> </u>	
NS	4095-611	Wiring Diagram		X	<u> </u>		<u> </u>	ļ	ļ	ļ	<u> </u>	X
NS	8201-034	Lockout Relay			<u> X</u>	X	X	Ĺ		Í	<u> </u>	لــــا

① Optional on these models.

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Page: 8 Manual: 2110-413

NS Not shown



SEXP-178

Drawing			9. %	900-18	900-18	<u>8</u>	
No.	Part No.	Description	6	- 6 		006	
1	5152-011	10 Inch Wheel (CW)			х	х	
1	5152-057	9 Inch Wheel (CW)	X	Х			
2	5152-012	10 Inch Wheel (CCW)		T	X	X	
2	5152-058	9 Inch Wheel (CCW)	Х	Х	.		}
3	8106-030	Blower Motor (230/208)	Х		X		
3	8106-025	Blower Motor (460)		X		X	
4	8552-005	Capacitor	X	X	X	X.	
5	8200-040	Motor Mount	X	X	X	X	
6	5451-011	Grommets	6	6	6	6	Ľ
7	105-880	Back Brace	X	X	X	Х	
8	105-881	Side Angle	4	4	4	4	
9	103-389	Front Brace	X	Х	X	X	
10	151-101	Housing	2	2	2	2	
11	144-166	Diffuser	2	2	2	2	

Page: 9 Manual: 2110-413