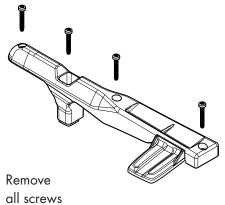


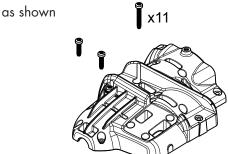
ENGINE DRIVEN DRILL WORKSHOP MANUAL

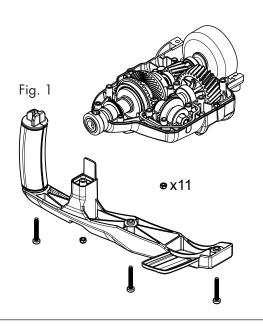
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STEP 1

View after removing handles and LH Casing Fig. 2

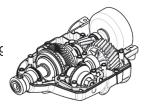


Fig. 2

STEP 2

Lift out clutch drum and spur gear assembly Fig. 3



Fig. 3

STEP 3

Lift out spur drive gear and pinion assembly Fig. 4

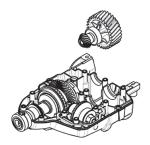


Fig. 4

STEP 4

Lift out pinion and spiral crown gear assembly Fig. 5

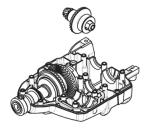


Fig. 5

STEP 5

Lift out main drive gear assembly Fig. 6

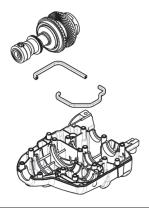


Fig. 6

Thoroughly clean all parts

Atom products, including developments of **AIRLIFT**® and **BLOWMASTER**® blowers, blower anti-vibration handle system, **SMARTFAN**® impellers, and **DRILLMASTER**® engine powered drills with automatic reverse gear and rotary throttle control, are extensively protected by many Patents Pending, Patents, Registered Designs, and Registered Shapes and many Trade Marks including Atom Trade Mark 1,463,4000. Additionally, US Patent No. 8,210,272-B2 tiller construction also covers and protects Atom Lawn Edger construction.

Registration No. 1470990 is a REGISTERED SHAPE of the Atom Lawn Edger consisting of three dimensional shape of lawn edgers having a ground engaging wheel supporting a motor or engine and a pair of handles in a wheelbarrow-like configuration.

Atom Engine Drill: Inspect - Clean - Repair - Assemble

2. Lift Drum and spur gear shaft out of casing. To replace Drum, hold tightly in gloved hand and spin off clutch nut in left hand rotation (normal RH thread) with air ratchet Fig. 7.

To reassemble fit clutch hub, drum, washer and screw nut up fully by hand.

! NOTE Washer under nut must fit over and around clutch rib spigot.

Tighten nut by holding drum with gloved hand and air ratchet drive (right hand rotation).

! NOTE Spur gear and shaft replaced as on assembly as in Fig. 3.

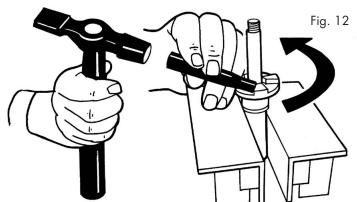
3. To repair drive and pinion gears, remove 6mm screw. Slide parts off. Replace parts if required. Fig. 8.

To remove pinion hold shaft in vice fitted with soft jaws (use two pieces aluminium angle) and remove pinion in right hand rotation (left hand thread). Fig. 9.

- 4. To replace pinion or spiral crown gear assembly, hold outer gear diameter in vice with soft jaws and remove nut in left hand (normal RH thread) rotation. Fig. 10.
- 5. To replace gears, bearings, clutch dogs, place rear end dog clutch vertically in a strong vice (Fig. 11) fitted with soft jaws or use two pieces of aluminium angle.

Remove locking collar, insert 12mm bar through grub screw hole as shown in Fig. 11. Turn shaft clockwise (LH thread) to remove clutch dog. Slide off all parts and inspect. Replace as required. Reverse process to assemble.

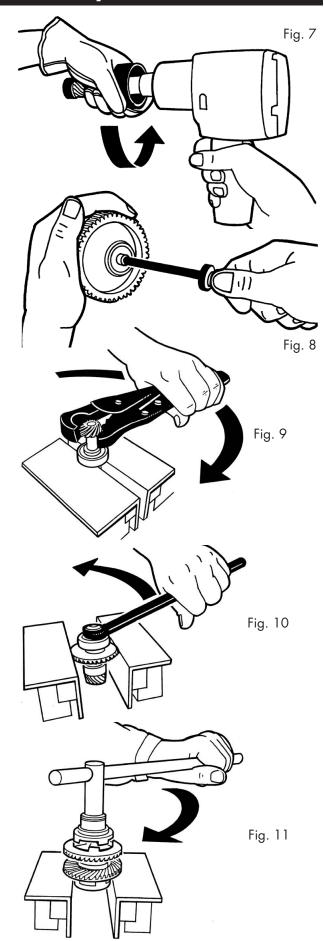
To remove front gear dog, place shaft in vice (Fig. 12) and tap counter clockwise (normal RH thread).



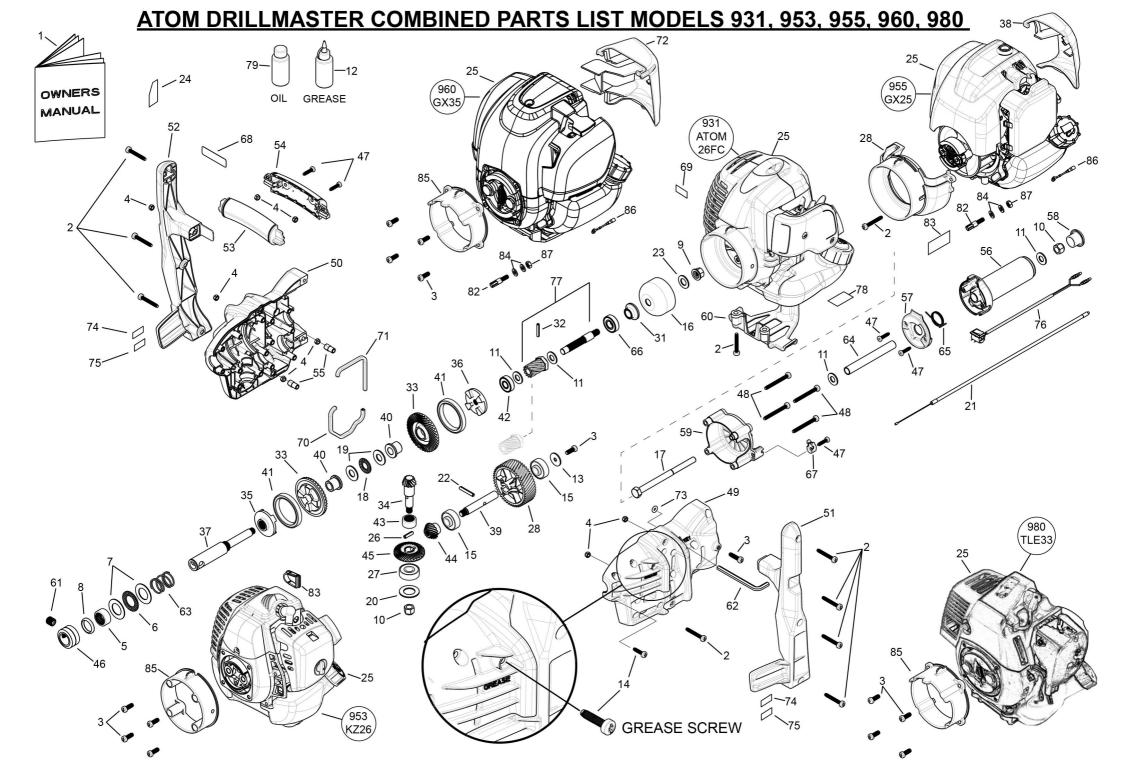
Clean all parts before reassembly. To assemble reverse above procedure. Re-assemble in (reverse) sequence of Fig. 6, 5, 4, 3 and 2. Thoroughly grease all parts and pack about 30cc of grease in and around all gear teeth. Install 2 casings rubber gaskets, place top casing on, use 4-5 screws to hold together then check gears turn smoothly. Complete final assembly.

For engine explosions and Parts list, visit our website: www.atomindustries.com

Go to **Find Parts, Order & Service Info** page and enter the engine model number. Refer to Parts List attached.



Atom Industries is a division of Solo Industries Pty Ltd – an Australian owned company that invents, designs and manufactures unique and outstanding products for local tough and hard Australian conditions with a history of international award winning gold medals, great backup and service since 1961. Atom has a policy of continuous product improvement and development and reserves the right to modify the design and appearance of products without notice.



ATOM PRODUCT: ATOM ENGINE DRILL COMBINED PARTS LIST - ALL MODELS

MODEL NO: 931,953,950,960,980

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BEARING NEEDLE 12 x 26 x 2	16	44318		DRUM CLUTCH CUP 54mm (931,953,955)	47	64194		SCREW T20 x 19.50 SELF TAP	77	64415		DR SHAFT & GEAR ASSY 12/33 (953,950)
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Quarter Quar	18	62964		BEARING NEEDLE 12 x 26 x 2	48	64384		SCREW T20 4 x 50	78	63219		LABEL HOT MOT/OIL
21 63263	19	62965		WASHER THRUST 12 x 26 x 1.5	48	64385		WASHER 4 x 9 x 1	79	48100		OIL 100ML (HON GX35)
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22 63275 PIN ROLL 5 x 30 50 64211RN 64859RN DR MAIN CAS RH #64859RN 82 62968 CABLE CONNECTOR M6 x 1.00 23 63277 WASHER 12x22.22x1 (931,953,955) 51 64212WN DR MAIN HANDLE LH 83 62969RN PLUG MUFFLER Z26 23 43116 WASHER 45 x 12 x 2 (960,980) 52 64213WN DR MAIN HANDLE RH 84 63457 WASHER 6.4 x 12.5 x 1.5 ZP 24 63322 LABEL BL WARN SYMBOLS 53 64216WP DR GRIP FRONT W/RUBBER 85 63360RN MOUNT ENGINE Z26 25 48002A ENG HONDA GX35 Model No 765 54 64217WP DR GRIP BACK W/RUBBER 85 63361RN MOUNT ENGINE PRO 25 48004A ENG HONDA GX25 Model No 764 55 64218WP DR NUT RETAINER 86 63355 GROUND WIRE 25 6293A ENG Z26 Model No 763 56 64219WP DR THROTTLE HANDLE (931) 87 63169 NUT M6 X 1mm 25 63405A ENG ATOM 26FCS Model No 767 56 64234WP DR THR HAN W/RUB (953,955,960,980) 26 63440 PIN ROLL 5 x 18 57 64220WP DR THR HANDLE COV 27 63474 BEARING 32 x 10 x 12 58 64221WP DR THR HANDLE CAP 28 63780 DR HELIC GEAR 48T/12 59 64222WN DR THR MOUNT ATOM 28 64344 DR HELIC GEAR 48T/12 59 6422WN DR THR MOUNT ATOM 28 64346 DR GEAR HELIC T30/15 (960,980) 59 64225RN DR THR MOUNT MISSU TLE 33 29 63806RN MOUNT/FAN COWL GX25 60 64226WP DR TANK GUARD A26FC	21	63263		CABLE THROTTLE (931)	49	64210RN	64859RN	DR MAIN CAS LH #64859RN	80	64859GN		SET ENG DRILL CASING
23 63277 WASHER 12x22.22x1 (931,953,955) 51 64212WN DR MAIN HANDLE LH 83 62969RN PLUG MUFFLER Z26	21	64227		DR THROTTLE CABLE 345+77	50	64211GN	64859GN	DR MAIN CAS RH #64859GN	81	64859RN		SET ENG DRILL CASING
23 43116 WASHER 45 x 12 x 2 (960,980) 52 64213WN DR MAIN HANDLE RH 84 63457 WASHER 6.4 x 12.5 x 1.5 ZP 24 63322 LABEL BL WARN SYMBOLS 53 64216WP DR GRIP FRONT W/RUBBER 85 63360RN MOUNT ENGINE Z26 25 48002A ENG HONDA GX35 Model No 765 54 64217WP DR GRIP BACK W/RUBBER 85 63361RN MOUNT ENGINE PRO 26 48004A ENG HONDA GX25 Model No 764 55 64218WP DR NUT RETAINER 86 63355 GROUND WIRE 27 63405A ENG ATOM 26FCS Model No 767 56 64219WP DR THROTTLE HANDLE (931) 87 63169 NUT M6 X 1mm 28 63440 PIN ROLL 5 x 18 57 64220WP DR THRO HANDLE COV 29 63474 BEARING 32 x 10 x 12 58 64221WP DR THR HANDLE CAP 20 634340 DR HELIC GEAR 48T/12 59 64222WN DR THR MOUNT ATOM 20 64344 DR HELIC GEAR T33/12 (953,955) 59 64224WN DR THR MOUNT GX35 21 6346 DR GEAR HELIC T30/15 (960,980) 59 64225RN DR TANK GUARD A26FC	22	63275		PIN ROLL 5 x 30	50	64211RN	64859RN	DR MAIN CAS RH #64859RN	82	62968		CABLE CONNECTOR M6 x 1.00
24 63322 LABEL BL WARN SYMBOLS 53 64216WP DR GRIP FRONT W/RUBBER 85 63360RN MOUNT ENGINE Z26 25 48002A ENG HONDA GX35 Model No 765 54 64217WP DR GRIP BACK W/RUBBER 85 63361RN MOUNT ENGINE PRO 25 48004A ENG HONDA GX25 Model No 764 55 64218WP DR NUT RETAINER 86 63355 GROUND WIRE 25 6293A ENG Z26 Model No 767 56 64219WP DR THROTTLE HANDLE (931) 87 63169 NUT M6 X 1mm 25 63405A ENG ATOM 26FCS Model No 767 56 64234WP DR THR HAN W/RUB (953,955,960,980) NUT M6 X 1mm 26 63440 PIN ROLL 5 x 18 57 64220WP DR THRO HANDLE COV NUT M6 X 1mm 27 63474 BEARING 32 x 10 x 12 58 64221WP DR THR HANDLE CAP NUT M6 X 1mm 28 63780 DR HELIC GEAR 48T/12 59 64222WN DR THR MOUNT ATOM NUT M6 X 1mm 28 64346 DR GRIP HELIC T30/15 (960,980) 59 64225RN DR THR MOUNT Mitsu TLE 33 NUT M6 X 1mm 29	23	63277		WASHER 12x22.22x1 (931,953,955)	51	64212WN		DR MAIN HANDLE LH	83	62969RN		PLUG MUFFLER Z26
25 48002A ENG HONDA GX35 Model No 765 54 64217WP DR GRIP BACK W/RUBBER 85 63361RN MOUNT ENGINE PRO 25 48004A ENG HONDA GX25 Model No 764 55 64218WP DR NUT RETAINER 86 63355 GROUND WIRE 25 6293A ENG Z26 Model No 763 56 64219WP DR THROTTLE HANDLE (931) 87 63169 NUT M6 X 1mm 25 63405A ENG ATOM 26FCS Model No 767 56 64234WP DR THR HAN W/RUB (953,955,960,980) NUT M6 X 1mm 26 63440 PIN ROLL 5 x 18 57 64220WP DR THR HANDLE COV DR THR HANDLE COV 27 63474 BEARING 32 x 10 x 12 58 64221WP DR THR HANDLE CAP 28 63780 DR HELIC GEAR 48T/12 59 64222WN DR THR MOUNT ATOM 28 64344 DR HELIC GEAR T33/12 (953,955) 59 64224WN DR THR MOUNT GX35 28 64346 DR GEAR HELIC T30/15 (960,980) 59 64225RN DR THR MOUNT Mitsu TLE 33 29 63806RN MOUNT/FAN COWL GX25 60 64226WP DR TANK GUARD A26FC	23	43116		WASHER 45 x 12 x 2 (960,980)	52	64213WN		DR MAIN HANDLE RH	84	63457		WASHER 6.4 x 12.5 x 1.5 ZP
25 48004A ENG HONDA GX25 Model No 764 55 64218WP DR NUT RETAINER 86 63355 GROUND WIRE 25 62993A ENG Z26 Model No 763 56 64219WP DR THROTTLE HANDLE (931) 87 63169 NUT M6 X 1mm 25 63405A ENG ATOM 26FCS Model No 767 56 64234WP DR THRO HANDLE COV 26 63440 PIN ROLL 5 x 18 57 64220WP DR THRO HANDLE COV 27 63474 BEARING 32 x 10 x 12 58 64221WP DR THR HANDLE CAP 28 63780 DR HELIC GEAR 48T/12 59 64222WN DR THR MOUNT ATOM 28 64344 DR HELIC GEAR T33/12 (953,955) 59 64224WN DR THR MOUNT GX35 28 64346 DR GEAR HELIC T30/15 (960,980) 59 64225RN DR THR MOUNT Mitsu TLE 33 29 63806RN MOUNT/FAN COWL GX25 60 64226WP DR TANK GUARD A26FC	24	63322		LABEL BL WARN SYMBOLS	53	64216WP		DR GRIP FRONT W/RUBBER	85	63360RN		MOUNT ENGINE Z26
25 62993A ENG Z26 Model No 763 56 64219WP DR THROTTLE HANDLE (931) 87 63169 NUT M6 X 1mm 25 63405A ENG ATOM 26FCS Model No 767 56 64234WP DR THR HAN W/RUB (953,955,960,980) 26 63440 PIN ROLL 5 x 18 57 64220WP DR THRO HANDLE COV 27 63474 BEARING 32 x 10 x 12 58 64221WP DR THR HANDLE CAP 28 63780 DR HELIC GEAR 48T/12 59 64222WN DR THR MOUNT ATOM 28 64344 DR HELIC GEAR T33/12 (953,955) 59 64224WN DR THR MOUNT GX35 28 64346 DR GEAR HELIC T30/15 (960,980) 59 64225RN DR THR MOUNT Mitsu TLE 33 29 63806RN MOUNT/FAN COWL GX25 60 64226WP DR TANK GUARD A26FC	25	48002A		ENG HONDA GX35 Model No 765	54	64217WP		DR GRIP BACK W/RUBBER	85	63361RN		MOUNT ENGINE PRO
25 63405A ENG ATOM 26FCS Model No 767 56 64234WP DR THR HAN W/RUB (953,955,960,980) 26 63440 PIN ROLL 5 x 18 57 64220WP DR THRO HANDLE COV 27 63474 BEARING 32 x 10 x 12 58 64221WP DR THR HANDLE CAP 28 63780 DR HELIC GEAR 48T/12 59 64222WN DR THR MOUNT ATOM 28 64344 DR HELIC GEAR T33/12 (953,955) 59 64224WN DR THR MOUNT GX35 28 64346 DR GEAR HELIC T30/15 (960,980) 59 64225RN DR THR MOUNT Mitsu TLE 33 29 63806RN MOUNT/FAN COWL GX25 60 64226WP DR TANK GUARD A26FC	25	48004A		ENG HONDA GX25 Model No 764	55	64218WP		DR NUT RETAINER	86	63355		GROUND WIRE
26 63440 PIN ROLL 5 x 18 57 64220WP DR THRO HANDLE COV 27 63474 BEARING 32 x 10 x 12 58 64221WP DR THR HANDLE CAP 28 63780 DR HELIC GEAR 48T/12 59 64222WN DR THR MOUNT ATOM 28 64344 DR HELIC GEAR T33/12 (953,955) 59 64224WN DR THR MOUNT GX35 28 64346 DR GEAR HELIC T30/15 (960,980) 59 64225RN DR THR MOUNT Mitsu TLE 33 29 63806RN MOUNT/FAN COWL GX25 60 64226WP DR TANK GUARD A26FC	25	62993A		ENG Z26 Model No 763	56	64219WP		DR THROTTLE HANDLE (931)	87	63169		NUT M6 X 1mm
27 63474 BEARING 32 x 10 x 12 58 64221WP DR THR HANDLE CAP 28 63780 DR HELIC GEAR 48T/12 59 64222WN DR THR MOUNT ATOM 28 64344 DR HELIC GEAR T33/12 (953,955) 59 64224WN DR THR MOUNT GX35 28 64346 DR GEAR HELIC T30/15 (960,980) 59 64225RN DR THR MOUNT Mitsu TLE 33 29 63806RN MOUNT/FAN COWL GX25 60 64226WP DR TANK GUARD A26FC	25	63405A		ENG ATOM 26FCS Model No 767	56	64234WP		DR THR HAN W/RUB (953,955,960,980)				
28 63780 DR HELIC GEAR 48T/12 59 64222WN DR THR MOUNT ATOM 28 64344 DR HELIC GEAR T33/12 (953,955) 59 64224WN DR THR MOUNT GX35 28 64346 DR GEAR HELIC T30/15 (960,980) 59 64225RN DR THR MOUNT Mitsu TLE 33 29 63806RN MOUNT/FAN COWL GX25 60 64226WP DR TANK GUARD A26FC	_			PIN ROLL 5 x 18	57	64220WP		DR THRO HANDLE COV				
28 63780 DR HELIC GEAR 48T/12 59 64222WN DR THR MOUNT ATOM 28 64344 DR HELIC GEAR T33/12 (953,955) 59 64224WN DR THR MOUNT GX35 28 64346 DR GEAR HELIC T30/15 (960,980) 59 64225RN DR THR MOUNT Mitsu TLE 33 29 63806RN MOUNT/FAN COWL GX25 60 64226WP DR TANK GUARD A26FC	27	63474		BEARING 32 x 10 x 12	58	64221WP		DR THR HANDLE CAP				
28 64344 DR HELIC GEAR T33/12 (953,955) 59 64224WN DR THR MOUNT GX35 28 64346 DR GEAR HELIC T30/15 (960,980) 59 64225RN DR THR MOUNT Mitsu TLE 33 MOUNT/FAN COWL GX25 60 64226WP DR TANK GUARD A26FC 				DR HELIC GEAR 48T/12	59	64222WN		DR THR MOUNT ATOM				
28 64346 DR GEAR HELIC T30/15 (960,980) 59 64225RN DR THR MOUNT Mitsu TLE 33 29 63806RN MOUNT/FAN COWL GX25 60 64226WP DR TANK GUARD A26FC				-	59	64224WN		DR THR MOUNT GX35				
29 63806RN MOUNT/FAN COWL GX25 60 64226WP DR TANK GUARD A26FC				DR GEAR HELIC T30/15 (960,980)								
				MOUNT/FAN COWL GX25	60	64226WP						
	30			,				SCREW GRUB M12x1.25x13				