

SEM 919&922 Repair Options







Repair Options is the aftermarket solution for customers, which is offered by SEM dealers.

Brand new parts, component exchange, overhaul and different repair levels, these are regarded as Repair Options.

Offer broad range of parts and Repair Options to customers. Those are easy to order with a wide coverage, which could help customers maximize the machine value.

BROAD RANGE OF REPAIR OPTIONS

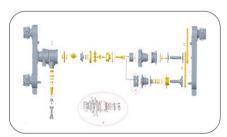
"I want more than just new and like-new options. I want solutions that match my machine life and price point requirement"



SEM SELECT Parts

EXPERT ADVICE & REPAIR

"I want someone to work with me to identify my specific repair needs, then help me understand what options are available to meet them"



Repair Options Kits



Dealer Rebuild

TIMELY QUOTE & REPAIR

"I want to immediately be advised of price, availability of any alternate parts"



Dealer Components Exchange



New Components

Repair Option Framework

Primary Purchase Driver (s)	Uncertain ← Lower ← Sensitive ← Flexible ←	UTILI:	ERSHIP ZATION RICE AROUND	Longer Higher Prefers Guaranteed Fast	
Attributes	Extends lifeBefore Failure100% New Parts ReplacementLower Cost	Extends life Before Failure Lower Cost	Before or After Failure Immediate availability for exchange	After Failure Immediate availability	
Target Price Point Relative to Factory New	< 30%	20 – 50% Enhanced reuse & salvage r	100%		
Possible Repair Options offer	Level 1 Reseal & Rebearing	Level 2 Reseal & Rebearing Plus	Level 3 Overhaul/Exchange	Level 4 New	
Product	 Includes bearings, seals, gaskets and normal one-life "wear" parts. Paper or Stock Kits Offering 	 Includes all Level 1 parts Replaces or Reconditions other critical parts Customer can specify additional parts 	 Dealer Rebuild, Dealer floating components Including All Level 1 parts. All parts are inspected 	New components Replacement Reset Component Hours to Zero	

Extend Component Hours

Reset Component Hours to Zer



Advantages For Customers

- Improved speed and convenience by being able to order and receive all at once the most common wear items needed to complete the repair job.
- Protects and extends the life of major components by replacing inexpensive wear parts.
- Allows you to schedule downtime, and plan for maintenance and repair costs.

Repair Option Classification

Real Kit



It is an orderable and serviceable part number with a HTS code, all China and International customers can place order in DCP or Antares, this kit is much easier to own for customers, such as Seal kit

Paper Kit



Paper kit is not serviceable, but it is consisting of several individual service parts for repair/service. Dealer should order the sub-level service parts. Detailed sub-level service parts list can be viewed in DCP, such as Repair kit, PM kit, Mid-life repair kit, Overhaul repair kit.



More Repair Options are under development, if you have further questions, please contact your regional Aftermarket Service Representatives.



ENGINE ESTIMATED OVERHAUL TIMING GUIDANCE



HOURSEngine Target remove & install

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HOURS

Engine Target overhaul time



HOURS

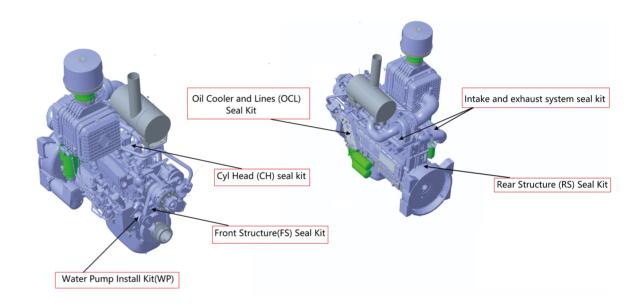
Engine Target overhaul SMU*

CONFIGURE YOUR REBUILD & CHECK PRICING

- 1 Consult with your local dealer to choose the most suitable repair option.
- 2 Select from the recommended parts lists or kits on the following pages
- **3** Check pricing and availability with your local dealer



Sales Model	Engine KITS										
	Engine arrangement			Paper kit							
		Intake and exhaust system seal kit	Crankshaft seal kit	Cylinder block seal kit	Piston & Liner Reapir Kit	Mid-life repair kits	Overhaul repair kits				
SEM919	5534491	6394096	6394096 6394093		6397301	SE_PE5534491KIT01	SE_PE5534491KIT02				
SEM919	5534559	6394097	6394093	6394094	6397302	SE_PE5534559KIT01	SE_PE5534559KIT02				
SEM922	5534511	6394096	6394093	6394094	6397301	SE_PE5534511KIT01	SE_PE5534511KIT02				



Mid-life Repair Kits Consist

- LINER
- PISTON
- PIN-PISTON
- RTNR-PIN
- RING-PISTON
- SEAT
- VALVE
- BRDG-VALVE
- RETAINER
- SPRING
- GUIDE
- INJECTOR GP
- GASKET/ SEAL
- HOSE



Overhaul Repair Kits Consist

- LINER
- PISTON
- PIN-PISTON
- RTNR-PIN
- RING-PISTON
- SEAT
- VALVE
- BRDG-VALVE
- RETAINER
- SPRING
- OI IIII VO
- GUIDE
- INJECTOR GP
- GASKET
- SEAL
- HOSE

- PUSHROD AS
- TAPPET
- ROD GP
- BEARING
- RGLTR AS
- OIL PUMP GP
- SENSOR AS
- TURBOCHARGER
- WATER PUMP GP
- THERMOSTAT
- CORE-OIL COOLER
- TURBOCHARGER BOLT
- STUD
- CYLINDER HEAD BOLT

^{*}Actual optimum hours may be approximately 2,000 higher/lower depending on maintenance practices and application.

XSMN ESTIMATED OVERHAUL TIMING GUIDANCE



HOURS

XSMN Target remove & install

.



HOURS

XSMN Target overhaul time



HOURS

XSMN Target overhaul SMU*

CONFIGURE YOUR REBUILD & CHECK PRICING

- 1 Consult with your local dealer to choose the most suitable repair option.
- 2 Select from the recommended parts lists or kits on the following pages
- (3) Check pricing and availability with your local dealer



Sales Model	TRANSMISSION KITS								
	Transmisson	Real kits	Paper kit						
	arrangement	Retainer kits	Mid-life repair kits	Overhaul repair kits					
SEM919	5651809	6394080	SE_PW000001	SE_PW000002					
SEM919	5386767	6394080	SE_PW000001	SE_PW000002					
SEM922	5386768	6394080	SE_PW000001	SE_PW000002					

XMSN Mid-life Repair Kits Consist

Seals

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- Retainers
- Bearings
- Pistons/piston rings
- Sleeves
- Friction Discs
- Springs
- Gears
- Filters/Strainer
- Washers/Gaskets

XMSN Overhaul Repair Kits Consist

- Seals
- Retainers
- Bearings
- Pistons/piston rings
- Sleeves
- Friction Discs
- Springs

Gears

- Filters/Strainer
- Washers/Gaskets
- Hoses
- Valves
- Brake

^{*}Actual optimum hours may be approximately 2,000 higher/lower depending on maintenance practices and application.

AXLE ESTIMATED OVERHAUL TIMING GUIDANCE



HOURS

Axle Target remove & install



HOURS

Axle Target overhaul time



HOURS

Axle Target overhaul SMU*

CONFIGURE YOUR REBUILD & CHECK PRICING

maintenance practices and application.

- 1 Consult with your local dealer to choose the most suitable repair option.
- 2 Select from the recommended parts lists or kits on the following pages
- **3** Check pricing and availability with your local dealer



Sales	AXLE KITS													
	Model	Axle arrangement	Axle seal kits	Reducer seal kit	Reducer bearing kit	Wheel end seal kit	Wheel end bearing kit	Brake seal kits	Brake caliper repair kits	Final drive seal kit	Final drive bearing kit	Chain Repair Kit	Mid-life repair kits	Overhaul repair kits
	919	5764006	6395278	6057886	SE_PA0000024	6395277	SE_PA0000025	6022109	SE_PA0000014	6395275	SE_PA0000026	SE_PA0000027	SE_PA0000023	SE_PA0000028
	919BRZ	5764006	6395278	6057886	SE_PA0000024	6395277	SE_PA0000025	6022109	SE_PA0000014	6395275	SE_PA0000026	SE_PA0000027	SE_PA0000023	SE_PA0000028
	922	5764006	6395278	6057886	SE_PA0000024	6395277	SE_PA0000025	6022109	SE_PA0000014	6395275	SE_PA0000026	SE_PA0000027	SE_PA0000023	SE_PA0000028

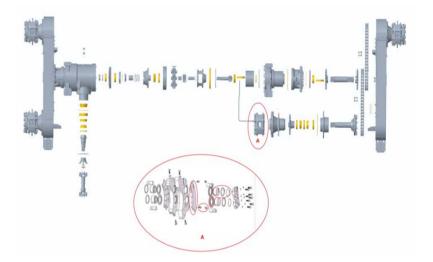
Arrangement/Group parts

Real Kit

Paper Kit

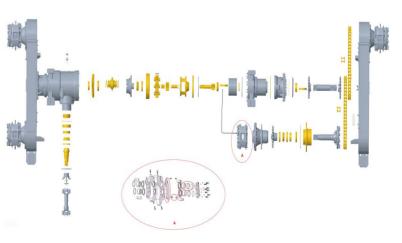
MG Axle Mid-life

- Bearings/ Bearing Rings
- Seals
- Spacers
- Retainers
- Nozzle/Nozzle Seat/Nozzle cover
- Piston
- Brake discs



MG Axle Mid-life

- Bearings/ Bearing Rings
- Seals
- Spacers
- RetainersWashers/Shims
- Planetary carrier
- Planetary gear shaft
- Gears
- Nozzle/Nozzle Seat/Nozzle cover
- Piston
- Brake discs
- Chain GP
- Differential GP
- Pins



^{*}Actual optimum hours may be approximately 2,000 higher/lower depending on





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Materials and specifications are subject to change without notice. Featured machines in photos may include optional equipment. Contact your SEM dealer for available options.