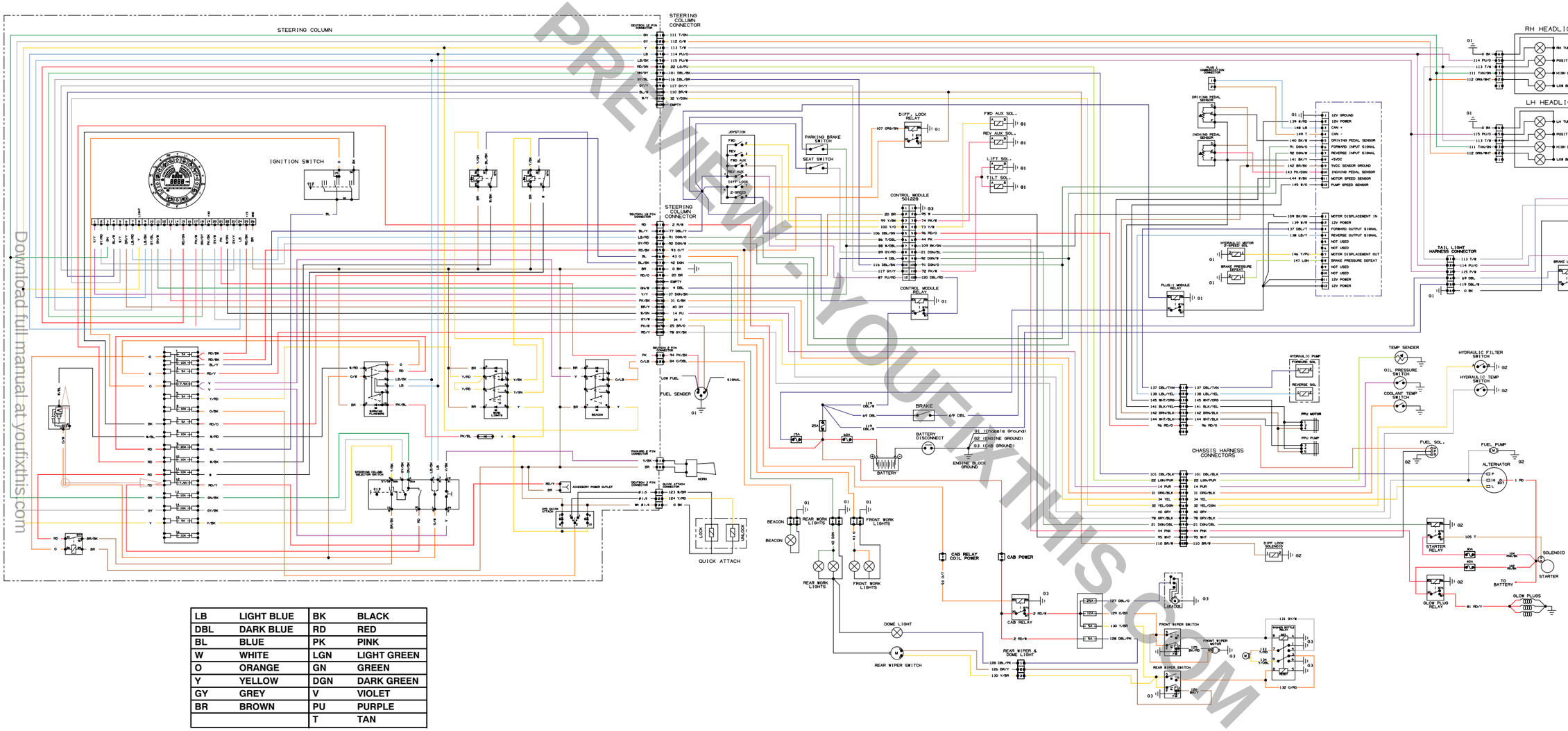
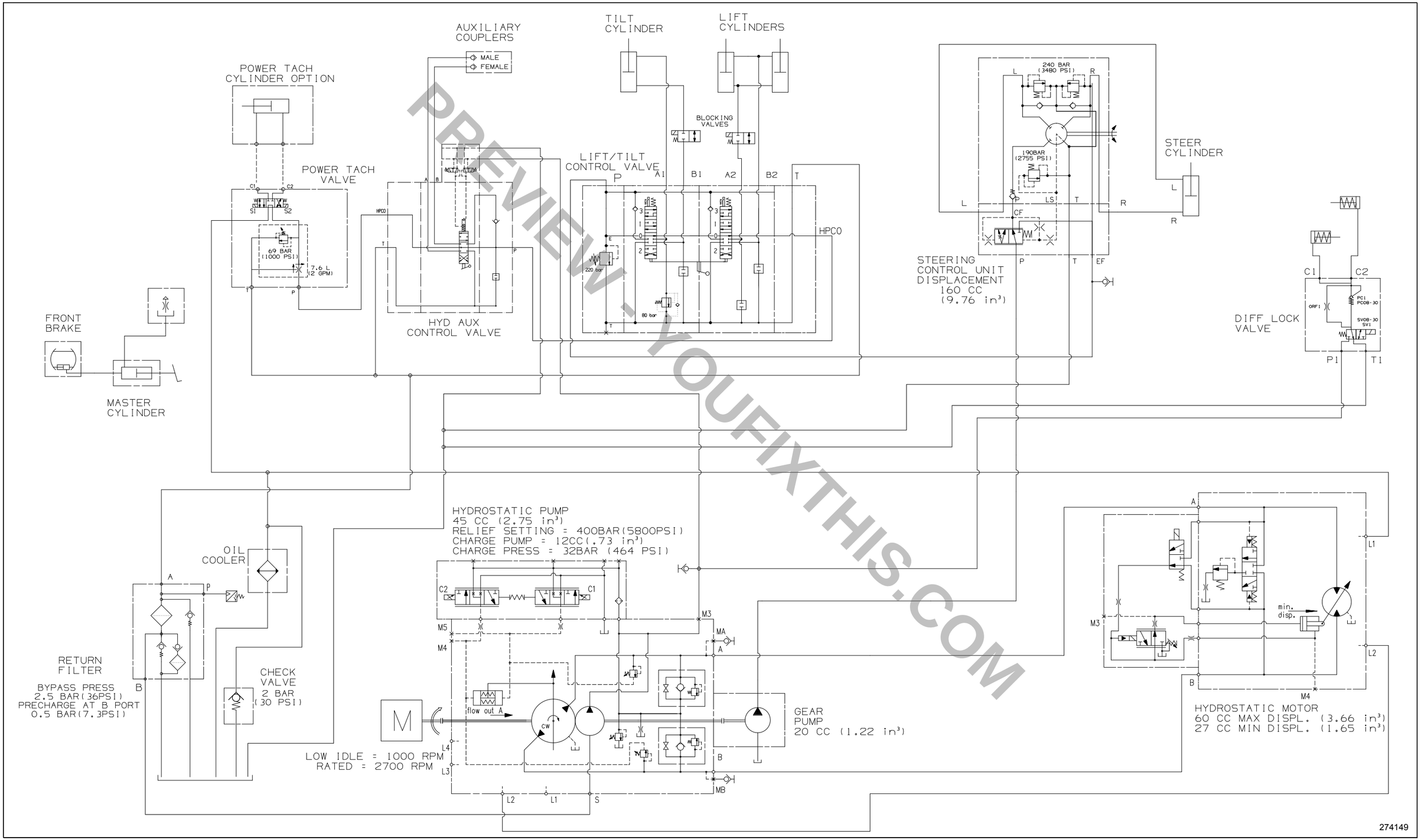
AL 540 - SCHEMATICS

COMPLETE ELECTRICAL SCHEMATIC



LB	LIGHT BLUE	BK	BLACK
DBL	DARK BLUE	RD	RED
BL	BLUE	PK	PINK
W	WHITE	LGN	LIGHT GREEN
O	ORANGE	GN	GREEN
Y	YELLOW	DGN	DARK GREEN
GY	GREY	V	VIOLET
BR	BROWN	PU	PURPLE
		T	TAN

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TORQUE SPECIFICATIONS

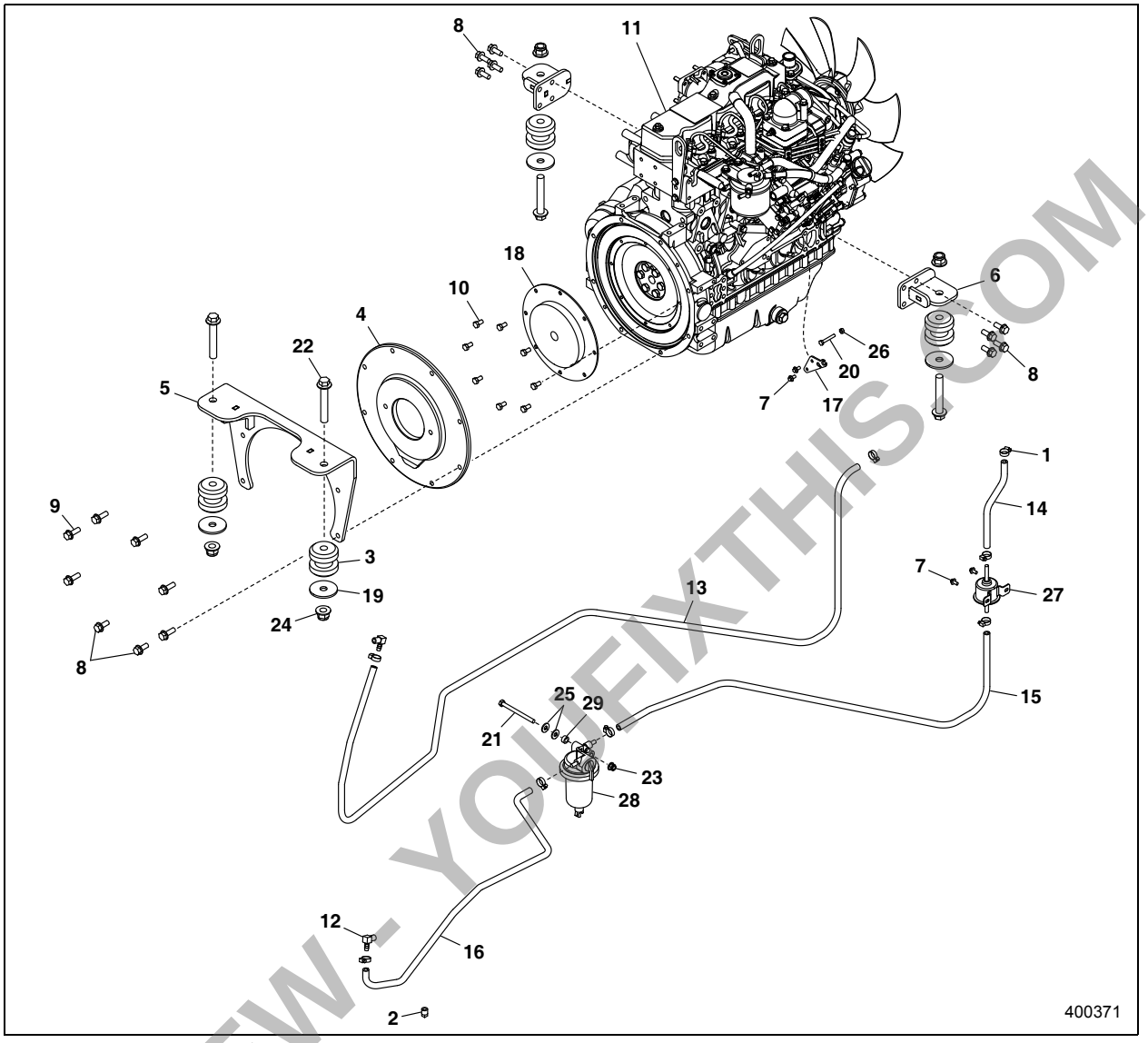
Note: Use these torque values when tightening hardware (excluding: locknuts and self-tapping, thread forming and sheet metal screws) unless specified otherwise.

Hydraulic fittings with various seals (light application). All torque values are in lb.-ft. (Nm) unless marked otherwise.

Thread	Straight pipe fitting with thread and screwed plug (GE)			Non-return valve with elastic seal	Identification aid outside Ø
	Sealing washer	Elastic seal	O-ring		
M10X1.0	7 (9)	13 (18)	11 (15)	13 (18)	0.4 in. (10 mm)
M12X1.5	15 (20)	18 (25)	18 (25)	18 (25)	0.5 in. (12 mm)
M14X1.5	26 (35)	33 (45)	26 (35)	26 (35)	0.6 in. (14 mm)
M16X1.5	33 (45)	41 (55)	30 (40)	37 (50)	0.6 in. (16 mm)
M18X1.5	41 (55)	52 (70)	33 (45)	52 (70)	0.7 in. (18 mm)
M22X1.5	48 (65)	92 (125)	44 (60)	92 (125)	0.9 in. (22 mm)
M27X2.0	66 (90)	133 (180)	74 (100)	107 (145)	1.0 in. (27 mm)
M33X2.0	111 (150)	229 (310)	118 (160)	155 (210)	1.3 in. (33 mm)
M42X2.0	177 (240)	332 (450)	155 (210)	266 (360)	1.7 in. (42 mm)
M48X2.0	214 (290)	398 (540)	192 (260)	398 (540)	1.9 in. (48 mm)
G1/8A	7 (9)	13 (18)	11 (15)	13 (18)	0.4 in. (9.73 mm)
G1/4A	26 (35)	26 (35)	22 (30)	26 (35)	0.5 in. (13.16 mm)
G3/8A	33 (45)	52 (70)	33 (45)	37 (50)	0.7 in. (16.66 mm)
G1/2A	48 (65)	66 (90)	41 (55)	48 (65)	0.8 in. (20.96 mm)
G3/4A	66 (90)	133 (180)	74 (100)	103 (140)	1.0 in. (26.44 mm)
G1A	111 (150)	229 (310)	118 (160)	140 (190)	1.3 in. (33.25 mm)
G1 1/4A	177 (240)	332 (450)	155 (210)	266 (360)	1.7 in. (41.91 mm)
G1 1/2A	214 (290)	398 (540)	192 (260)	398 (540)	1.9 in. (47.80 mm)

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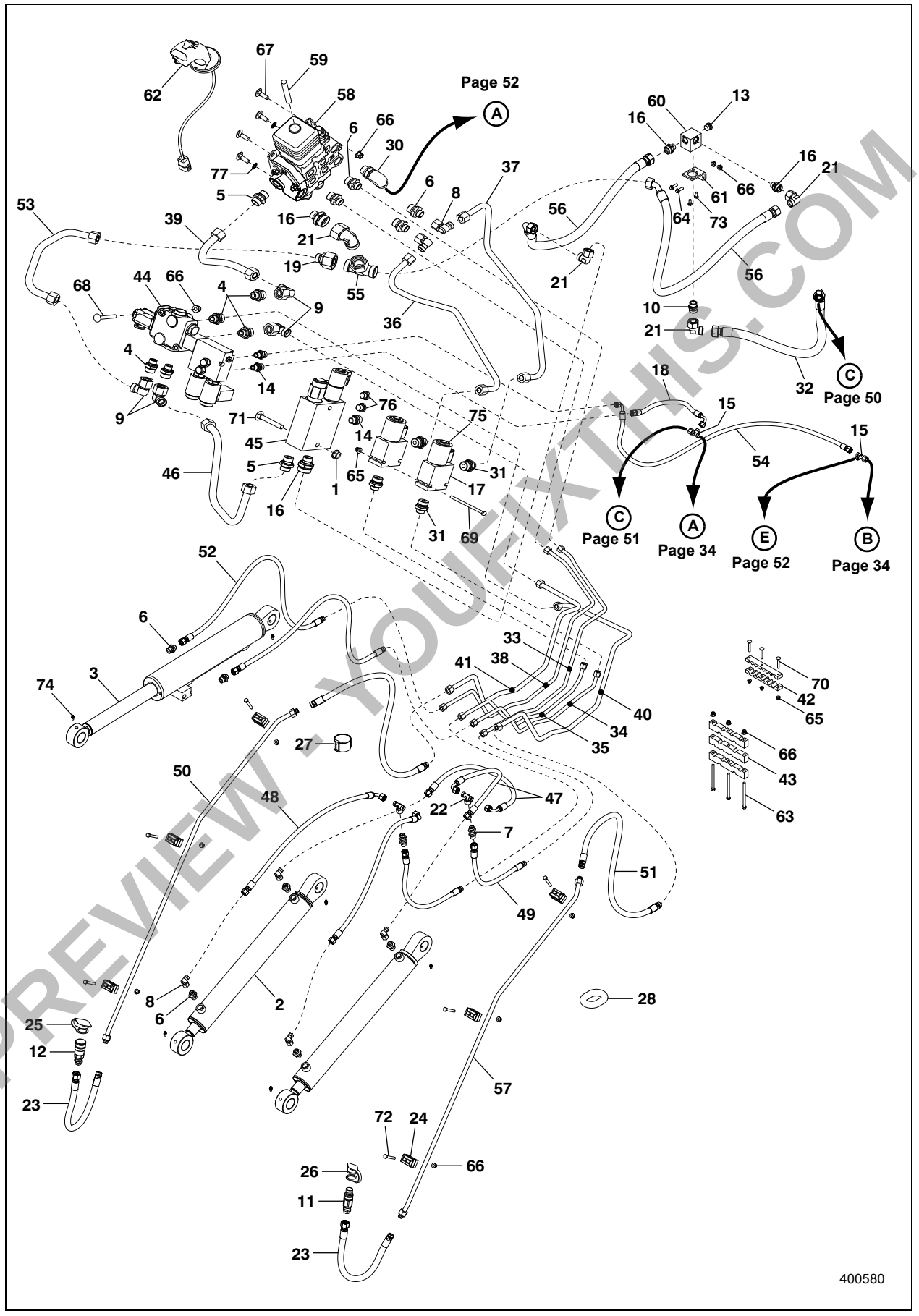
Ref. No.	Part No.	Description	Qty.
1	062023	CLAMP/HOSE #M5 1800	8
2	L72019	PLUG/PIPE .25	1
3	137063	ISOLATOR -11 RED-WHITE	4
4	160-32740	PLATE, PUMP MOUNT	1
5	176076	WDMT/FRONT MOTOR MOUNT	1
6	176203	WDMT/REAR ENGINE MOUNT	2
7	176651	CS FL M6-1.00X12 C8.8ZY SP DIN1662	4
8	176653	CS FLH M10-1.5X25 C8.8ZY SP DIN1665 *	10
9	176654	CS FLH M10-1.5X30 C8.8ZY SP DIN1665 *	6
10	176658	CS M8-1.25X16 C8.8ZY SP DIN931	8
11	176803	ENGINE ASSEMBLY (4TNV88)	1
12	186080	FITTING 5/16 BARB/ 90°	2
13	201049	FUEL LINE RETURN	1
14	201053	FUEL LINE FILTER-PUMP	1
15	201054	FUEL LINE FILTER-PUMP	1

Ref. No.	Part No.	Description	Qty.
16	201055	FUEL LINE SEPARATOR-TANK	1
17	201110	THROTTLE CABLE BRACKET	1
18	250-32577	DRIVE PLATE, FLEXIBLE	1
19	400-21568	WASHER (PLATED)	4
20	651662	CS M6-1.00X40 C8.8 ZY DIN931	1
21	651681	CS M8-1.25X100 C8.8 ZY DIN931	1
22	651703	CS FL M16-2.00X100 C8.8 ZY DIN1662	4
23	651706	LN INST FL M8-1.25 C8 ZY DIN6926	1
24	651709	LN INST FL M16-2.00 C8 ZY DIN6926	4
25	654004	FW 5/16 AWZY	2
26	656047	HN M6-1 C8 ZY DIN934	1
27	186308	PUMP ASSY FUEL FEED	1
28	270980	SEPARATOR ASSY	1
29	091716	SPACER	1

*** Re-use of bolts requires Loctite® 262 or equivalent.**

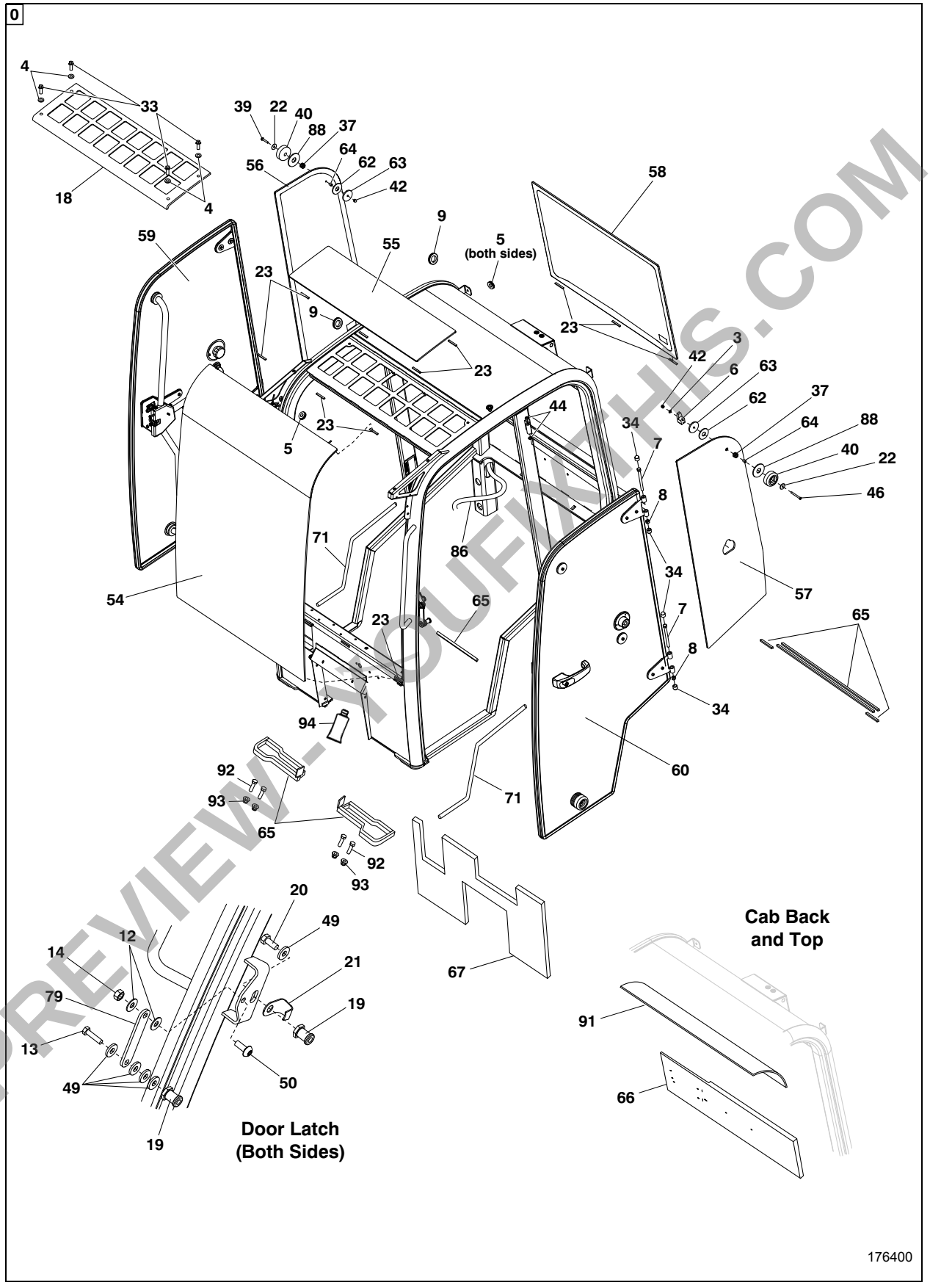
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AL 540 - LIFT ARM
HYDRAULICS



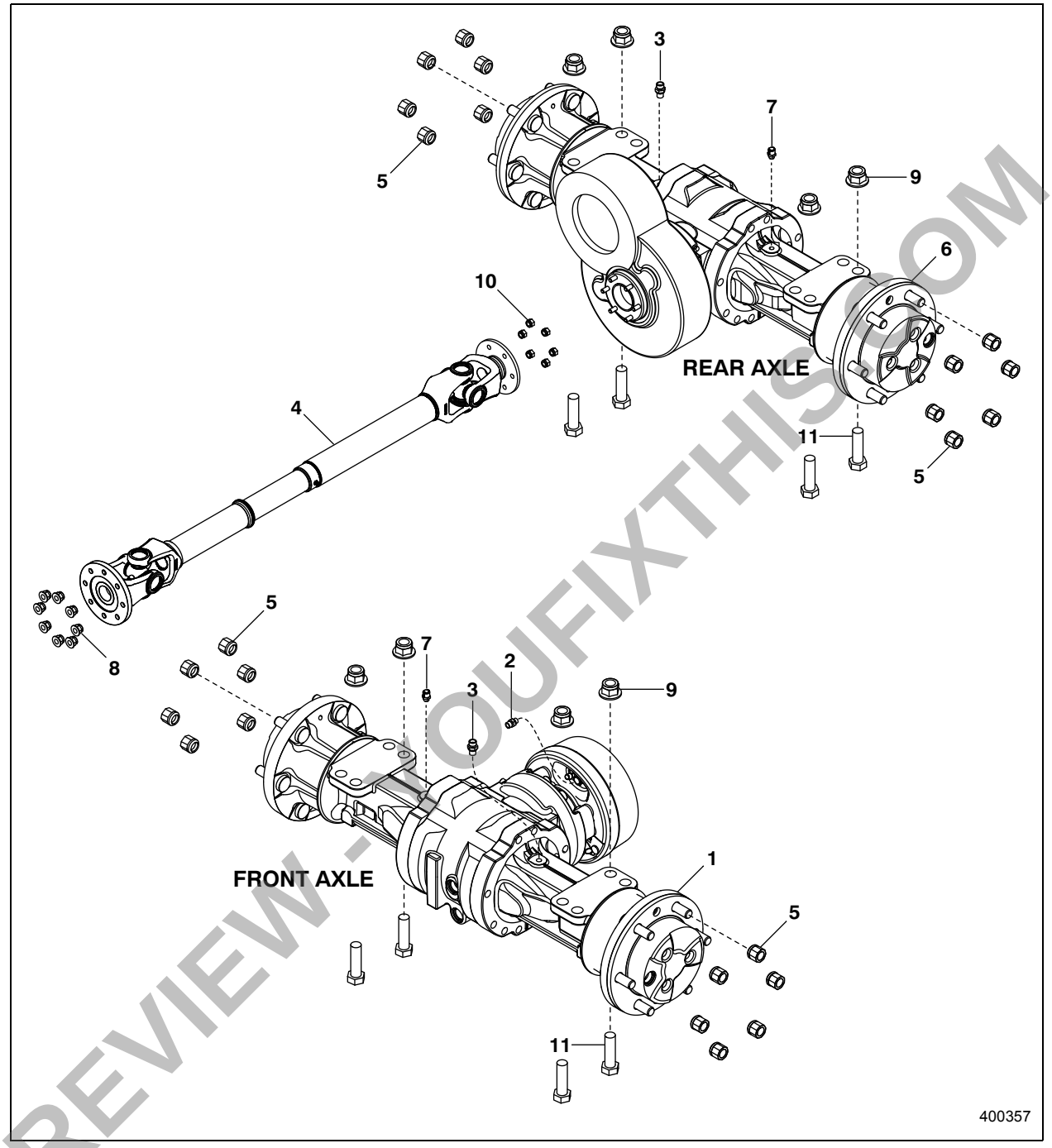
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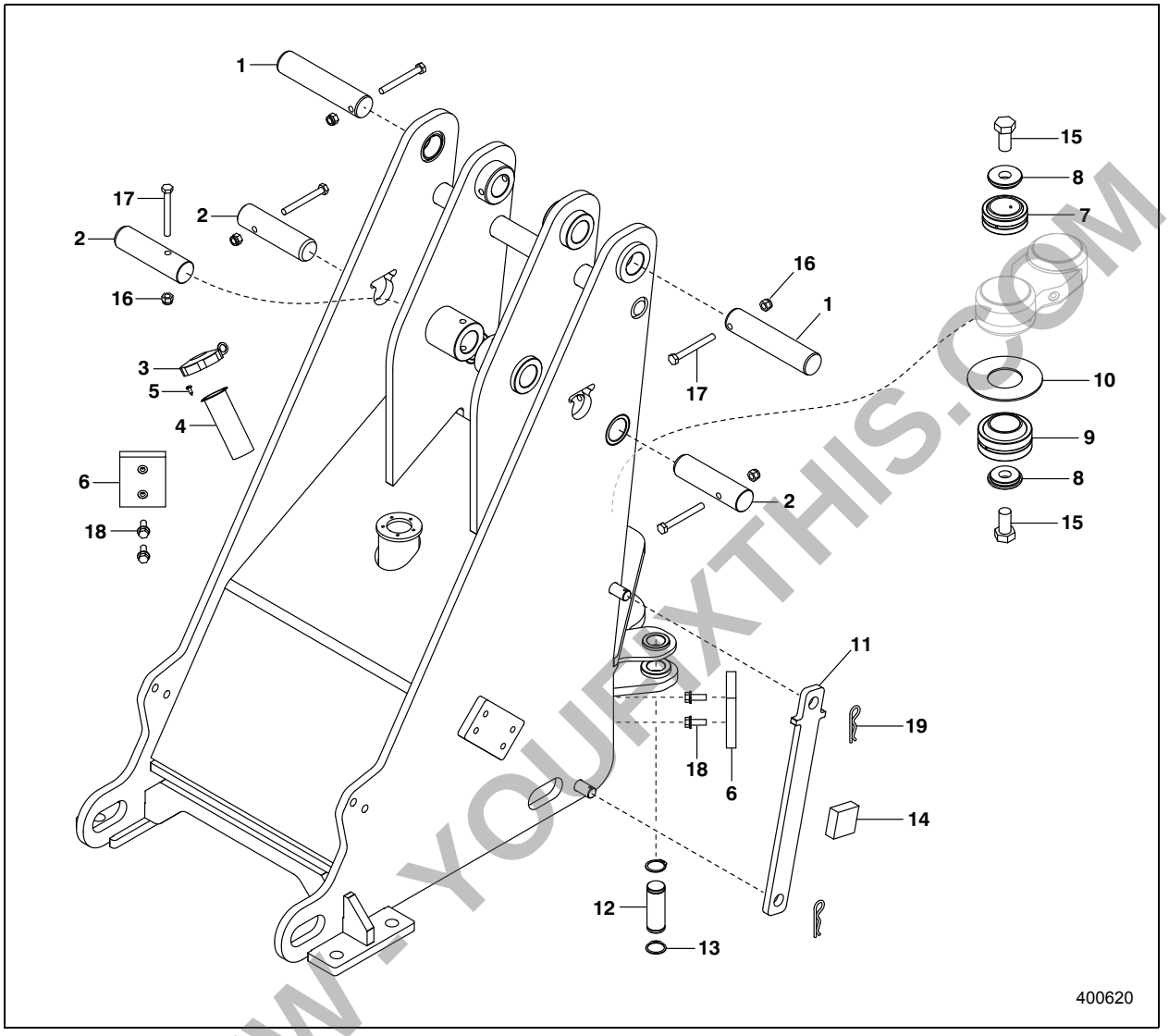
Ref. No.	Part No.	Description	Qty.
1	176443	AXLE/FRONT	1
2	176528	STM M24C06 MMPT10	1
3	176529	STM M24C08 MMPT12	2
4	176890	SHAFT/DRIVE 35E	1
5	201097	NUT/LUG/M18X1.5	24
6	270158	AXLE/REAR	1

Ref. No.	Part No.	Description	Qty.
7	270410	BREATHER/AXLE	2
8	651707	LN INST FL M10-1.50 C8 ZY DIN6926	8
9	651717	LN INST FL M20-2.50 C8ZY DIN6926	8
10	651747	LN INS M8-1.00 F8 ZY DIN985	6
11	656040	CS M20-2.5X70 C8.8 ZY DIN931	8

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AL 540 - CHASSIS
FRONT FRAME

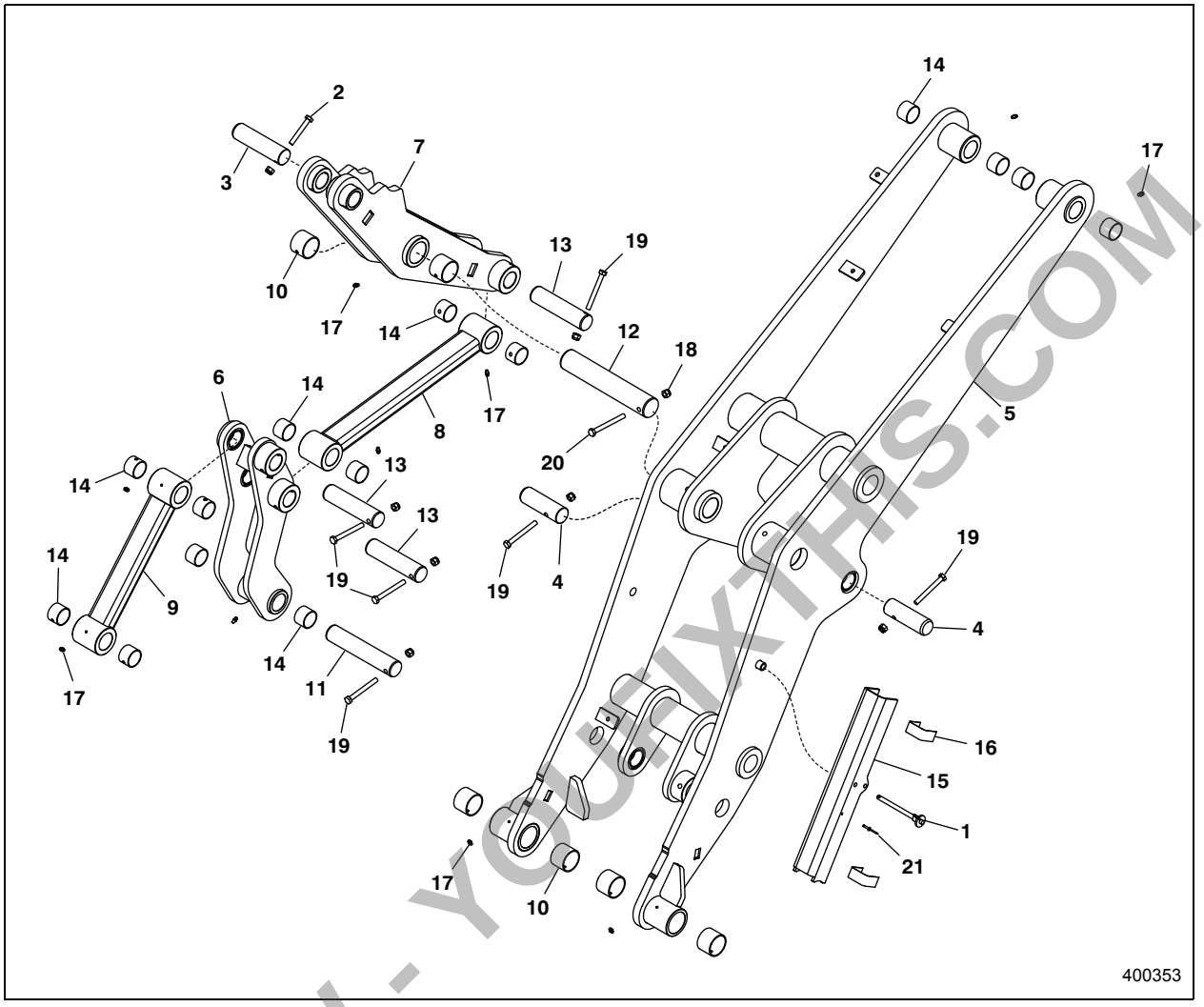


Ref. No.	Part No.	Description	Qty.
1	176664	PIN/PIVOT 40MM	2
2	176042	PIN/PIVOT	3
3	132051	FUEL TANK CAP	1
4	132050	STRAINER-FUEL FILL	1
5	650702	SCREW/TPH TF SLTD #632X3/8 CZY	2
6	L61709	PAD/SLIDE 3" X 4"	2
7	175934	BEARING/SPHERICAL PIVOT	1
8	176142	RETAINER/BEARING	2
9	176193	BEARING/SPHERICAL	1
10	176719	WASHER/BEARING SHIELD	1
11	200027	LOCK/STEERING	1

Ref. No.	Part No.	Description	Qty.
12	200084	PIN/STEERING	1
13	200090	RING/EXTERNAL SNAP	2
14	270924	BUMPER/FOAM	1
15	651419	CS M20-2.5X40 C10.9 ZY DIN931	2
16	651448	LN INS M10-1.5 C8 ZY DIN6924	5
17	656015	CS M10-1.5X90 C8.8 ZY DIN931	5
18	076589	CS FL LOCK 3/8X1 C5ZY	4
19	076099	COTTER/HAIRPIN 9/64X2-11/16	2

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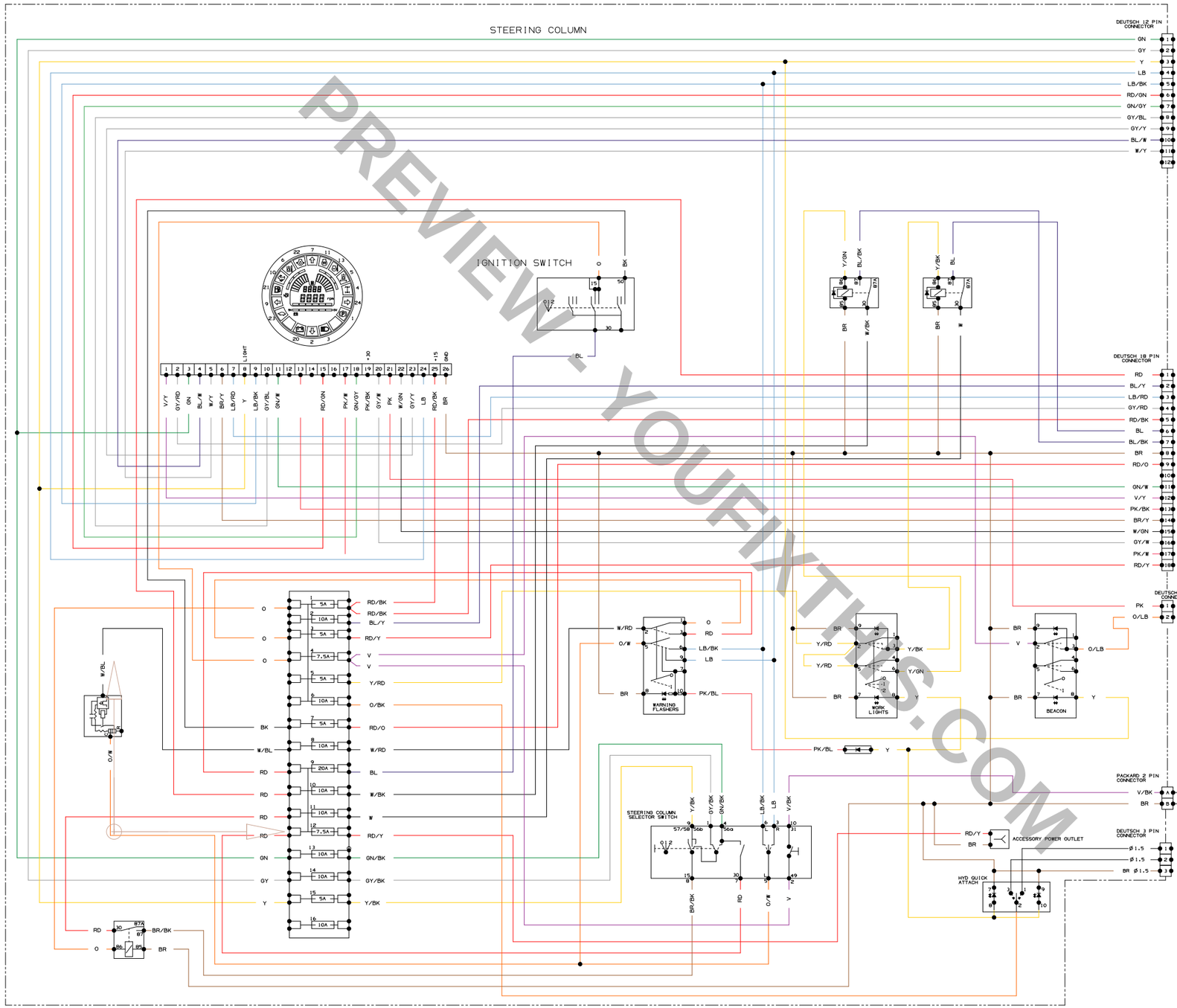
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Ref. No.	Part No.	Description	Qty.
1	131785	PIN/QUICK RELEASE	1
2	656188	CS M10-1.5X70 C8.8 ZY DIN931	1
3	175980	PIN/PIVOT	1
4	176039	PIN/PIVOT	2
5	176584	WDMT/LOADER ARM	1
6	176610	WDMT/LOWER PIVOT ARM	1
7	176614	WDMT/UPPER PIVOT ARM	1
8	176621	WDMT/UPPER LINK	1
9	176623	WDMT/LOWER LINK	1
10	176661	BEARING/50MM I.D.	6
11	176662	PIN/PIVOT 40MM	1
12	176663	PIN/PIVOT 50MM	1
13	176714	PIN/PIVOT	3
14	200097	BEARING/40MM I.D.	14
15	201466	CHANNEL/CYLINDER STOP	1
16	270398	STRIP/RUBBER	2
17	613052	FITTING/GREASE M6X1	10
18	651448	LN INS M10-1.5 C8 ZY DIN6924	8
19	656015	CS M10-1.5X90 C8.8 ZY DIN931	6
20	656162	CS M10-1.5X100 C8.8 ZY DIN931	1
21	132289	RIVET/BLIND .156 X .50	1

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DBL	DARK BLUE
BL	BLUE
W	WHITE
O	ORANGE
Y	YELLOW
GY	GREY
BR	BROWN
BK	BLACK
RD	RED
PK	PINK
LGN	LIGHT GREEN
GN	GREEN
DGN	DARK GREEN
V	VIOLET
PU	PURPLE
T	TAN

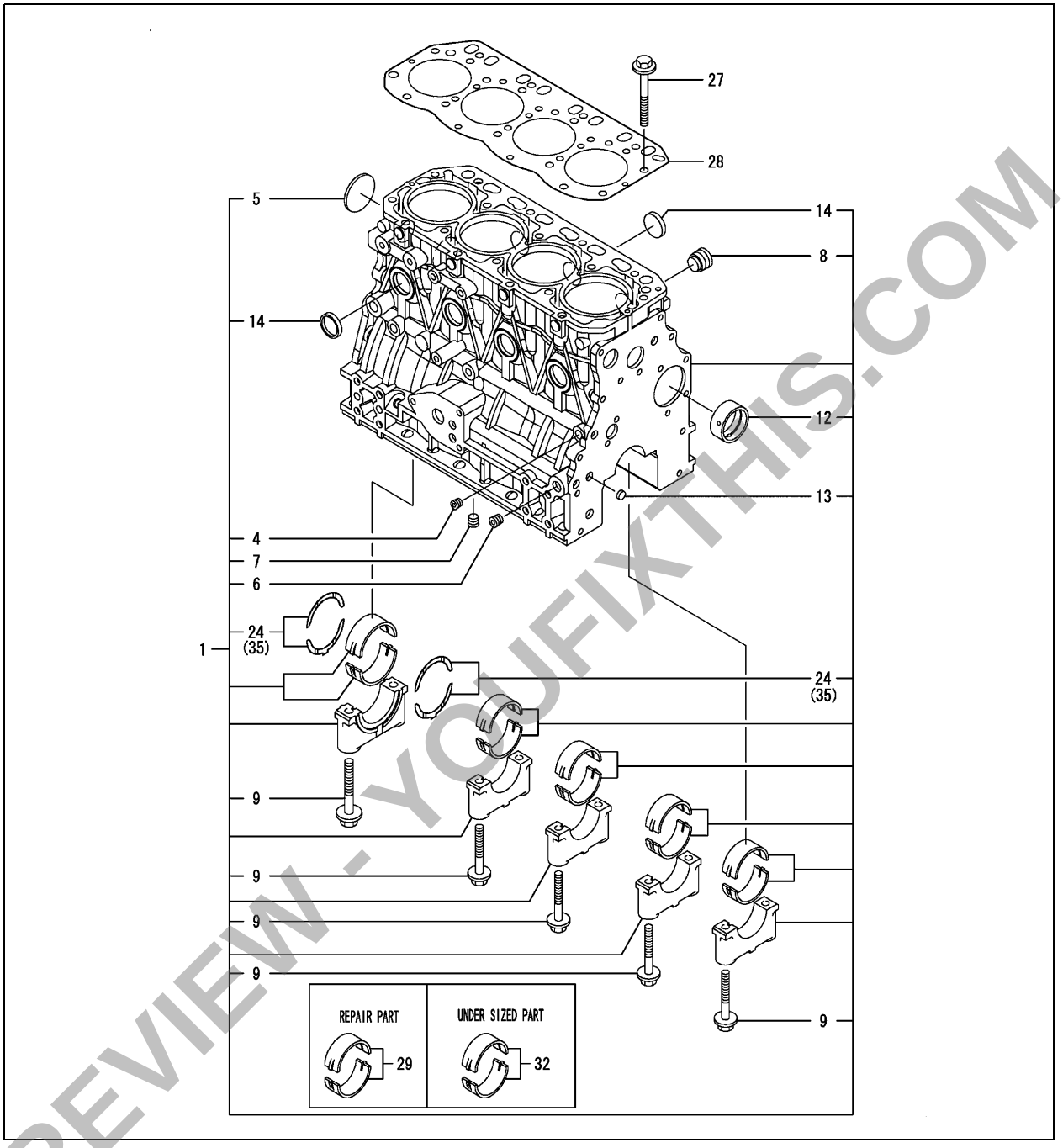
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Hydraulic fittings with various seals (heavy application). All torque values are in lb.-ft. (Nm) unless marked otherwise.					
Thread	Straight pipe fitting with thread and screwed plug (GE)			Non-return valve with elastic seal	Identification aid outside Ø
	Sealing washer	Elastic seal	O-ring		
M12X1.5	15 (20)	26 (35)	26 (35)	26 (35)	0.5 in. (12 mm)
M14X1.5	26 (35)	41 (55)	33 (45)	33 (45)	0.6 in. (14 mm)
M16X1.5	33 (45)	52 (70)	41 (55)	41 (55)	0.6 in. (16 mm)
M18X1.5	41 (55)	66 (90)	52 (70)	52 (70)	0.7 in. (18 mm)
M20X1.5	41 (55)	92 (125)	59 (80)	74 (100)	0.8 in. (20 mm)
M22X1.5	48 (65)	100 (135)	74 (100)	92 (125)	0.9 in. (22 mm)
M27X2.0	66 (90)	133 (180)	125 (170)	100 (135)	1.0 in. (27 mm)
M33X2.0	111 (150)	229 (310)	229 (310)	155 (210)	1.3 in. (33 mm)
M42X2.0	177 (240)	332 (450)	243 (330)	266 (360)	1.7 in. (42 mm)
M48X2.0	214 (290)	398 (540)	310 (420)	398 (540)	1.9 in. (48 mm)
G1/8A	26 (35)	41 (55)	33 (45)	33 (45)	0.5 in. (13.16 mm)
G1/4A	33 (45)	59 (80)	44 (60)	44 (60)	0.7 in. (16.66 mm)
G3/8A	48 (65)	85 (115)	55 (75)	74 (100)	0.8 in. (20.96 mm)
G1/2A	66 (90)	133 (180)	125 (170)	107 (145)	1.0 in. (26.44 mm)
G3/4A	111 (150)	229 (310)	229 (310)	192 (260)	1.3 in. (33.25 mm)
G1A	177 (240)	332 (450)	243 (330)	266 (360)	1.7 in. (41.91 mm)
G1 1/4A	214 (290)	398 (540)	310 (420)	398 (540)	1.9 in. (47.80 mm)

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Ref. No.	Part No.	Description	Qty.
1	188768	CYLINDER BLOCK ASSEMBLY	1
4	425-34723	PIPE THREAD PLUG 1/8"	1
5	425-36240	PLUG	1
6	425-34721	PIPE THREAD PLUG 1/4"	2
7	425-34721	PIPE THREAD PLUG 1/4"	1
8	425-34722	PLUG	1
9	425-34730	BOLT	10
12	425-34732	BUSH, CAMSHAFT	1
13	425-34725	PLUG 12	2

Ref. No.	Part No.	Description	Qty.
14	425-34726	PLUG 30	8
24	425-34731	THRUST BEARING	2
27	425-34638	CYLINDER HEAD BOLT	18
28	425-36006	CYLINDER HEAD GASKET	1
29	425-35931	MAIN BEARING SET (2)	5
32	425-34734	MAIN BEARING (US=0.25)	5
35	425-34735	THRUST BEARING SET (OS=0.25)	1

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