

Suggested Spares Guide L90S-332

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 Lbs	
591654	Grease (driveline cross assemblies), case of 10 cartridges		1	
221340	Anti-Freeze, Premix 50/50		24 Gallons	
235720	Drive Axle Gear Oil		57 Gallons	
904415	Drive Axle Gear Oil - Additive (kit)		1 Gallon	
236077	Engine Oil		110 Gallons	
238206	Transmission Fluid		20 Gallons	
588189	V-Belt, Alternator	594119	1	
587378	V-Belt, Fan Drive	594102	3	
234914	V-Belt	594102	1	
587568	Filter, Fuel	594119	12	
587565	Filter, Oil	594119	12	
588188	Separator, Fuel/Water	594119	2	
587566	Filter, Cooling	594119	2	
224744	Filler; Breather	594089	1	
588192	Service Kit, 40 GPM Hyd Filter	587036	4	
588191	Service Kit, 100 GPM Hyd Pressure Filter	587385	12	
591574	Service Kit, Return Filter	243457	8	
258701	Element, Air Cleaner Assembly	258700	2	
258702	Safety Element, Air Cleaner Assembly	258700	2	
247429	Filter Element, Transmission	594116	2	
258699	Filter Element, Cab Pressurizer	590805	1	
259015	Filter Element, Cab Pressurizer (Hi-Efficiency Option)	590805	1	
581995	Parking Brake Lining Kit	244409	1	
258774	Wiper Blade Assembly	594076	2	

Suggested Spares Guide L90S-332

Section 2 - POWER UNIT

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
2-1	Engine			
591345	Pump, Water	594119	1	
587566	Filter, Cooling	594119	1	
588188	Separator, Fuel/Water	594119	1	
587565	Filter, Oil	594119	1	
587568	Filter, Fuel	594119	1	
588189	V-Belt, Alternator	594119	1	
587378	V-Belt, Fan Drive	594102	3	
234914	V-Belt	594102	1	
239826	Compressor	594102	1	
594594	Kit, Hose; Power Unit	594102	1	
226184	Gasket	594102	1	
505499	Gasket	594102	1	
2-4	Fuel			
587347	Valve, Ball	590866	1	
227988	Filler/Breather, Fuel Tank	590866	1	
2-5	Air Intake & Exhaust			
587347	Vacuator Valve	258700	2	
208136	Indicator	586404	1	
258701	Element, Air Cleaner Assembly	258700	2	
258702	Safety Element, Air Cleaner Assembly	258700	2	
215733	Rubber Elbow (90°, 6" ID)	586404	2	
224226	Rubber Elbow (45°, 7" ID)	586404	2	
224354	Rubber Elbow (90°, 7"-6" ID)	586404	1	
228425	Rubber Elbow (45°, 7"-6" ID)	586404	2	
R1904878	Rubber Elbow (90°, 6" ID)	586404	3	

Suggested Spares Guide L90S-332**Section 2 - POWER UNIT**

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
2-6	Cooling			
594186	Radiator/CAC Assembly	594156		
594832	. Radiator Assembly	594186	1	
250669	. . Seal, Locking Groove	594832	175	
250670	. . Seal	594832	175	
243652	. . Tubes, V-Fin	594832	175	
594833	. Aftercooler Assembly (359875)	594186	1	
226663	. . Seal	594833	117	
226664	. . Grommet	594833	117	
250680	. . Tubes, V-Fin	594833	117	
257163	. Cap	257161	1	
594220	. Kit, Hose; Radiator	594186	1	
249984	Transmission Cooler	594156	1	
236611	. Seal	249984	126	
251411	. Tubes	249984	63	
251410	. Gasket	249984	2	

Suggested Spares Guide L90S-332

Section 3 - DRIVETRAIN

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
3-2 Transmission and Converter				
587347	Converter Bypass Regulator	594116	1	
578293	Valve, Module, Hyd System Transmission	594116	1	
22635	Diode, 1 Amp, 400V	578293	5	
232904	Valve, Module	578293	1	
R235961	Gasket, Tandem Pump, Converter	256295	1	
587623	Service Kit, Transmission	591264	1	
257100	Kit, Flexplate, 16"	594102	1	
256295	Converter	594102	1	
587619	Kit, Converter	256295	1	
3-3 Drivelines				
249020	Driveline Assembly, Driveline Instl	580948	1	
587347	. Cross Assembly	249020	2	
249025	Driveline Assembly, Driveline Instl	580948	1	
250090	. Cross Assembly	249025	2	
3-4 Axles				
564179	Stem, Tailfork Installation	577696	1	
521865	Axle, Tailfork Installation	577696	1	
204540	Bearing Cone, Tailfork Installation	577696	2	
204603	Bearing Cone, Tailfork Installation	577696	2	
212198	Bearing Cup, Tailfork Installation	577696	1	
212199	Bearing Cone, Tailfork Installation	577696	1	
214471	Bearing Cup, Tailfork Installation	577696	1	
214472	Bearing Cone, Tailfork Installation	577696	1	
221672	Bushing, Tailfork Installation	577696	2	
203564	O-Ring, Tailfork Installation	577696	2	
208870	Seal, Tailfork Installation	577696	2	
214464	Seal, Tailfork Installation	577696	1	
508834	Seal, Race, Tailfork Installation	577696	2	
593408	Axle w/wet disc brakes		1	
200268	. Breather, Axle Installation	593408	1	
547338	. Axle Shaft, Front Axle	593408	2	
584897	. Disk Brake	593408	2	
593415	. . Kit, Service; Disk Brake	584897	1	
249162	. Wheel End & Differential Kit, Front Axle	593408	1	
580700	. . Differential & Carrier Assembly	249162	1	
584264	. . . Kit, Service; Differential & Carrier Assembly	580700	1	
217706	. . . Ring and Pinion Set	580700	1	

Suggested Spares Guide L90S-332

Section 3 - DRIVETRAIN

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
211953	. . Planet Carrier Assembly	249162	2	
587562	. . . Service Kit	211953	1	
577287	Pin, Parking Brake Installation	577281	2	
3-5	Wheels & Tires			
590041	Rear Wheel Assembly			
590038	Rim Assy	2		
589991	Tire, Radial, 23.50 X 25	2		
590042	Front Wheel Assembly			
586424	Rim Assy	2		
589993	Tire, Radial, 37.25 X 35	2		

Suggested Spares Guide L90S-332

Section 4 - BRAKE SYSTEM

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
4-1 Systems				
594343	Hose Kit, Hydraulic System Brakes	594105	1	
4-3 Supply Components				
590153	Accumulator, Hyd Sys-Brakes	594105	1	
249129	. Kit, Seal	590153	1	
590180	Accumulator, Hyd Sys-Brakes	594105	2	
255345	. Kit, Seal	590180	1	
593472	. Piston Loading Sleeve, 6" Bore Accumulator	590180		
4-4 Control Components				
594356	Manifold Assembly; Brakes	594105	1	
232514	. Cartridge, Valve	594356	1	
242335	.. Seal Kit	232514	1	
594357	. Cartridge, Valve	594356	1	
242335	.. Seal Kit	594357	1	
256262	. Valve	94356	1	
254539	.. Seal Kit	256262	1	
233943	. Cartridge, Valve	254539	1	
242335	.. Seal Kit	233943	1	
594358	. Cartridge, Valve	594356	1	
4-5 Actuator Components				
587347	Parking Brake Caliper	577281	1	
220326	Cylinder Assembly	591795	2	

Section 5 - HYDRAULIC SYSTEM

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
5-1 Systems & Circuits				
245334	Filter Indicator, Elec/Vis	594108	1	
586918	Sender, Oil Temp	594108	1	
587347	Switch, Pressure	586819	1	
591367	Hose Kit, Hydraulic System Seat	586819	1	
586413HL	Hose Kit, Hydraulic System Steering	586413	1	
594322	Hose Kit, Hydraulic System Carriage	594106	1	
594461	Hose Kit, Hydraulic System Chassis	594108	1	
594479	Hose Kit, Hoist and Tilt	594478	1	
594453	Hose Kit, Hydraulic System Seat to Bulkhead	594437	1	

Suggested Spares Guide L90S-332

Section 5 - HYDRAULIC SYSTEM

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
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	
242101	.. Seal Kit	244422	1	
234081	Steering Unit	594103	1	
586775	Remote Control Valve	591833	1	
589619	Remote Control Valve	594321	1	
234990	Valve, Steering Flow Amplifier	594107	1	
234639	. Service Kit, Steering Flow Amplifier	234990	1	
250637	Valve, Hoist & Tilt	594107	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	
587577	Holddown/Kickoff Valve Assembly	594107	2	
250108	. Cartridge, Valve	587577	12	
588588	.. Kit, Seal & Spring	250108	1	
588592	. Cartridge, Valve	587577	2	
588587	.. Kit, Seal & Spring	588592	1	
591425	Manifold, Accumulator Charge	594108	1	
243786	. Cartridge, Valve	591425	1	
251170	.. Seal Kit	243786	1	
589032	. Valve	591425	1	
589046	. Element, Modulating	591425	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	
237511	.. Seal Kit	591435	1	
591436	. Cartridge - Reducing	591425	1	
242101	.. Seal Kit	591436	1	
589047	. Valve, Solenoid	591425	1	
586199	Manifold-Hoist & Tilt	594478	1	
234481	. Cartridge, Valve	586199	2	
252566	.. Seal Kit	234481	1	

Suggested Spares Guide L90S-332

Section 5 - HYDRAULIC SYSTEM

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
5-3	Valves (Cont)			
581058	Manifold Assembly	594107	1	
250365	. Cartridge, Valve	581058	12	
5-4	Cylinders			
593794	Cylinder, Hoist	594109	2	
593825	. Kit, Service	593794	1	
505568	. Bushing	593825	2	
505997	Pin, Hoist Cyl Base	594109	2	
523052	Pin, Hoist Cyl Stem	594109	1	
593796	Cylinder, Steering	594110	2	
593802	. Kit, Service	593796	1	
505350	. Bushing	593802	2	
500290	Pin, Steering Cyl Base	594110	2	
593842	Cylinder, Tilt	594111	2	
593838	. Kit, Service	593842	1	
522958	Pin, Tilt Cyl Stem	594111	2	
593792	Cylinder, Holddown & Kickoff	594096	4	
593808	. Kit, Service	593792	1	
505206	. Bushing, Base	593792	2	
505880	. Bushing, Stem	593792	2	
512865	Pin, Holddown Cyl Stem	594096	2	
500418	Pin, Holddown Cyl Base	594096	2	
512865	Pin, Aux Holddown Cyl Stem	594096	2	
500418	Pin, Aux Holddown Cyl Base	594096	2	
593844	Cylinder, Aux Holddown	594096	2	
593808	. Kit, Service	593844	1	
505603	. Bushing, Stem	593844	1	
527477	Pin, Aux Holddown Cyl Stem	594096	2	
505202	Pin, Aux Holddown Cyl Base	594096	2	

Suggested Spares Guide L90S-332

Section 5 - HYDRAULIC SYSTEM

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
5-5	Filters			
588192	Service Kit, 40 GPM Hyd Filter	587036	1	
588191	Service Kit, 100 GPM Hyd Pressure Filter	587385	3	
591574	Service Kit, Return Filter	243457	2	
5-6	Miscellaneous			
258300	Cooler, Hydraulic Oil	594108	1	
587347	. Plug	258300	1	
587348	. Kit, Check Valve	258300	1	
587345	. Fan, W/24V Motor	258300	1	

Suggested Spares Guide L90S-332

Section 6 - ELECTRICAL SYSTEM

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
6-2	Components			
587347	Battery Disconnect Switch	589229	1	
200220	Battery, 12V	589229	2	
230729	Sending Unit, Fuel Level	589229	1	
591794	Switch, Battery Disconnect	591795	2	
22632	Relay	590976	3	
22635	Diode, 1 Amp, 400V	590976	8	
229808	Cord Assy	590976	2	
238891	Relay	590976	3	
R19361	Alarm	594113	1	
258338	Floodlight	587904	4	
		590311	4	
		587939	2	
218755	Horn, Reverse Alarm	R19361	1	

Section 7 - CAB & COWL

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
7-1	Basic Structure			
591401	Door Assembly, RH	594076	1	
258697	. Gasket; Y-Shaped	591401	195	
594720	Kit, Hose; Cab	594076	1	
258685	Door Handle	591401	1	
586619	Glass, RH Door, Upper	591401	1	
586620	Glass, RH Door, Lower	591401	1	
591402	Door Assembly, LH	594076	1	
258697	. Gasket; Y-Shaped	591402	195	
258685	Door Handle	591402	1	
586617	Glass, LH Door, Upper	591402	1	
586618	Glass, LH Door, Lower	591402	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	
224222	Vibration Dampener	586684	4	

Suggested Spares Guide L90S-332

Section 7 - CAB & COWL

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
7-2	Instruments & Controls			
905113	Diode Assembly	589281	2	
589281	Panel Assy, Circuit Breaker	589284	1	
589698	Temperature Controller	593449	1	
586437	Panel Assy, LH	594076	1	
587924	Panel Assy, RH Gauge	594076	1	
587926	Panel Assy, LH Instrument	594076	1	
246923	Pedal Assembly, Elec Throttle	594103	1	
591833	Joystick Assy, 2 Button, 1 Rocker, 1 Slider	594104	1	
249693	Gauge, Engine Coolant	586437	1	
251325	Gauge, Engine Oil Pressure	586437	1	
249694	Plug (Pvjr, 6-Way W/Resistor)	587924	1	
251326	Gauge, Voltmeter	587924	1	
254934	Gauge, Aux Oil Temp	587924	1	
254935	Gauge, Aux Oil Press	587924	1	
255254	Alarm, Audible	587924	1	
258707	Gauge, Fuel Level	587924	1	
588432	Green LED	587925	6	
588433	Yellow LED	587925	1	
586917	Gauge, Oil Temp	587926	1	
223062	Circuit Breaker, 2 Amp	589281	1	
587084	Circuit Breaker, 7.5 Amp	589281	1	
223065	Circuit Breaker, 5 Amp	589281	2	
223067	Circuit Breaker, 15 Amp	589281	6	
223069	Circuit Breaker, 30 Amp	589281	1	
223377	Circuit Breaker, 20 Amp	589281	3	
22632	Relay	589281	2	
22635	Diode, 1 Amp, 400V	589281	3	
229301	Relay, Terminal Panel	589281	2	
229306	Circuit Breaker, 10 Amp	589281	6	
232908	Relay, Junction Box	589281	1	
232909	Socket - Relay	589281	1	
238891	Relay	589281	2	

Suggested Spares Guide L90S-332

Section 7 - CAB & COWL

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
7-3	Miscellaneous			
590074	AC/Heater	594065	1	
590805	Pressurizer	594065	1	
258674	Condenser, Remote	594065	1	
590865	Remote Monitor	594076	1	
258699	Filter Element, Cab Pressurizer	590805	1	
238891	Relay	258674	1	
239161	Fan, Defroster	589053	1	
589053	Fan, Defroster	594065	1	
587270	Cross Assembly	586692	1	
586692	Driveline Assembly	594103	1	

Suggested Spares Guide L90S-332

Section 8 - FRAME & ATTACHMENTS

Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
8-1	Frame & Attachments			
538104	Bushing, Boom Assembly	594090	6	
594590	Kit, Hose; Assembly	594090	1	
589782	Pin	594090	1	
211398	Draincock	594089	1	
224744	Breather Hyd Tank	594089	1	
561108	Dipstick Assy	594089	1	
555064	Gasket, Manhole Cover	594089	2	
563775	Gasket	594089	1	
562468	Gasket, Return Filter Cover Plate	594089	1	
512865	Pin; Carriage Assembly	594096	4	
527477	Pin; Carriage Assembly	594096	2	
505202	Pin; Carriage Assembly	594096	2	
500418	Pin; Carriage Assembly	594096	4	
525424	Pin; Carriage Assembly	594096	2	
523107	Pin; Carriage Assembly	594096	1	
537642	Pin; Carriage Assembly	594096	1	
526294	Pin Assy; Carriage Assembly	594096	2	
573783	Pin Assy; Carriage Assembly	594096	4	
501571	Bushing; Kickoff Assy	594099	2	
534117	Bushing; Kickoff Assy	594099	4	
501571	Bushing; Holddown Assy	575611	2	
534117	Bushing; Holddown Assy	575611	4	
594188	Tine, Carriage Assembly	594096	2	
523541	Bushing, Auxiliary Holddown	580280	2	
		580281	2	

Suggested Spares Guide L90S-332

Section 9 - ACCESSORIES & OPTIONS

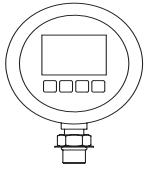
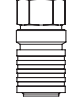
Allied P/N	Description	Where Used	Quantity on Machine	Order Quantity
9-1	Accessories & Options			
212052	Fire Extinguisher	582769	2	
594460	Kit, Fire Suppression	594112	1	
594256	Battery, Checkfire	594112	1	

Suggested Spares Guide L90S-332

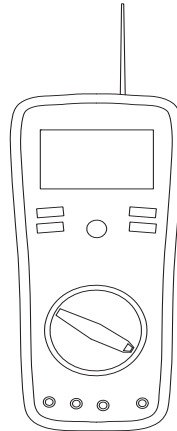
Diagnostic Tools

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

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

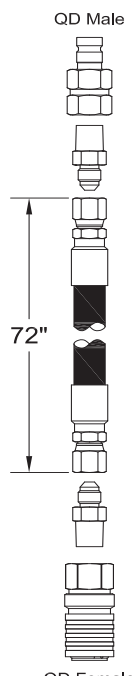



QD Female



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

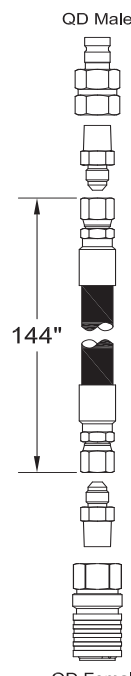


72"

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> |

Suggested Spares Guide L90S-332

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	