

## Suggested Spares Guide L90F-625

### 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		70 Gallons	
242864	Additive; Axle		1 Gallon	
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	
224744	Element Assembly; Hydraulic Tank Breather	596771	12	
230463	. Element Only; Hydraulic Tank Breather	224744	12	
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
<b>2-1</b>	<b>Engine</b>			
246908	Sensor, Temperature, Power Unit	590990	1	
249309	A/C 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	
252945	Filter, Coolant, Engine	590600	1	
588563	Filter, Oil, Engine	590600	1	
588564	Filter, Fuel, Engine	590600	1	
589282	Belt, Serpentine, Engine	590600	1	
<b>2-4</b>	<b>Fuel</b>			
590458	Hose Kit	589233	1	
227988	Filler/Breather, Fuel Tank	589233	1	
<b>2-5</b>	<b>Air Intake &amp; Exhaust</b>			
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	
<b>2-6</b>	<b>Cooling</b>			
224222	Vibration Dampener, Radiator Instl	596365	2	
252047	Seal, Flap, Radiator Instl	596365	9	
246916	Coolant Level Sensor	596365	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
<b>3-2 Transmission and Converter</b>				
257099	Kit, Flexplate, 17"	590990	1	
<b>256295</b>	<b>Converter</b>	<b>590990</b>	<b>1</b>	
587619	Kit, Converter	256295	1	
<b>591264</b>	<b>Transmission</b>	<b>595457</b>	<b>1</b>	
587623	. Kit, Transmission	591264	1	
247429	Filter Element, Transmission (Dual Spin-On)	595793	2	
<b>3-3 Drivelines</b>				
<b>250400</b>	<b>Driveline Assembly</b>	<b>584900</b>	<b>1</b>	
215403	. Cross Assembly	250400	2	
<b>255339</b>	<b>Driveline Assembly</b>	<b>584900</b>	<b>1</b>	
250090	. Cross Assembly	255339	2	
<b>3-4 Axles</b>				
<b>596643</b>	<b>Front Axle Installation</b>		<b>1</b>	
<b>584897</b>	<b>. Wet Disc Brake, Assembly</b>	<b>596643</b>	<b>2</b>	
258799	. . Disc, Friction	584897	20	
590060	. . Disc, Brake	584897	22	
209073	. . O-Ring	584897	8	
238578	. . Seal	584897	4	
238590	. . Oil Seal	584897	2	
<b>249162</b>	<b>. Axle Kit</b>	<b>596643</b>	<b>1</b>	
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	596643	1	
200268	. Breather	596643	1	
<b>585001</b>	<b>Tailfork Installation</b>		<b>1</b>	
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			
<b>590036</b>	<b>Front Wheel Assembly, W/ Hub &amp; Tire</b>		<b>2</b>	
589992	. Tire Assembly 37.25 X 35	590036	1	
586424	. Rim Assembly	590036	1	
<b>590040</b>	<b>Rear Wheel Assembly, W/O Hub</b>		<b>2</b>	
589989	. Tire Assembly 23.50 X 25	590040	1	
590038	. Rim Assembly	590040	1	

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### Section 4 - BRAKE SYSTEM

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
<b>4-1 Systems</b>				
595398	Hose Kit, Hydraulic System Brakes	595277	1	
<b>4-3 Supply Components</b>				
<b>590153</b>	<b>Accumulator</b>	<b>595277</b>	<b>1</b>	
249129	Seal Kit	245411	1	
<b>593471</b>	<b>Piston Loading Sleeve, 4" Bore Accumulator</b>	<b>245411</b>	<b>1</b>	
<b>590180</b>	<b>Accumulator</b>	<b>595277</b>	<b>2</b>	
255345	Seal Kit	590180	2	
<b>593472</b>	<b>Piston Loading Sleeve, 6" Bore Accumulator</b>	<b>250658</b>	<b>2</b>	
<b>4-4 Control Components</b>				
<b>595277</b>	<b>Hydraulic System Brakes</b>			
594358	. Valve, Cartridge	595277	1	
594357	. Valve, Cartridge	595277	1	
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	
<b>4-5 Actuator Components</b>				
244409	Parking Brake Caliper	577281	1	

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### Section 5 - HYDRAULIC SYSTEM

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
<b>5-1</b>	<b>Systems &amp; Circuits</b>			
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	
<b>5-2</b>	<b>Pumps</b>			
<b>225452</b>	<b>Transmission Charge Pump</b>	<b>256295</b>	<b>1</b>	
R235961	Gasket, Mounting	590990	1	
<b>247010</b>	<b>RH/LH Implement Pump</b>	<b>590990</b>	<b>1</b>	
505499	Gasket, Mounting	590990	1	
<b>592771</b>	<b>Brake/Pilot Cooling Pump</b>	<b>590990</b>	<b>1</b>	
226184	Gasket	590990	1	
<b>245520</b>	<b>Steering Pump</b>	<b>590990</b>	<b>1</b>	
505499	Gasket, Mounting	590990	1	
<b>5-3</b>	<b>Valves</b>			
<b>586605</b>	<b>Manifold Assembly, Independent Control of Imp</b>	<b>595276</b>	<b>1</b>	
250365	. Cartridge, Valve	586605	8	
250590	Seal Kit	250365	1	
<b>587576</b>	<b>Valve, Holddown &amp; Kickoff</b>	<b>595276</b>	<b>2</b>	
588312	Seal Kit	587576	1	
<b>250637</b>	<b>Valve, Hoist &amp; Tilt</b>	<b>595276</b>	<b>1</b>	
251100	Service Kit, Hoist/Tilt Valve	250637	4	
251101	Seal Kit, Hoist/Tilt Valve	250637	1	
251102	. Seal Kit, Hoist/Tilt Valve	250637	1	
<b>591425</b>	<b>Manifold, Accumulator Charge</b>	<b>595266</b>	<b>1</b>	
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	

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### Section 5 - HYDRAULIC SYSTEM

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
<b>5-3 Valves (Continued)</b>				
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	
<b>592622</b>	<b>Manifold-Hoist &amp; Tilt</b>	<b>595792</b>	<b>1</b>	
234481	. Cartridge, Valve	592622	1	
<b>234081</b>	<b>Steering Unit</b>	<b>596808</b>	<b>1</b>	
234815	. Seal Kit	234081	1	
<b>234082</b>	<b>Valve, Flow Amplifier</b>	<b>595276</b>	<b>1</b>	
<b>589619</b>	<b>Remote Control Valve, LH Joystick</b>	<b>597076</b>	<b>1</b>	
<b>586775</b>	<b>Remote Control Valve, RH Joystick</b>	<b>594545</b>	<b>1</b>	
<b>5-4 Cylinders</b>				
<b>593796</b>	<b>Cylinder, Steering</b>	<b>594110</b>	<b>2</b>	
204502	. Spherical Bearing	593796	1	
<b>595341</b>	<b>Cylinder, Hoist</b>	<b>595264</b>	<b>2</b>	
593825	. Kit, Packing	595341	1	
<b>595394</b>	<b>Cylinder, Tilt</b>	<b>595625</b>	<b>2</b>	
593825	. Kit, Packing	595394	1	
<b>595259</b>	<b>Cylinder, HD</b>	<b>595258</b>	<b>2</b>	
595585	. Kit, Packing	595259	1	
<b>595260</b>	<b>Cylinder, KO</b>	<b>595258</b>	<b>2</b>	
595585	. Kit, Packing	595259	1	
<b>5-5 Filters</b>				
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	
<b>5-6 Miscellaneous</b>				
<b>258300</b>	<b>Cooler, Hydraulic Oil</b>	<b>595266</b>	<b>1</b>	
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			
596169	Switch, Battery Shut-Off	596773	1	
R19361	Alarm, Reverse Alarm Instl	587891	1	
258338	Floodlight	587904	4	
		587939	2	
200220	Battery, 12V	596773	2	
230729	Sending Unit, Fuel Level	596773	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	590691	1	
586655	Cab Air Recirculation Elements	590694	1	
258711	Gasket, Door Handle	596348	1	
258711	Gasket, Door Handle	596351	1	
215774	Mirror, Convex	596499	2	
2301055W	Vinyl Protective Trim	596499	10	
590724	Wiper Motor	596499	2	
596348	Door Assembly, RH	594707	1	
258685	. Door Handle	596348	1	
586619	. Glass, RH Door, Upper	596348	1	
586620	. Glass, RH Door, Lower	596348	1	
596351	Door Assembly, LH	594707	1	
258685	. Door Handle	596351	1	
586617	. Glass, LH Door, Upper	596351	1	
586618	. Glass, LH Door, Lower	596351	1	
591615	Bottle, Washer, 4 Liter	596499	2	
594720	Kit, Hose; Cab	596499	1	
587193	Whispermat	596485	4	
587685	Composite Floor Mat	596485	1	
258774	Wiper Blade Assembly	596499	2	
254962	Connector, ECM	596481	1	



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### Section 7 - CAB & COWL

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
<b>7-1</b>	<b>Basic Structure (continued)</b>			
203037	Molding, Locking Key (Window Molding)	596442	25	
258638	Molding, Self Lock, Window	596442	25	
586386	Glass, Front Windshield, Curved	596442	1	
586621	Glass, Rear Windshield	596442	1	
596444	Glass, Rear RH	596442	1	
596443	Glass, Rear LH	596442	1	
224222	Vibration DAMPener	586670	4	
<b>7-2</b>	<b>Instruments &amp; Controls</b>			
<b>594545</b>	<b>Joystick Assembly, 2 Button, 1 Rocker</b>	<b>596809</b>	<b>1</b>	
594549	. Handle, Joystick, 2 Button, 1 Rocker	594545	1	
<b>597076</b>	<b>Joystick Assembly, 2 Button</b>	<b>596809</b>	<b>1</b>	
594550	. Handle, Joystick, 2 Button	595401	1	
254933	Gauge, Tachometer, Accumulator	590717	1	
587084	Circuit Breaker, 7.5 AMP, Joystick Steering	590717	1	
249693	Gauge, Engine Coolant Temp 250 F	590717	1	
251325	Gauge, Engine Oil Press	590717	1	
586917	Gauge, Oil Temp; 24Vdc	590717	1	
254935	Gauge, Aux Oil Pressure	590717	1	
254934	Gauge, Aux Oil Temp	590717	1	
258707	Gauge, Fuel Level	590717	1	
251326	Gauge, Voltmeter	590717	1	
255254	Alarm, Audible;	590717	1	
588432	Led, Panel Mnt; Green	590717	6	
588433	Led, Panel Mnt; Yellow	590717	1	
905113	Diode Assembly, HCircuit Breaker, Joystick Steering	596463	2	
596463	Panel Assy, Circuit Breaker	596481	1	
596977	. PLC Programmed	596463	1	
243578	. Fuse, 10 AMP	596463	2	
592459	. Fuse, 6 AMP	596463	4	
587084	. Circuit Breaker, 7.5 AMP	596463	1	
223062	. Circuit Breaker, 2 AMP	596463	1	
223065	. Circuit Breaker, 5 AMP	596463	2	
229306	. Circuit Breaker, 10 AMP	596463	6	
223067	. Circuit Breaker, 15 AMP	596463	6	
223337	. Circuit Breaker, 20 AMP	596463	3	
223069	. Circuit Breaker, 30 AMP	596463	1	
589698	Temperature Controller, Controller Rework, A/C	593449	1	
249382	Switch, Rocker, Console Assy, Overhead	596469	1	
KOB0001P2B	Potentiometer Knob, Console Assy, Overhead	596469	1	
249692	Display Module, PowerView	596469	1	
588432	Led, Panel Mnt; Green	596469	6	
588431	Led, Panel Mnt; Red	596469	2	
588433	Led, Panel Mnt; Yellow	596469	2	

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### Section 7 - CAB & COWL

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
593449	Controller; AC	596469	1	
ELC7531010	Potentiometer	596469	1	
246923	Pedal Assembly, Elec Throttle, Platform Assy	596808	1	
586716	Steering Column, Platform Assy	596808	1	
<b>7-3</b>	<b>Miscellaneous</b>			
215096	Safety Belt	596809	1	
589080	Kit, Seatbelt Hardware, Operator's Seat	596809	1	
<b>586692</b>	<b>Driveline Assembly</b>	<b>596808</b>	<b>1</b>	
587270	. Cross Assembly	586692	1	
258699	Filter Element, Cab Pressurizer	590805	1	
207155	Ignition Switch	596808	1	
589053	Fan, Defroster	595280	1	
587289	Receiver Dryer Assy; Remote Condenser	258674	1	
587293	Switch, High Side; Remote Condenser	258674	1	
587299	Fan Motor Assy; Remote Condenser	258674	2	
240047	Relay 24v; Remote Condenser	258674	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

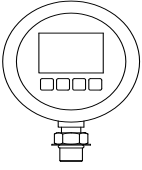
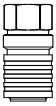
Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
9-1	Accessories & Options			
594256	Battery, 3.6 VDC, Fire Detection System	596774	1	
212052	Fire Extinguisher	582769	2	

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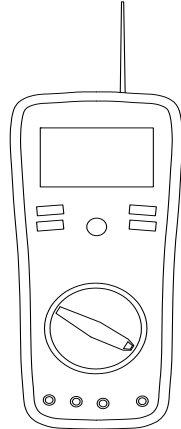
**Diagnostic Tools**

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

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

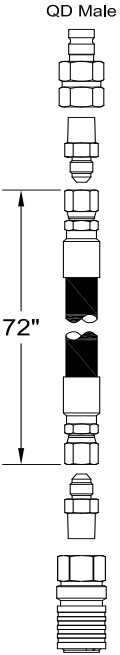



QD Female



**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

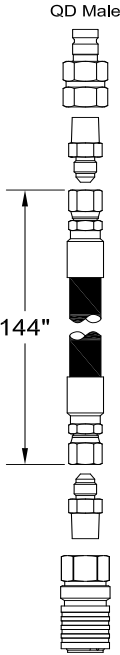


72"

QD Female

**69782**  
Kit, Hose Assembly, W/QD Both Ends

QD Male




144"

QD Female


**70381**  
Kit, Hose Assembly, W/QD Both Ends

QD Male



1/8 NPT Male  
**R14038**

QD Male




1/8 NPT Female  
**R14045**

QD Male



#6 JIC Female  
**236625**

QD Male




#8 JIC Female  
**253326**

QD Male



1/4 NPT Female  
**228040**

QD Male




#4 JIC Female  
**R330325**

QD Male



#4 SAE Male  
**R14040**

QD Male



#6 SAE Male  
**R14082**

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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	