

# REPAIR KITS

## Hydraulic Steering

November 2012

To order a repair kit, use the basic model number of the product followed by -RK. For example, a repair kit for a 7005-ALT is 7005-RK.

The Parts Discount applies to all repair kits.  
All repair kits are stock items

## **Repair Kits**

**Viton seals are recommended when the oil temperature is 150 degrees Fahrenheit or higher.**

Repair kits include part numbers such as 1101-0001 and 1102-0005 for O-Rings and U-Cups. Standard seals are used wherever possible. A list of these seals is tabulated separately for information. That makes it easier to find replacement parts locally.

Repair Kits**STEERING**Model 7003

2 only	1101-0008	"O" Ring
2 only	1101-0010	"O" Ring
1 only	1101-0012	"O" Ring
3 only	1101-0015	"O" Ring
7 only	1101-0018	"O" Ring
1 only	1101-0026	"O" Ring
1 only	1101-0030	"O" Ring
1 only	1101-0156	"O" Ring
1 only	7003-7831	Front Seal

Model 7003 Front Seal Assembly

1 only	7003-0003	Front Seal Retainer
1 only	7003-7831	Front Seal
1 only	1101-0030	"O" Ring

Model 7004

2 only	1101-0010	"O" Ring
2 only	1101-0011	"O" Ring
7 only	1101-0014	"O" Ring
1 only	1101-0015	"O" Ring
2 only	1101-0017	"O" Ring
1 only	1101-0029	"O" Ring
1 only	1101-0030	"O" Ring
1 only	1101-0046	"O" Ring
1 only	1102-4021	"U" Cup

Model 7004 Front Seal Assembly

1 only	7004-1005	Seal Retainer
1 only	1101-0030	"O" Ring
1 only	1102-4021	"U" Cup

Model 7005

2 only	1101-0010	"O" Ring
2 only	1101-0011	"O" Ring
1 only	1101-0012	"O" Ring
3 only	1101-0017	"O" Ring
7 only	1101-0022	"O" Ring
1 only	1101-0029	"O" Ring
1 only	1101-0032	"O" Ring
1 only	1101-0158	"O" Ring
1 only	7005-11130	Front Seal

Model 7005 Front Seal Assembly

1 only	7005-0003	Front Seal Retainer
1 only	7005-11130	Front Seal
1 only	1101-0032	"O" Ring

**Model 7012**

2 only	1101-0010	"O" Ring
1 only	1101-0012	"O" Ring
2 only	1101-0014	"O" Ring
1 only	1101-0017	"O" Ring
2 only	1101-0021	"O" Ring
7 only	1101-0026	"O" Ring
1 only	1101-0031	"O" Ring
1 only	1101-0032	"O" Ring
1 only	1101-0163	"O" Ring
1 only	7005-11130	Front Seal

**Model 7012 Front Seal Assembly**

1 only	7012-0003	Front Seal Retainer
1 only	7005-11130	Front Seal
1 only	1101-0032	"O" Ring

**Model 7020**

1 only	1101-0011	"O" Ring
2 only	1101-0012	"O" Ring
2 only	1101-0015	"O" Ring
1 only	7020-0008	Seal
1 only	7020-0009	Seal

**Model 7030**

1 only	1101-0016	"O" Ring
2 only	1101-0024	"O" Ring
2 only	1102-0018	"U" Cup
2 only	1102-2006-H	"U" Cup

**Model 7031**

2 only	1101-0008	"O" Ring
2 only	1101-0010	"O" Ring
3 only	1101-0015	"O" Ring
1 only	1101-0026	"O" Ring
1 only	1101-0046	"O" Ring
1 only	1102-2020	"U" Cup
5 only	1101-0014	"O" Ring

**Model 7032**

1 only	1101-0016	"O" Ring
2 only	1101-0024	"O" Ring
2 only	1102-0018	"U" Cup
2 only	1102-2006-H	"U" Cup

**Model 7033**

2 only	1101-0125	"O" Ring
1 only	1101-0018	"O" Ring
2 only	1102-0026	"U" Cup
2 only	1102-3008	"U" Cup

**Model 7040-B or 7040-BX**

1 only	1101-0016	"O" Ring
2 only	1101-0125	"O" Ring
2 only	1102-0026	"U" Cup
2 only	1102-2006-H	"U" Cup
1 only	7040-0013	Wear Ring

**Model 7040-ULT (bal)**

1 only	1101-0029	"O" Ring
1 only	1102-6010	Wiper
1 only	7040-B-RK	7040-B Repair Kit

**Model 7040-T**

1 only	1101-0016	"O" Ring
2 only	1101-0125	"O" Ring
1 only	1101-0224	"O" Ring
2 only	1102-2006-H	"U" Cup
2 only	1102-0026	"U" Cup
1 only	1102-6010	Wiper
1 only	7040-0013	Wear Ring

**Model 7040-U or 7040-UX**

1 only	1101-0014	"O" Ring
2 only	1101-0125	"O" Ring
2 only	1102-0026	"U" Cup
1 only	1102-2006-H	"U" Cup
1 only	7040-0013	Wear Ring

**Model 7040-ULT (unbal)**

1 only	1101-0029	"O" Ring
1 only	1102-6010	Wiper
1 only	7040-U-RK	7040-U Repair Kit

**Model 7050-B and 7050-BX**

1 only	1101-0018	"O" Ring
2 only	1101-0133	"O" Ring
2 only	1102-0029	"U" Cup
2 only	1102-2007	"U" Cup
1 only	7050-0013	Wear Ring

**Model 7050-B-ULT**

2 only	1101-0033	"O" Ring
1 only	1102-6012	Wiper
1 only	7050-B-RK	7050-B Repair Kit

**Model 7050-U and 7050-UX**

1 only	1101-0016	"O" Ring
2 only	1101-0133	"O" Ring
2 only	1102-0029	"U" Cup
1 only	1102-2007	"U" Cup
1 only	7050-0013	Wear Ring

**Model 7050-U-ULT**

2 only	1101-0033	"O" Ring
1 only	1102-6012	"Wiper
1 only	7050-U-RK	7050-U Repair Kit

**Model 7065-B**

1 only	1101-0120	"O" Ring
2 only	1101-0141	"O" Ring
2 only	1102-0032	"U" Cup
2 only	1102-2009-H	"U" Cup
1 only	7065-0013	Wear Ring

**Model 7065-U**

1 only	1101-0118	"O" Ring
2 only	1101-0141	"O" Ring
2 only	1102-0032	"U" Cup
1 only	1102-2009-H	"U" Cup
1 only	7065-0013	Wear Ring

**Model 7065-SB**

2 only	1101-0010	"O" Ring
1 only	1101-0014	"O" Ring
2 only	1101-0020	"O" Ring
4 only	1102-0005-B	"U" Cup
2 only	1102-0062-B	"U" Cup
2 only	1102-2007	"U" Cup
2 only	1102-3005B	"U" Cup
1 only	1024-0510	Spring Pin
1 only	7147-0060	Gasket
1 only	7065-B-RK	7065-B Repair Kit

**Model 7067-U**

1 only	1101-0031	"O" Ring
1 only	1101-0118	"O" Ring
2 only	1101-0141	"O" Ring
1 only	1102-2021	"U" Cup
2 only	1102-2032	"U" Cup
1 only	1102-6020	Rod Wiper
1 only	7065-0013	Wear Ring

**Model 7080-B** (Standard repair kit for balanced 7080)

1 only	1101-0218	"O" Ring
2 only	1101-0232	"O" Ring
2 only	1102-2021	"U" Cup
2 only	1102-2035	"U" Cup
1 only	7080-0013	Wear Ring

**Model 7080-BX**

1 only	1101-0218	"O" Ring
2 only	1101-0232	"O" Ring
2 only	1102-0035	"U" Cup
2 only	1102-2021	"U" Cup
1 only	7080-0013	Wear Ring

**Model 7080-U**

2 only	1101-0232	"O" Ring
1 only	1101-0214	"O" Ring
1 only	1102-2021	"U" Cup
2 only	1102-2035	"U" Cup
1 only	7080-0013	Wear Ring

**Model 7080-UX**

2 only	1101-0232	"O" Ring
1 only	1101-0214	"O" Ring
1 only	1102-2021	"U" Cup
2 only	1102-0035	"U" Cup
1 only	7080-0013	Wear Ring

**Model 7085-B**

1 only	1101-0222	"O" Ring
2 only	1101-0236	"O" Ring
2 only	1102-2037	"U" Cup
2 only	1102-2028	"U" Cup
1 only	7085-0041	Wear Ring

**Model 7085-BX**

1 only	1101-0222	"O" Ring
2 only	1101-0236	"O" Ring
2 only	1102-0038	"U" Cup
2 only	1102-2028	"U" Cup
1 only	7085-0041	Wear Ring

**Model 7085-SU**

2 only	1101-0024	"O" Ring	
1 only	1101-0016	"O" Ring	
2 only	1101-0109	"O" Ring	
1 only	1101-0216	"O" Ring	
2 only	1101-0236	"O" Ring	
2 only	1102-0005B	"U" Cup	(After Jan 2012)
4 only	1102-0007B	"U" Cup	(After Jan 2012)
2 only	1102-2020	"U" Cup	
2 only	1102-2037	"U" Cup	
1 only	1102-2028	"U" Cup	
2 only	1102-2006-H	"U" Cup	
1 only	7085-0041	Wear Ring	
1 only	7085-0042	Gasket	
1 only	1024-0810	Spring Pin	

**Model 7085-SB**

2 only	1101-0024	"O" Ring	
1 only	1101-0016	"O" Ring	
2 only	1101-0109	"O" Ring	
1 only	1101-0222	"O" Ring	
2 only	1101-0236	"O" Ring	
2 only	1102-0005B	"U" Cup	(After Jan 2012)
4 only	1102-0007B	"U" Cup	(After Jan 2012)
2 only	1102-2020	"U" Cup	
2 only	1102-2037	"U" Cup	
2 only	1102-2028	"U" Cup	
2 only	1102-2006-H	"U" Cup	
1 only	7085-0041	Wear Ring	
1 only	7085-0042	Gasket	
1 only	1024-0810	Spring Pin	

**Model 7085-U**

1 only	1101-0216	"O" Ring	
2 only	1101-0236	"O" Ring	
1 only	1102-2028	"U" Cup	
2 only	1102-2037	"U" Cup	
1 only	7085-0041	Wear Ring	

**Model 7085-SA** (Spool assembly only)

2 only	1101-0109	"O" Ring	
2 only	1102-0005B	"U" Cup	
4 only	1102-0007B	"U" Cup	
1 only	7085-0042	Gasket	
1 only	1024-0810	Spring pin	

**Model 7085-S** (Servo cylinder only)

1 only	1101-0016	"O" Ring	
2 only	1101-0024	"O" Ring	
2 only	1102-2020	"U" Cup	
2 only	1102-2006-H	"U" Cup	



**Model 7087-B**

1 only	1101-0138	"O" Ring
1 only	1101-0224	"O" Ring
2 only	1102-2031-H	"U" Cup
2 only	1102-2037	"U" Cup
2 only	1102-6028-H	Rod Wiper
1 only	7085-0041	Wear Ring

**Model 7087-U**

1 only	1101-0138	"O" Ring
1 only	1101-0218	"O" Ring
2 only	1101-0236	"O" Ring
1 only	1102-2031-H	"U" Cup
2 only	1102-2037	"U" Cup
1 only	1102-6028-H	Rod Wiper
1 only	7085-0041	Wear Ring

**Model 7090-U**

1 only	1101-0222	"O" Ring
1 only	1101-0231	"O" Ring
2 only	1101-0244	"O" Ring
1 only	1102-2050-H	"U" Cup
2 only	1102-2054	"U" Cup
1 only	1102-6036	Rod Wiper
1 only	7090-0009	Wear Ring

**Model 7093-B**

1 only	1101-0224	"O" Ring
2 only	1101-0240	"O" Ring
2 only	1102-2053	"U" Cup
2 only	1102-2058	"U" Cup (remove insert)
1 only	7093-0013	Wear Ring

**Model 7093-U**

1 only	1101-0218	"O" Ring
2 only	1101-0240	"O" Ring
2 only	1102-2053	"U" Cup
1 only	1102-2058	"U" Cup (remove insert)
1 only	7093-0013	Wear Ring

**Model 7094D**

1 only	1101-0220	"O" Ring
2 only	1101-0240	"O" Ring
2 only	1102-2053	"U" Cup
1 only	7094D-0033	V-Pack
1 only	7093-0013	Wear Ring

**Model 7094-DL**

1 only	1101-0220	"O" Ring
2 only	1101-0240	"O" Ring
2 only	1102-2053	"U" Cup
1 only	7094-0033	V-Pack (special)
1 only	7093-0013	Wear Ring

**Model 7095 (sand cast)**

2 only	1101-0222	"O" Ring
2 only	1101-0248	"O" Ring
2 only	1102-2055	"U" Cup
1 only	7094-0033	V-Pack (special)
1 only	7095-0032	Wear Ring

**Model 7095D (die cast)**

2 only	1101-0224	"O" Ring
2 only	1101-0248	"O" Ring
2 only	1102-2055	"U" Cup
1 only	7095D-0033	V-Pack (special)
1 only	7095-0032	Wear Ring

**Model 7096**

Same as 7096

**Model 7096D (die cast)**

1 only	1101-0230	"O" Ring
2 only	1101-0256	"O" Ring
2 only	1102-2045	"U" Cup
1 only	7096-0032	Wear Ring
1 only	7096-0033	"V" Packing

**Model 7120**

2 only	1101-0014	"O" Ring
2 only	1101-0016	"O" Ring
1 only	7120-0008	Gasket
1 only	7120-0009	Gasket
2 only	7120-0010	Gasket

**Model 7142**

1 only	1101-0016	"O" Ring
2 only	1101-0125	"O" Ring
1 only	1101-0224	"O" Ring
2 only	1102-0026	"U" cup
2 only	1102-0064	"U" cup
2 only	1102-2006-H	"U" Cup
1 only	7040-0013	Wear Ring

**Model 7143**

1 only	1101-0020	"O" Ring
1 only	1101-0026	"O" Ring
1 only	1101-0206	"O" Ring

**Model 7144**

1 only	1101-0006	"O" Ring
1 only	1101-0010	"O" Ring
2 only	1101-0012	"O" Ring
1 only	1101-0016	"O" Ring
2 only	7144-0006	Gasket

**Not Supplied:** 4 only "O" Rings per solenoid.

**Model 7145**

1 only	1101-0006	"O" Ring
2 only	1101-0011	"O" Ring
2 only	1101-0012	"O" Ring
1 only	7145-0008	Gasket
1 only	7145-0009	Gasket
1 only	7145-0010	Gasket
2 only	7145-0011	Gasket
1 only	7145-0012	Gasket
1 only	7145-0013	Gasket

**Not Supplied:** 4 only "O" Rings per solenoid. Total of 8.

**Model 7146**

1 only	1101-0012	"O" Ring
2 only	1101-0018	"O" Ring
1 only	7146-0017	Gasket

**Model 7147**

2 only	1101-0010	"O" Ring	
1 only	1101-0014	"O" Ring	
2 only	1101-0020	"O" Ring	
1 only	1101-0022	"O" Ring	
2 only	1101-0133	"O" Ring	
4 only	1102-0005B	"U" Cup	
2 only	1102-0029	"U" Cup	
2 only	1102-0062B	"U" Cup	
2 only	1102-2007	"U" Cup	*replaced 1102-2007 with 1102-0007
2 only	1102-2009-H	"U" Cup	for 7147-RK-HELMSMAN
2 only	1102-3005B	"U" Cup	
1 only	7050-0013	Wear ring	
1 only	7147-0060	Gasket	
1 only	1024-0510	Spring Pin	

**Model 7148**

5 only	1101-0010	"O" Ring	
2 only	1101-0012	"O" Ring	
1 only	1101-0014	"O" Ring	
2 only	1101-0015	"O" Ring	
2 only	1101-0016	"O" Ring	
2 only	1101-0017	"O" Ring	
2 only	1101-0021	"O" Ring	
2 only	1101-0022	"O" Ring	
1 only	1101-0116	"O" Ring	
2 only	1101-0228	"O" Ring	
4 only	1102-0007	"U" Cup	
2 only	1102-0057	"U" Cup	
4 only	1102-2009	"U" Cup	
1 only	1102-3007	"U" Cup	
1 only	7148-0068	Wear Ring	
1 only	7148-0073	Gasket	Channel (long)
1 only	7148-0074	Gasket	Channel (short)
1 only	7148-0075	Gasket	Solenoid supply
1 only	7148-0076	Gasket	Return oil
1 only	7148-0077	Gasket	Left channel
2 only	7148-0078	Gasket	Servo piston
1 only	7148-0079	Gasket	Right channel
1 only	7148-0090	Gasket	Return cover
2 only	7005-0031	Spring seat	
2 only	7012-0031	Spring seat	

**Model 7158**

7 only	1101-0010	"O" Ring	
2 only	1101-0016	"O" Ring	
2 only	1101-0017	"O" Ring	
2 only	1101-0022	"O" Ring	
1 only	1101-0024	"O" Ring	
2 only	1101-0028	"O" Ring	
2 only	1101-0030	"O" Ring	
1 only	1101-0116	"O" Ring	
2 only	1101-0224	"O" Ring	
2 only	1101-0228	"O" Ring	
4 only	1102-0007	"U" Cup	
2 only	1102-0009	"U" Cup	
1 only	1102-0011	"U" Cup	
2 only	1102-0057	"U" Cup	
2 only	1102-2026	"U" Cup	
1 only	7158-0029	Gasket	Main spool
1 only	7158-0031	Gasket	Manifold plate to right
1 only	7158-0032	Gasket	Manifold plate to left
4 only	7158-0033	Gasket	Spool valve
2 only	7158-0034	Gasket	Manifold extension plate
1 only	7148-0075	Gasket	Solenoid supply
1 only	7148-0076	Gasket	Return oil
1 only	7148-0077	Gasket	Left channel
2 only	7148-0078	Gasket	Servo piston

1 only	7148-0079	Gasket	Right channel
<b><u>Model 7170</u></b>			
4 only	1101-0008	"O" Ring	
1 only	1101-0014	"O" Ring	
1 only	1101-0042	"O" Ring	
<b><u>Model 7171</u></b>			
1 only	1101-0014	"O" Ring	
1 only	7171-0026	Seal	
<b><u>Model 7174</u></b>			
1 only	1101-0016	"O" Ring	
1 only	7174-0027	Gasket	
<b><u>Model 7201</u></b>			
3 only	1101-0006	"O" Ring	
5 only	1101-0012	"O" Ring	
3 only	1101-0015	"O" Ring	
2 only	1101-0017	"O" Ring	
1 only	1101-0039	"O" Ring	
1 only	7201-3680	Seal	