

Suggested Spares Guide L90F-624**Consumables, Approximate 1 Year Supply (calculated at 2000 hours/year)**

Allied P/N	Description	Where Used	On-Hand Quantity (Recommended)	Order Quantity
238206	Hydraulic Oil		550 Gallons	
219374	Grease (chassis)		35 Pounds	
591654	Grease (driveline cross assemblies)		1 Pound	
221340	Anti-Freeze, Premix 50/50		20 Gallons	
235720	Drive Axle Gear Oil		17 Gallons	
236077	Engine Oil		110 Gallons	
238206	Transmission Fluid		20 Gallons	
588191	Service Kit, 100 GPM Hyd Pressure Filter	587385	12	
588192	Service Kit, 40 GPM Hyd Filter	587036	4	
591574	Service Kit, Return Filter	243457	8	
252945	Filter, Coolant, Engine	590600	2	
588563	Filter, Oil, Engine	590600	12	
588564	Filter, Fuel, Engine	590600	12	
589282	Belt, Serpentine, Engine	590600	1	
256249	Belt, Serpentine, Power Unit	590990	1	
247429	Filter Element, Transmission (Dual Spin-On)	595793	10	
258701	Element, Air Cleaner Assembly	258700	2	
258702	Safety Element, Air Cleaner Assembly	258700	2	
258699	Filter Element, Cab Pressurizer	590805	1	
259015	Filter Element, Cab Pressurizer (Hi-Efficiency Option)	590805	1	
581995	Service Kit, Parking Brake	244409	2	
258774	Wiper Blade Assembly	595261	4	

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Section 2 - POWER UNIT

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
2-1	Engine			
246908	Sensor, Temperature, Power Unit	590990	1	
249309	Compressor, Engine, Power Unit	590990	1	
256249	Belt, Serpentine, Power Unit	590990	1	
202889	Switch, Oil Pressure, Power Unit	590990	1	
229301	Relay, Terminal Panel, Power Unit	590990	1	
209846	Hose Kit, Power Unit	590990	1	
237008	Shutoff Valve, Power Unit	590990	2	
590499	Water Pump, Engine	590600	1	
591097	Alternator, Engine	590600	1	
591098	Starter, Engine	590600	1	
252945	Filter, Coolant, Engine	590600	1	
588563	Filter, Oil, Engine	590600	1	
588564	Filter, Fuel, Engine	590600	1	
589282	Belt, Serpentine, Engine	590600	1	
2-4	Fuel			
590458	Hose Kit	589233	1	
227988	Filler/Breather, Fuel Tank	589233	1	
2-5	Air Intake & Exhaust			
218903	Vacuator Valve	258700	2	
258701	Element, Air Cleaner Assembly	258700	2	
258702	Safety Element, Air Cleaner Assembly	258700	2	
208137	Filter, Restriction	590992	1	
215733	Rubber Elbow (90°, 6" ID)	590992	2	
224226	Rubber Elbow (45°, 7" ID)	590992	2	
224354	Rubber Elbow (90°, 7"-6" ID)	590992	1	
228425	Rubber Elbow (45°, 7"-6" ID)	590992	2	
588143	Rubber Elbow (90°, 6"-5" ID)	590992	1	
R1904878	Rubber Elbow (90°, 6" ID)	590992	2	
208136	Indicator	590992	1	
2-6	Cooling			
224222	Vibration Dampener, Radiator Instl	590991	2	
252047	Seal, Flap, Radiator Instl	590991	9	
246916	Coolant Level Sensor, Accumulator	590991	1	
243652	Tube (Radiator)	589625	175	
250669	Seal, Bottom (Radiator)	589625	175	
250670	Seal, Top (Radiator)	589625	175	

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Section 3 - DRIVETRAIN

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
3-2 Transmission and Converter				
257099	Kit, Flexplate, 17"	590990	1	
256295	Converter	590990	1	
587619	Kit, Converter	256295	1	
591264	Transmission	595457	1	
587623	Kit, Transmission	591264	1	
247429	Filter Element, Transmission (Dual Spin-On)	595793	2	
3-3 Drivelines				
250400	Driveline Assembly	584900	1	
215403	. Cross Assembly	250400	2	
255339	Driveline Assembly	584900	1	
250090	. Cross Assembly	255339	2	
3-4 Axles				
591851	Front Axle Installation		1	
584897	. Wet Disc Brake, Assembly	591851	2	
258799	.. Disc, Friction	584897	20	
590060	.. Disc, Brake	584897	22	
209073	.. O-Ring	584897	8	
238578	.. Seal	584897	4	
238590	.. Oil Seal	584897	2	
249162	. Axle Kit	591851	1	
580700	.. Differential & Carrier	249162	1	
584264	... Service Kit	580700	1	
217706	... Ring & Pinion Set	580700	1	
234545	... Differential Sub Assembly	580700	1	
211953	.. Planet Carrier Assembly	249162	2	
587562	... Service Kit	211953	1	
547338	. Axle Shaft	591851	1	
200268	. Breather	591851	1	
585001	Tailfork Installation		1	
588726	Kit, Tail Post	585001	1	

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Section 3 - DRIVETRAIN

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
3-5	Wheels & Tires			
589050	Wheel Assembly, Dual W/O Hub		2	
589982	. Tire Assembly	589050	1	
229546	. Rim Assembly	589050	1	
589051	Wheel Assembly, Dual W/O Hub		2	
589982	. Tire Assembly	589051	1	
229546	. Rim Assembly	589051	1	
595997	Wheel Assembly, Single, Tail Post		1	
590038	. Rim Assembly	595997	1	
595998	. Tire Assembly	595997	1	

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Section 4 - BRAKE SYSTEM

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
4-1 Systems				
595398	Hose Kit, Hydraulic System Brakes	595277	1	
4-3 Supply Components				
245411	Accumulator	595277	1	
249129	Seal Kit	245411	1	
593471	Piston Loading Sleeve, 4" Bore Accumulator	245411	1	
250658	Accumulator	595277	2	
255345	Seal Kit	250658	2	
593472	Piston Loading Sleeve, 6" Bore Accumulator	250658	2	
4-4 Control Components				
593630	Manifold Assembly, Brake	595277	1	
233943	. Cartridge, Valve	593630	1	
242335	Seal Kit	233943	1	
242225	. Cartridge, Valve	593630	1	
242335	Seal Kit	242225	1	
244835	. Cartridge, Valve	593630	1	
242335	Seal Kit	244835	1	
256262	. Valve	593630	2	
590184	Manifold Assembly, Fire System	595277	1	
590185	. Valve, Cartridge	590184	1	
591261	Seal Kit	590185	1	
229043	. Valve	590184	1	
242101	Seal Kit	229043	1	
4-5 Actuator Components				
244409	Parking Brake Caliper	577281	1	
220326	Cylinder Assembly, Kit, Battery Shut-Off	591795	2	

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Section 5 - HYDRAULIC SYSTEM

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
5-1	Systems & Circuits			
593362	Hose Kit, Hydraulic System-Steering	593363	1	
591367	Hose Kit, Hydraulic System Seat	586819	1	
590486	Hose Kit, Hydraulic System Seat to Bulkhead	589201	1	
595796	Hose Kit, Boom Assembly	590989	1	
595828	Hose Kit, Carriage Assembly	595791	1	
595397	Hose Kit, Hydraulic System Chassis	595266	1	
595822	Hose Kit, Hydraulic System Hoist & Tilt	595792	1	
595987	Hose Kit, Hydraulic System Valve Module	595626	1	
5-3	Pumps			
225452	Transmission Charge Pump	256295	1	
R235961	Gasket, Mounting	256295	1	
247010	RH/LH Implement Pump	590990	1	
505499	Gasket, Mounting, SAE-C, 4-Bolt	590990	1	
592771	Brake/Pilot Cooling Pump	590990	1	
226184	Gasket, SAE-A, 2-Bolt	590990	1	
245520	Steering Pump	590990	1	
505499	Gasket, Mounting, SAE-C, 4-Bolt	590990	1	
5-3	Valves			
581812	Manifold Assembly, Steering Load Sense	594125	1	
233943	. Cartridge, Valve	581812	2	
242335	Seal Kit	233943	1	
244422	. Cartridge, Valve	581812	1	
242335	Seal Kit	244422	1	
586605	Manifold Assembly, Independent Control of Imp	595276	1	
250365	. Cartridge, Valve	586605	8	
250590	Seal Kit	250365	1	
587576	Valve, Holddown & Kickoff	595276	2	
588312	Seal Kit	587576	1	
250637	Valve, Hoist & Tilt	595276	1	
251100	Service Kit, Hoist/Tilt Valve	250637	4	
251101	Seal Kit, Hoist/Tilt Valve	250637	1	
251102	. Seal Kit, Hoist/Tilt Valve	250637	1	

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Section 5 - HYDRAULIC SYSTEM

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
5-3 Valves (Continued)				
591425	Manifold, Accumulator Charge	595266	1	
243786	. Check, Valve	591425	1	
251170	Seal Kit	243786	1	
589032	. Logic Valve	591425	1	
589043	Seal Kit	589032	1	
589046	. Element, Modulating	591425	1	
64850	Seal Kit	589046	1	
591432	. Cartridge, Relief	591425	1	
2501643	Seal Kit	591432	1	
591434	. Cartridge - Accum/Unloading	591425	1	
252566	Seal Kit	591434	1	
591435	. Cartridge - Relief	591425	1	
242335	Seal Kit	591435	1	
591436	. Cartridge - Reducing	591425	1	
242101	Seal Kit	591436	1	
589047	. Valve, Solenoid	591425	1	
586199	Manifold-Hoist & Tilt	595792	1	
234481	. Cartridge, Valve	586199	1	
234081	Steering Unit	595399	1	
234815	. Seal Kit	234081	1	
234082	Valve, Flow AMPlifier	595276	1	
589619	Remote Control Valve, LH Joystick	595401	1	
586775	Remote Control Valve, RH Joystick	594545	1	
5-4 Cylinders				
593796	Cylinder, Steering	594110	2	
204502	. Spherical Bearing	593796	1	
595341	Cylinder, Hoist	595264	2	
593825	. Kit, Packing	595341	1	
595394	Cylinder, Tilt	595625	2	
593825	. Kit, Packing	595394	1	
595259	Cylinder, HD	595258	2	
595585	. Kit, Packing	595259	1	
595260	Cylinder, KO	595258	2	
595585	. Kit, Packing	595259	1	
5-5 Filters				
588191	Service Kit, 100 GPM Hyd Pressure Filter	587385	3	
588192	Service Kit, 40 GPM Hyd Filter	587036	1	
591574	Service Kit, Return Filter	243457	2	

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Section 5 - HYDRAULIC SYSTEM

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
5-6	Miscellaneous			
258300	Cooler, Hydraulic Oil	595266	1	
587347	. Plug	258300	1	
587348	. Kit, Check Valve	258300	1	
587345	. Fan, W/24V Motor	258300	1	

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Section 6 - ELECTRICAL SYSTEM

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
6-2 Components				
591794	Switch, Battery Disconnect	591795	2	
R19361	Alarm, Reverse Alarm Instl	586163	1	
259080	Floodlight	586167	2	
		586913	4	
200220	Battery, 12V	595624	2	
230729	Sending Unit, Fuel Level	595624	1	
2509736	Fuse, 1 AMP, Controller, Control Temperature	593449	1	
593607	Fuse, 12.5 AMP, Battery Harness	588779	1	

Section 7 - CAB & COWL

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
7-1 Basic Structure				
586655	Cab Air Recirculation Elements	588137	1	
586655	Cab Air Recirculation Elements	588138	1	
258711	Gasket, Door Handle	591401	1	
258711	Gasket, Door Handle	591402	1	
215774	Mirror, Convex	595261	2	
2301055W	Vinyl Protective Trim	595261	10	
590724	Wiper Motor	595261	2	
591401	Door Assembly, RH	595261	1	
591402	Door Assembly, LH	595261	1	
591615	Bottle, Washer, 4 Liter	595261	2	
594720	Kit, Hose; Cab	595261	1	
587193	Whispermat	595546	4	
587685	Composite Floor Mat	595546	1	
258774	Wiper Blade Assembly	595261	2	
254962	Connector, ECM	595261	1	
203037	Molding, Locking Key (Window Molding)	586385	25	
258638	Molding, Self Lock, Window	586385	25	
586386	Glass, Front Windshield, Curved	586385	1	
586621	Glass, Rear Windshield	586385	1	
586622	Glass, Rear RH	586385	1	
586623	Glass, Rear LH	586385	1	

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Section 7 - CAB & COWL

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
7-1	Basic Structure (continued)			
224222	Vibration DAMPener	586670	4	
258685	Door Handle	591401	1	
586619	Glass, RH Door, Upper	591401	1	
586620	Glass, RH Door, Lower	591401	1	
258685	Door Handle	591402	1	
586617	Glass, LH Door, Upper	591402	1	
586618	Glass, LH Door, Lower	591402	1	
7-2	Instruments & Controls			
594545	Joystick Assembly, 2 Button, 1 Rocker	595400	1	
594549	. Handle, Joystick, 2 Button, 1 Rocker	594545	1	
595401	Joystick Assembly, 2 Button, 1 Slider	595400	1	
592204	. Handle, Joystick, 2 Button, 1 Slider	595401	1	
254933	Gauge, Tachometer, Accumulator	586437	1	
587084	Circuit Breaker, 7.5 AMP, Joystick Steering	589281	1	
905113	Diode Assembly, HCircuit Breaker, Joystick Steering	589281	2	
589281	Panel Assy, Circuit Breaker, Panel Assy, Circuit Brkr	589284	1	
589698	Temperature Controller, Controller Rework, A/C	593449	1	
586437	Panel Assy, LH, Cab Assy	595261	1	
587924	Panel Assy, RH Gauge, Cab Assy	595261	1	
587926	Panel Assy, LH Instrument, Cab Assy	595261	1	
236507	Lens, Rotary Beacon, Console Assy, Overhead	595287	1	
249382	Switch, Rocker, Console Assy, Overhead	595287	1	
588300	PLC Programmed, Console Assy, Overhead	595287	1	
591378	Fuse, Console Assy, Overhead	595287	2	
KOB0001P2B	Potentiometer Knob, Console Assy, Overhead	595287	1	
246923	Pedal Assembly, Elec Throttle, Platform Assy	595399	1	
586716	Steering Column, Platform Assy	595399	1	
249693	Gauge, Engine Coolant, Panel Assy, LH	586437	1	
251325	Gauge, Engine Oil Pressure, Panel Assy, LH	586437	1	
249694	Plug (6-Way W/Resistor), Panel Assy, Rh Gauge	587924	1	
251326	Gauge, Voltmeter, Panel Assy, Rh Gauge	587924	1	
254934	Gauge, Aux Oil Temp, Panel Assy, RH Gauge	587924	1	
254935	Gauge, Aux Oil Press, Panel Assy, RH Gauge	587924	1	
255254	Alarm, Audible, Panel Assy, RH Gauge	587924	1	
258707	Gauge, Fuel Level, Panel Assy, Rh Gauge	587924	1	
588432	Green LED, Panel Assy, RH Instru	587925	6	
588433	Yellow LED, Panel Assy, RH Instru	587925	1	
586917	Gauge, Oil Temp, Panel Assy, LH Instru	587926	1	
223062	Circuit Breaker, 2 AMP, Joystick Steering	589281	1	
223065	Circuit Breaker, 5 AMP, Joystick Steering	589281	2	
223067	Circuit Breaker, 15 AMP, Joystick Steering	589281	6	
223069	Circuit Breaker, 30 AMP, Joystick Steering	589281	1	
223377	Circuit Breaker, 20 AMP, Joystick Steering	589281	3	

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Section 7 - CAB & COWL

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
22632	Relay, Circuit Breaker, Joystick Steering	589281	2	
22635	Diode, 1 AMP, 400V, Circuit Breaker, Joystick Steering	589281	3	
229301	Relay, Circuit Breaker, Joystick Steering	589281	2	
229306	Circuit Breaker, 10 AMP, Joystick Steering	589281	6	
232908	Relay, Junction Box, ircuit Breaker, Joystick Steering	589281	1	
232909	Socket - Relay, Circuit Breaker, Joystick Steering	589281	1	
238891	Relay, Circuit Breaker, Joystick Steering	589281	2	
22632	Relay, Console Assy, Overhead	595287	1	
22635	Diode, 1 AMP, 400V, Console Assy, Overhead	595287	2	
232903	Power Converter, Console Assy, Overhead	595287	1	
232908	Relay, Junction Box, Console Assy, Overhead	595287	1	
232909	Socket - Relay, Console Assy, Overhead	595287	1	
235217	Connector, Female, Console Assy, Overhead	595287	40	
237688	Switch, Console Assy, Overhead	595287	3	
238891	Relay, Console Assy, Overhead	595287	1	
242950	Fuse, 1A, Junction Box, Console Assy, Overhead	595287	26	
247209	Terminal Block, Console Assy, Overhead	595287	5	
249692	Display Module, Console Assy, Overhead	595287	1	
588431	Red LED, Console Assy, Overhead	595287	2	
588432	Green LED, Console Assy, Overhead	595287	6	
588433	Yellow LED, Console Assy, Overhead	595287	6	
ELC7531010	Potentiometer, Console Assy, Overhead	595287	1	
7-3	Miscellaneous			
215096	Safety Belt	595400	1	
589080	Kit, Seatbelt Hardware, Operator's Seat	595400	1	
586692	Driveline Assembly	595399	1	
587270	. Cross Assembly	586692	1	
258699	Filter Element, Cab Pressurizer	590805	1	
207155	Ignition Switch	595399	1	
589053	Fan, Defroster	595280	1	

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Section 8 - FRAME & ATTACHMENTS

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
8-1	Frame & Attachments			
523862	Bushing, Kickoff Arm Wldmt	560229	4	
531801	Bushing , Kickoff Arm Wldmt	560229	2	
523862	Bushing, Holddown Arm Wldmt	560937	4	
531801	Bushing , Holddown Arm Wldmt	560937	2	
538104	Bushing , Boom Assy	590989	2	
561170	Bushing, Boom Assy	590989	4	
563280	Pin, Boom Assy	590989	3	
563504	Pin, Boom Assy	590989	1	
566920	Pin, Boom Assy	590989	1	
508737	Pin, Assy, Carr	595258	2	
512865	Pin, Assy, Carr	595258	2	
523107	Pin, Assy, Carr	595258	1	
531543	Pin, Assy, Carr	595258	4	
531586	Pin Assembly, Assy, Carr	595258	4	
552409	Pin, Assy, Carr	595258	2	
561170	Bushing, Assy, Carr	595258	2	
563280	Pin, Assy, Carr	595258	2	
588159	Pin, Assy, Carr	595258	1	
560229	Kickoff Arm, Assy, Carr	595258	2	
560937	Holddown Arm, Assy, Carr	595258	2	
588130	Tine, Assy, Carr	595258	2	

Section 9 - ACCESSORIES & OPTIONS

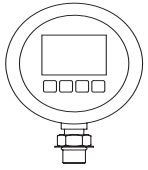
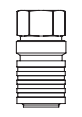
Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
9-1	Accessories & Options			
249803	Battery, 3.6 VDC, Fire Detection System	587003	1	
212052	Fire Extinguisher	582769	2	

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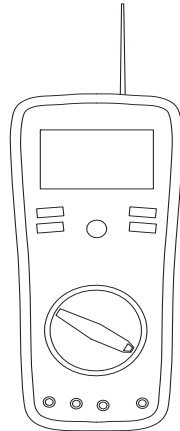
Diagnostic Tools

Order from Allied Systems
Service Parts Department
503-625-2560.

906601
Kit, Digital Pressure Gauge
W/Female QD Connector
0 to 8700 PSI

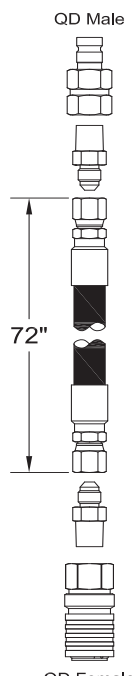



QD Female



69778
Multi-Meter, 12 Function
AC/DC Voltage & Current, Resistance,
Capacitance, Frequency, Type K & IR
Temperature, Diode/Continuity, Duty Cycle
Non-Contact InfraRed Thermometer
CAT III Test Leads
Type K Bead Wire Temp Probe

QD Male

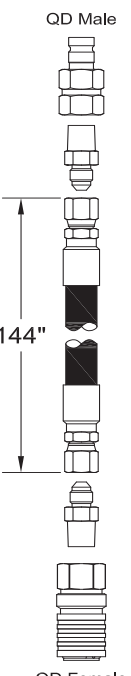


72"

QD Female

69782
Kit, Hose Assembly, W/QD Both Ends









QD Male



144"

QD Female

70381
Kit, Hose Assembly, W/QD Both Ends

- | | |
|--|--|
| <p>QD Male</p>  <p>1/8 NPT Male
R14038</p> | <p>QD Male</p>  <p>1/8 NPT Female
R14045</p> |
| <p>QD Male</p>  <p>#6 JIC Female
236625</p> | <p>QD Male</p>  <p>#8 JIC Female
253326</p> |
| <p>QD Male</p>  <p>1/4 NPT Female
228040</p> | <p>QD Male</p>  <p>#4 JIC Female
R330325</p> |
| <p>QD Male</p>  <p>#4 SAE Male
R14040</p> | <p>QD Male</p>  <p>#6 SAE Male
R14082</p> |

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Tools

Allied P/N	Description	On-Hand Quantity (Recommended)	Order Quantity
226672	Breaker Tool, Radiator Tubes	1	
226671	Installation Tool, Radiator Tubes	1	
252920	Lube Brush, Seal & Tube End	1	
259069	Header Plate Hole Cleaning Brush	1	
243274	Accumulator Recharge Valve	1	
509574	Air Hose Kit	1	
537788	Spindle Nut Wrench	1	
593401	Spanner for Wheel Safety Nut	1	
593402	Seal Ring Sleeve Driver	1	
593403	Seal Ring Sleeve Driver	1	
593404	Spanner for Thread Rings (Differential Bearing)	1	
593405	Centering Tools for Brake Discs	1	
593406	Installation Tool for Face Seal	1	
588466	Socket Set; 3/8Dr 3/8 To 7/8 22PC	1	
588467	Socket Set; 1/2Dr 3/8 To 1-1/4 30PC	1	
588468	Socket Set; 3/4Dr 7/8 To 2-3/8 29PC	1	
588530	3/8 DR 6mm-19mm 12 Point	1	
588529	1/2 DR 10mm-26mm 12 Point	1	
588469	Wrench Set; 5/16 To 2-1/2 31PC	1	
588528	Wrench Set; 7mm-24mm, 18 PC	1	
588527	Hex Key Set; .025" To 5/8"	1	
588526	Hex Key Sets; .07mm-17mm, 15 PC	1	
556042	Wrench - Swivel Nut	1	
558533	Fire Extinguisher Wrench	1	

Diagnostic Tools

Allied P/N	Description	On-Hand Quantity (Recommended)	Order Quantity
906601	0 to 8700 PSI Digital Pressure Gauge W/QD Connector	1	
69778	Multi-Meter; 12 Function	1	
69782	Kit; 72" Hose Assembly W/QD on Both Ends	1	
70381	Kit; 144" Hose Assembly W/QD on Both Ends	1	
R14038	Fitting; QD Male x 1/8 NPT Male	1	
R14045	Fitting; QD Male x 1/8 NPT Female	1	
236625	Fitting; QD Male x #6 JIC Female	1	
253326	Fitting; QD Male x #8 JIC Female	1	
228040	Fitting; QD Male x 1/4 NPT Female	1	
R330325	Fitting; QD Male x #4 JIC Female	1	
R14040	Fitting; QD Male x #4 SAE Male	1	
R14082	Fitting; QD Male x #6 SAE Male	1	