Joint 1		QTY.	Part Description	DataSheet	
2 Limit Switch http://www.mouser.com/catalog/specsheets/E5_1_Series.pdf http://www.fis.si/docs.google.com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splaceTix/splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splaceTix/splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splaceTix/splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089oa10N-splace_com/ewer?a=x8pid=explorer&chrome=true&srcid=089o	Joint 1		'		
Cear motor Magnetic Encoder (RMB30SI)		2	Limit Switch	http://www.mouser.com/catalog/specsheets/E51 Series.pdf	
Magnetic Encoder 1 (RMB300SI)				https://docs.google.com/viewer?a=v&pid=explorer&chrome=true&srcid=0B9oa10N-	
Joint 2 2 Limit Switch 1 Gear motor Magnetic Encoder (RMB30SI) Joint 3 300 deg Potentiometer 1 (P232) 1 AX-12 Voltage Reading Plates 1 (P232) 1 AX-12 Voltage Reading Plates 1 (P232) 1 AX-12 Voltage Reading Plates 1 (Vibration Motor 3 Pin Hole Camera 1 (Vibration Motor 3 Pin Hole Camera 1 (Vibration Motor 3 Pin Hole Camera 1 (PX) Text AX-12 AX-12 AX-12 AX-12 AX-12 AX-12 AX-13 AX-14 AX-15 AX-15 AX-15 AX-16 AX-17 AX-18 AX-18 AX-19 AX-19 AX-19 AX-10 A		1		5aDaOTJkYzNjNDgtMDUzMS00YmRhLWE1MzMtNjQ2N2I4NDM5MjE3&hl=en_US	
Joint 2					
2 Limit Switch		1	(RMB300SI)	http://www.rls.si/document/RMB30D01.pdf	
2 Limit Switch	1 : 4 0				
titps://docs.google.com/viewer/?a=v&pid=explorer&chrome=true&srcid=0B9oa10N-5aDaOTJkYzNjNDgtMDUzMS00YmRhLWE1MzMtNjQ2N2I4NDM5MjE3&hl=en_US http://www.rls.si/document/RMB30D01.pdf Joint 3 300 deg	Joint 2			111 11	
1 Gear motor Magnetic Encoder (RMB30SI)		2	2 Limit Switch		
Joint 3 Joint 4 Joint 6 Joint 7 Joi		1		https://docs.google.com/viewer?a=v&pid=explorer&chrome=true&srcid=0B9oa10N-5aDaOTJkYzNjNDgtMDUzMS00YmRhLWE1MzMtNjQ2N2I4NDM5MjE3&hl=en_US	
Joint 3 300 deg Potentiometer 1 (P232) http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf Interchangable Joints Configuration 1 (Equipment Servicing) 300 deg Potentiometer 1 (P232) http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf 1 Vibration Motor qs=sGAEpiMZZMvuFyKEiodORsPMp4lpwWQM9fx3Xx3cERs%3d on the 9.5 Rail voltage for the AX-12s Configuration 2 (Soil Sample) 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf					
300 deg Potentiometer 1 (P232) http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf Interchangable Joints Configuration 1 (Equipment Servicing) 300 deg Potentiometer 1 (P232) http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf 1 Vibration Motor 2 Plates 3 Pin Hole Camera TBD Configuration 2 (Soil Sample) 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf		1	(RMB30SI)	http://www.rls.si/document/RMB30D01.pdf	
300 deg Potentiometer 1 (P232) http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf Interchangable Joints Configuration 1 (Equipment Servicing) 300 deg Potentiometer 1 (P232) http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf 1 Vibration Motor qs=sGAEpiMZZMvuFyKEiodORsPMp4IpwWQM9fx3Xx3cERs%3d on the 9.5 Rail voltage for the AX-12s Configuration 2 (Soil Sample) 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf					
Potentiometer 1 (P232) http://www.bitechnologies.com/pdfs/p232.pdf Interchangable Joints Configuration 1 (Equipment Servicing) 300 deg Potentiometer 1 (P232) http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf Voltage Reading 2 Plates 1 Vibration Motor qs=sGAEpiMZZMvuFyKEiodORsPMp4IpwWQM9fx3Xx3cERs%3d on the 9.5 Rail voltage for the AX-12s Configuration 2 (Soil Sample) 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf	Joint 3		222 1		
1 (P232) http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf Interchangable Joints Configuration 1 (Equipment Servicing) 300 deg Potentiometer 1 (P232) http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.bitechnologies.com/pdfs/p232.pdf http://www.bitechnologies.com/pdfs/p232.pdf http://www.bitechnologies.com/pdfs/p232.pdf http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf Voltage Reading 2 Plates 1 Vibration Motor qs=sGAEpiMZZMvuFyKEiodORsPMp4IpwWQM9fx3Xx3cERs%3d on the 9.5 Rail voltage for the AX-12s TBD Configuration 2 (Soil Sample) 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf					
Interchangable Joints Configuration 1 (Equipment Servicing) 300 deg Potentiometer 1 (P232) http://www.bitechnologies.com/pdfs/p232.pdf http://www.bitechnologies.com/pdfs/p232.pdf http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf voltage Reading 2 Plates 1 Vibration Motor qs=sGAEpiMZZMvuFyKEiodORsPMp4IpwWQM9fx3Xx3cERs%3d on the 9.5 Rail voltage for the AX-12s Configuration 2 (Soil Sample) 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf				http://www.hitochpologica.com/pdfa/p322.pdf	
Interchangable Joints Configuration 1 (Equipment Servicing) 300 deg Potentiometer 1 (Pe32) 1 AX-12 http://www.bitechnologies.com/pdfs/p232.pdf http://www.bitechnologies.com/pdfs/p232.pdf http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf Voltage Reading Plates 1 Vibration Motor 2 3 Pin Hole Camera AX-12 http://www.mouser.com/ProductDetail/Autotrol/052-0010AD/? *This is a 12VDC motor, but we can run it on the 9.5 Rail voltage for the AX-12s TBD Configuration 2 (Soil Sample) 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf					
Configuration 1 (Equipment Servicing) 300 deg Potentiometer 1 (P232) 1 AX-12 Voltage Reading Plates 1 Vibration Motor 3 Pin Hole Camera 1 Vibration 2 (Soil Sample) 1 AX-12 AX-1			1 AX-12	nttp://www.crustcrawier.com/products/bioloid/docs/AX-12.pdf	
Configuration 1 (Equipment Servicing) 300 deg Potentiometer 1 (P232) 1 AX-12 Voltage Reading Plates 1 Vibration Motor 3 Pin Hole Camera 1 Vibration 2 (Soil Sample) 1 AX-12 AX-1	Interchangable loints				
(Equipment Servicing) 300 deg Potentiometer (P232) http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf Voltage Reading Plates 1 Vibration Motor qs=sGAEpiMZZMvuFyKEiodORsPMp4IpwWQM9fx3Xx3cERs%3d on the 9.5 Rail voltage for the AX-12s TBD Configuration 2 (Soil Sample) 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf	interchangable doints				
(Equipment Servicing) 300 deg Potentiometer (P232) http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf Voltage Reading 2 Plates 1 Vibration Motor qs=sGAEpiMZZMvuFyKEiodORsPMp4IpwWQM9fx3Xx3cERs%3d on the 9.5 Rail voltage for the AX-12s TBD Configuration 2 (Soil Sample) 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf	Configuration 1				
Servicing) 300 deg Potentiometer 1 (P232) http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 Voltage Reading Plates http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf Vibration Motor qs=sGAEpiMZZMvuFyKEiodORsPMp4IpwWQM9fx3Xx3cERs%3d on the 9.5 Rail voltage for the AX-12s Configuration 2 (Soil Sample) 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf					
300 deg Potentiometer 1 (P232) http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf Voltage Reading Plates 1 Vibration Motor 4 voltage Reading Plates 2 Plates 3 Pin Hole Camera 4 Voltage Reading Plates 5 TBD Configuration 2 (Soil Sample) 4 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf					
1 (P232) http://www.bitechnologies.com/pdfs/p232.pdf 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf Voltage Reading 2 Plates http://www.mouser.com/ProductDetail/Autotrol/052-0010AD/? *This is a 12VDC motor, but we can run it qs=sGAEpiMZZMvuFyKEiodORsPMp4IpwWQM9fx3Xx3cERs%3d on the 9.5 Rail voltage for the AX-12s TBD Configuration 2 (Soil Sample) 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf	<u> </u>		300 deg		
http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf Voltage Reading Plates http://www.mouser.com/ProductDetail/Autotrol/052-0010AD/? *This is a 12VDC motor, but we can run it qs=sGAEpiMZZMvuFyKEiodORsPMp4IpwWQM9fx3Xx3cERs%3d on the 9.5 Rail voltage for the AX-12s TBD Configuration 2 (Soil Sample) AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf					
Voltage Reading Plates http://www.mouser.com/ProductDetail/Autotrol/052-0010AD/? vibration Motor qs=sGAEpiMZZMvuFyKEiodORsPMp4IpwWQM9fx3Xx3cERs%3d on the 9.5 Rail voltage for the AX-12s TBD Configuration 2 (Soil Sample) AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf					
Plates http://www.mouser.com/ProductDetail/Autotrol/052-0010AD/? *This is a 12VDC motor, but we can run it on the 9.5 Rail voltage for the AX-12s Pin Hole Camera TBD Configuration 2 (Soil Sample) 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf		1		http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf	
http://www.mouser.com/ProductDetail/Autotrol/052-0010AD/? *This is a 12VDC motor, but we can run it on the 9.5 Rail voltage for the AX-12s TBD Configuration 2 (Soil Sample) AX-12 http://www.mouser.com/ProductDetail/Autotrol/052-0010AD/? *This is a 12VDC motor, but we can run it on the 9.5 Rail voltage for the AX-12s TBD *This is a 12VDC motor, but we can run it on the 9.5 Rail voltage for the AX-12s TBD AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf					
1 Vibration Motor qs=sGAEpiMZZMvuFyKEiodORsPMp4IpwWQM9fx3Xx3cERs%3d on the 9.5 Rail voltage for the AX-12s TBD Configuration 2 (Soil Sample) AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf		2	Plates	http://www.mousor.com/ProductDotail/Autotrol/052.0040AD/2	*This is a 12\/DC motor, but we can sup it
Configuration 2 (Soil Sample) AX-12 TBD TBD TBD		1	Vibration Motor		
Configuration 2 (Soil Sample) AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf				· · · · · · · · · · · · · · · · · · ·	on the 5.5 Itali voltage for the AA-125
Sample) 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf			I III I IOIE Callield	TUU	
Sample) 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf					
Sample) 1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf	Configuration 2 (Soil				
1 AX-12 http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf					
	F - /	1	AX-12	http://www.crustcrawler.com/products/bioloid/docs/AX-12.pdf	
		1	Pin Hole Camera	TBD	