



W8L Towing Winch

Mounted on Caterpillar D7G Series II, and Komatsu D85ESS-2

Recommended Service Kits

The following pages list the service kits that are available for your Allied W8L Winch. Each kit includes all parts listed in the table.

Pages 1 and 2 include Filter Kits. These kits contain all parts necessary to replace the filter element. Select the kit number relevant for your winch, and order a quantity of kits necessary. The filter element should be changed after the first 250 hours, then every 500 hours thereafter. Keep these kits in stock at all times for regular maintenance.

Pages 2, 3 and 4 contain a Gasket Kit, a Brake Assembly Kit, and two Clutch Shaft Kits. Order these kits in preparation for the 5,000 hour scheduled maintenance.

Pages 5, 6 and 7 contain the Brake Shaft and Clutch Shaft Bearing Kits, and a Drum & Intermediate Shaft Bearing and Seal Kit. Order the kits relevant for your winch in preparation for the 10,000 hour scheduled maintenance.

Pages 8 and 9 contain a list of Miscellaneous Parts, two lists of Additional Tractor Type Specific Parts. These parts will vary from installation to installation, but we recommend keeping these parts on hand. Refer to your parts manual for specific part numbers. Page 9 also contains a list of tool kits and a list of specialized tools, which will help you install and maintain your winch(es).

Page 10 contains a list of diagnostic tools, which will also help you install and maintain your winch(es).

Note: Allied winch parts manuals are available for no charge download at <http://www.alliedsystems.com/pubs/pubs.htm#>.

Filter Kit, P/N: 2311165

Applies to: Winches with Power Controls, Last Used on S/N AW8L-1599

Service Interval: First 250, then every 500 hours

See Section 5 in
Parts Manual

Allied P/N	Description	Quantity in Kit	Order Quantity
2311165	Filter Kit		
227490W	. Element, Filter	1	
186460W	. Gasket	1	
265332W	. Gasket	1	

Filter Kit, P/N: 2311166

Applies to: Winches with Power Controls, Used on S/N AW8L-1001 through AW8L-2421

Service Interval: First 250, then every 500 hours

See Section 5 in
Parts Manual

Allied P/N	Description	Quantity in Kit	Order Quantity
2311166	Filter Kit		
3001363W	. Element, Filter	1	
186460W	. Gasket	1	
265332W	. Gasket	1	
2300935W	. Gasket	1	

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Filter Kit, P/N: 2311167

Applies to: Winches with Power Controls, First Used on S/N AW8L-2422

Service Interval: First 250, then every 500 hours

See Section 5 in
Parts Manual

Allied P/N	Description	Quantity in Kit	Order Quantity
2311167	Filter Kit		
3001363W	. Element, Filter	1	
2304709W	. Gasket	1	
2300935W	. Gasket	1	

Filter Kit, P/N: 2311168

Applies to: Winches with Electronic Controls

Service Interval: First 250, then every 500 hours

See Section 5 in
Parts Manual

Allied P/N	Description	Quantity in Kit	Order Quantity
2311168	Filter Kit		
2304112W	. Element, Filter	1	
2300935W	. Gasket	1	
2304709W	. Gasket	1	

Gasket Kit, P/N: 277341W

Applies to: All

Service Interval: Every 5,000 hours

See Section 5 in
Parts Manual

Allied P/N	Description	Quantity in Kit	Order Quantity
277341W	Gasket Kit		
60988W	. O-Ring	1	
55289W	. O-Ring	1	
151646W	. Gasket	2	
142716W	. Gasket	1	
253812W	. Gasket	1	
286044W	. Gasket	1	
257779W	. Gasket	1	
2305271W	. Gasket	1	
186460W	. Gasket	1	
2304709W	. Gasket	1	
196022W	. Gasket	1	
226359W	. Gasket	1	
265332W	. Gasket	2	
2300935W	. Gasket	1	



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Brake Assembly Kit, P/N: 2311155

Applies to: All

Service Interval: Every 5,000 hours

See Section 5 in
Parts Manual

Allied P/N	Description	Quantity in Kit	Order Quantity
2311155	Brake Assembly Kit		
328715W	. Disc, Friction	10	
261542W	. Plate, Separator	9	
79979W	. O-Ring	1	
133927W	. Ring, Piston Seal	1	
12940W	. Ring, Snap	2	
12915W	. Ring, Snap	2	

Clutch Shaft Kit, P/N: 2311156

Applies to: All, Gear Ratios 1-7

Service Interval: Every 5,000 hours

See Section 5 in
Parts Manual

Allied P/N	Description	Quantity in Kit	Order Quantity
2311156	Clutch Shaft Kit		
2310570	. Service Kit, W8L Clutch	2	
328715W	.. Disc, Friction	8	
261542W	.. Plate, Separator	8	
267499W	.. Spring	8	
224793W	.. Shim .031	4	
89777W	.. O-Ring	1	
79972W	.. O-Ring	1	
39370W	.. O-Ring	1	
95581W	. Ring, Seal	4	
21014W	. Nut, Lock	1	
174561W	. Lockwasher	1	
58938W	. Ring, Snap	2	
39674W	. O-Ring	2	
35575W	. Ring, Snap	1	
108877W	. O-Ring	2	
15885W	. O-Ring	1	

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Clutch Shaft Kit, P/N: 2311157

Applies to: All, Gear Ratios 8-10

Service Interval: Every 5,000 hours

See Section 5 in
Parts Manual

Allied P/N	Description	Quantity in Kit	Order Quantity
2311157	Clutch Shaft Kit		
2310570	. Service Kit, W8L Clutch	1	
328715W	.. Disc, Friction	8	
261542W	.. Plate, Separator	8	
267499W	.. Spring	8	
224793W	.. Shim .031	4	
89777W	.. O-Ring	1	
79972W	.. O-Ring	1	
39370W	.. O-Ring	1	
95581W	. Ring, Seal	4	
21014W	. Nut, Lock	1	
174561W	. Lockwasher	1	
58938W	. Ring, Snap	2	
39674W	. O-Ring	2	
35575W	. Ring, Snap	1	
108877W	. O-Ring	2	
2300544W	. Service Kit, Clutch	1	
328715W	.. Disc, Friction	6	
261542W	.. Plate, Separator	6	
265407W	.. Spring	8	
224793W	.. Shim .031	4	
89777W	.. O-Ring	1	
79972W	.. O-Ring	1	
39370W	.. O-Ring	1	

Note: Inspect all hydraulic hoses during the 5,000 hour overhaul. Replace hoses as required.

Download Allied winch parts manuals at <http://www.alliedsystems.com/pubs/pubs.htm>.

Brake Shaft Bearing Kit, P/N: 2311158

Applies to: All, Gear Ratios: 1, 3, 5, 6 and 7

Service Interval: Every 10,000 hours

See Section 5 in
Parts Manual

Allied P/N	Description	Quantity in Kit	Order Quantity
2311158	Brake Shaft Bearing Kit		
230311W	. Cup, Bearing	1	
230310W	. Cone, Bearing	1	
30080W	. Cone, Bearing	1	
30059W	. Cup, Bearing	1	



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Brake Shaft Bearing Kit, P/N: 2311159

Applies to: All, Gear Ratios: 8, 9 and 10

Service Interval: Every 10,000 hours

See Section 5 in
Parts Manual

Allied P/N	Description	Quantity in Kit	Order Quantity
2311159	Brake Shaft Bearing Kit		
12940W	. Ring, Snap	1	
230310W	. Cone, Bearing	1	
230311W	. Cup, Bearing	1	
2303572W	. Cone, Bearing	1	
2303571W	. Cup, Bearing	1	
2303557W	. Cup, Bearing	1	
2303558W	. Cone, Bearing	1	
30080W	. Cone, Bearing	1	
30059W	. Cup, Bearing	1	
2303570W	. Washer	1	

Clutch Shaft Bearing Kit, P/N: 2311160

Applies to: All, Gear Ratios: 1-6,
Last Used on S/N AW8L-3494

Service Interval: Every 10,000 hours

See Section 5 in
Parts Manual

Allied P/N	Description	Quantity in Kit	Order Quantity
2311160	Clutch Shaft Bearing Kit		
230405W	. Cone, Bearing	1	
230351W	. Cup, Bearing	2	
230407W	. Bearing	2	
225262W	. Cone, Bearing	1	
44316W	. Bearing	1	

Clutch Shaft Bearing Kit, P/N: 2311162

Applies to: All Gear Ratios: 1-6,
First Used on S/N AW8L-3495

Service Interval: Every 10,000 hours

See Section 5 in
Parts Manual

Allied P/N	Description	Quantity in Kit	Order Quantity
2311162	Clutch Shaft Bearing Kit		
230405W	. Cone, Bearing	1	
230351W	. Cup, Bearing	2	
230407W	. Bearing	2	
225262W	. Cone, Bearing	1	
41216W	. Bearing	1	

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Clutch Shaft Bearing Kit, P/N: 2311161

Applies to: All, Gear Ratio: 7,
Last Used on S/N AW8L-3469

Service Interval: Every 10,000 hours

See Section 5 in
Parts Manual

Allied P/N	Description	Quantity in Kit	Order Quantity
2311161	Clutch Shaft Bearing Kit		
230405W	. Cone, Bearing	1	
230351W	. Cup, Bearing	2	
230407W	. Bearing	2	
225262W	. Cone, Bearing	1	
2310924	. Bearing	1	

Clutch Shaft Bearing Kit, P/N: 2311162

Applies to: All, Gear Ratio: 7,
First Used on S/N AW8L-3470

Service Interval: Every 10,000 hours

See Section 5 in
Parts Manual

Allied P/N	Description	Quantity in Kit	Order Quantity
2311162	Clutch Shaft Bearing Kit		
230405W	. Cone, Bearing	1	
230351W	. Cup, Bearing	2	
230407W	. Bearing	2	
225262W	. Cone, Bearing	1	
41216W	. Bearing	1	

Clutch Shaft Bearing Kit, P/N: 2311163

Applies to: All, Gear Ratios: 8, 9 and 10.

Service Interval: Every 10,000 hours

See Section 5 in
Parts Manual

Allied P/N	Description	Quantity in Kit	Order Quantity
2311163	Clutch Shaft Bearing Kit		
230351W	. Cup, Bearing	2	
225262W	. Cone, Bearing	1	
230407W	. Bearing	1	
44326W	. Bearing	1	
2303554W	. Cup, Bearing	4	
2303555W	. Cone, Bearing	4	
2303556W	. Cone, Bearing	1	
2303650W	. Bearing	1	



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Drum & Intermediate Shaft Bearing and Seal Kit, P/N: 2311164

Applies to: All

Service Interval: Every 10,000 hours

See Section 5 in
Parts Manual

Allied P/N	Description	Quantity in Kit	Order Quantity
2311164	Drum & Intermdiate Shaft Bearing and Seal Kit		
30091W	. Cup, Bearing	2	
230309W	. Cone, Bearing	2	
96437W	. Bearing	1	
78022W	. Bearing	1	
44484W	. Seal, Oil	1	
141149W	. Seal, Oil	1	
46629W	. O-Ring	1	
15881W	. O-Ring	1	

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Miscellaneous Parts

In addition to the kits listed on the previous pages, Allied Systems Company recommends that you stock the following items.

Allied P/N	Description	Quantity	Order Quantity
2302963W	Assembly, Gear Pump - Ratios 1-7 (Overwind) / Ratios 8-10 (Underwind)	1	
2302989W	Assembly, Gear Pump - Ratios 8-10 (Overwind) / Rotios 1-7 (Underwind)	1	
2310255	Valve, Relief	1	
2310260	. Kit, Seal	1	
2310252	Valve, Cartridge	2	
2310258	. Kit, Seal	1	
2310253	Valve, Cartridge	1	
2310259	. Kit, Seal	1	
2310254	Valve, Proportional	3	
2310261	. Kit, Seal	1	
2307769W	Valve, Cartridge (When Freespool Cartridge Valve is Used)	1	
2310261	. Kit, Seal	1	
2307770W	Coil, Valve - 24VDC (Used on S/N AW8L-3130 thru -3778)	3	
2310259	. Kit, Seal	1	
2310256	Coil, Proportional Valve - 24VDC (Used on S/N AW8L-3130 thru -3778)	3	
2311558	Coil, Valve - 24VDC (First Used on S/N AW8L-3779)	3	
2310259	. Kit, Seal	1	
2311559	Coil, Proportional - 24VDC, (First Used on S/N AW8L-3779)	3	
WR7-234J	Assembly, Wire Rope - 7/8" Diameter	Length: 234 Ft (71 M)	
WR7-354J	Assembly, Wire Rope - 7/8" Diameter	Length: 354 Ft (108 M)	
WR8-182J	Assembly, Wire Rope - 1" Diameter	Length: 182 Ft (55 M)	
WR8-275J	Assembly, Wire Rope - 1" Diameter	Length: 275 Ft (84 M)	
WR9-145J	Assembly, Wire Rope - 1 1/8" Diameter	Length: 145 Ft (44 M)	
WR9-220J	Assembly, Wire Rope - 1 1/8" Diameter	Length: 220 Ft (67 M)	
95959W	Pin, Drawbar	1	
2303221W	Pin, Retaining	1	

Additional Tractor Type Specific Parts - For Winches Mounted on Caterpillar D7G Series II

In addition to the kits listed on the previous pages, Allied Systems Company recommends that you stock the following items as applicable to your winch.

Allied P/N	Description	Quantity	Order Quantity
303943W	Cable, Push/Pull Control	1	
2305979W	Handlever, Push/Pull Control	1	
79389W	Seal, Oil	1	
45310W	Bearing, Ball	1	



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Additional Tractor Type Specific Parts - For Winches Mounted on Komatsu D85ESS-2

In addition to the kits listed on the previous pages, Allied Systems Company recommends that you stock the following items as applicable to your winch.

Allied P/N	Description	Quantity	Order Quantity
303944W	Cable, Push/Pull Control	1	
2303984W	Handlever, Push/Pull Control	1	
2302056W	Assembly, Driveshaft	1	
2302627W	. Driveshaft	1	
2302628W	. Assembly, Slip Yoke	1	
2301006W	. Assembly, Spider & Bearing	2	
90937W	O-Ring	1	
30145W	Cone, Roller Bearing	2	
30068W	Cup, Roller Bearing	2	
2300423W	Yoke, PTO	1	

Tool Kits

Order these Tool Kits as required for installation, maintenance and service of your winch(es).

Allied P/N	Description	Order Quantity
588466	Socket Set, 3/8DR 3/8" to 7/8" STD/Deep, 22 PC	
588467	Socket Set, 1/2DR 3/8" to 1-1/4" STD/Deep, 30 PC	
588468	Socket Set, 3/4DR 7/8" to 2-3/8" STD, 29 PC	
588469	Wrench Set, 5/16" to 2-1/2", 31 PC	
588527	Hex Key Sets, .025" to 5/8", 18 PC	
588530	Socket Sets, 3/8DR 6mm-19mm 12 Point	
588529	Socket Sets, 1/2DR 10mm-26mm 12 Point	
588528	Wrench Sets, 7mm-24mm, 18 PC	
588526	Hex Key Sets, .07mm-17mm, 15 PC	

Specialized Tools

Order these specialized tools for installation, maintenance and service of your winch(es).

Allied P/N	Description	Order Quantity
X-201962	Lifting Device	
X-203345	Clutch Shaft Locknut Socket	
X-203346	Clutch Shaft Driver	
X-203348	Lifting Eye	


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Diagnostic Tools

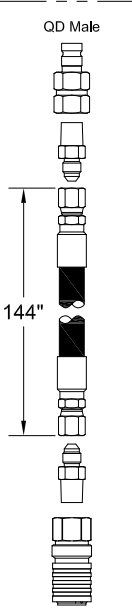
Order these Tools as required for maintenance and service of your winch(es).

Allied P/N	Description	Order Quantity
906601	0 to 8700 PSI Digital Pressure Gauge W/Female QD Connector	
69782	72" Hose Assembly W/QD Connectors Both Ends	
70381	144" Hose Assembly W/QD Connectors Both Ends	
69778	Multi-Meter, 12 Function	



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

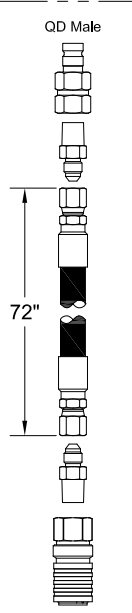


QD Male

144"

QD Female

70381
Kit, Hose Assembly, W/QD Both Ends

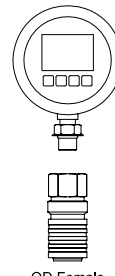


QD Male

72"

QD Female

69782
Kit, Hose Assembly, W/QD Both Ends



QD Female

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