

MONTAG METER HYDRAULIC REFERENCE GUIDE

FAN MOTORS & SEALS	MACHINE TRACKER (FAN MOTORS & SEALS)							FAN MOTORS & SEALS																			
	GEN 2 SERIES			GEN 1 SERIES				FAN MOTOR PARTS										FAN ASSEMBLY PARTS			BEARING ASSEMBLY						
	2108	2208	2112	2212 E1	2212 E2	2218*	2224	8-12 ROW	16-18 ROW	24 ROW	1124	MOTOR	TYPE	SEAL KIT	SHAFT SEAL	BRAND	DISPL.	FLANGE	SHAFT KEY	KEY SIZE (END SHAPE)	SHAFT Ø	BUSHING	FAN WHEEL	FAN TYPE	BEARING	SHAFT KEY	
					2022(B)+	ALL		2023+	2023+			P003675	Bent Axis Piston	K002965	-	Hydro-Leduc	1.1 Culn	2 Bolt SAE B	P004286	.250 X .250 X 1.25 (RD)	1"	P002844	P002082	8" Crary	-	-	
										2022+		P003259	Bent Axis Piston	K002966	-	Hydro-Leduc	2.0 Culn	4 Bolt SAE C	P004287	.313 X .313 X 1.50 (RD)	1.25"	P003258	P003253	10" Crary	-	-	
												P000354	Piston	-	P000543	Eaton	1.24 Culn	2 Bolt SAE A	P000784	.250 X .250 X 1.00 (RD)	.875"	P000364	P000147	1808 NYB	-	-	
												P000354	Piston	-	P000543	Eaton	1.24 Culn	2 Bolt SAE A	P000784	.250 X .250 X 1.00 (RD)	.875"	P000364	P000148	2210 NYB	-	-	
												P000306AA	Gear	P000316	P000315	Parker	.85 Culn	2 Bolt SAE A	P004288	.250 X .250 X 1.00 (RD)	.625"	P000162	P000147	1808 NYB	P000163	P000784	
												P000307AA	Gear	P000316	P000315	Parker	1.16 Culn	2 Bolt SAE A	P004288	.156 X .156 X 1.50 (SQ)	.625"	P000162	P000148	2210 NYB	P000163	P000784	
												P000354	Piston	-	P000543	Eaton	1.24 Culn	2 Bolt SAE A	P000784	.250 X .250 X 1.00 (RD)	.875"	P000833	P002082	8" Crary	-	-	
	ALL	ALL	ALL									P000306AA	Gear	P000316	P000315	Parker	.85 Culn	2 Bolt SAE A	P004288	.156 X .156 X 1.50 (SQ)	.625"	P002909	P002834	6" Crary	-	-	
												P000354	Piston	-	P000543	Eaton	1.24 Culn	2 Bolt SAE A	P000784	.250 X .250 X 1.00 (RD)	.875"	P000833	P002834	6" Crary	-	-	
												P002755	Bent Axis Piston	K002965	-	Hydro-Leduc	.73 Culn	2 Bolt SAE B	P004286	.250 X .250 X 1.25 (RD)	1"	P002844	P002834	6" Crary	-	-	
												P004660	Bent Axis Piston	K002965	-	Hydro-Leduc	.73 Culn	2 Bolt SAE B	P004286	.250 X .250 X 1.25 (RD)	1"	P004658	P004659	Crory BC18	-	-	
												P003243	Piston	-	P000543	Eaton	.75 Culn	2 Bolt SAE A	P000784	.250 X .250 X 1.00 (RD)	.875"	P000833	P002834	6" Crary	-	-	
												SEE NOTE*	Sauer (Seal Only)	P000174	P000175	Sauer	-	-	-	-	-	-	-	-	-	-	-

*Includes GEN II-C, GEN II-D, & GEN II-MINI
 *Dual Fan
 Legacy - Superseded by P000306AA/P000307AA
 *If replacing a Sauer (aluminum) motor, use a Parker P000306AA /P000307AA depending on the size. When replacing a Sauer motor with a Parker, hydraulic fittings going to the motor will also need updated for 8-12 row meters.

AUGER MOTORS & SEALS	MACHINE TRACKER (AUGER MOTORS & SEALS)							AUGER MOTORS & SEALS																		
	GEN 2 SERIES			GEN 1 SERIES				AUGER MOTORS & SEALS																		
	2108	2208	2112	2212 E1	2212 E2	2218*	2224	8-12 ROW	16-18 ROW	24 ROW	1124	MOTOR	TYPE	SEAL KIT	SHAFT SEAL	BRAND	DISPL.	FLANGE	SHAFT KEY	KEY SIZE (END SHAPE)	SHAFT Ø	SENSOR/ ENCODER	COUPLER/ SPROCKET			
								2021+	2021+	2021+		P003128	Sensored	P004289	P004290	Parker	11.9 Culn	4 Bolt SAE A	P002694	Woodruff #15	1"	P003165 (30P)	P000220			
								2016B-2020	2016B-2020	2016B-2020	ALL	P000806	Sensored	P002207	P002206	Eaton	11.3 Culn	4 Bolt SAE A	P002694	Woodruff #15	1"	P000926 (60P)	P000220			
											ALL	P003798	Poppet (CCW)	P002207	P002206	Eaton	11.3 Culn	4 Bolt SAE A	P002694	Woodruff #15	1"	-	P000220			
											ALL	P000173	Non-Sensored (External Encoder)	P002207	P002206	Eaton	11.3 Culn	4 Bolt SAE A	P000784	.250 X .250 X 1.00 (RD)	1"	P000160 (36P)	W000076			
	ALL	ALL	ALL	ALL	ALL	ALL	ALL					P000828	Sensored	P002207	P002206	Eaton	4.5 Culn	2 Bolt SAE A	P002694	Woodruff #15	1"	P000926 (60P)	M002152FA			
	ALL	ALL	ALL	ALL	ALL	ALL	ALL					P000881	Poppet (CW)	P002207	P002206	Eaton	4.5 Culn	2 Bolt SAE A	P002694	Woodruff #15	1"	-	M002152FA			
	ALL	ALL	ALL	ALL	ALL	ALL	ALL					P000882	Poppet (CCW)	P002207	P002206	Eaton	4.5 Culn	2 Bolt SAE A	P002694	Woodruff #15	1"	-	M002152FA			
												P003690	Non-Sensored	P002207	P002206	Eaton	4.5 Culn	2 Bolt SAE A	P002694	Woodruff #15	1"	-	M002152FA			
												P002734	Motor w/o Poppet (Motor Only)	P002207	P002206	Eaton	4.5 Culn	2 Bolt SAE A	P002694	Woodruff #15	1"	-	M002152FA			
												-	Force America (Seal Only)	-	P000910	-	-	-	-	-	-	-	-	-	-	-

*Includes GEN II-C, GEN II-D, & GEN II-MINI
 Legacy - Superseded by P000173
 Gen 2 machines ship with a combination of drive motors based on total toolbar sections.

HYD. MANIFOLD	MACHINE TRACKER (HYDRAULIC MANIFOLD)							HYDRAULIC MANIFOLD														
	GEN 2 SERIES			GEN 1 SERIES				HYDRAULIC MANIFOLD														
	2108	2208	2112	2212 E1	2212 E2	2218*	2224	8-12 ROW	16-18 ROW	24 ROW	1124	PART #	DESCRIPTION	METER STYLE	PRODUCTS	SECTION	NOTES					
								-S12177	-S12177	-S12177		K003189	Kit - Brand Valve Replacement*	Gen 1	1	1	Simple Manifold Replacement for Brand Valve PEFC12-15-12R22					
								-S12177	-S12177	-S12177		K000040	Kit - Manifold Upgrade for Brand Valve*	Gen 1	1	1	Advanced Manifold Upgrade for Brand Valve PEFC12-15-12R22					
								S12177+	S12177+	S12177+		K000039	Kit - Hydraulic Replacement (1st Section)	Gen 1	1	1	Rebuilds/Replaces Hydraulics Including Manifold for 1st Section					
								S12177+	S12177+	S12177+		K003188	Kit - Hydraulic Replacement (2nd Section)	Gen 1	1	2 (Only)	Replaces Hydraulics Including Manifold (for 2nd Section Only)					
	ALL	1P,M-SG						ALL	ALL	ALL	ALL	P000352	Manifold - Hydraulic 1 Product Control	Gen 1; Gen 2	1	1	Complete Hydraulic Manifold					
								S12177+	S12177+	S12177+		P000718	Manifold - Hydraulic 2nd Section	Gen 1	1	2 (Only)	Complete Hydraulic Manifold					
												P003130	Manifold - Hydraulic 2 Product Control	Gen 2	2	Any	Complete Hydraulic Manifold (Slidegate Functionality)					
		2P,H-SG	ALL	ALL	ALL	ALL	ALL					P003131	Manifold - Hydraulic 2 Product Control	Gen 2	2	Any	Complete Hydraulic Manifold (No Slidegate)					

*Includes GEN II-C, GEN II-D, & GEN II-MINI
 *The manifold upgrade for the Brand valve provides additional reliability and safety features over the basic manifold replacement. This includes a case drain protection for the fan motor with a buzzer alert to prevent damage to the motor from case drain over pressurization.

HYD. MANIFOLD PARTS	HYDRAULIC MANIFOLD PARTS														
	PART #	DESCRIPTION	PART USED IN HYDRAULIC MANIFOLD				SEAL KIT	TORQUE							
			P000352	P003130	P003131	P000718									
P000358	Valve - Case Drain Check (25 PSI, 8 GPM)	For Eaton piston fan motors. Also can be used for other fan motors.				-	40 Ft-Lbs (54.2 Nm)								
P004164	Valve - Case Drain Check (40 PSI, 8 GPM)	For Hydro-Leduc and Parker fan motors.				P002573	40 Ft-Lbs (54.2 Nm)								
P000360	Valve - Section Poppet	X			X	P002571	36.6 Ft-Lbs (49.6 Nm)								
P000947	Valve - Auger High-Pressure Relief (750 PSI)	X			X	P002568	36.6 Ft-Lbs (49.6 Nm)								
P002510	Valve - PWM w/ Manual Override		X		X	P002577	95 Ft-Lbs (128.8 Nm)								
P002511	Valve - Slidegate Control		X		X	P002578	25 Ft-Lbs (33.9 Nm)								
P000361	E-Coil - PWM/ Slidegate (12V, #10)	X	X		X	-	5 Ft-Lbs (6.8 Nm)								
P002523	E-Coil - Section Poppet (12V, #8)	For use with auger motor section poppet hydraulic blocks (Gen 2, etc).				-	5 Ft-Lbs (6.8 Nm)								
P002517	Nut - E-Coil	X	X		X	-	5 Ft-Lbs (6.8 Nm)								
P000362	Gauge - 3000 PSI (Stem Mount)	X	X		X	-	8 Ft-Lbs (10.8 Nm)								
P002411	Gauge - 1500 PSI (Stem Mount)	X				-	8 Ft-Lbs (10.8 Nm)								

SENSORS	SENSORS & ENCODERS							
	PART #	DESCRIPTION	TYPE	WHERE	APPLICATION	PRESSURE	VOLTAGE	OUTPUT
	P002528	Sensor - Fan Speed	PROXIMITY	FAN	2212	-	12 VOLTS	-
P002731	Sensor - Fan Air Pressure	PRESSURE	FAN	MDRC	0-3.6 PSI	12 VOLTS	4-20 mA	
P002978	Sensor - Fan Air Pressure	PRESSURE	FAN	47 PIN	0-5 PSI	12 VOLTS	.5-4.5 V DC	
P000160	Encoder - Auger Motor (Raven Encoder)	PROXIMITY	AUGER	P000173	-	5 VOLTS	36 PULSE	
P000926	Sensor - Auger Motor (Eaton Motor)	PROXIMITY	AUGER	EATON*	-	12 VOLTS	60 PULSE	
P003165	Sensor - Auger Motor (Parker Motor)	PROXIMITY	AUGER	PARKER	-	12 VOLTS	30 PULSE	
P002429	Switch - Case Drain Pressure	PRESSURE	MANIFOLD	S12177+	25 PSI	12 VOLTS	-	
P000154	Gauge - Dwyer Air	PRESSURE	FAN	Gen 1	0-30" H2O	N/A	N/A	
P000812	Gauge - Dwyer Air	PRESSURE	FAN	Gen 2	0-30" H2O	N/A	N/A	
P002992	Sensor - Bin Level	LEVEL (N/O)	BIN	2212	-	-	-	

*Except P000173