



# MONTAG 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	GENII-MINI	2208	2212 E1	2212 E2	GEN II-C	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)+	2022+	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" Cray	-	-		
								2012(B)-2022		2022+	2024+	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" Cray	-	-		
								-2005-2012(A)				P000354	Piston	-	P000543	Eaton	1.24 Culn	2 Bolt SAE A	P000784	.250 X .250 X 1.00 (RD)	.875"	P000364	P000147	1808 NYB	-	-		
								2005-2012(A)	2012(B)-2022	2012(B)-2021		P000354	Piston	-	P000543	Eaton	1.24 Culn	2 Bolt SAE A	P000784	.250 X .250 X 1.00 (RD)	.875"	P000364	P000148	2210 NYB	-	-		
								2005-2012(A)	2005-2012(A)			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		
												P000354	Piston	-	P000543	Eaton	1.24 Culn	2 Bolt SAE A	P000784	.250 X .250 X 1.00 (RD)	.875"	P000833	P002082	8" Cray	-	-		
												P000826	Piston	-	P000543	Eaton	1.24 Culn	2 Bolt SAE A	P000784	.250 X .250 X 1.00 (RD)	.875"	P000833	P002082	8" Cray	-	-		
												P000306AA	Gear	P000316	P000315	Parker	.85 Culn	2 Bolt SAE A	P004288	.156 X .156 X 1.50 (SQ)	.625"	P002909	P002834	6" Cray	-	-		
												P000354	Piston	-	P000543	Eaton	1.24 Culn	2 Bolt SAE A	P000784	.250 X .250 X 1.00 (RD)	.875"	P000833	P002834	6" Cray	-	-		
												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" Cray	-	-		
												P003243	Piston	-	P000543	Eaton	.75 Culn	2 Bolt SAE A	P000784	.250 X .250 X 1.00 (RD)	.875"	P000833	P002834	6" Cray	-	-		
												-	Sauer (Seal Only)	P000174	P000175	-	-	-	-	-	-	-	-	-	-	-	-	

AUGER MOTORS & SEALS

MACHINE TRACKER (AUGER MOTORS & SEALS)								AUGER MOTORS & SEALS																								
GEN 2 SERIES								GEN 1 SERIES				MOTOR										SENSOR/ ENCODER							COUPLER/ SPROCKET			
2108	GENII-MINI	2208	2212 E1	2212 E2	GEN II-C	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									
								2005-2016A	2005-2016A	2005-2016A	ALL	P003798	Poppet (CCW)	P002207	P002206	Eaton	11.3 Culn	4 Bolt SAE A	P002694	Woodruff #15	1"	-	P000220									
												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									
												P000828	Sensored	P002207	P002206	Eaton	4.5 Culn	2 Bolt SAE A	P002694	Woodruff #15	1"	P000926 (60P)	M002152FA									
												P000881	Poppet (CW)	P002207	P002206	Eaton	4.5 Culn	2 Bolt SAE A	P002694	Woodruff #15	1"	-	M002152FA									
												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	Poppet w/o Poppet (Motor Only)	P002207	P002206	Eaton	4.5 Culn	2 Bolt SAE A	P002694	Woodruff #15	1"	-	M002152FA									
												-	Force America (Seal Only)	-	-	-	-	-	-	-	-	-	-	-	-	-						

HYD. MANIFOLD

MACHINE TRACKER (HYDRAULIC MANIFOLD)								HYDRAULIC MANIFOLD																																				
GEN 2 SERIES								GEN 1 SERIES				PART #										DESCRIPTION							METER STYLE				PRODUCTS				SECTION				NOTES			
2108	GENII-MINI	2208	2212 E1	2212 E2	GEN II-C	2218*	2224	8-12 ROW	16-18 ROW	24 ROW	1124	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	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)																											
												P003131	Manifold - Hydraulic 2 Product Control	Gen 2	2	Any	Complete Hydraulic Manifold (No Slidegate)																											

\*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 USED IN HYDRAULIC MANIFOLD										
PART #	DESCRIPTION	P000352	P003130	P003131	P000718	SEAL KIT	TORQUE					
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	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	X	-	5 Ft-Lbs (6.8 Nm)					
P000362	Gauge - 3000 PSI (Stem Mount)	X	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		

\*Except P000173



MONTAG GEN 1 (16 ROW SHOWN)



MONTAG GEN 2 2218



MONTAG GEN 2 2208