



# USER MANUAL

## F1-SHUT WRENCH

MODELS : FET-77-1



FET-77-1



FET-77-1 BACK LED DISPLAY

### SPECIFICATIONS

Model	Capacity Screw Size (Guidance)		Adjustable Torque Range			Free Speed	Side to Center		Square Drive Size		Overall Length		Mass		Air Consumption (Under Load)		Air Inlet Thread Size	Air Hose Size	
	mm	in	N·m	kgf·m	ft·lb	min <sup>-1</sup>	mm	in	mm	in	mm	in	kg	lb	Nm <sup>3</sup> /min	NI <sup>3</sup> /min	in	mm	in
FET-77-1	8	5/16	44-76	4.5-7.8	33-56	6,300	26	1 1/32	9.5	3/8	188	7 13/32	1.65	3.6	0.5	17.7	PT or NPT 1/4	9.5	3/8

※ The performance figures are at 0.63 MPa (6.3 bar).

※ This model is required to be used with the related peripheral equipment shown in the FET system list.

Please contact your nearest sales company for the information of the optional equipment and the FV-NET communication system.

•Never give any shock to the FET tool and the interface.

•Never place the tool and the interface near the magnetic field.



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



# PARTS LIST MODEL: FET-77-1

Index No.	Parts No.	Parts Name	Qt.
<b>FET-77-1</b>			
<b>CP No.</b>	<b>W-303006-00</b>	<b>Housing C.P</b>	
121	W-254121-00	Trigger	1
131	W-282131-01	Reverse Valve	1
135	W-281135-00	Reverse Valve Lever	1
171	W-282171-00	Inlet Joint <PT>	1
171	W-282171-01	Inlet Joint <NPT>	1
237	W-282237-00	Muffler Pad	1
250	W-282250-01	Exhaust Cover	1
541A	W-252541-00	Button Retainer Spring <F>	1
B01	SP-212	Spring Pin	1
B02	GP-226GLC	Grooved Pin	1
C01	O-S42	"O" Ring	1
C02	O-S42	"O" Ring	1
C03	O-S20	"O" Ring	1
C04	O-S10	"O" Ring	1
C05	O-S20	"O" Ring	1
D01	CS-36S	Cap Screw	2
J01	B-3	Ball	1
<b>CP No.</b>	<b>W-303043-00</b>	<b>Housing Hernes C.P</b>	
117	W-282117-01	Throttle Valve Spring	1
201	W-303042-00	Housing	1
204	W-300204-00	Housing Lower Cover	1
557	W-282557-01	Protector	1
C06	O-S14	"O" Ring	1
D02	CS-325	Cap Screw	2
Z01	YZZ-0001	Cable Protector	1
Z02	FET-005-1	Cable	1
<b>CP No.</b>	<b>W-300045-00</b>	<b>Reverse Valve Bushing C.P</b>	
110	W-283110-00	Throttle Valve	1
113	W-282113-01	Throttle Valve Rod	1
132	W-282132-01	Reverse Valve Bushing	1
C07	O-S17	"O" Ring	1
C08	O-S4	"O" Ring	1
C09	O-P5	"O" Ring	1
<b>CP No.</b>	<b>W-303001-00</b>	<b>Housing Cover C.P</b>	
101	W-303101-00	Housing Cover	1
332	W-303332-00	Lock Nut	1
712	W-300712-00	Damper	1
753	W-300753-00	Piston Rod	1
D03	CS-416	Cap Screw	4
D04	CS-320B	Cap Screw	4
E01	PW-4K	Plain Washer	4
Z03	LAS-0001	LED Lamp	1
Z04	WAN-0004	Pressure Sensor	1
<b>CP No.</b>	<b>W-300021-01</b>	<b>Oil Cylinder C.P &lt;BF&gt;</b>	
226	W-279226-00	Oil Plug	1
308	W-279308-00	Spacer	1
385	W-279385-00	Adjusting Screw	1
438	W-279438-07	Spindle <B>	1

Index No.	Parts No.	Parts Name	Qt.
(541B)	W-252541-00	Button Retainer Spring <F>	1
(551)	W-252551-00	Plug	1
(583)	W-252583-00	Retainer Button <F>	1
587	W-279587-00	Oil Cylinder	1
588	W-300588-00	Oil Cylinder Upper Plate	1
589	W-279589-00	Oil Cylinder Lower Plate	1
590A	W-279590-00	Spindle Blade <A>	1
590B	W-279590-01	Spindle Blade <B>	1
591	W-279591-00	Blade Spring	2
592	W-300592-00	Cylinder Case	1
711	W-279711-00	Cylinder Cover	1
720	W-300720-00	Piston	1
757	W-279757-00	Needle	1
B03	NR-3.056	Needle Roller	2
B04	NR-3.056	Needle Roller	2
B05	GP-36G	Grooved Pin	2
C10	O-S30(H)	"O" Ring	1
C11	O-S2.5F(H)	"O" Ring	1
C12	BR-S2.5FT2	Back Up Ring	1
C13	O-S2F(H)	"O" Ring	1
C14	BR-S2.5FT2	Back Up Ring	1
C15	O-1530-24(H)	"O" Ring	1
C16	O-KX12(H)	"X" Ring	1
C17	BR-112	Back Up Ring	1
C18	O-S2.5F(H)	"O" Ring	1
<b>CP No.</b>	<b>W-300033-00</b>	<b>Front Case C.P</b>	
593	W-300593-00	Front Case	1
A01	BB-6801ZZ	Ball Bearing	2
L01	PL-1/8	Plug	1
207	W-300207-00	Rotor	1
208	W-279208-00	Rotor Blade	9
209	W-279209-00	Cylinder	1
(B06)	SP-2.56	Spring Pin	1
210	W-279210-00	Cylinder Upper Plate	1
(B07)	SP-1.56	Spring Pin	1
211	W-279211-00	Cylinder Lower Plate	1
214	W-162214-00	Adjusting Washer <T=0.03>	1
273	W-300273-00	Cover	1
435	W-300435-00	Thrust Washer	1
621	W-279621-00	Packing <A>	1
622	W-279622-00	Packing <B>	1
651	W-181651-00	Horizontal Hanger	1
A02	BB-6900	Ball Bearing	1
A03	BB-6001	Ball Bearing	1
D05	CS-412	Cap Screw	4
E02	WW-12	Wave Washer	1
E03	PW-4K	Plain Washer	4
Z05	NP-1085	Name Plate	1
Z06	NPN-0×3.2	Screw Rivet	2
Z07	PCA-0005-4.0	Main CPU Board	1

- CP No. denotes the assembled parts comprising of more than 1 pc. of parts. The related parts are shown in the thick frame.
- #209, 210 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-705 ..... 5mm Hex. Pin Wrench 1.
- FET-007-1 ..... Inlet Hose 1.
- \*5m and 10m inlet hoses are also available.

## FET SERIES STANDARD ACCESSORIES

(INCLUDED IN COMPLETE KIT)

MODEL	DESCRIPTION	SIZE	UNIT
FET-001-1	INTERFACE	—	1
FET-002-1	COMMANDER	—	1
FET-003-1	SENSOR CABLE	3m	2
FET-007-1	INLET HOSE (PT)	0.8m	1
FET-007-1N	INLET HOSE (NPT)	0.8m	1
F-701-1	HEX. PIN WRENCH	1.5mm	1
F-705	HEX. PIN WRENCH	5mm	1
E-032070-00	ADAPTOR C.P	—	1
ECO-AC100-2	POWER CABLE	2m	1
M-526	HOSE COUPLER SOCKET	3/8"	1
M-628	PLUG	3/8"	1

※5m and 10m inlet hoses are also available.

## OPTIONAL ACCESSORIES

MODEL	DESCRIPTION	SIZE	UNIT
JN-3/8(B)	HOSE NIPPLE	3/8"	1
AR3000-3/8	AIR REGULATOR	3/8"	1
FET-004-1	PC BOARD & FLOPPY (BASIC SOFTWARE PROGRAM)	—	1
FET-004-1-2	PC BOARD & FLOPPY (DATA LOAD SYSTEM)	—	1
FET-004-2-2	PC BOARD & FLOPPY (FV-NET NETWORK SYSTEM)	—	1
FET-006-20	FV-NET CABLE	20m	1
FET-008-1	PRINTER INTERFACE	—	1

※The different lengths of FV-NET cables are available besides 20m shown in the above. 50m, 100m and 200m cables are suppliable. Please order like FET-006-50, -100 & -200.

※The Printer interface is prepared for hard-copy recording. Please ask us about the further information.

## STANDARD ACCESSORIES



INLET HOSE  
FET-007-1



INTERFACE  
FET-001-1



SENSOR CABLE  
FET-003-1



COMMANDER  
FET-002-1

## OPTIONAL ACCESSORIES



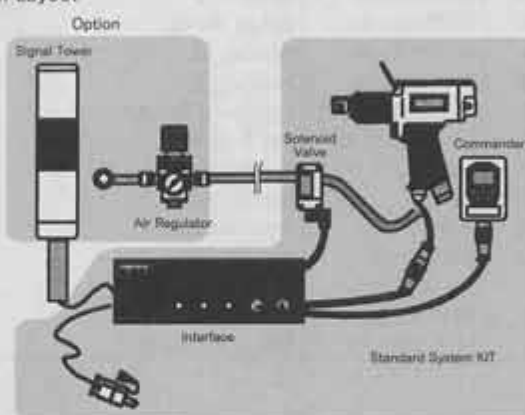
PC BOARD  
FET-004-1



PRINTER  
INTERFACE  
FET-008-1

## FET SYSTEM IN OPERATION

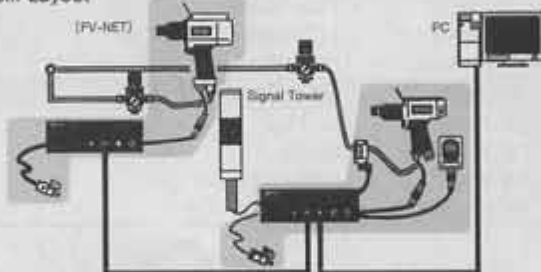
System Layout



## FV-NET SYSTEM (OPTION)

※It is our FV-NET communication system that makes the best use of the features of FET series. This high-speed communication system can control numbers of tools up to 20 sets at a real time within a distance of 1 kilometer, by utilizing one personal computer with our unique protocol.

System Layout



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