

INSTRUCTION MANUAL

TEX.GUIDER

Type (TEG-H)
(TEG-F)

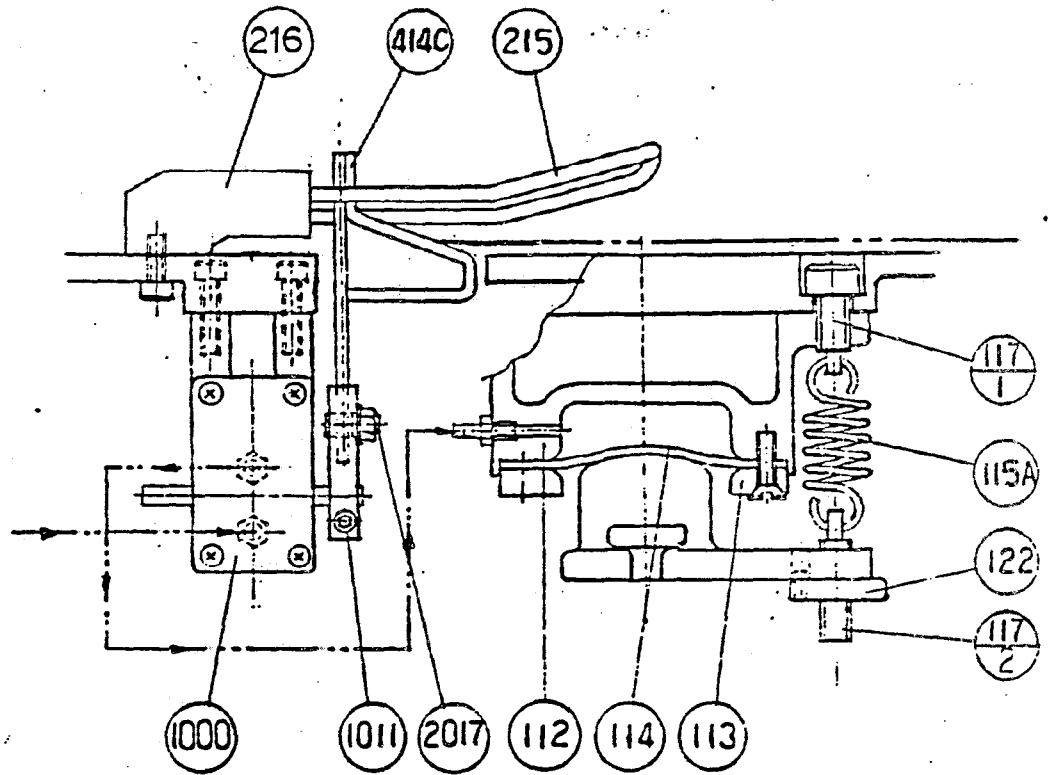
Patent Applied

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1). Summary:

- ※ Tex-Guider has more speedy response than electric type guider in the function despite of pneumatic control.
- ※ As it works by proportional function, deviation of running fabric is extremely small and it has excellent guiding effect. Therefore, inclination at setting of guider can be made comparatively wider (5 - 20°) .
- ※ Distortion on fabric shall not readily arise in use. !
- ※ Since the detection is applying of surface longitudinal detecting method (in the direction of running fabric), folding on fabric selvage caused by detecting lever should not happen even in use of thin fabric and further, capability on detection do not influence any at all.
- ※ It is especially good for high speed running since it has performance record at more than 300m/minute for which other type of guider can not be followed in the function.
- ※ Simple construction has less trouble shooting and even on its occurrence, repair and or parts replacement can be achieved easily.
- ※ Roll Operation-
When it is on detecting position (clearance between rolls), air flow through detector (air valve) functions diaphragm to pinch out rolls.
When it is on free position (no clearance between rolls), air flow is stopped & exhausted by air valve and rolls are pinched by stressed spring.



Operative Direction

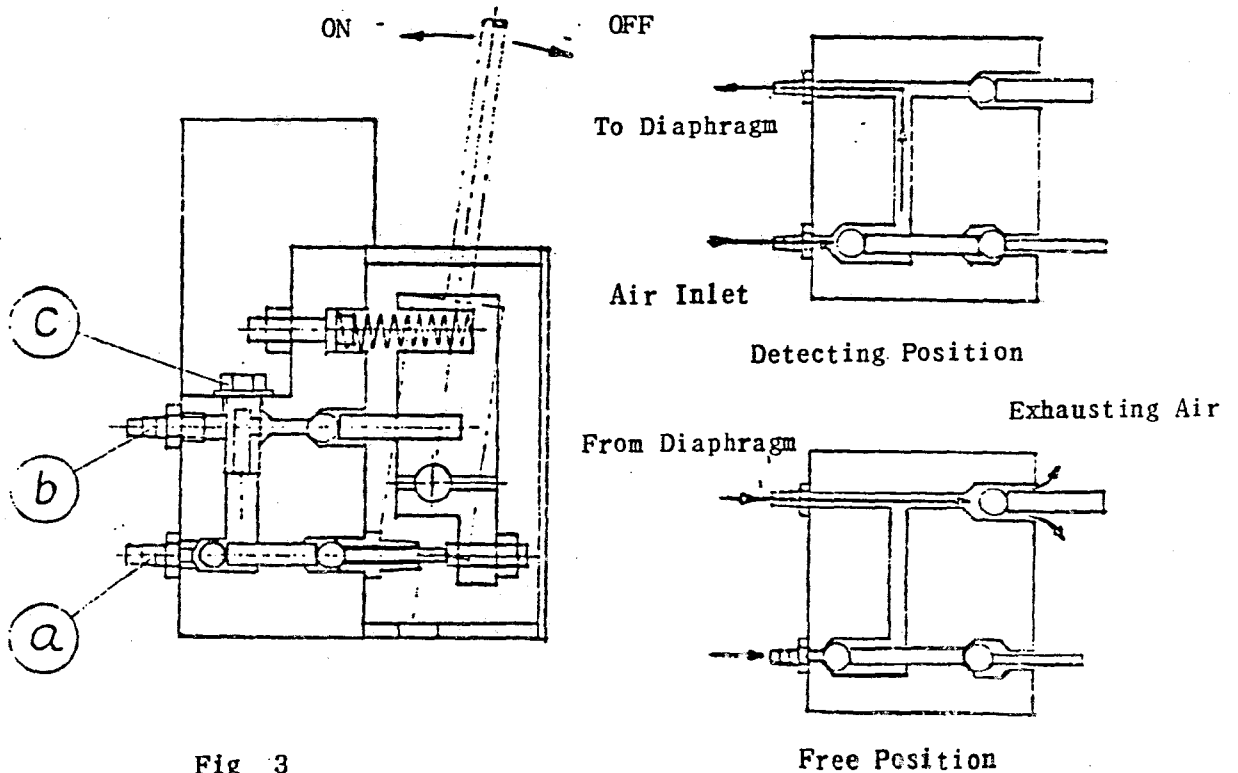


Fig 3

Construction of air detector and air flow channel

100D	Guide Plate	215	Feeler Lever Keeper
101A-1	Fixed Roll (Stainless Steel Roll)	216	Feeler Lever Keeper Holder
-4	Snap Ring 47 ϕ Hole	300	Air Hose Joint (1/4 B)
-5	Ball Bearing (6204ZZ)	301	Air Tube (4x 6 ϕ)
-6	Ball Bearing (6205ZZ)	414C	Feeler Lever
-7	Roll end Cover	1000	Air Detector (Air Valve)
102B-1	Fixed Roll Shaft	1011	Feeler Holdea
-2	Shap Ring 25 ϕ Shaft	2017	Feeler Lever Holding Metal Bracket
103B	Fixed Roll Bearing		
103-2	Protective Bar		
104	Washer		
105B	End Cover		
106A-1	Operative Roll Shaft (Rubber Roll)		
-2	Ball Bearing (6203ZZ)		
-3	Roll end Cover		
107B-1	Operative Roll Shaft		
-2	Collar		
-3	Washer		
108A	Pinch Roll Arm		
109A	Pinch Roll Bearing		
110	Pinch Lever Shaft		
111A	Pinch Roll Lever		
112	Diaphragm Casing		
113	Diaphragm Sheet Fixing plate		
114	Diaphragm Sheet		
115A	Spring		
117-1	Spring Fixing Bolt		
-2	Spring Adjusting Bolt		
122	Spring Adjusting Nut		

100A	Guide Plate	120	Collar
101-1	Fixed Roll (Stainless Steel Roll)	121	Fabric Guiding Bar
-4	Snap Ring 47 ϕ Hole	122	Spring Adjusting Nut
-5	Ball Bearing (6204 ZZ)	215	Feeler Lever Keeper
-6	Ball Bearing (6205 ZZ)	216	Feeler Lever Keeper Holder
-7	Roll end Cover	300	Air Hose Joint (1/4 B)
102-1	Fixed Roll Shaft	301	Air Tube 4x 6 ϕ
-2	Snap Ring 25 ϕ Shaft	414C	Feeler Lever
103B	Fixed Roll Bearing	1000	Air Detector (Air Valve)
103-2	Protective Bar	1011	Feeler Holder
104	Washer	2017	Feeler Lever Holding Metal Bracket
105B	End Cover		
106A-1	Operative Roll (Rubber Roll)		
-2	Ball Bearing (6203 ZZ)		
-3	Nilo Sling		
107A-1	Operative Roll Shaft		
-2	Collar		
-3	Washer		
108A	Pinch Roll Arm		
109A	Pinch Roll Bearing		
110	Pinch Lever Shaft		
111A	Pinch Roll Lever		
112	Diaphragm Casing		
113	Diaphragm Sheet Fixing Plate		
114	Diaphragm Sheet		
115A	Spring		
117-1	Spring Fixing Bolt		
-2	Spring Adjusting Bolt		
118	Waterproof Cover		
119	Waterproof Cover		

3). Maintenance & Checking :

A. Poor Operative Condition

Check Points	Resulting Condition
1. Whether feeler bar has not contacted on guide plate.	Switchover of the air in air detector can not be made perfectly.
2. Whether detector normally operated.	
3. Whether air pressure set up at the specified pressure (1.2kg/cm ²).	Detector shall not function if air pressure is too high or too low.
4. Whether air leakage is not found on air flow channel.	Damage on air tube and or leakage on tube joint.
5. Whether diaphragm has damage or deformation.	When diaphragm damaged or deformed, air leakage or dull function shall happen
6. Worn out on bearing of inner roll. 7. Worn out on operative roll (rubber roll).	Each roll bears stress of compressive air to contact fabric intermittently, thus worn out like forming of polygonal shape or deformation particularly on severe impairing portion and or defacement on inner bearing occurred shall cause insufficient rotation of roll, and stretching strength of running fabric become lower down.
8. Whether close contact between rolls is evenly working in full length	If two rolls do not have even close contact in full length, stretching capability on fabric become lower down. In order to contact rolls closely, fixing bolts on rubber roll shaft and pinch roll arm shall be loosed down. Then rubber roll must contact closely on stainless steel roll in full length and respective bolts shall be tighten up gradually.
9. Whether spring tension pinching is proper	More spring tension arise more stress and to strengthen the stress, pull up adjusting bolt by spring adjusting nut to tense the spring. Unnecessary over-tension of spring or negligence under such condition for long period should be Avoided.

- B. Air consumption for one set guider varies with fabric running speed or frequency on guider operation but it is approx. 30 - 35 l/minute. Specified air reducing valve should be set at 1-1.2kg/cm².

4. Air Detector :

This part corresponds to the heart of tex guider. Detection box is completely hermetic to protect stain on fabric from scattering of oil contained in air blowing. It is formed as positive exhaust system to have quick response on sensitivity.

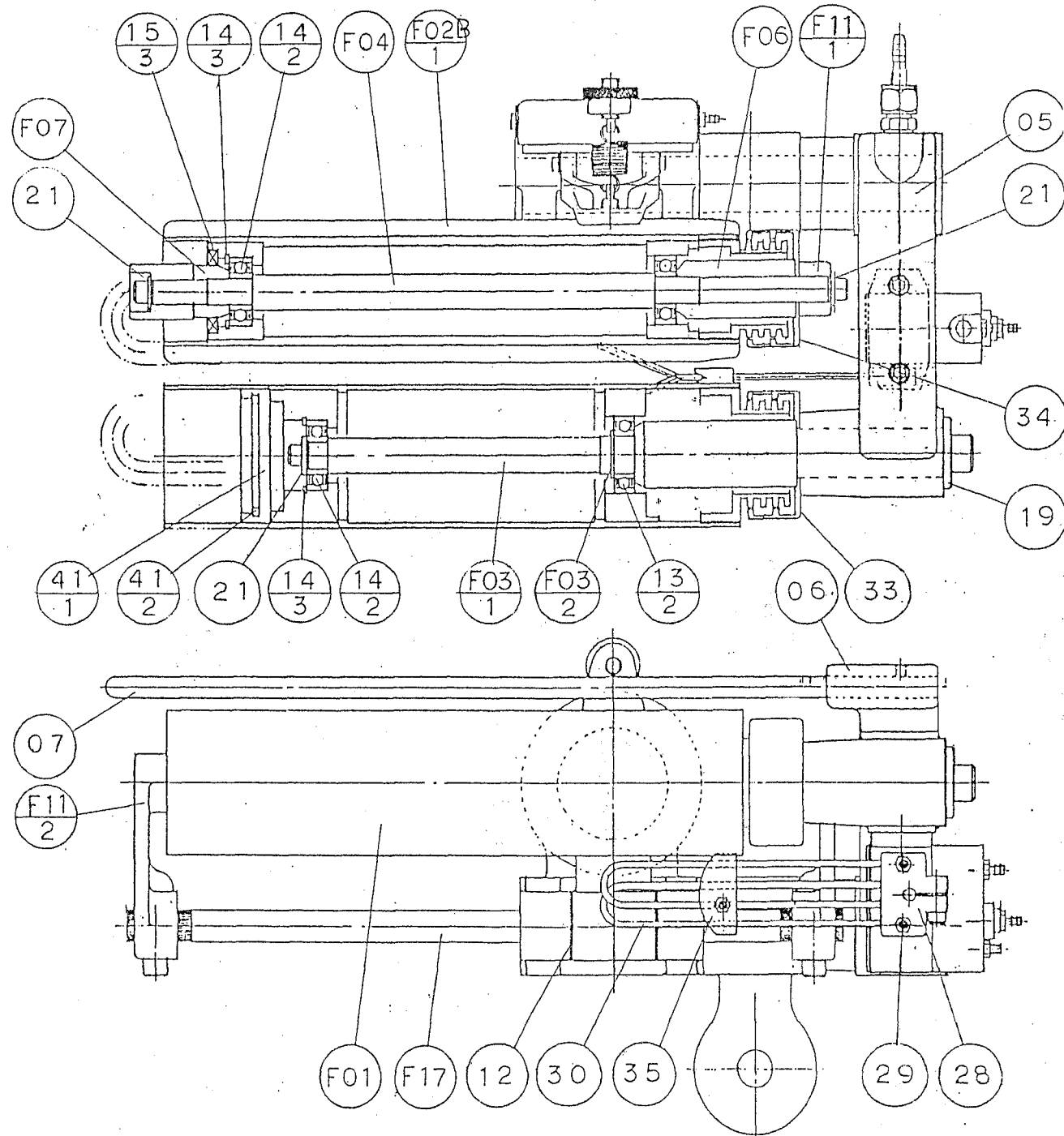
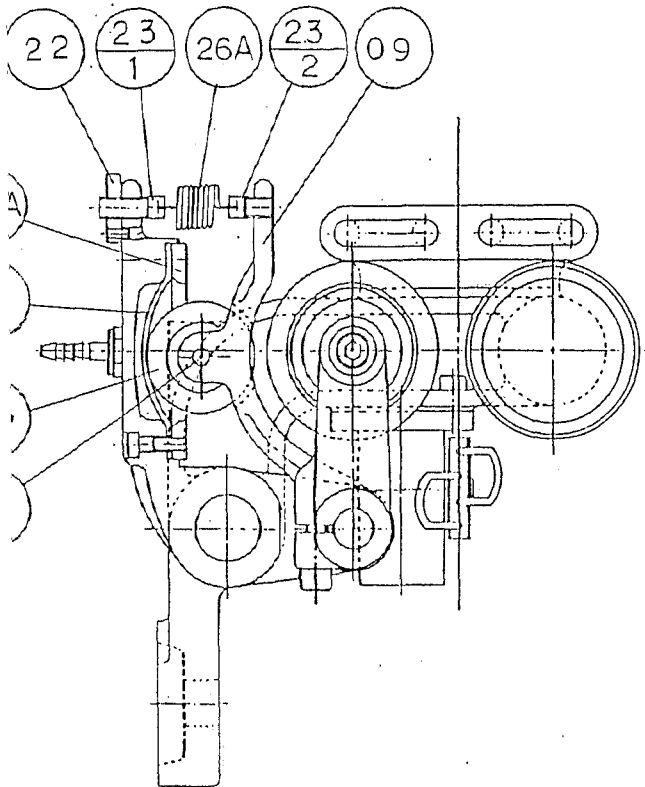
※ Poor operative condition (see Figure 3) -

Switchover on air flow by detecting shall be performed with ball valve as shown in figure 2. A main cause of poor operative condition is in case of imperfection on air switchover and if the air contains considerable oil or impurity, ball adhered with these should stick on joint portion which cause the block, thus the above operation can not be made.

※ When the ball adhered

Tube joint (a), (b), & plug (c) shall be removed. Then, ball adhered on joint (a) shall be taken out and or push out the ball blocked up at inner part with thin bar from air hole. When considerable oil or impurity have stuck on inner box, overhaul shall be made to clean out. In this case, however, attention shall be paid that ball or other small piece parts are not to be missed and those shall be located in order so that disassembling, checking, & assembling can be performed infallibly.

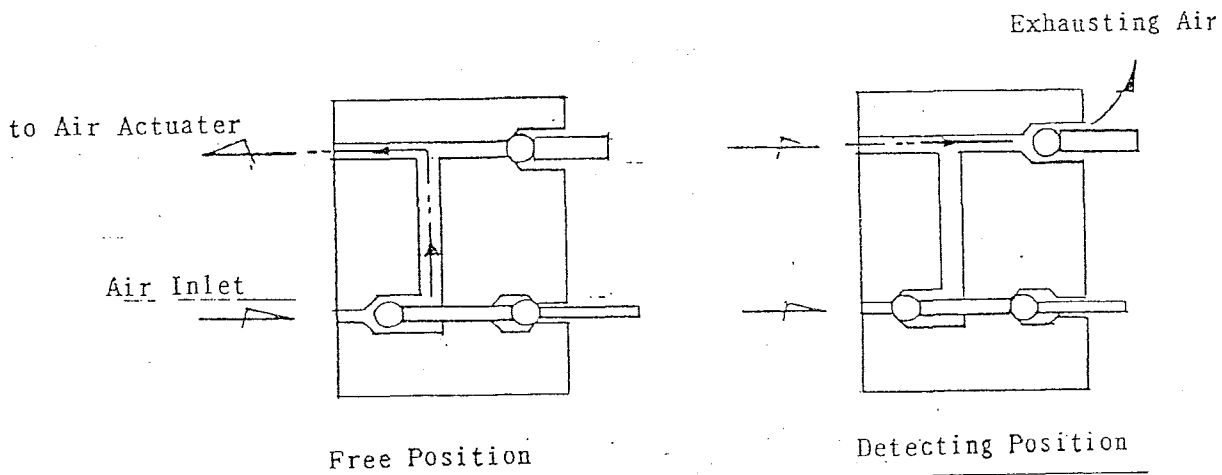
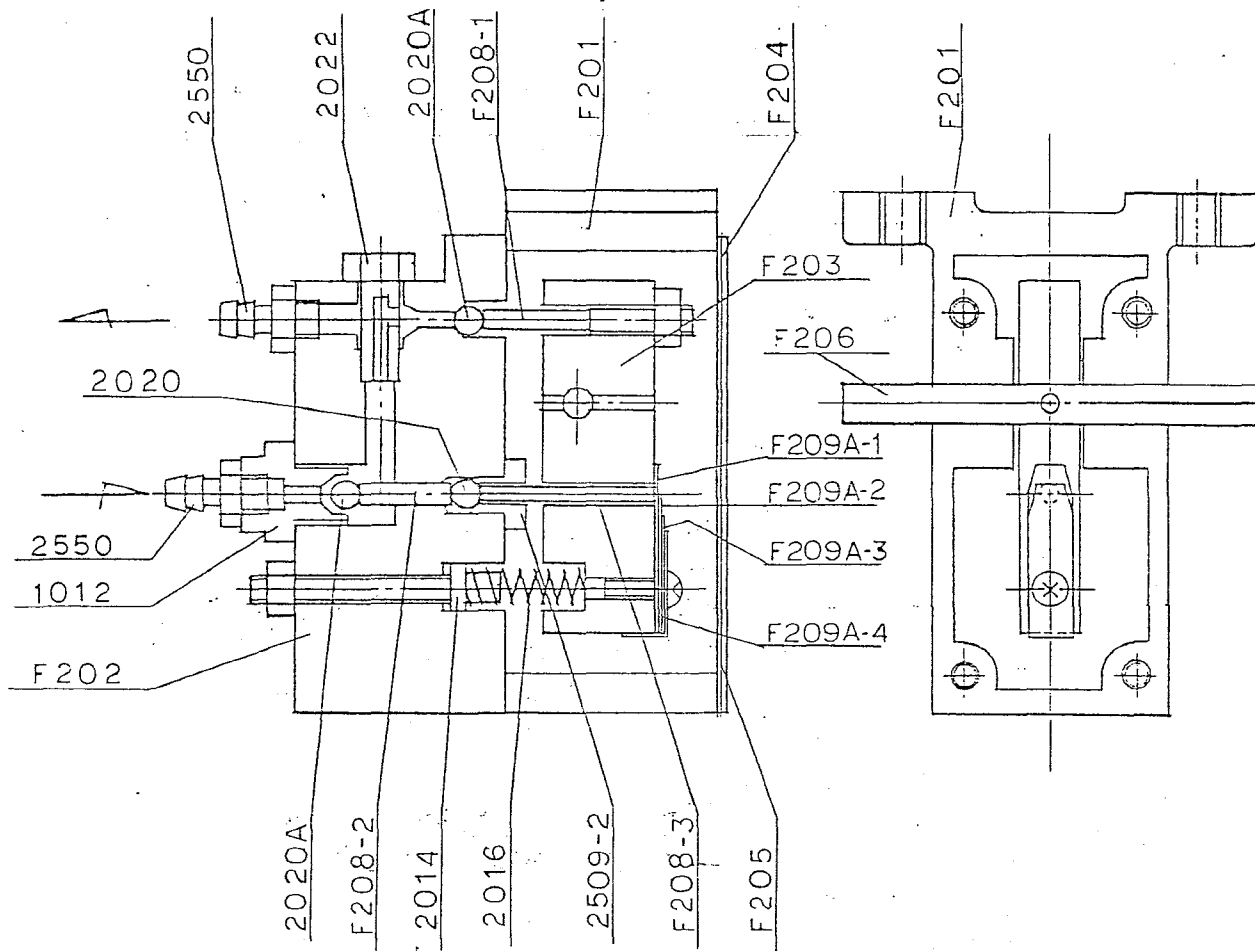
TYPE TEG-L300F



TEX. GUIDER (TEG-L)

AIR DETECTOR

LGF- 200



Construction of air detector and flow channel.