



LFTM 230 RECOMMENDED SPARES LIST

The following spare kits are recommended to help maximize your drilling up-time. Please contact your Boart Longyear sales representative for more information.



Drill Serial Number Range: LF230-2011-001 thru current

For Drill Build: DRILL MODULE, LF230 (3546455 Rev: J,K)
Document Number: 5400781 Rev. A
Effective Date: 1-Jan-2011

KIT SUMMARY

Level	1	2	3	Description	QTY	For Base Drill / Option
1	3547262			KIT, HYD MANIFOLD SPARES	1	Basic Drill Assembly (5003188)
1	5401433			KIT, W/L HOIST SPARES LF230	1	Basic Drill Assembly (5003188)
1	3546942			KIT, 40K BRADEN HOIST SEAL	1	Basic Drill Assembly (5003188)
1	3547276			KIT, 40K M/L HOIST MOTOR SEAL	1	Basic Drill Assembly (5003188)
1	3546954			KIT, 40K BRADEN HOIST SPARES	1	Basic Drill Assembly (5003188)
1	5401633			KIT, UPPER CONSOLE SPARES	1	Basic Drill Assembly (5003188)
1	5401479			KIT, LF230 CTRL PANEL SPARES	1	Basic Drill Assembly (5003188)
1	5401398			KIT, LF230 HYD FILTER 1000HRS	1	Basic Drill Assembly (5003188)
1	3547260			KIT, HYDRAULIC TANK SPARES	1	Basic Drill Assembly (5003188)
1	3547257			KIT, LOWER MAST SPARES	1	Basic Drill Assembly (5003188)
1	3548175			KIT, PARKER P3 SEAL	1	Basic Drill Assembly (5003188)
1	3547271			KIT, MAST SLIDE CYLINDER SEAL (DUMP)	1	Basic Drill Assembly (5003188)
1	3547259			KIT, CROWN BLOCK SPARES	1	Basic Drill Assembly (5003188)
1	3547258			KIT, PQ HEAD SPARES LF230	1	PQ Nitro Chuck™ Head (3546088)
1	3544255			VALVE ASM, LOCK LEVELING JACK	1	Hydraulic Leveling Jacks (3546719)
1	3544256			KIT, LOCK VALVE ASM SEAL	1	Hydraulic Leveling Jacks (3546719)
1	5401431			KIT, QSC8.3 FILTER 1000HRS	1	Cummins Engine / Pump Module (5003254)
1	5401432			KIT, QSC8.3 TIER3 SPARES	1	Cummins Engine / Pump Module (5003254)
1	3547283			KIT, PVP33 ROXROTH PUMP SEAL	1	Cummins Engine / Pump Module (5003254)
1	3540345			SEAL KIT, HYD PUMP 19CC	1	Cummins Engine / Pump Module (5003254)
1	102631			KIT, W11 SPARES	1	W11 Fluid Circulation Pump (3547029)
1	5400489			KIT, W11 BEAN PUMP LINER	1	W11 Fluid Circulation Pump (3547029)
1	3544481			SEAL KIT, MOTOR	1	W11 Fluid Circulation Pump (3547029)
1	5401289			KIT, L09 PUMP MODULE SPARES	1	Diesel Powered Supply Pump (3670446)
1	102633			KIT, MUD MIXER PORTABLE SPARES	1	Portable Mud Mixer (102306)
1	3541118			KIT, MUD MIXER 250GAL SPARES	1	Mud Tank & Mixer (3540997)

Level 1 - Part numbers to order for a complete kit.

Level 2 & 3 - Part numbers represent the items included in complete kits. They are also available for individual purchase. (Some exceptions apply)

SPARES FOR BASIC DRILL ASSEMBLY - DETAIL

Level	1	2	3	Description	QTY	For Base Drill / Option
1	3547262			KIT, HYD MANIFOLD SPARES	1	Basic Drill Assembly (5003188)
2		3543401		VALVE, PRESS REDUCING	1	
2		100705		VALVE, 2 POS 3-WAY CARTRIDGE	1	
2		3543688		VALVE, REDUCING/RELIEVING	1	
2		3543297		CARTRIDGE, HYD CHECK	1	
2		97001		VALVE, CARTRIDGE	1	
2		97003		CARTRIDGE, RELIEF VALVE	1	
2		97004		VALVE, CARTRIDGE RELIEF	1	
2		97005		CARTRIDGE, NEEDLE VALVE	1	
2		97006		CARTRIDGE, VALVE SEQUENCE	1	
2		103329		CARTRIDGE, COUNTER BALANCE	2	
2		3547013		CARTRIDGE, SHUTTLE VALVE	1	
2		103316		VALVE, CARTRIDGE CHECK	1	
2		3543453		VALVE, PRESSURE REDUCING	1	



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SPARES FOR BASIC DRILL ASSEMBLY - DETAIL (continued)

Level	1	2	3	Description	QTY	For Base Drill / Option
1	5401433			KIT, W/L HOIST SPARES LF230	1	Basic Drill Assembly (5003188)
2		89807		BEARING BALL 20ID	2	
2		3003914		CHAIN, 3/8P X 142P ROLLER	1	
2		3070409		BEARING, FLANGE 35ID Y-TYPE	2	
2		3070406		BRG, BALL DEEP GROOVE BALL	1	
2		3069480		VALVE, SHUTTLE	1	
2		3070567		CARTRIDGE, COUNTERBALANCE	1	
2		3070718		CARTRIDGE, FLOW CTRL	1	
1	3546942			KIT, 40K BRADEN HOIST SEAL	1	Basic Drill Assembly (5003188)
1	3547276			KIT, 40K M/L HOIST MOTOR SEAL	1	Basic Drill Assembly (5003188)
1	3546954			KIT, 40K BRADEN HOIST SPARES	1	Basic Drill Assembly (5003188)
2				WASHER, THRUST	1	
2				WASHER, THRUST	6	
2				ROLLER	51	
2				SPIROL PIN	6	
2				ROLLER	42	
2				WASHER, THRUST	6	
2				BEARING SPACER	3	
2				BEARING CUP	6	
2				BEARING CONE	6	
2				ROLL PIN	3	
2				FRICITION DISC	9	
2				BRAKE DISC	9	
2				SPRING	1	
2				SIGHT GAUGE	1	
2				BEARING CUP	1	
2				BEARING CONE	1	
2				HOSE ASSY	1	
2				HOSE ASSY	1	
2		3547275		SPRAG CLUTCH ASSY	1	
2				BEARING CUP	1	
2				BEARING CONE	1	
2				WASHER, THRUST	1	
2				WASHER, THRUST	1	
2		5400938		ANCHOR, CABLE	1	
2				SPHERIAL ROLLER BEARING	1	
2				LOCKWASHER	4	
2				CAPSCREW	4	
1	5401633			KIT, UPPER CONSOLE SPARES	1	Basic Drill Assembly (5003188)
2		3549105		DISPLAY, ENGINE CANTRAK	1	
2		3549103		INDICATOR, LED RED 10MM	1	
2		3549118		INDICATOR, YELLOW LED 10MM	1	
2		3549117		INDICATOR, BLUE LED 10MM	1	
2		3549234		KEY SWITCH, IGNITION	1	
2		3548165		GAUGE, ISOLATOR	1	
2		3548136		GAUGE, PRESSURE 0-3000 PSI BAR	1	
2		3548533		GAUGE, PRESSURE (0-1500 PSI)	1	
2		3548534		GAUGE, PRESSURE (0-5000 PSI)	1	
2		3549489		SWITCH, SPDT MOMENTARY	1	
2		3549488		SWITCH, SPST	1	
2		3549490		SWITCH,DPDT MOMENTARY	1	
2		3547373		THROTTLE CONTROL, MANUAL ENGINE	1	
2		3549485		SWITCH, SPST	1	



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SPARES FOR BASIC DRILL ASSEMBLY - DETAIL (continued)

Level	1	2	3	Description	QTY	For Base Drill / Option
1	5401479			KIT, LF230 CTRL PANEL SPARES	1	Basic Drill Assembly (5003188)
2		3542112		SWITCH, SELECTOR 3 POSITION	1	
2		3540067		SWITCH, SELECTOR (2-POSITION)	1	
2		3549293		JOYSTICK, DANFOSS SAFETY	1	
2		3549307		JOYSTICK, PQ ROTATION C/W LOCK	1	
2		3541292		POTENTIOMETER, 1K	1	
2		3547298		BUTTON, EMERGENCY STOP PUSH	1	
2		3549308		SWITCH ASM, LF230 MAKE/BREAK	1	
2		3547303		BREAKER, 15 AMP	1	
2		3541330		BREAKER, 10AMP CIRCUIT	1	
2		3541331		BREAKER, 5AMP CIRCUIT	1	
2		3547302		BREAKER, 2 AMP	1	
2		3549445		CUBE, MAKE/BREAK CIRCUIT	1	
2		3548327		RELAY, 12VDC	1	
2		3547921		RELAY, TIMER	1	
2		3070513		RAMP GENERATOR, WIRELINE	1	
2		3070515		TIMER, DELAY ON RELEASE	1	
2		3549481		CONNECTOR, TURCK 4 PIN	4	
2		5003569		RELAY, 12VDC TERMINAL BLOCK	1	
2		5004309		RELAY, 12/24V TIMED	1	
2		5003459		CABLE, 2M LG MICRO M12	1	
2		5003463		CONNECTOR, ELECT DIN LED	1	
2		5003464		CONNECTOR, ELECT DIN MINI	1	
2		5003465		CONNECTOR, ELECT DIN MICRO	1	
1	5401398			KIT, LF230 HYD FILTER 1000HRS	1	Basic Drill Assembly (5003188)
2		100236		ELEMENT, HYD FILTER OIL RETURN	4	
2		3547871		ELEMENT, MEDIUM PRESS FILTER	4	
2		3547872		ELEMENT, SPIN-ON FILTER	3	
1	3547260			KIT, HYDRAULIC TANK SPARES	1	Basic Drill Assembly (5003188)
2		3548020		GAUGE, FLUID LEVEL	1	
2		100236		ELEMENT, HYD FILTER OIL RETURN	6	
1	3547257			KIT, LOWER MAST SPARES	1	Basic Drill Assembly (5003188)
2		3541889		SEAL KIT, TELESCOPIC CYLINDER	2	
2		3546115		SEAL KIT, HYDRAULIC CYLINDER	1	
2		43021		SEAL KIT, HYD CYLINDER	2	
2		3546617		WEAR STRIP, UPPER	2	
2		3546618		WEAR STRIP, CENTER	2	
2		3546619		WEAR STRIP, LOWER	2	
2		3546631		BUSHING, 1"ID 1-1/4"OD 1-1/2	1	
2		3546627		BUSHING, 1-1/4"ID 1-1/2 2"LG	2	
2		3541120		WEAR STRIP, TOP MAST SLIDE	2	
2		3541119		WEAR STRIP, BOTTOM MAST SLIDE	2	
2		3540670		WEAR STRIP,UPPER MAST SLIDE AS	2	
2		3540671		WEAR STRIP,LOWER MAST SLIDE AS	2	
2		3540783		WEAR STRIP, UPPER MAST RAISING	2	
2		3540786		WEAR STRIP, LOWER MAST RAISING	2	
1	3548175			KIT, PARKER P3 SEAL	1	Basic Drill Assembly (5003188)
1	3547271			KIT, MAST SLIDE CYLINDER SEAL (DUMP)	1	Basic Drill Assembly (5003188)
1	3547259			KIT, CROWN BLOCK SPARES	1	Basic Drill Assembly (5003188)
2		3546732		SHEAVE ASM, LF230 CROWN BLOCK	1	
2		104141		SHEAVE, W/L 8" REWORK	2	
2		3547038		BEARING, DOUBLE SHEILD BALL	4	



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Level	1	2	3	Description	QTY	For Base Drill / Option
1	3547258			KIT, PQ HEAD SPARES LF230	1	PQ Nitro Chuck TM Head (3546088)
2		3541832		SEAL KIT, PQ ROTATION MOTOR	1	
2		3543526		SEAL KIT, PQ N/CHUCK	1	
3			3543500	CUP SEAL, INNER URETHANE	1	
3			3543501	CUP SEAL, OUTER URETHANE	2	
3			3543502	CUP SEAL, PISTON URETHANE	1	
3			3543503	O'RING, PQ CHUCK SPINDLE	1	
3			3543504	RING, BACK-UP PQ CHUCK SPINDLE	1	
3			3543505	O'RING, PQ CHUCK CYLINDER	1	
3			3543506	RING, BACK-UP PQ CHUCK CYLINDER	1	
3			3543508	SEAL, OIL GUIDE PIN	3	
3			3543519	O'RING, GAS SPRING PQ CHUCK	7	
2		5000405		SEAL KIT, PQ HEAD	1	
3			3547404	O-RING, SAE 237 BUNA-N 70D	1	
3			306487	SHIM, .005 THICK	3	
3			306488	SHIM, .007 THICK	3	
3			306489	SHIM, .020 THICK	1	
3			3548734	O-RING, SAE 276 VITON 75D	1	
3			3548735	O-RING, SAE 270 VITON 75D	1	
3			306599	SEAL, ID 5.75" OD 6.625" OIL	2	
3			306600	SEAL, ID 8.5" OD 9.75" OIL	2	
3			48761	O-RING, SAE 235 BUNA-N 70D	1	
3			3548736	O-RING, SAE 257 VITON 75D	2	
3			44766	WIRE, O.47 DIA SAFETY (TRAX6")	6 IN	
2		3541060		KIT, FUNK TRANS OVERHAUL	1	
3			95357	SLEEVE, BEARING	1	
3			95363	BEARING, 2ND,3RD CENTER SHFT	4	
3			3549020	BEARING, FUNK TRANS	1	
3			95365	BRG, REAR	1	
3			95367	ROLLER, 34 PER SET	34	
3			3541202	WASHER, PQ HEAD THRUST REWORK	1	
3			95372	BEARING,	1	
3			95377	GASKET,	2	
3			95378	O-RING,	4	
3			3546622	DISC, TRANSMISSION INTERLOCK	3	
3			3546620	SPRING, EXTRA HEAVY GREEN DIE	2	
3			95410	PIN, ROLL	4	
3			95413	PIN, ROLL	2	
3			95414	SEAL, OIL	2	
3			3540646	SEAL, RING FUNK TRANS LF140	1	
3			79792	PILOT, BEARING TRANS	1	
3			95418	BEARING, BALL	1	
3			95419	SPACER,	1	
3			95420	BEARING, FUNK TRANSMISSION	1	
3			95421	SNAP RING	1	
3			103281	SPACER, SHIM	6	
3			44766	WIRE, O.47 DIA SAFETY (TRAX6")	6 IN	
2		3547044		PUMP, HYD GEAR 4.92 LF230 PQ	1	
2		3546626		BUSHING, 1.25"ID 1.5"OD 1"LG	2	
2		3549290		KIT, SPLINED ADAPTOR	1	
2		306494		WEAR SLEEVE, OUTPUT	1	
2		306602		SLEEVE, 5.75" DIA	2	
2		3546752		SLEEVE, PQ SPINDLE WEAR	1	



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SPARES FOR OPTIONAL EQUIPMENT - DETAIL

Level	1	2	3	Description	QTY	For Base Drill / Option
1	3544255			VALVE ASM, LOCK LEVELING JACK	1	Hydraulic Leveling Jacks (3546719)
1	3544256			KIT, LOCK VALVE ASM SEAL	1	Hydraulic Leveling Jacks (3546719)
1	5401431			KIT, QSC8.3 FILTER 1000HRS	1	Cummins Engine / Pump Module (5003254)
2		3548440		FILTER, PRIMARY FUEL 3 MICRON	2	
2		3548470		SEPARATOR, QSB6.7 TIER 3 FUEL	2	
2		3548441		FILTER, LUBE OIL	4	
2		3548442		FILTER, COOLANT	2	
2		3548443		FILTER, INNER AIR	2	
2		3548444		FILTER, OUTER AIR	2	
1	5401432			KIT, QSC8.3 TIER3 SPARES	1	Cummins Engine / Pump Module (5003254)
2		5401455		THERMOSTAT, QSC8.3 TIER3	1	
2		5000357		ALTERNATOR, CUMMINS QSC8.3 TIER III	1	
2		5400741		SUPPORT, FAN HUB ASM QSC8.3-P	1	
2		5401456		PUMP, TRANSFER FUEL QSC8.3	1	
2		5001979		HOSE, CHARGE AIR COOLER 4"ID	4	
2		5001983		CLAMP, HOSE 4" CAC	8	
2		3547358		STARTER, QSC CUMMINS ENGINE	1	
2		5401457		PUMP, WATER QSC8.3 TIER3	1	
2		5005191		FAN BELT, CUMMINS	1	
2		5401458		TENSIONER, BELT QSC8.3	1	
2		5001976		CLAMP, RAD HOSE #40	8	
2		5001981		HOSE, RAD LOWER	4	
2		5001977		CLAMP, RAD HOSE #10	2	
2		5401459		HOSE, FILL LINE 3/4 ID X 4 FT	1	
2		5401460		HOSE, VENT LINE 3/8 ID X 3 FT	1	
2		5401461		CLAMP, VENT LINE HOSE QSC8.3	2	
2		5401462		FUSE, 5 AMP TYPE 0	2	
2		5401463		FUSE, 15 AMP TYPE 0	2	
2		5401464		FUSE, 30 AMP TYPE 0	2	
2		3548592		ADAPTER, 14" NYLON FLYWHEEL	1	
1	3547283			KIT, PVP33 ROXROTH PUMP SEAL	1	Cummins Engine / Pump Module (5003254)
1	3540345			SEAL KIT, HYD PUMP 19CC	1	Cummins Engine / Pump Module (5003254)
1	102631			KIT, W11 SPARES	1	W11 Fluid Circulation Pump (3547029)
2		100625		COUPLING HUB, 1" BORE	1	
2		100627		INSERT, COUPLING	1	
2		102136		COUPLING HUB, 1.5 BORE	1	
2		19163		GAUGE, PRESSURE	1	
2		36686		SPARE PARTS KIT, BEAN W1122B	1	
3			79321	SEAL, OIL	6	
3			79103	LINER, CYL CERAMIC / STEEL	3	
3			75070	GASKET, CYL JOINT	3	
3			75071	GASKET, HEAD CYL COPPER	24	
3			79324	SEAT, W11 VALVE	6	
3			26157	BALL, 1 1/8 SS	6	
3			75069	GASKET, VALVE COVER COPPER	12	
3			79606	PACKING, W11 CARBOX & POLY/COT	12	
3			75012	NUT, PACKING	3	
3			79327	O-RING, PACK HOLDER	3	



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SPARES FOR OPTIONAL EQUIPMENT - DETAIL (continued)

Level	1	2	3	Description	QTY	For Base Drill / Option
1	5400489			KIT, W11 BEAN PUMP LINER	1	W11 Fluid Circulation Pump (101972)
2		75012		NUT, PACKING	3	
2		75027		NUT, PLUNGER	3	
2		79903		CYLINDER	3	
2		75004		PLUNGER CUP, L09 NIT/FAB	3	
2		75028		CUP, PLUNGER	3	
2		75059		WASHER, PACKING	3	
1	3544481			SEAL KIT, MOTOR	1	W11 Fluid Circulation Pump (3547029)
1	5401289			KIT, L09 PUMP MODULE SPARES	1	Diesel Powered Supply Pump (3670446)
2		19163		GAUGE, PRESSURE	1	
2		36685		KIT, 420/520 L09 PUMP SPARES	1	
3			79321	SEAL, OIL	6	
3			79066	CYLINDER, CERAMIC STEEL BACKED	3	
3			75066	GASKET, CYL NITRILE	3	
3			75068	GASKET, CYL HEAD NITRILE	24	
3			79614	SEAT, L09 VALVE	6	
3			25307	BALL, 7/8" S/S	6	
3			75067	GASKET, VALVE COVER NITRILE	12	
3			79607	PACKING, L09 CARBOX & POLY/COT	12	
3			75012	NUT, PACKING	3	
3			79327	O-RING, PACK HOLDER	3	
3			79335	HOLDER, 2-1/4 CYL SEAL	3	
2		3670443		BELT, DRIVE	1	
1	102633			KIT, MUD MIXER PORTABLE SPARES	1	Portable Mud Mixer (102306)
2		101557		CPLG, JAW 5/8 BORE	1	
2		101494		SPIDER, RUBBER	1	
2		101490		CPLG, 1 JAW	1	
2		96770		KIT, CARTRIDGE SEAL	1	
2		96653		KIT, PLATE SEAL	1	
1	3541118			KIT, MUD MIXER 250GAL SPARES	1	Mud Tank & Mixer (3540997)
2		3548491		MOTOR, HYDRAULIC MUD MIXER	1	
2		34424		HUB, WOODS MODEL 6/J	1	
2		34425		HUB, WOODS MODEL 6/J	1	
2		34426		INSERT, COUPLING	2	
2		3540349		SHAFT, ARBOR (MUD MIXER)	1	
2		20324		BEARING, THRUST	4	
2		3540353		SEAL, GREASE	6	
2		34949		RETAINING RING,	4	