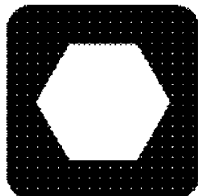


2300

Parts Manual



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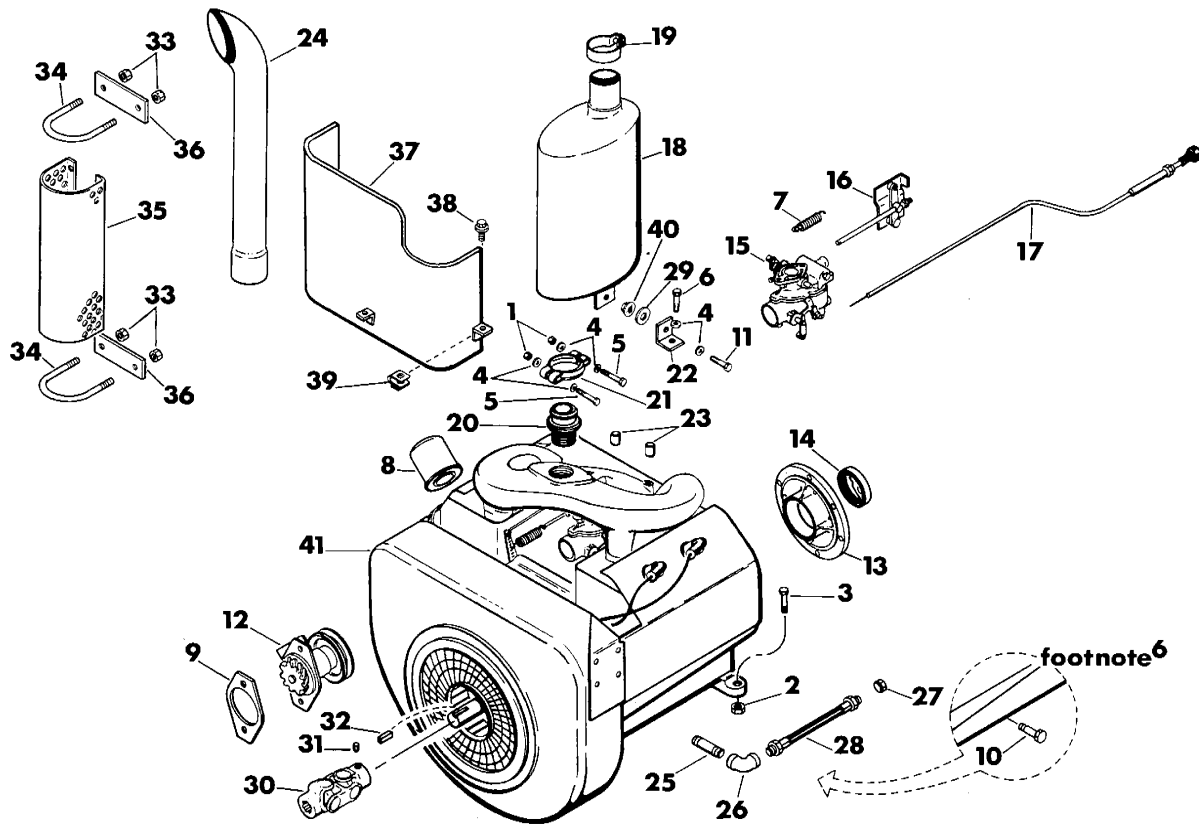
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WISCONSIN ENGINE



Ref. No.	Part Number	Qty.	Description
1.	105-047	2	Locknut (3/8-NC)
2.	105-833	4	Flange Locknut (1/2-NC)
3.	105-229	4	Bolt (1/2-NC x 2")
4.	105-118	8	Washer (3/8")
5.	105-183	2	Bolt (3/8-NC x 2-1/2")
6.	105-052	2	Bolt (3/8-NC x 1-1/4")
7.	115-592	1	Extension Spring
8.	155-913	1	² Oil Filter
	159-019	1	³ Oil Filter
9.	165-631	1	Gasket
10.	115-244	1	⁶ Drain Plug
11.	105-032	2	Bolt (3/8-NC x 3/4")
12.	195-401	1	Accessory Drive (Incl. ref. no. 9)
13.	195-410	1	Bearing Plate (Incl. ref. no. 14)
14.	195-414	1	Internal Seal
15.	195-421	1	Carburetor
16.	195-425	1	Governor Control Linkage
17.	195-913	1	Choke Cable
18.	195-960	1	Muffler
19.	195-962	1	Muffler Clamp
20.	195-965	1	Muffler Adapter
21.	195-967	1	Muffler Clamp
22.	300-864	2	Muffler Support Bracket
23.	181-013	2	Sleeve
24.	195-963	1	Exhaust Tail Pipe
25.	115-103	1	⁶ Pipe Nipple (3/8-NPT M x 1-1/2")
26.	115-205	1	⁶ Pipe Elbow (3/8-NPT M)
27.	115-242	1	⁶ Pipe Cap (3/8-NPT FM)

Ref. No.	Part Number	Qty.	Description
28.	155-397	1	⁶ Hose (3/8-NPT M x 10")
29.	105-072	2	Washer (3/8")
30.	180-792	1	Double Knuckle U-Joint
31.	105-702	2	Setscrew (3/8-NC x 3/8")
32.	165-933	1	Key (1/4" SQ x 3/4")
33.	105-003	4	¹ Flange Locknut (5/16-NC)
34.	195-910	2	¹ U-Bolt
35.	196-020	1	¹ Personnel Protector (optional)
36.	301-285	2	¹ U-Bolt Plate
37.	321-827	1	¹ Heat Shield
38.	105-823	3	¹ Flange Lock Bolt (5/16-NC x 3/4")
39.	105-137	3	¹ Clip Nut (5/16-NC)
40.	105-053	2	¹ Nut (3/8-NC)
41.	195-406	1	Engine

Parts Not Shown:

- 195-359 ⁴Breaker Point Set
- 195-439 ⁵Breaker Point Set
- 195-422 ⁴Distributor Cap
- 195-423 ⁴Distributor Rotor
- 195-438 ⁵Distributor Cap and Rotor

¹These parts are used with an A220. Refer to installation diagram 050-103 for procedures necessary to mount backhoe.

²Ends with Wisconsin engine S/N 5984979 (fits oil filter base RV-40-A1).

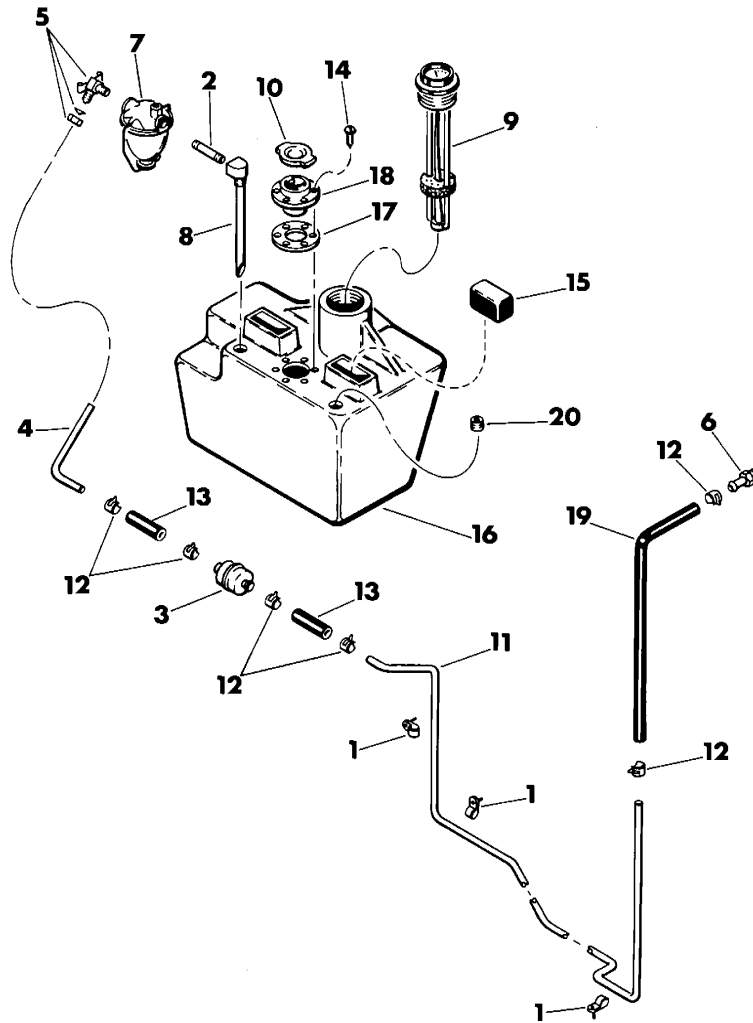
³Begins with Wisconsin engine S/N 5984980 (fits oil filter base RV-52-A1).

⁴Use of Prestolite distributor parts ends with Wisconsin engine S/N 6164220. See footnote 5.

⁵Use of Colt distributor parts begins with Wisconsin engine S/N 6164221.

⁶Early style drain plug (ref. no. 10) may be replaced by new style drain system (ref. no.'s 25 thru 28).

FUEL LINE WISCONSIN ENGINE



Ref. No.	Part Number	Qty.	Description
----------	-------------	------	-------------

1.	110-212	3	Tube Clamp (5/16")
2.	115-177	1	Pipe Nipple (1/8" x 2")
3.	155-941	1	Fuel Filter
4.	156-029	1	Fuel Line (5/16")
5.	156-214	1	Shutoff Valve (Incl. nut and ferrule)
6.	155-142	1	Reusable Coupler (1/8-NPT x 5/16" OD, STR)
7.	195-402	1	Fuel Strainer
8.	195-957	1	Pickup Tube
9.	215-126	1	Fuel Gauge
	215-127		Fuel Gauge Dial
10.	110-010	1	Fuel Cap
11.	156-030	1	Fuel Line

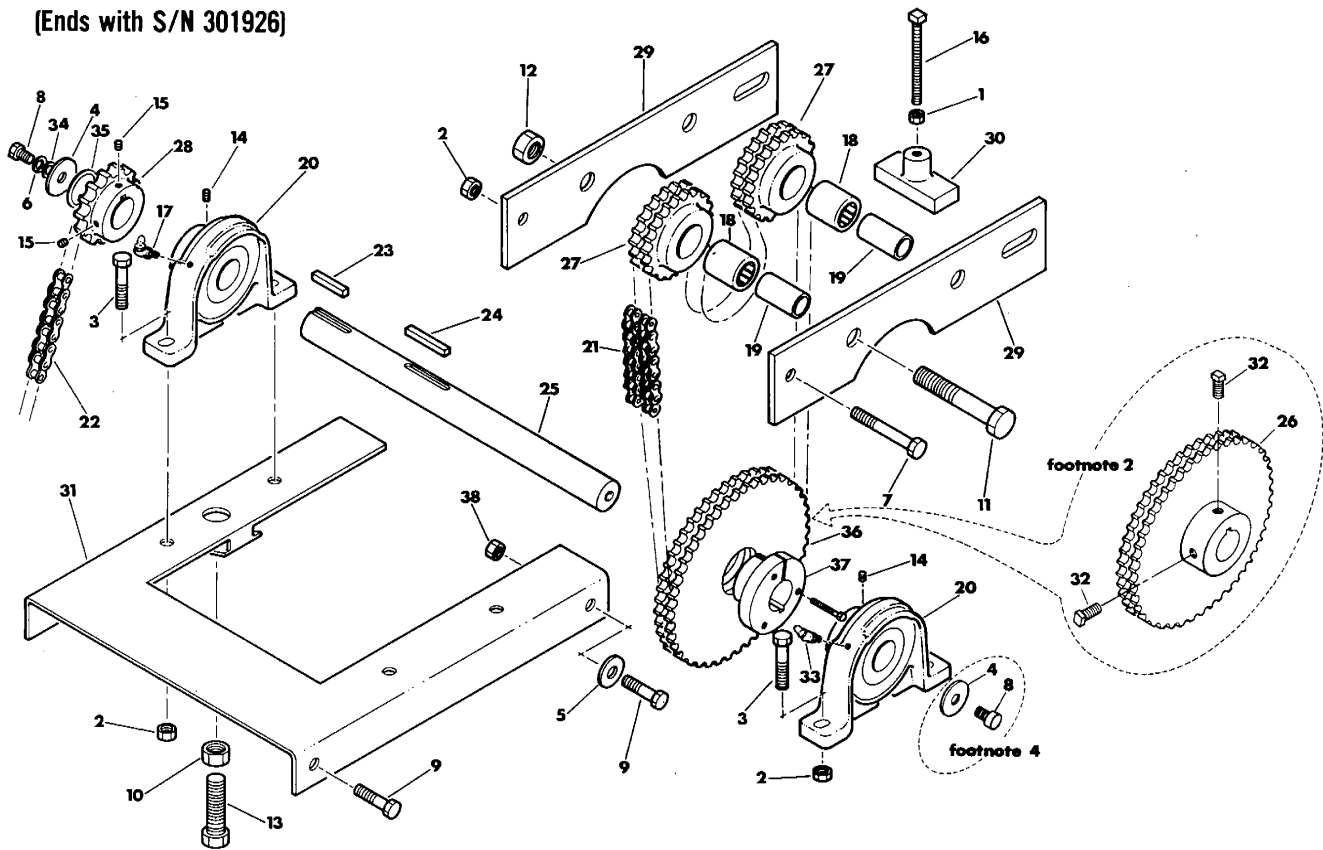
Ref. No.	Part Number	Qty.	Description
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12.	110-114	6	Hose Clamp
13.	116-108	2	Hose (.296" ID)—use 2"
14.	105-214	6	Flange Screw (No. 10-24 x 1/2")—early style
	106-069	6	Flange Screw (No. 10-16 x 1")
15.	116-112	4	Tank Pad
16.	360-728	1	Fuel Tank
17.	165-626	1	Gasket
18.	110-132	1	Filler Neck
19.	116-108	1	Hose (.296" ID)—use 12"
20.	115-157	1	Pipe Plug (1/8-NPT, ALN HD)

CHAIN IDLER and INTERMEDIATE SHAFT

DOUBLE ROW IDLER SPROCKETS

(Ends with S/N 301926)



Ref. No.	Part Number	Qty.	Description
1.	105-053	1	Nut (3/8-NC)
2.	105-065	5	Locknut (1/2-NC)
3.	105-066	4	Bolt (1/2-NC x 1-3/4")
4.	105-069	2	Washer (3/8")
5.	105-071	2	Washer (1/2")
6.	105-072	1	Lock Washer (3/8")
7.	105-082	1	Bolt (1/2-NC x 2-1/2")
8.	105-181	2	Bolt (3/8-NC x 1/2")—early style
	105-032	2	Bolt (3/8-NC x 3/4")
9.	105-319	4	Bolt (3/4-NC x 1-1/2")—early style
	105-208	4	Bolt (1/2-NC x 1-1/4")
10.	105-310	1	Jam Nut (3/4-NC)
11.	105-321	2	Bolt (3/4-NC x 3")
12.	105-372	2	Locknut (3/4-NC)
13.	105-499	1	Bolt (3/4-NC x 1-3/4")
14.	105-702	2	Setscrew (3/8-NC x 3/8")
15.	105-704	2	Setscrew (5/16-NC x 1/4")
	105-701	2	Setscrew (5/16-NC x 3/8")—replacements
16.	105-706	1	Setscrew (3/8-NC x 3")
17.	115-005	1	Zerk (1/4-NF x 90°)
18.	125-322	2	Bearing (1" ID x 1.3125" OD)
19.	125-323	2	Race (.75" ID x 1" OD)
20.	125-503	2	⁵ Pillow Block Bearing (1.25" ID)— Incl. ref. no. 17
	125-708		Lock Collar (1.25" ID)— Incl. ref. no. 14
21.	129-906		Double Roller Chain (No.35-2, 148 P)
	129-903		Roller Link (No.35)
	129-904		Double Connector Link (No.35)
	129-905		Double Offset Link (No.35)

Ref. No.	Part Number	Qty.	Description
22.	130-123	1	Roller Chain (No. 50, 51 P)
	130-101		Connector Link (No. 50)
	130-102		Offset Link (No. 50)
	130-113		Roller Link (No. 50)
23.	165-915	1	Key (5/16" SQ x 1")
24.	165-936	1	Key (5/16" SQ x 1-1/2")
25.	167-001	1	⁴ Intermediate Shaft (1.25" OD x 11.97" LG)
26.	174-901	1	² Double Sprocket (64 T, 1.25" ID x 7" OD)—use with anaerobic adhesive
27.	174-905	2	Double Sprocket (28 T, 1.313" ID x 3.55" OD)
28.	175-268	1	Sprocket (18 T, 1.25" ID x 3.919" OD)
29.	300-813	2	Idler Sprocket Support Bar
30.	300-814	1	Chain Adjuster
31.	300-816	1	Intermediate Shaft Mount
32.	105-714	2	² Setscrew (3/8-NC x 1", SQ HD)
33.	115-006	1	Zerk (1/4-NF x 45°)
34.	105-118	AR	Washer (3/8")
35.	110-056	AR	Machinery Bushing (1-1/4" ID x 1-7/8" OD)
36.	174-907	1	³ Double Sprocket (64 T, 2.152" taper ID x 7.38" OD)—accepts bushing
37.	170-230	1	³ Sheave Bushing (1.25" ID)
	170-162		Bolt Group
38.	105-372	4	Locknut (3/4-NC)—early style
	105-065	4	Locknut (1/2-NC)

¹Ends with S/N 301188. Used when shaft is drilled and tapped on one end only.

²Ends with S/N 301509. Keyed intermediate double sprocket is replaced by tapered double sprocket and sheave bushing (ref. no.'s 36 and 37).

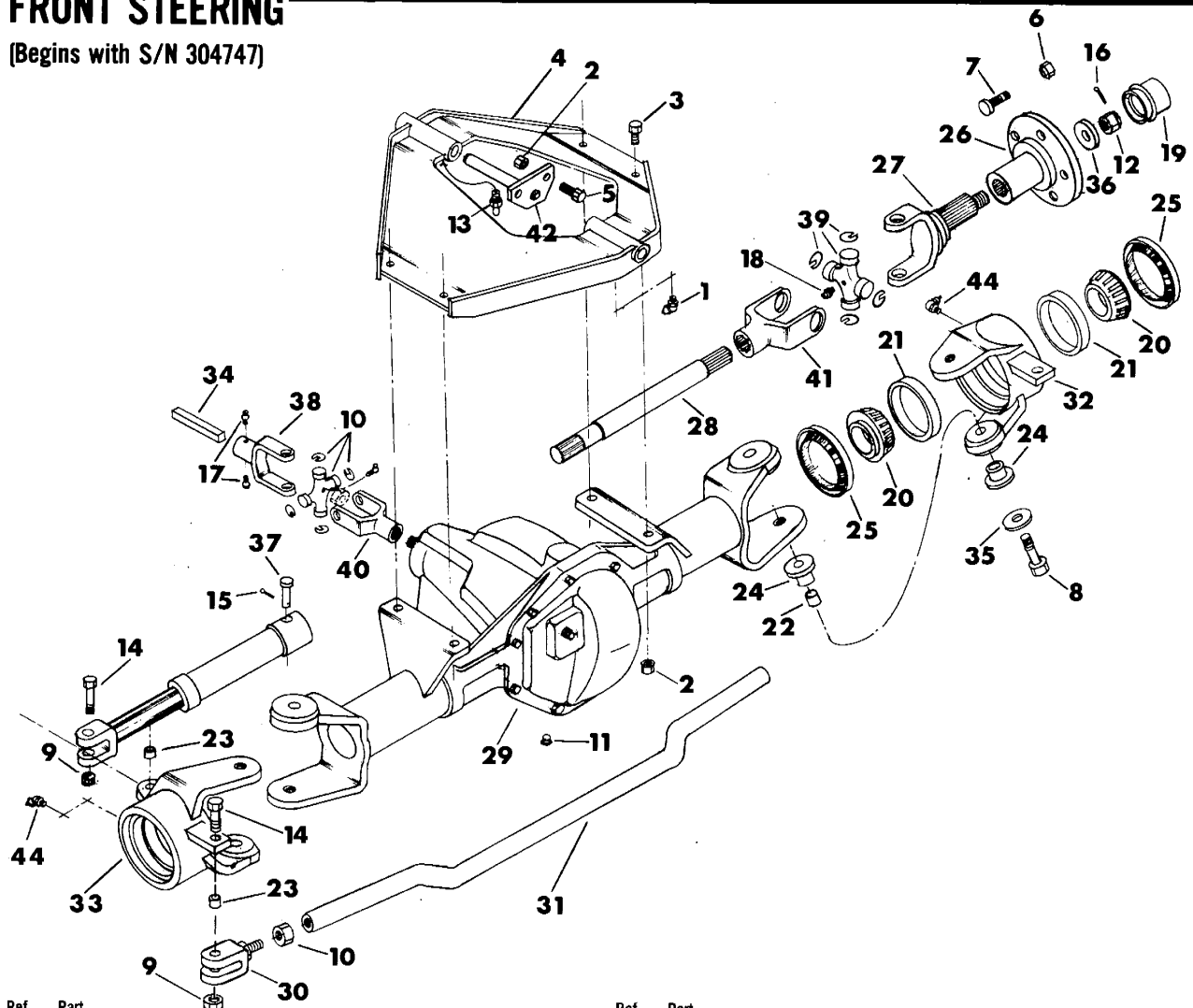
³Begins with S/N 301510.

⁴Begins with S/N 301189. Replacement intermediate shafts require bolt on both ends.

⁵Refer to special tool diagram 052-517.

FRONT STEERING

(Begins with S/N 304747)



Ref. No.	Part Number	Qty.	Description
1.	115-006	1	Zerk (1/4-NF x 45°)
2.	105-065	8	Locknut (1/2-NC)
3.	105-066	4	Bolt (1/2-NC x 1-3/4")
4.	300-809	1	Differential Mount
5.	105-121	4	Bolt (1/2-NC x 1")
6.	105-114	10	Lug Nut (1/2-NF)
7.	105-123	10	Lug Bolt (1/2-NF x 1-1/2")
8.	105-364	2	Bolt (3/4-NF x 2", Nylok)—early models
	105-432	2	Bolt (3/4-NF x 2-1/4")—use loctite
9.	105-357	3	Locknut (5/8-NC)
10.	180-723	1	Cross and Bearing (Incl. ref. no. 18)
	180-760		Bearing Cap
	115-010		Zerk (1/8-NPT x 22-1/2°)
11.	115-157	1	Pipe Plug (1/8-NPT, FM ALN HD)
12.	105-410	2	Castle Nut (3/4-NF)
13.	115-003	1	Zerk (1/4-NF, STR)
14.	105-462	3	Bolt (5/8-NC x 2-1/4")
15.	105-502	1	Cotter Pin (3/16" x 2")
16.	105-518	2	Cotter Pin (1/8" x 1-1/2")
17.	115-001	2	Zerk (1/8-NPT, STR)
18.	115-002		Zerk (1/8-NPT x 90°)
19.	205-671	2	Hub Cap
20.	125-260	4	Bearing
21.	125-261	4	Race
22.	181-552	4	Bushing
23.	125-403	3	Bronze Bushing
24.	125-735	8	Flange Bushing
25.	155-808	4	Seal

Ref. No.	Part Number	Qty.	Description
26.	160-117	2	Spindle Flange (Incl. ref. no. 7)
27.	160-380	2	Spindle Shaft (2-1/2" OD on yoke)
	105-507		Roll Pin (3/8" x 2")
28.	161-078	1	Right Front Axle (14-15/16" LG)
	161-079	1	Left Front Axle (12-15/16" LG)
29.	161-080	1	Front Differential (standard)
	161-081	1	Front Differential (limited slip)
30.	160-377	2	Tie Rod Clevis
31.	160-351	1	Tie Rod
32.	160-378	1	Left Spindle Housing
33.	160-379	1	Right Spindle Housing
34.	165-353	1	Drive Shaft (13" LG)
35.	105-422	4	Spindle Yoke Washer
36.	180-279	2	Spindle Washer
37.	180-322	1	Cylinder Barrel Pin
38.	180-710	1	Yoke
39.	182-087	2	Cross and Bearing (3.209" LG cross)— Incl. ref. no. 18
	115-500		Internal Snap Ring
40.	180-778	1	Differential Yoke
41.	182-084	2	Axle Yoke (2-1/2" OD)
42.	183-229	2	Axle Pivot Pin
43.	105-065	4	Locknut (1/2-NC)
44.	115-010	2	Zerk (1/8-NPT x 22-1/2°)

¹When replacing the differential, on machines prior to S/N 302640, order parts (ref. no.'s 8, 9, 14, 22, 23, 24, 28 thru 33 and 35). See footnote 2 and 3.
²When replacing differentials on machines from S/N 302640 thru S/N 304746 new axles (ref. no. 28) must be ordered.
³Refer to assembly instruction standard 052-182 or limited slip 052-183.

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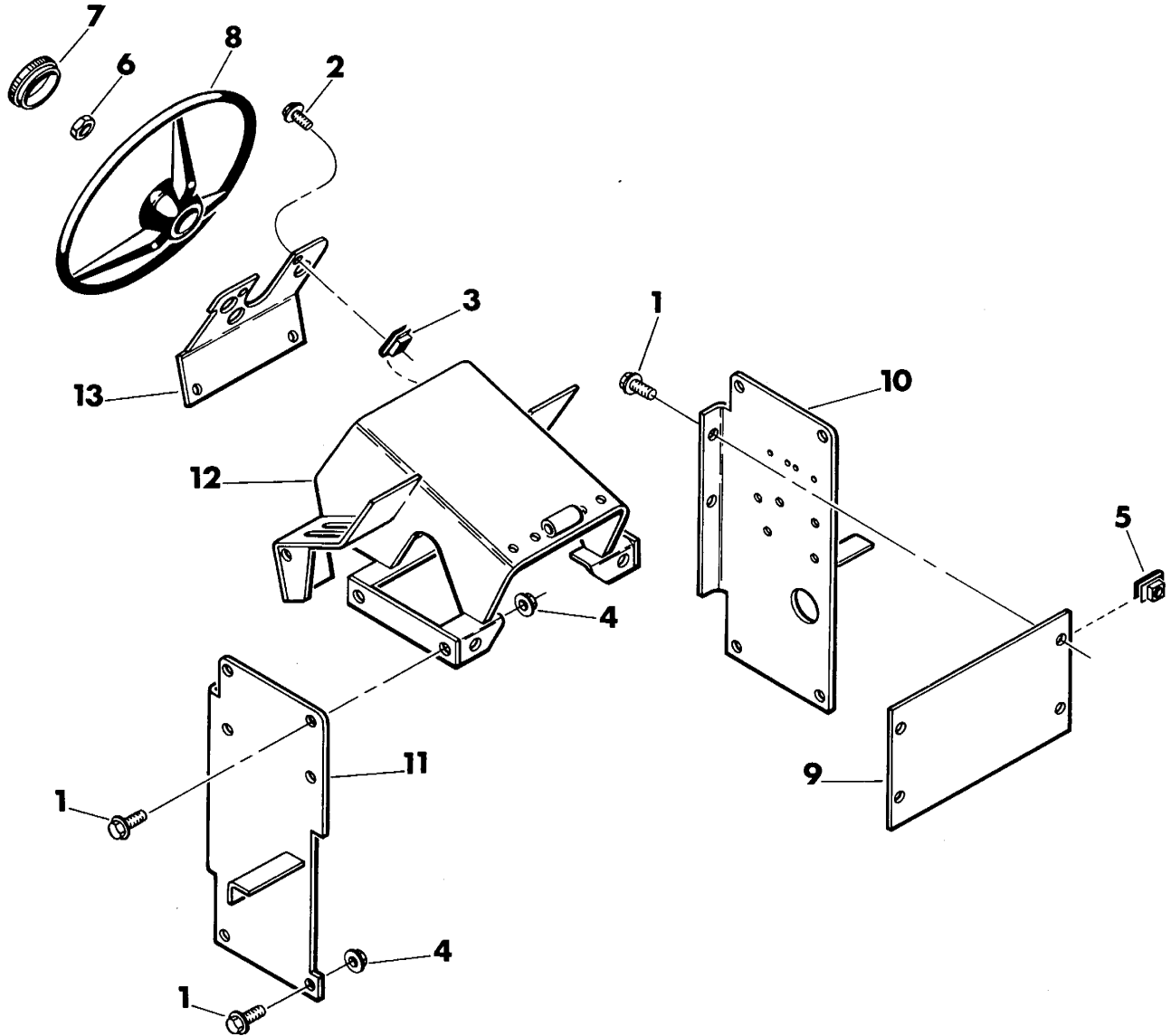
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CONSOLE DEUTZ ENGINE

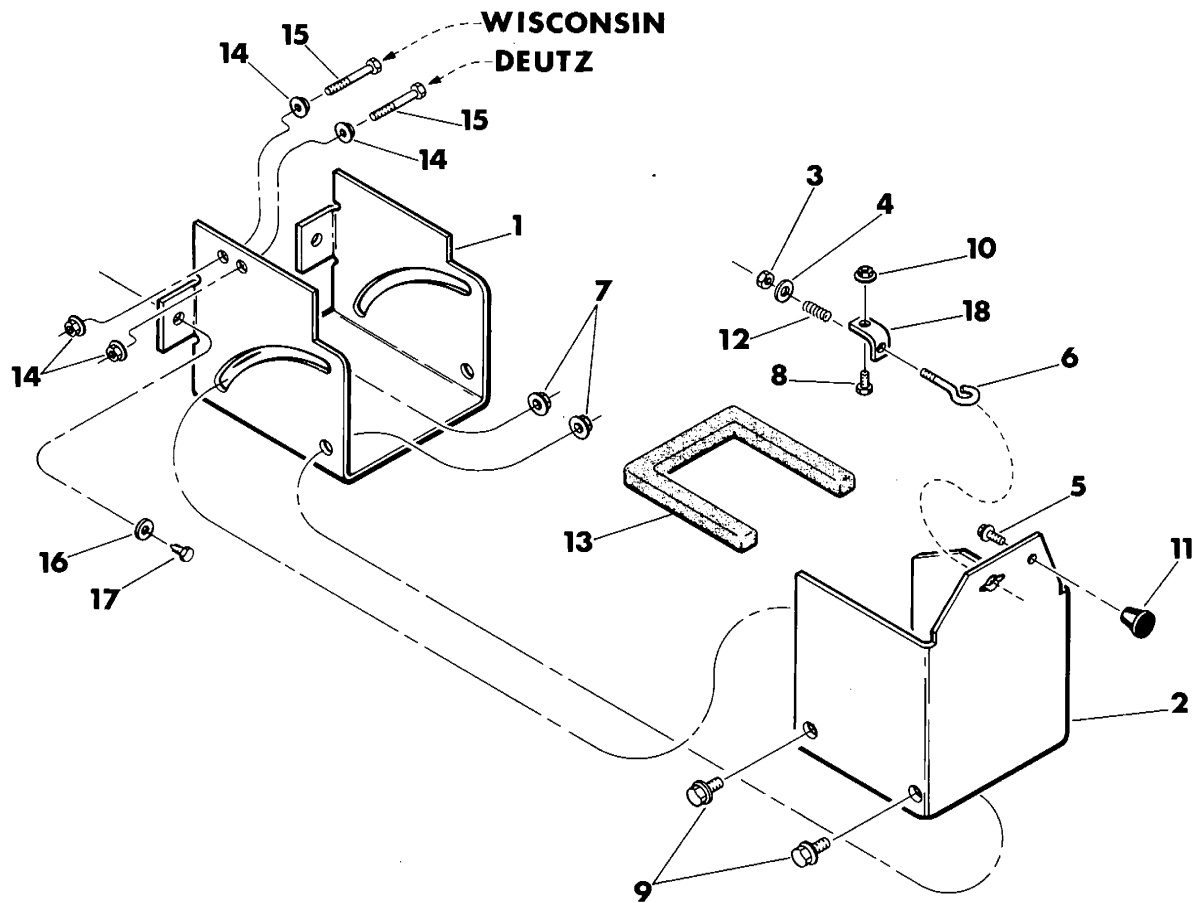


Ref. No.	Part Number	Qty.	Description
1.	105-826	16	Flange Lock Bolt (3/8-NC x 1")
2.	105-090	8	Bolt (5/16-NC x 3/4")
3.	105-137	6	Clip Nut (5/16-NC)
4.	105-233	8	Clip Nut (3/8-NC, 1/2" LG)—early style
	105-834	8	Flange Locknut (3/8-NC)
5.	105-260	8	Clip Nut (3/8-NC, 1" LG)
6.	105-361	1	Jam Nut (13/16-NEF)
7.	160-323	1	Steering Wheel Cap

Ref. No.	Part Number	Qty.	Description
8.	160-338	1	Steering Wheel
9.	300-951	1	Lower Console Panel
10.	300-791	1	Left Side Panel
11.	300-876	1	Right Side Panel
12.	300-796	1	Control Panel
	300-727	1	Control Panel (Telecom)
13.	300-932	1	Instrument Panel

BATTERY BOX

(Present Production)



Ref. No.	Part Number	Qty.	Description
1.	310-072	1	Battery Box
2.	310-073	1	Battery Box Cover
3.	105-089	1	Locknut (5/16-NC)
4.	105-117	AR	Washer (5/16")
5.	105-836	1	Flange Lock Bolt (1/4-NC x 1/2")
6.	105-257	1	Eye Bolt (5/16-NC x 2")
7.	105-814	4	Flange Locknut (3/8-NC)
8.	105-825	1	Flange Lock Bolt (3/8-NC x 3/4")
9.	105-826	4	Flange Lock Bolt (3/8-NC x 1")
10.	105-845	1	Flange Locknut (3/8-NC)
11.	1-10-071	1	Knob (1/4-NC)

Ref. No.	Part Number	Qty.	Description
12.	115-577	1	Compression Spring (1/2" OD x 1" LG)
13.	116-107	1	Weather Stripping (1" x 1-1/4")—use 24"
14.	105-003	2	Flange Locknut (5/16-NC)
15.	105-130	1	Bolt (5/16-NC x 2-1/4")
16.	105-095	3	Washer (1/4")
17.	105-231	3	Screw (1/4-NC x 3/4")
18.	360-002	1	Tab

*These parts were used on machines equipped with an A220. For procedures involved when mounting an A220 refer to installation diagram 050-103 for Wisconsin or 050-162 for Deutz.

PIVOT (Cont'd.)

Ref. No.	Part Number	Qty.	Description
29.	125-247	2	Bearing
30.	125-705	1	Lock Collar (Incl. ref. no. 17)
31.	142-005	1	¹⁴ Split Head Shaft Sprocket (2" P)
32.	145-173	1	Auger
33.	145-595	1	⁸ 12" Pivot
	145-624	1	⁸ 16" Pivot
34.	145-952	1	⁷ Pivot Adapter (single piece)
	145-963	1	⁷ Pivot Adapter (requires sleeve)
35.	155-701	1	O-Ring (-345)
36.	155-704	1	O-Ring (-224)
37.	155-801	2	Internal Seal
38.	165-901	1	Key (1/2" SQ x 2-1/2", w/45° end)
39.	167-003	1	² Head Shaft (Incl. ref. no.'s 24 and 38)—for 12" pivot
	167-004	1	² Head Shaft (Incl. ref. no.'s 24 and 38)—for 16" pivot
40.	180-026	1	Fiber Spacer
41.	180-028	1	Seal Spacer
42.	181-672	1	² Spacer (for 12" pivot)
	180-040	1	² Spacer (for 16" pivot)
43.	180-105	1	Spacer (for 16" pivot)
44.	180-339	1	⁴ Double Arm Pin (3/4" OD x 5" LG)
	180-560	1	⁵ Double Arm Pin (3/4" OD x 6" LG)
45.	180-347	1	⁶ Pivot Lock Pin
46.	180-524	1	Barrel Pin
47.	181-267	1	Sprocket Hub
48.	181-302	1	Auger Spacer
49.	183-138	1	¹² Rod Pin (uses clip ring)
50.	300-869	1	Bearing Support
	190-332		³ Outboard Bearing Kit (Incl. ref. no.'s 1, 3, 4, 5, 15, 17, 19, 21, 23, 27, 30 and 50)
51.	145-954	1	⁷ Sleeve (2-9/16" LG)
52.	105-024	1	⁹ Bolt (3/8-NC x 3/4", Nylok)
53.	183-459	1	¹⁰ Pivot Cylinder Pin
54.	302-056	1	¹⁰ Mounting Plate
55.	115-001	1	Zerk (1/8-NPT, STR)—early pivots
	115-003	1	Zerk (1/4-NF, STR)

Ref. No.	Part Number	Qty.	Description
56.	361-890	1	⁹ Offset Pivot Link (single arm)
57.	145-653	1	⁹ 12" Pivot
	145-654	1	⁹ 16" Pivot
58.	105-070	1	Lock Washer (1/2")
59.	110-126	1	Clamp (7/16")
60.	105-069	1	¹¹ Washer (3/8")
61.	105-024	1	¹¹ Bolt (3/8-NC x 3/4", nylok)
62.	183-536	1	¹¹ Pin (4.6" LG)
63.	365-035	1	¹³ Centered Link (double arm)
64.	183-551	1	¹³ Rod Pin (bolt)
65.	105-024	1	¹³ Bolt (3/8-NC x 3/4", Nylok)
66.	105-069	1	¹³ Washer (3/8")

Not Shown:

140-555	Pivot Stub (weld on replacement)
145-428	Rock Guard (weld on replacement)
180-309	Pivot Pin (weld on replacement for early style pivots)

¹The proper amount of spacing is provided by machinery bushings when the fiber spacer is able to turn freely between seal spacer and end of pivot tube.

²Refer to 052-128 installation diagram for replacing races on headshaft.

³Refer to installation diagram 050-021.

⁴Early style double arm pin and cotter pin. See footnote 5.

⁵This early style pivot link (ref. no. 9) may require 6" long double arm pin and 3/16" cotter pins (ref. no.'s 44 and 16). See footnote 12.

⁶Ends with S/N 300741. Lock pin is not required if lockout valve is used on pivot hydraulics.

⁷Beginning with S/N 303693, adapter and sleeve (ref. no.'s 34 and 51) replace single piece pivot adapter.

⁸Ends with S/N 380613. See footnote 9.

⁹Begins with S/N 380614. Replacement of pivots prior to this serial number, with this pivot, requires use of pin and hardware (ref. no.'s 60 thru 62) and modification of frame slot and offset pivot link (or new offset pivot link). Refer to instructions included with replacement pivot. See footnotes 10 and 11.

¹⁰S/N 380614 thru S/N 3D1076. Pin and plate (ref. no.'s 53 and 54) are replaced by pin and hardware (ref. no.'s 60 and 61). See footnote 11.

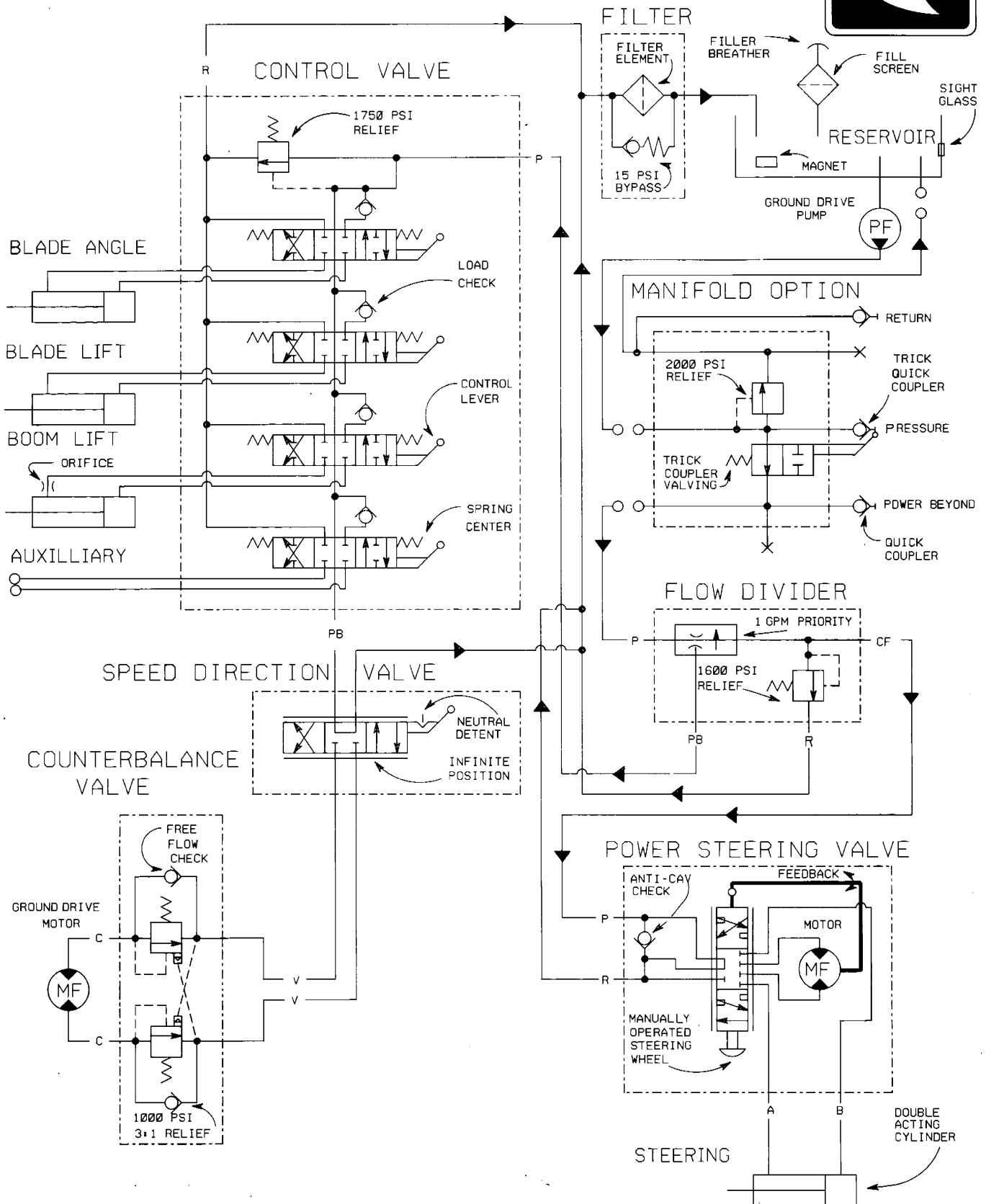
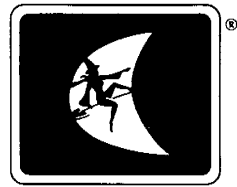
¹¹Begins with S/N 3D1077.

¹²Centered link, clip rings and rod pin (ref. no.'s 9, 26 and 49) are no longer used. If replacement of pivot link is required order pivot link, rod pin and hardware (ref. no.'s 63 thru 66).

¹³Present production uses centered link, rod pin and hardware (ref. no.'s 63 thru 66).

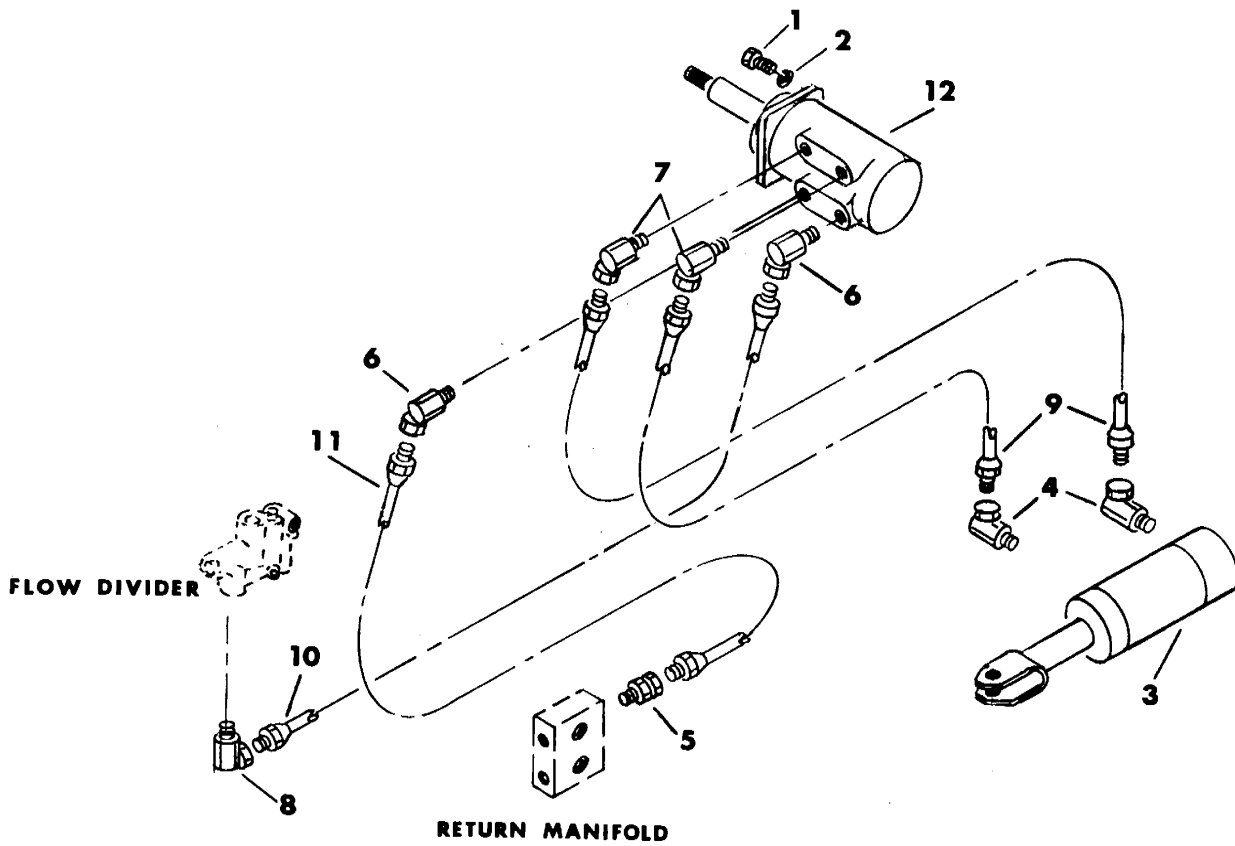
¹⁴Refer to installation diagram 050-007 and service bulletin 052-712 when installing split sprocket.

HYDRAULIC SCHEMATIC FOR MODEL 2300



NOTE: Reference numbers refer to connections on attachment hydraulic schematics.
 A. Add counterbalance valve S/N 302100.
 B. Add manifold return S/N 3B0843.

STEERING CIRCUIT HYDRAULICS

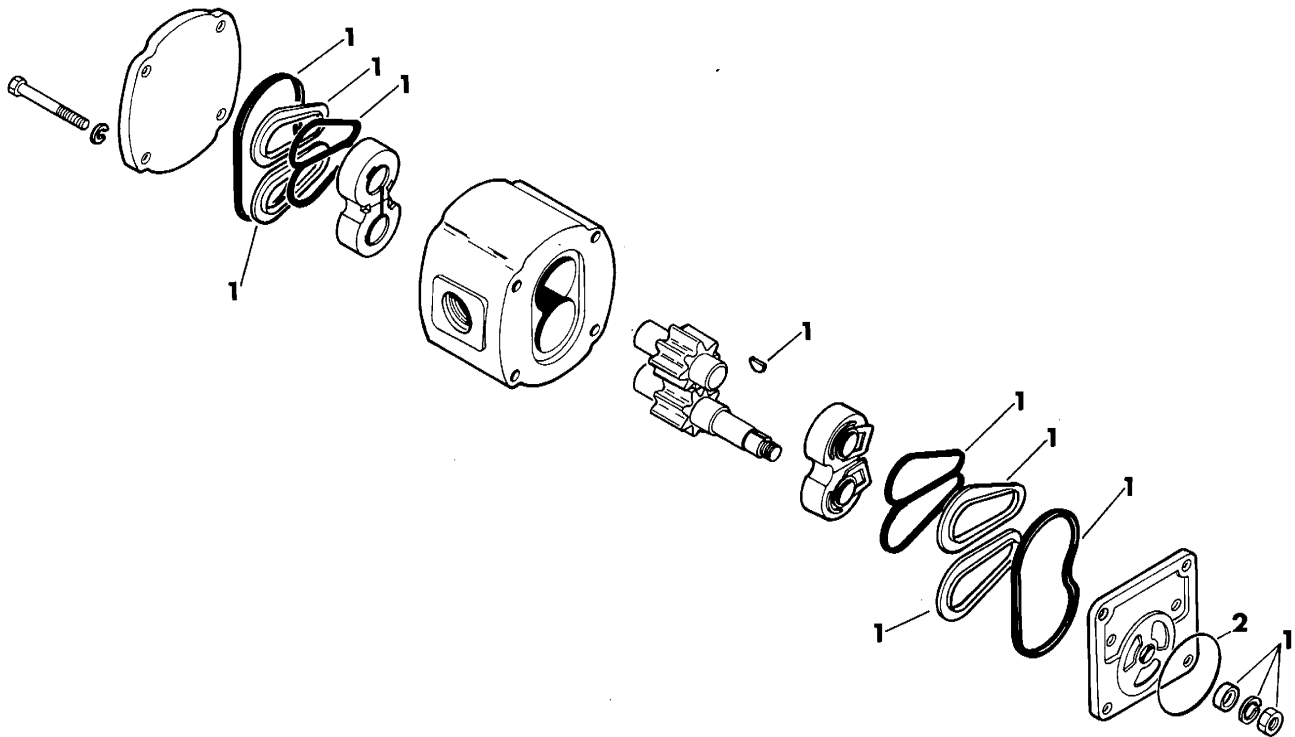


Ref. No.	Part Number	Qty.	Description
1.	105-052	2	Bolt (3/8-NC x 1-1/4")
2.	105-072	2	Lock Washer (3/8")
3.	150-091	1	Steering Cylinder
4.	155-001	2	¹ Adapter Union (1/4" x 1/4" x 90°)
	155-002	2	² Adapter Union (1/4" x 1/4" x 45°)
5.	155-057	1	Adapter Union (3/8" x 3/8", STR)
6.	155-067	2	Adapter Union (3/4- <small>SAE</small> x 3/8" x 45°)
	155-706		O-Ring (-908)
7.	155-096	2	Adapter Union (3/4- <small>SAE</small> x 1/4" x 45°)
	155-706		O-Ring (-908)

Ref. No.	Part Number	Qty.	Description
8.	155-103	1	Adapter Union (9/16- <small>SAE</small> x 3/8" x 90°)
	155-705		O-Ring (-906)
9.	155-331	2	Hose (1/4" x 44", 2750 PSI)
10.	155-310	1	Hose (3/8" x 27", 2250 PSI)
11.	155-377	1	Hose (3/8" x 33", 250 PSI)
12.	155-683	1	Steering Motor

¹Ends with S/N 300741. Used with single blade angle cylinder.
²Begins with S/N 300742. Used with double blade angle cylinder.

HYDRAULIC PUMP DEUTZ ENGINE



Ref. No.	Part Number	Qty.	Description
	155-544		Hydraulic Pump (Incl. ref. no.'s 1 and 2)
1.	500-389	1	Seal Replacement Kit
2.	155-799		O-Ring (-235)

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