



# USER MANUAL

## TORQUE CONTROL PULSE WRENCH

MODELS : FPT-550-1, -1L

PAT. P



FPT-550-1

### SPECIFICATIONS

Model	Capacity Bolt Size (Guidance)		Torque Range			Free Speed	Square Drive Size		Side to Center		Overall Length		Mass		Air Consumption (Under Load)		Air Inlet Thread Size
	mm	in	N·m	kgf·m	ft·lb		mm	in	mm	in	mm	in	kg	lb	Nm <sup>3</sup> /min	Nft <sup>3</sup> /min	
FPT-550-1	6~8	1/4~5/16	15~25	1.5~2.6	11.3~18.8	5,800	9.5	3/8	23.0	29/32	193	7.39/64	1.2	2.6	0.4	14.0	PT or NPT 1/4

\*All above tools are required to be used at air pressure between 0.5~0.63 MPa (5.0~6.3 bar). The performance figures are at 0.63 MPa (6.3 bar).  
 \*Air Hose Size: 6.3mm (1/4")

Model	Capacity Bolt Size (Guidance)		Torque Range			Free Speed	Square Drive Size		Side to Center		Overall Length		Mass		Air Consumption (Under Load)		Air Inlet Thread Size
	mm	in	N·m	kgf·m	ft·lb		mm	in	mm	in	mm	in	kg	lb	Nm <sup>3</sup> /min	Nft <sup>3</sup> /min	
FPT-550-1L	6~8	1/4~5/16	12~20	1.2~2.0	9~15	4,900	9.5	3/8	23.0	29/32	193	7.39/64	1.2	2.6	0.20	7.0	PT or NPT 1/4

\*All above tools are required to be used at air pressure between 0.4~0.5 MPa (4.0~5.0 bar). The performance figures are at 0.4 MPa (4.0 bar).  
 \*Air Hose Size: 6.3mm (1/4")

Refer to "The Instructions and Warning for Safety Use" enclosed in each tool box.



# PARTS LIST MODEL: FPT-550-1, -1L

Index No.	Parts No.	Parts Name	Qt.
<b>FPT-550-1</b>			
CP No.	W-330006-00	Housing CP	
110	W-276110-01	Throttle Valve	1
113	W-276113-01	Throttle Valve Rod	1
117	W-276117-00	Throttle Valve Spring	1
120	W-276120-01	Throttle Valve Cover	1
121	W-254121-00	Throttle Valve Lever	1
124	W-254124-00	Knock Spring	1
131	W-276131-00	Reverse Valve	1
132	W-276132-01	Reverse Valve Bushing	1
135	W-254135-00	Reverse Valve Lever	1
171	W-302171-00	Inlet Joint (PT)	1
171	W-302171-01	Inlet Joint (NPT)	1
201	W-330201-00	Housing	1
237	W-302237-00	Muffler Pad	1
250	W-302250-00	Exhaust Cover	1
557	W-276557-00	Rubber Protector	1
640	W-331640-00	Stop Valve	1
641	W-326641-00	Stop Valve Front Cover	1
642	W-326642-00	Stop Valve Rear Cover	1
643	W-331643-00	Stop Valve Spring (Black)	1
707	W-331707-00	Valve Cover	1
759	<b>W-331759-00</b>	Return Spring	1
777	W-331777-00	Collar	1
B01	SP-212	Spring Pin	1
B02	GP-220GLC	Grooved Pin	1
C01	O-S34	"O" Ring	2
C02	O-S9	"O" Ring	1
C03	O-S3	"O" Ring	1
C04	O-P8	"O" Ring	1
C05	O-S8	"O" Ring	1
C06	O-S18	"O" Ring	2
C07	O-S15	"O" Ring	1
D01	SS-46D	Set Screw	1
J01	B-3	Ball	1
J02	B-4U	Urethane Ball	1
J03	B-7	Ball	1

<b>FPT-550-1L</b>			
CP No.	W-330006-01	Housing CP	
110	W-276110-01	Throttle Valve	1
113	W-276113-01	Throttle Valve Rod	1
117	W-276117-00	Throttle Valve Spring	1
120	W-276120-01	Throttle Valve Cover	1
121	W-254121-00	Throttle Valve Lever	1
124	W-254124-00	Knock Spring	1
131	W-276131-00	Reverse Valve	1
132	W-276132-01	Reverse Valve Bushing	1
135	W-254135-00	Reverse Valve Lever	1
171	W-302171-00	Inlet Joint (PT)	1
171	W-302171-01	Inlet Joint (NPT)	1
201	W-330201-00	Housing	1
237	W-302237-00	Muffler Pad	1
250	W-302250-00	Exhaust Cover	1
557	W-276557-00	Rubber Protector	1
640	W-331640-00	Stop Valve	1
641	W-326641-00	Stop Valve Front Cover	1
642	W-326642-00	Stop Valve Rear Cover	1
643	W-331643-01	Stop Valve Spring (Silver)	1
707	W-331707-00	Valve Cover	1
759	W-331759-00	Return Spring	1
777	W-331777-00	Collar	1
B01	SP-212	Spring Pin	1
B02	GP-220GLC	Grooved Pin	1
C01	O-S34	"O" Ring	2
C02	O-S9	"O" Ring	1

Index No.	Parts No.	Parts Name	Qt.
C03	O-S3	"O" Ring	1
C04	O-P8	"O" Ring	1
C05	O-S8	"O" Ring	1
C06	O-S18	"O" Ring	2
C07	O-S15	"O" Ring	1
D01	SS-46D	Set Screw	1
J01	B-3	Ball	1
J02	B-4U	Urethane Ball	1
J03	B-7	Ball	1

<b>FPT-550-1, -1L</b>			
CP No.	W-330021-01	Oil Cylinder CP (BF)	
104	W-254104-00	Bushing	1
226A	W-184226-00	Oil Plug	1
226B	W-331226-00	Oil Plug	1
385	W-331385-00	Adjusting Screw	1
438	W-330438-01	Spindle (B)	1
541	W-252541-00	Button Retainer Spring (F)	1
551	W-252551-00	Plug	1
583	W-252583-00	Retainer Button (F)	1
587	W-285587-00	Oil Cylinder	1
588	W-331588-00	Oil Cylinder Upper Plate	1
589	W-331589-00	Oil Cylinder Lower Plate	1
590A	W-285590-00	Spindle Blade	1
590B	W-285590-01	Spindle Blade	1
591	W-254591-00	Blade Spring	2
592	W-330592-00	Cylinder Case	1
595	W-331595-00	Torque Adjusting Spring	1
711	W-331711-00	Cylinder Cover	1
720	W-302720-00	Piston	1
B03	NR-1.510.5	Needle Roller	1
B04	NR-2.56	Needle Roller	2
B05	NR-2.512	Needle Roller	2
C08	O-S27.5F (H)	"O" Ring	1
C09	O-P3 (H)	"O" Ring	1
C10	BR-P3	Back Up Ring	1
C11	O-S3 (H)	"O" Ring	1
C12	O-S2F (H)	"O" Ring	1
C13	BR-S2.5FT2	Back Up Ring	1
C14	O-KX12 (H)	"X" Ring	1
C15	BR-112F	Back Up Ring	1
C16	O-S3 (H)	"O" Ring	1
J04	B-3	Ball	1

CP No.	W-330033-00	Front Case CP	
490	W-331490-00	Spindle Bushing	1
593	W-330593-00	Front Case	1
L01	PL-1/32	Plug	2
207	W-302207-00	Rotor	1
208	W-285208-00	Rotor Blade	9
209	W-330209-00	Cylinder	1
(B06)	SP-2.56	Spring Pin	1
(B07)	SP-2.56	Spring Pin	1
210	W-276210-01	Cylinder Upper Plate	1
211	W-276211-01	Cylinder Lower Plate	1
(B08)	SP-2.55	Spring Pin	1
255	W-254255-00	Motor Fastening Nut	1
651	W-225651-00	Hanger	1
753	W-330753-00	Piston Rod	1
A01	BB-EE2	Ball Bearing	1
A02	BB-EE3	Ball Bearing	1
A03	NB-NTB1226	Thrust Ball Bearing	1
E01	TW-AS1226	Thrust Washer	2
E02	WW-12	Wave Washer	1
Z01	NW-1114	Name Plate	1
Z02	NPN-0x3.2	Screw Rivet	2

□ CP No. denotes the assembled parts comprising of more than 1 pc. of parts. The related parts are shown in the thick frame.  
 □ #209, 211 and 438 are supplied together with parts shown in ( )

□ Specify parts number and quantity in ordering.  
 ■ Standard Accessories : F-701-1.....1.5mm Hex. Pin Wrench 1.  
 F-712-1.....2 mm Hex. Pin Wrench 1.

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