FASTENER TORQUE CHART

All fasteners locally purchased for use on the New Holland Mower must be Grade 5 or equivalent, unless otherwise specified in the New Holland parts manual. Use the torque chart for all Grade 5

Chart - Grade 5 Fasteners

Fastener Size	lb ft	N·m
1/4-20	7 - 9	9 - 12

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SERVICE REQUIREMENTS

MAINTENANCE SCHEDULE

After 8 hour Break-In Period

- Change Engine Oil and Hydraulic Oil Filter.

Daily

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SPECIFICATIONS

	G5030	G5035
ENGINE		

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TROUBLESHOOTING

The following troubleshooting guide is for the mower deck and its drive. This assumes the power unit engine is running to prescribed specifications. Consult the mower repair reference for all system checks.

Before attempting repair or test, observe the general condition of the power unit and mower. Make certain the power unit is operating properly and the mower is setup correctly. The following information may give you some hints in what to look for when attempting to solve a problem with the mower. If the problem cannot be easily solved, contact your **New Holland** dealer.

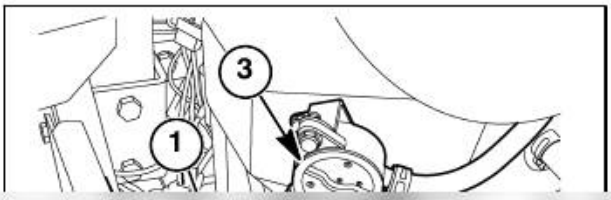
Symptom	Problem	Correction
Excessive Vibration	Loose spindle/blade fasteners.	Re-torque or replace as necessary.
	Blade interference with grass build-up in deck.	Clean the underside of the deck.
	Blades out of balance.	Balance blades according to instructions.
	Blade(s) broken or worn badly.	Replace mowing blades in sets of 3.
	Engine mounting bolts are loose.	Tighten the engine mounting bolts.
	Engine/Idler/Blade pulley loose.	Tighten the pulley.
	Engine pulley damaged.	Contact dealer.
	Failed spindle bearing.	Contact dealer.
Uneven Cutting Height	Blades dull.	Sharpen or replace blades.
	Cutting blade(s) is/are bent.	Install new cutting blades.
	Deck is not level.	Level deck.
	Anti-scalp not set correctly.	Adjust height of anti-scalp wheel.
	Grass buildup under deck.	Clean underside of deck.
	Incorrect tire pressure.	Adjust psi to 83 kPa (12 psi) rear and 138 kPa (20 psi) front.
	Blade spindle bent.	Contact dealer.
	Ground speed too fast.	Lower ground speed.
Blades Wear Too Fast	Cutting in sandy conditions.	Increase deck mowing height.
	Cutting in rocky conditions.	Increase deck mowing height.
	Heat treat has been removed by sharpening with grinder.	Replace mowing blades in sets of 3.

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Fuel Filter Servicing

1. Park the machine safely.
2. Turn the fuel shut off valve to the OFF
3. Disconnect the hose clamps, 1, from the fuel filter

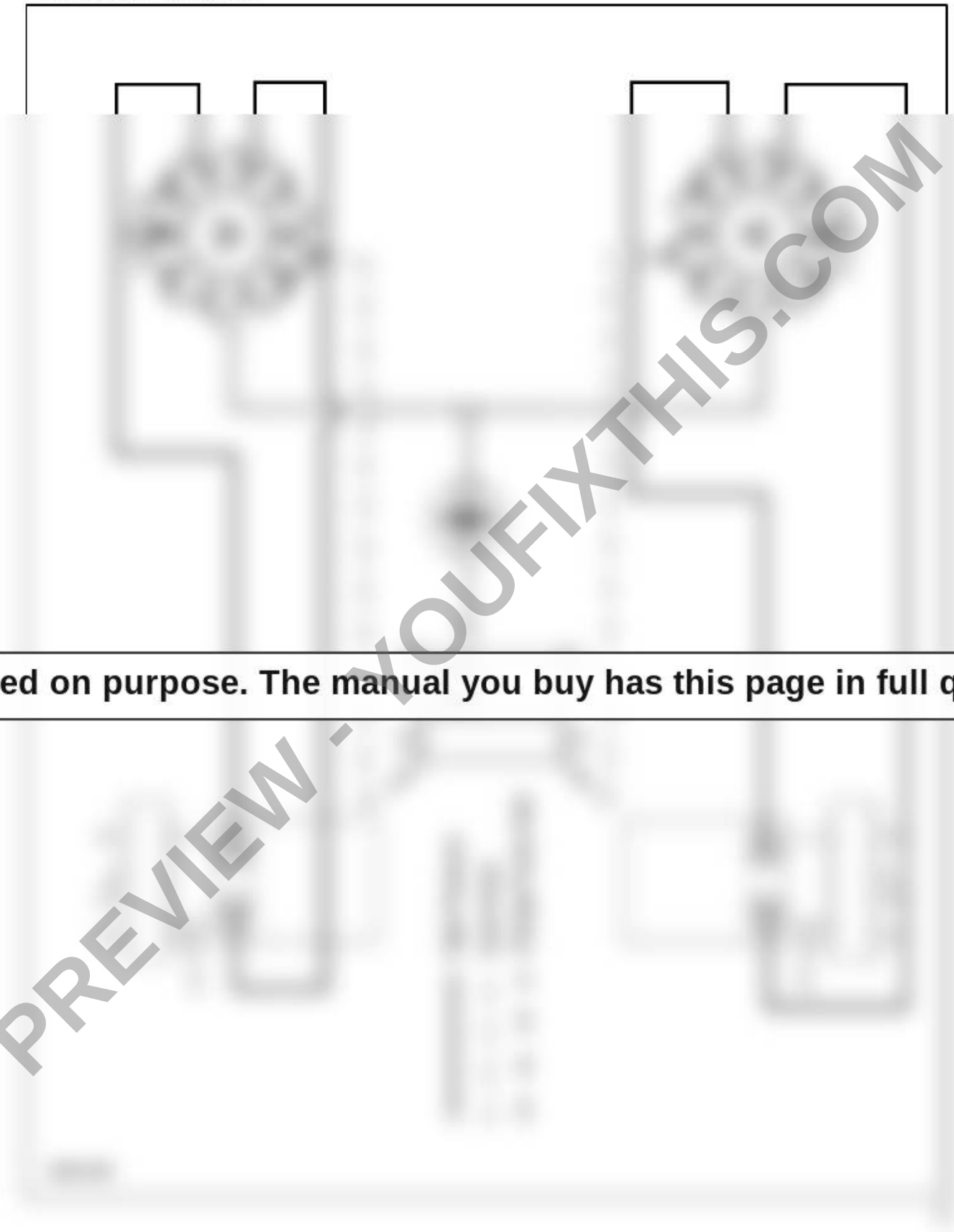


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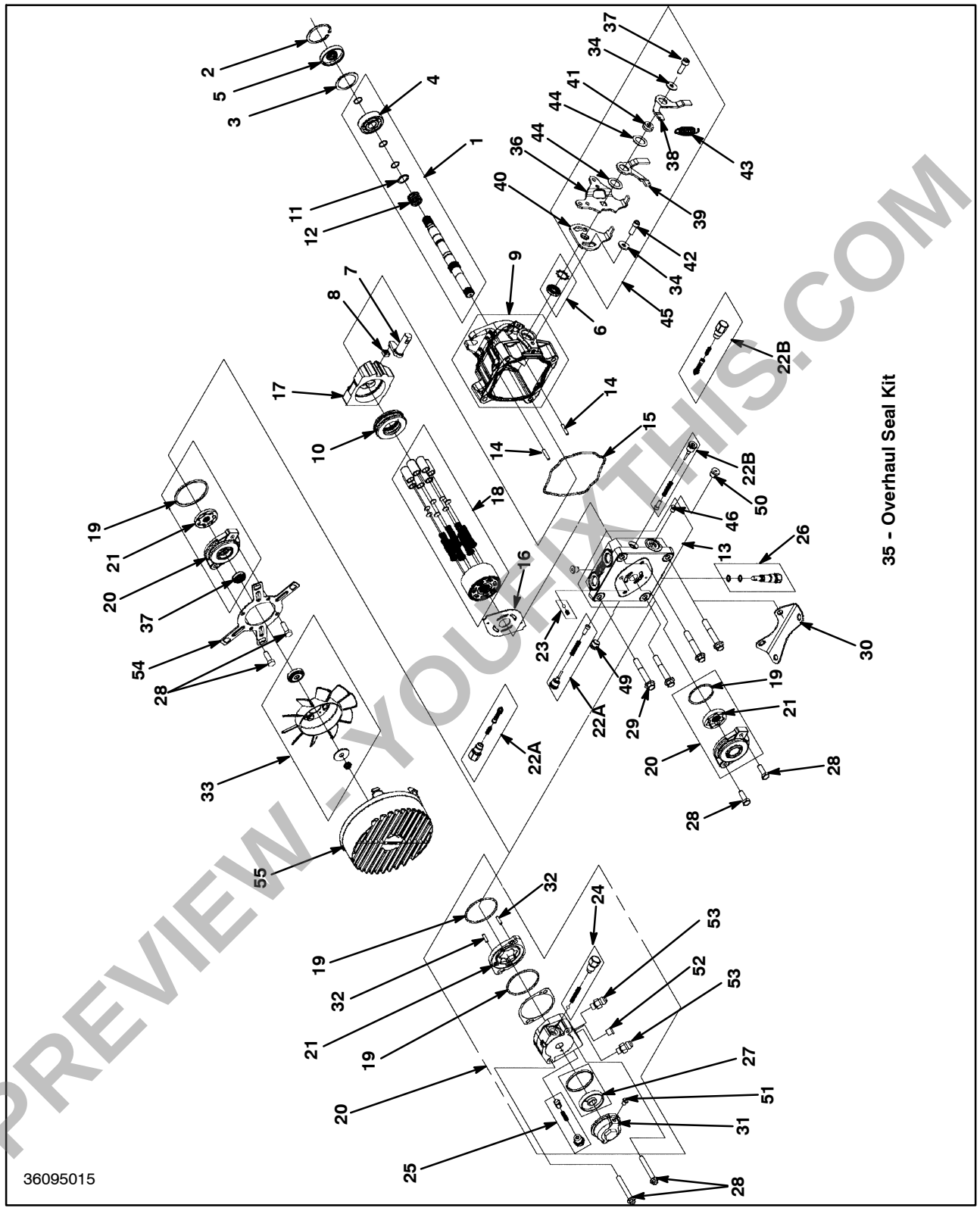
HYDRAULIC DIAGRAM



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PR Pump

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ITEM LIST - PW SERIES

Part numbers are not provided in this manual. See CD (BLN-51427) for part numbers.

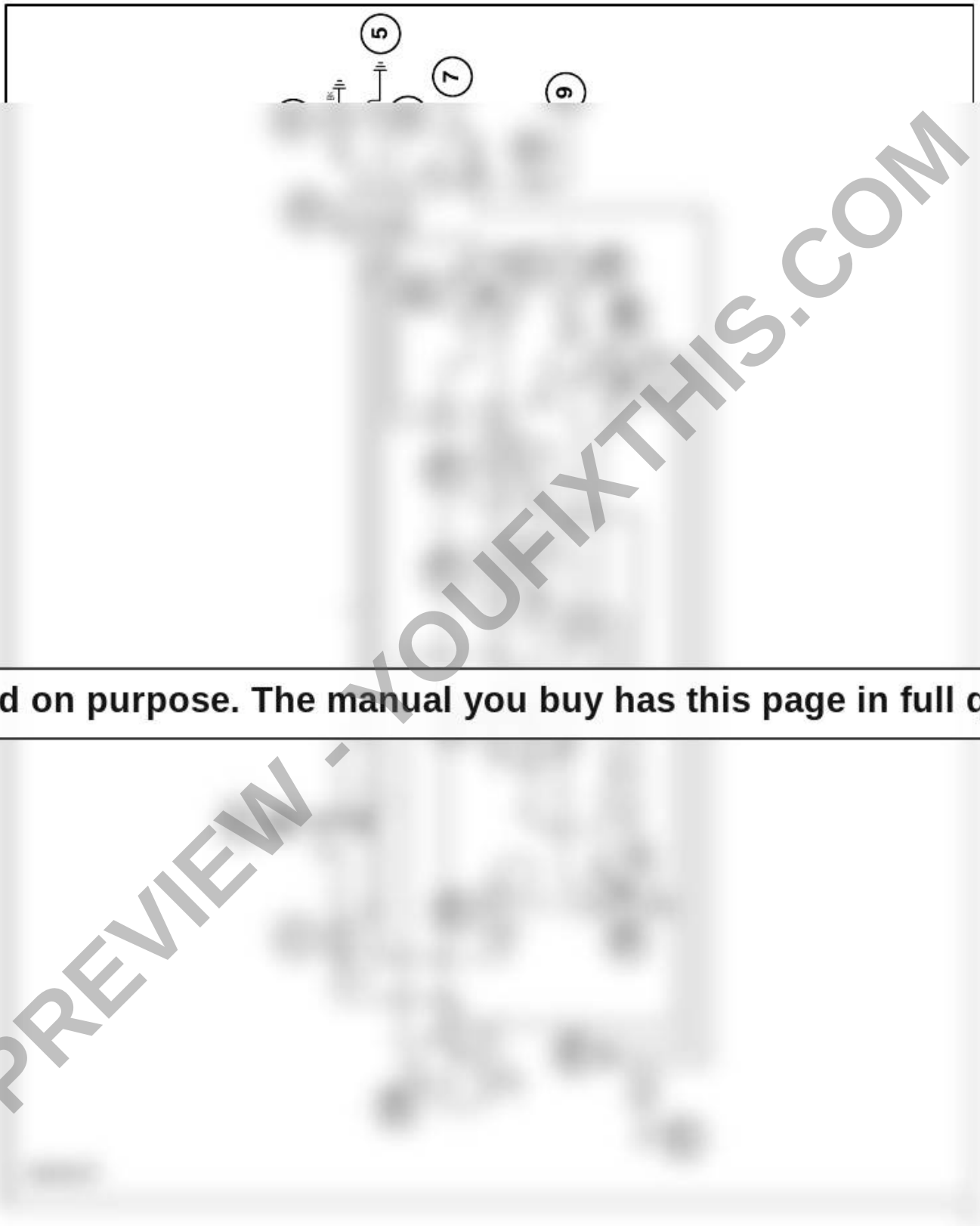
No.	Description
1	Pump Shaft Kit (19T spline)
	Pump Shaft Kit (17 mm keyed)
	Pump Shaft Kit (17 mm keyed thru taper)
	Pump Shaft Kit (double tapered thru shaft)
2	Retaining Ring
3	Spacer
4	Shaft Ball Bearing
5	Lip Seal 17 X 47 X 8 PTCN1
6	Trunnion Seal Kit
7	TrunnionArm
8	Slot Guide
9	Housing Kit
10	Thrust Ball Bearing Assembly
11	Block Thrust Washer
12	Block Spring
13	End Cap Kit (w/poppets & std chg)
	End Cap Kit (w/poppets & aux chg)
14	Pin
15	O-Ring
16	Valve Plate
17	Variable Swashplate
18	Cylinder Block Kit (16cc)
19	O-Ring
	R-Ring (-144)
20	Charge Pump Kit (.19 std splined)
	Charge Pump Kit (.13 std thru shaft)
	Charge Pump Kit (CW-Iron Aux, 40-70 psi, .001 shim)
	Charge Pump Kit (CW-Iron Aux, 135-165 psi, .001 shim)
	Charge Pump Kit (CCW-Iron Aux, 70-70 psi, .001 shim)
	Charge Pump Kit (Al Aux, 7/16 SAE port, 40-70 psi, .001 shim)
	Charge Pump Kit (Al Aux 7/16 SAE port, 75-105 psi, .001 shim)
21	Gerotor Assembly (.13 cu.in./rev)
	Gerotor Assembly (.19 cu.in./rev)
	Aux Gerotor & Hsg Assembly (0.19 cu.in./rev)
22	Check Valve Kit (blank orifice)
	Check Valve Kit (0.24 orifice)
	Check Valve Kit (.031 orifice)
	Check Valve Kit (.044 orifice)
	Shock Valve Kit (blank orifice)
	Shock Valve Kit (.024 orifice)
	Shock Valve Kit (.031 orifice)
	Shock Valve Kit (.044 orifice)

No.	Description
23	Charge Relief Kit (1/4 plastic ball & spring)
	Charge Relief Kit (1/4 plastic ball & spring)
	Charge Relief Kit (w/ 9/16 SAE valve plug 40-70 psi)
	Charge Relief Kit (w/ 9/16 SAE valve plug 75-105 psi)
	Charge Relief Kit (w/ 1/2 SAE valve plug 40-70 psi)
	Charge Relief Kit (w/ 1/2 SAE valve plug 135-1650 psi)
24	Aux Relief Valve Kit
25	Aux Bypass/Check Kit
26	Bypass Valve Kit (blank orifice)
	Bypass Valve Kit (.031 orifice)
	Bypass Valve Kit (.043 orifice)
27	Auxiliary Filter Kit
28	Socket Hd Cap Screw (M8 x 1.25-25mm
	Flange Hd Screw (5/16-18 x 2.5)
29	Hex Screw, Flanged Hd (M10 x 1.50-65 mm)
30	Mounting Bracket
31	Filter Cover
32	Dowel Pin
33	Fan Kit
34	Washer
35	Seal Kit
36	ControlArm
37	Screw
38	Outer Scissor Arm
39	Inner Scissor Arm
40	ReturnArm
41	Spacer
42	Screw
43	Spring
44	Washer
45	Return Kit
46	Plug
47	Plug
48	Plug
49	Plug
50	Plug
51	Plug
52	Plug
53	Connector
54	Shroud Bracket
55	Shroud

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ELECTRICAL SCHEMATIC



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G5030, G5035
SERVICE MANUAL
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SECTION 00 – GENERAL INFORMATION
SECTION 10 – ENGINE
SECTION 29 – HYDROSTATIC TRANSMISSION
SECTION 31 – POWER TAKE-OFF (PTO)
SECTION 33 – BRAKES
SECTION 55 – ELECTRICAL SYSTEM
SECTION 58 – MOWER DECK

The sections used through out all New Holland product Service manuals may not be used for each product. Each Service manual will be made up of one or several books. Each book will be labeled as to which sections are in the overall Service manual and which sections are in each book.

The sections listed above are the sections utilized for the G5030, G5035.

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SAFETY PRECAUTIONS

GENERAL INFORMATION

This manual has been written for the mechanic that will have to service and repair the New Holland Zero-Turn mower. Do not attempt to service or repair the zero turn mower until familiar with the contents of this manual.

- The New Holland Zero-Turn Mower meets or exceeds all current safety specifications in effect at the time of production.

Use genuine New Holland service parts when servicing or repairing the zero-turn mower. Off the shelf (after market) repair parts may compromise the integrity of the unit. Parts that do not meet New Holland specifications may fail, causing injury, equipment or property damage.

GASOLINE PRECAUTIONS

Gasoline used in the zero-turn mower can be very dangerous if handled improperly. Pay very close attention to the following.

- Gasoline fumes are toxic.
- Eye and skin injuries can be experienced if gasoline is handled improperly.
- Breathing difficulty can result if exposed to gasoline fumes in a confined area.
- Gasoline fumes are highly explosive.
- Gasoline is highly flammable.

Always store gasoline in a cool well ventilated area. Always store gasoline in an approved container designed specifically for gasoline. Never store gasoline for more than two months.

SPECIAL INFORMATION

Never run the engine in an enclosed area. Carbon monoxide fumes from a running engine are very dangerous and can cause permanent injury or death. If the unit must be run indoors, make sure a hose or similar device is used to vent engine exhaust fumes to outside atmosphere.

When the engine has been running, the engine, the exhaust system, and the hydraulic system, can become very hot. If components must be handled, wear heavy gloves. Better yet, wait for the unit to cool completely before performing maintenance.

Hot engine oil and hydraulic oil can cause serious burns. Wear heavy gloves and safety glasses to protect yourself from oil that may get splashed.

Always direct compressed air away from you or others around you. Air driven particles may penetrate the skin or eyes causing serious injury or blindness.

Wear safety glasses and hearing protection when repairing, operating, or testing the zero-turn mower. Wear safety glasses when handling springs. Detached springs can bounce with enough force to damage property or cause personal injury.

Always wear gloves when handling or sharpening cutting blades. Do not use blades that are damaged enough where sharpening will not correct the damage.

Always keep the work area and repair bench clean. Dirt ingested into close fitting parts, especially hydraulic components, can cause a repeat failure.

To avoid a falling injury, make sure the work area is well illuminated, the floor is clean and free of dirt, oil, water, or other debris.

Never handle a battery when smoking, or while near an open flame. Explosive gas is formed and contained in the battery.

Always wear safety glasses and heavy gloves when handling a battery. Blindness and skin burns can occur if acid is splashed or spilled. Flush the exposed area with fresh water, and call a doctor immediately when any accident involving a battery should occur.

DO NOT work under any part of the zero-turn mower unless it is supported by a hoist, floor jack and jack stands that are capable of supporting the weight of the unit.

Most service work requires the unit to be shut OFF. Remove the ignition key and put it in a safe place. Disconnect the negative (–) battery cable to insure the unit can not be started.

Do not operate the unit if shields or guards have been removed. Make sure all shields and guards are in place following all service or repair work.

Many solvents, cleaning agents and chemicals are flammable. Use a non-flammable cleaning agent to avoid the risk of fire.

Always dispose of dirty cleaning agents, old engine and hydraulic oil, in containers that can be sealed. Follow all government regulations when disposing of these materials.

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SECTION 10 - ENGINE

Chapter 1 - Engine

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