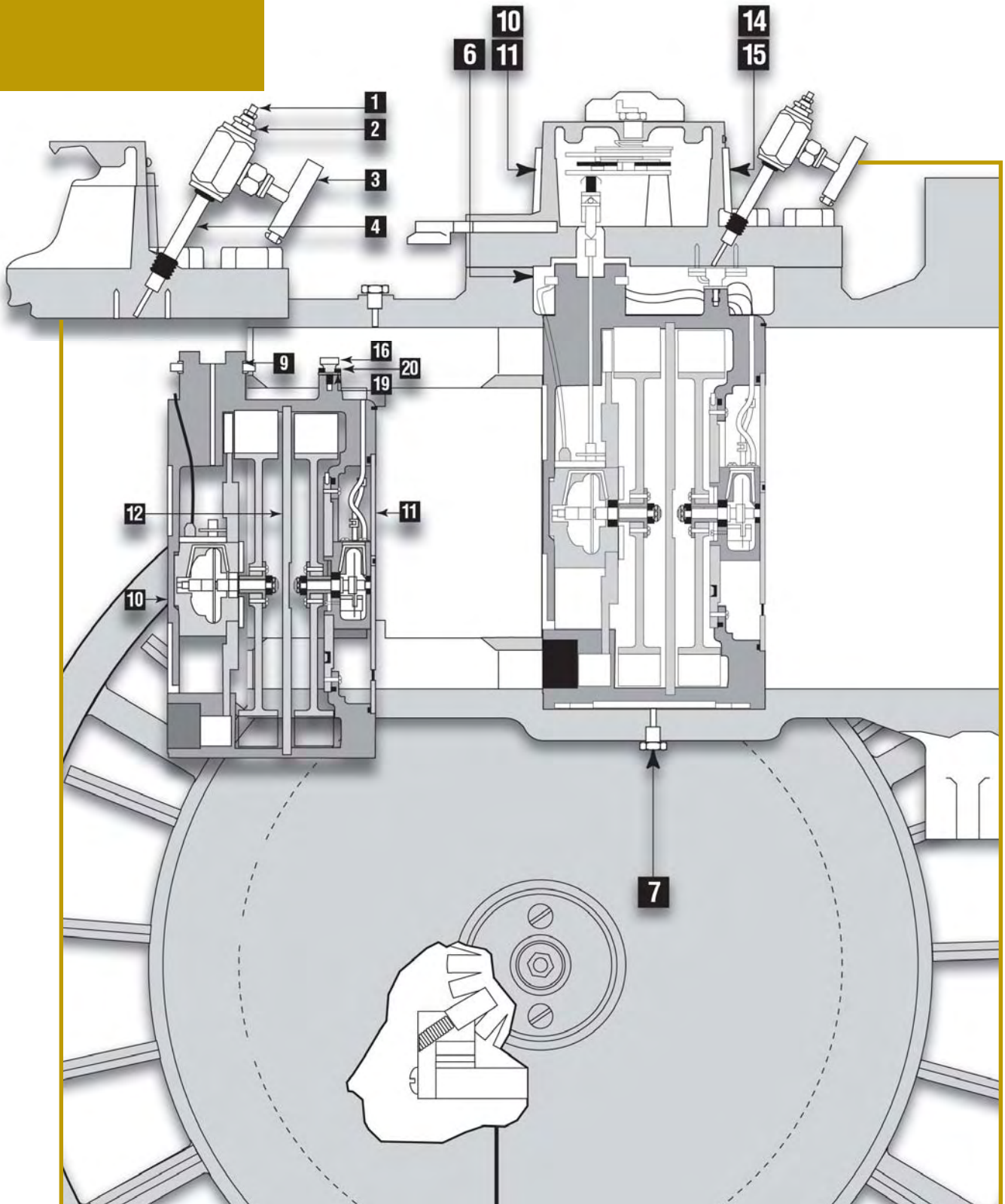


# Auto-Adjust® II Turbo-Meters 12" AAT-140 and 12" AAT-230

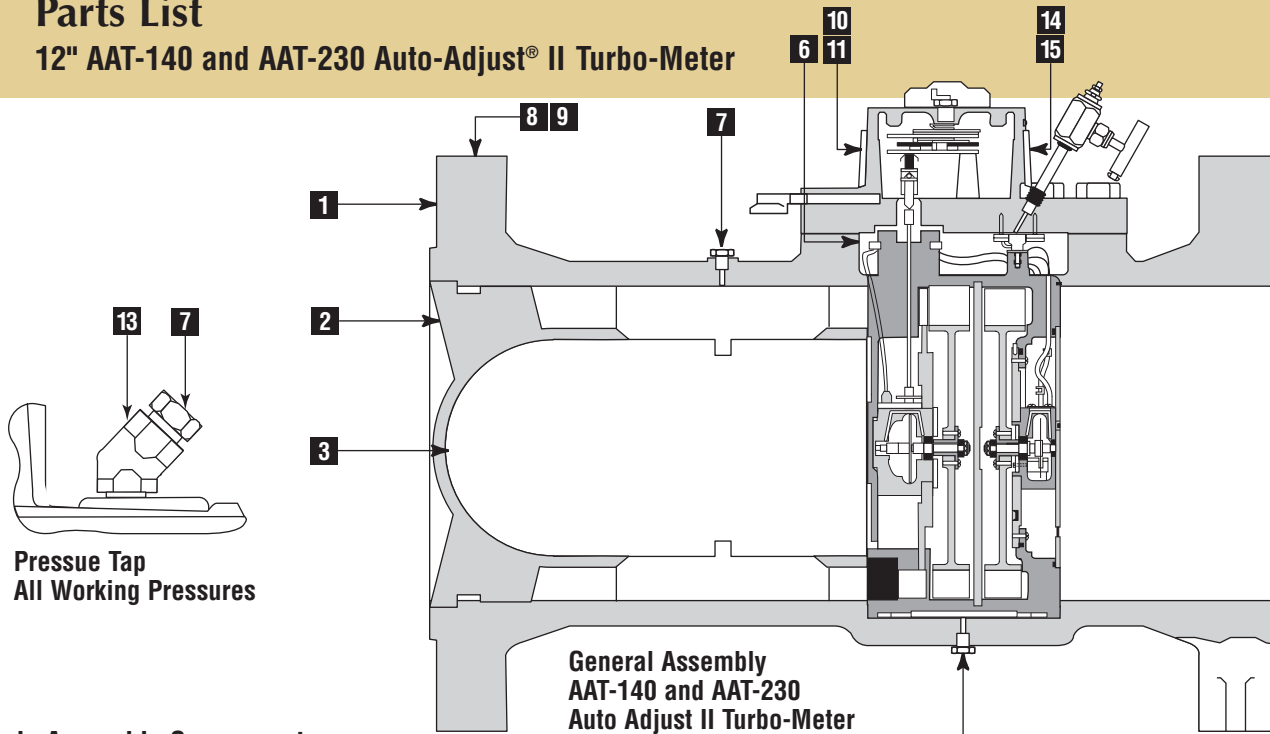
## Parts List

THE GAS INDUSTRY



# Parts List

## 12" AAT-140 and AAT-230 Auto-Adjust® II Turbo-Meter



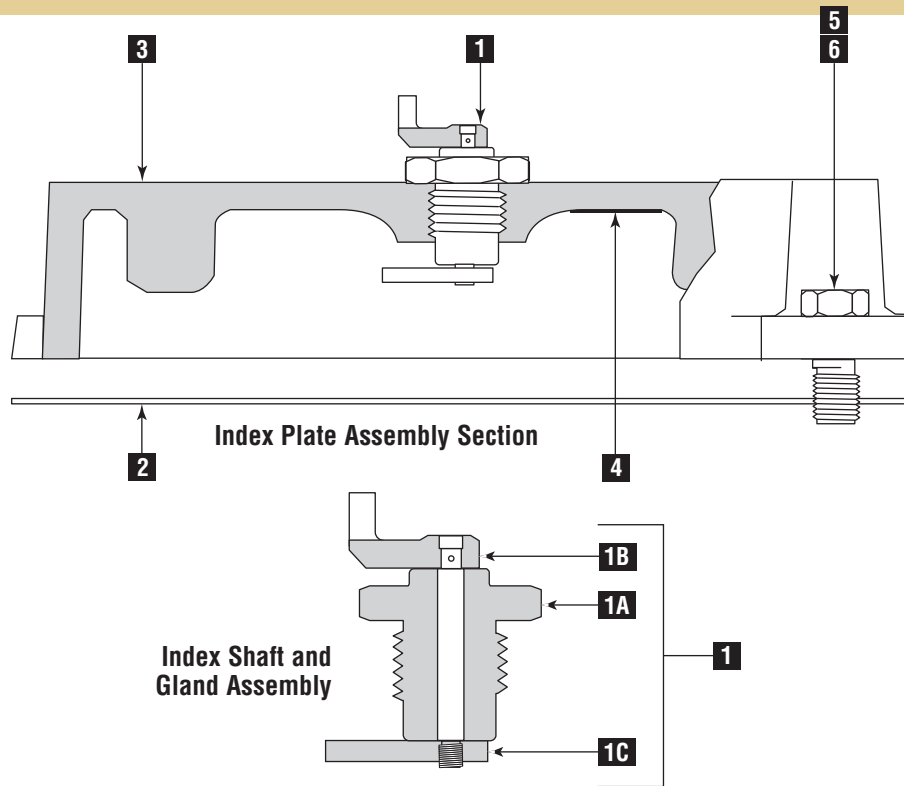
### Body Assembly Components

Illustration Number	Quantity Required	Part Description	Part Number
1	1	Main Body Assembly, 220#W.P. with Badges Less Nose Cone	006-31-611-00
		Main Body Assembly, Cast Steel, 720# W.P., ANSI 300 with Badges Less Nose Cone	006-31-611-50
		Main Body Assembly, Cast Steel, 1440# W.P., ANSI 600 with Badges Less Nose Cone	006-31-611-80
		Main Body Assembly, Cast Steel, 1440# W.P., ANSI 600 with Badges Less Nose Cone, with Ring Joint Flanges	006-31-611-81
2	1	Nose Cone with Straightening Vanes, All Pressures	006-31-305-01
3	3	#8-32 x 1/4" Long Set Screw	904713
4	1	Manufacturer Nameplate, 220# W.P. (not shown), AAT-140	006-31-073-01555
		Manufacturer Nameplate, 720# W.P. (not shown), AAT-140	006-31-073-50555
		Manufacturer Nameplate, 1440# W.P. (not shown), AAT-140	006-31-073-80555
		Manufacturer Nameplate, 220# W.P. (not shown), AAT-230	006-51-073-01555
		Manufacturer Nameplate, 720# W.P. (not shown), AAT-230	006-51-073-50555
5	4	Manufacturer Nameplate Screws (not shown)	903004
		#4 x 3/16" Long Round Head Drive Screw	
*6	1	Top Plate to Body "O" Ring, All Pressures, Buna	950192
*6A	1	Top Plate to Body "O" Ring, All Pressures, -20°F, Viton (optional)	950256 – 20°
			950773 – 40°
7	2	Steel Pipe Plug, 1/4" – 18	950179 – 40°
			906055 – 20°
8	1	Inlet Badge (on inlet flange of body)	015-16-090-02
9	2	#2 x 1/8" Round Head Brass Drive Screw	903003
10	1	Pulse Factor Badge (on top plate) Ft <sup>3</sup>	006-32-073-10
10A	1	Pulse Factor Badge (on top plate) M <sup>3</sup>	006-32-073-11
11	2	#8-32 x 1/4" Long Round Head Screw	903055
12	1	Internal Mechanism Badge (not shown), AAT-140	006-41-073-02555
		Internal Mechanism Badge (not shown), AAT-230	006-51-073-02555
13	1	45° Steel Elbow	950180 – 40°
			950762 – 20°
14	1	C.S.A. Approval Nameplate (not shown) AAT-140	006-41-074-00
		C.S.A. Approval Nameplate (not shown) AAT-230	006-51-074-00
15	4	C.S.A. Approval Nameplate Drive Screw (not shown)	903003

\*Recommended Spare Parts

## Parts List

### 12" AAT-140 and AAT-230 Auto-Adjust® II Turbo-Meter



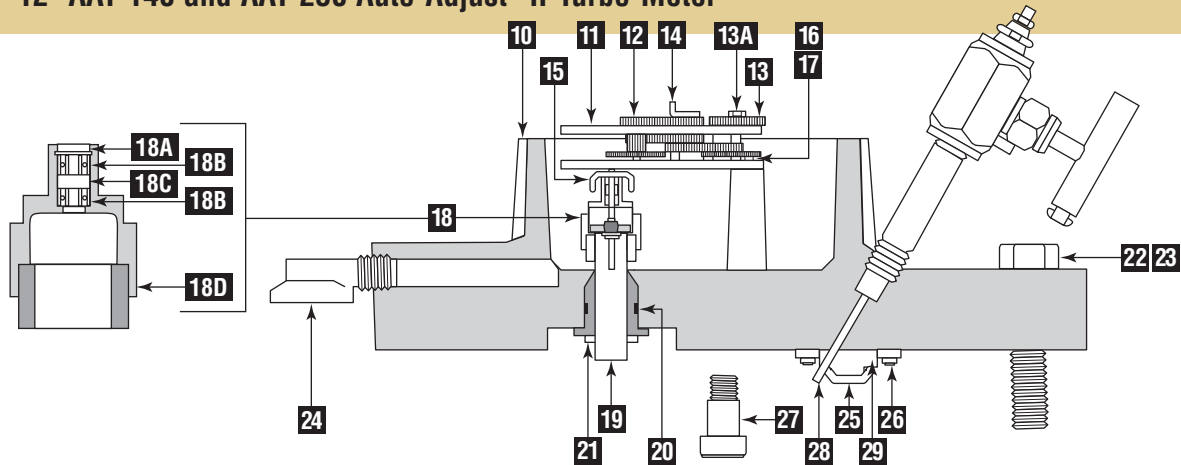
#### Index Plate Assembly Components

Illustration Number	Quantity Required	Part Description	Part Number
1	1	Index Shaft and Gland Assembly (Includes Illustration Nos. 1 A-C)	006-24-423-01
1A	1	Gland	006-24-023-01
1B	1	Index Shaft Assembly	006-24-554-02
1C	1	Bottom Dog	006-24-071-00
•2	1	Gasket, Index Plate to Top Plate	006-24-160-03
3	1	Index Plate	006-24-004-21
4	1	Wiring Label	006-32-105-00
5	3	Cap Screw, Index Plate to Top Plate, 5/16" - 18 x 3/4" Hex Head	910028
6	1	Seal Screw, Index Plate to Top Plate, 5/16" - 18 x 3/4" Hex Head	002-65-057-02

\*Recommended Spare Parts

# Parts List

## 12" AAT-140 and AAT-230 Auto-Adjust® II Turbo-Meter



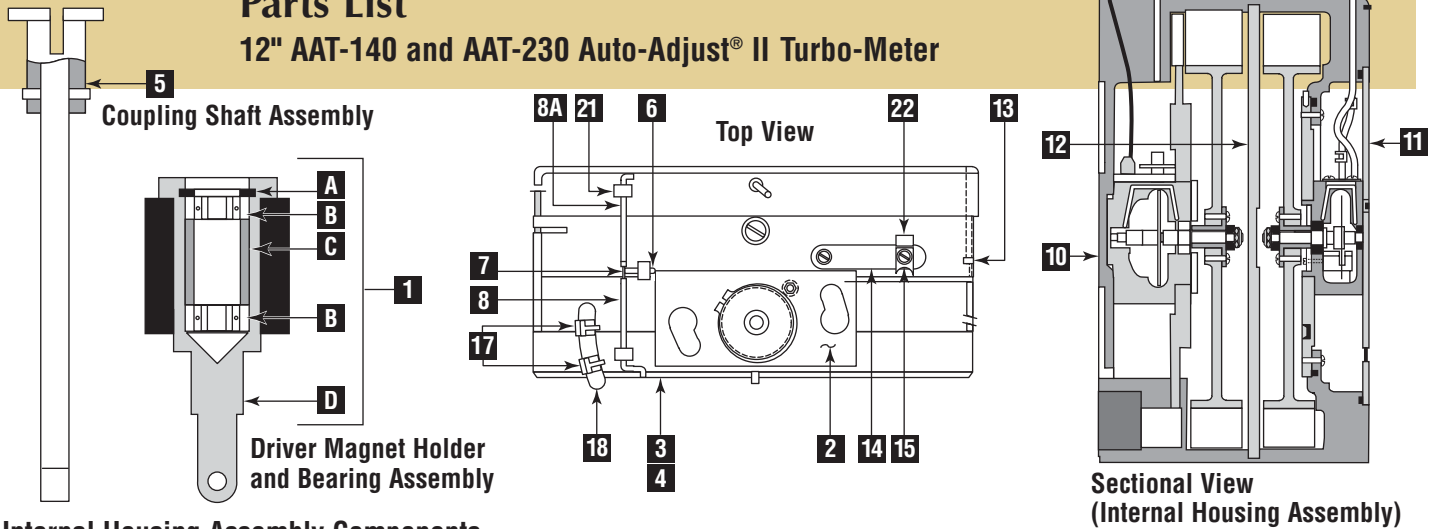
### Top Plate Assembly Components

Illustration Number	Quantity Required	Part Description	Part Number
10	1	Top Plate Assembly, 220# W.P. Ductile iron	006-41-303-00
		Top Plate Assembly, 720# W.P., Cast Steel	006-41-303-81
		Top Plate Assembly, 1440# W.P., Cast Steel	006-41-303-81
11	1	Intermediate Gear Assembly, 1000 CF/Rev., Plastic, Less Change Gears, AAT-140	006-34-212-40
		Intermediate Gear Assembly, 10 M <sup>3</sup> /Rev., Plastic, Less Change Gears, AAT-140	006-36-212-40
		Intermediate Gear Assembly, 1000 CF/Rev., Plastic, Less Change Gears, AAT-230	006-51-212-50
		Intermediate Gear Assembly, 10 M <sup>3</sup> /Rev., Plastic, Less Change Gears, AAT-230	006-51-212-00
12	1	Large Change Gear (note: "XX" refers to gear blank (diameter) size, "YY" refers to number of gear teeth. Digits must be substituted for "XX" and "YY" when ordering)	006-24-3XX-YY
13	1	Small Change Gear (see note for Illustration No. 12 above)	006-24-3XX-YY
13A	1	Small Change Gear Nut, #4-40 Hex Stainless Steel	907639
14	1	Intermediate Gear Output Dog (top)	002-66-071-03
15	1	Intermediate Gear Input Dog (bottom)	006-24-061-20
16	3	Intermediate Gear Retaining Screw, #8-32 x 3/8" Long Fillister Head	903371
17	3	Lockwasher	950371
* 18	1	Follower Magnet Assembly (Includes Illustration Nos. 18 A - C)	006-24-313-20
18A	1	Retaining Ring	904691
* 18B	2	Bearing	905462
18C	1	Spacer	006-24-106-20
18D	1	Follower Magnet Holder With Magnet	006-24-213-20
* 19	1	Magnet Well and Post Assembly, 220# W.P. (includes illustration no. 20)	006-31-244-00
		Magnet Well and Post Assembly, 720# & 1440# W.P. (Includes Illustration No. 20)	006-31-244-80
* 20	1	Magnet Well "O" Ring Buna	950193
		Magnet Well "O" Ring, Viton	908264
* 21	1	Magnet Well Tetraseal, Buna	904214
		Tetraseal, (optional) Viton	906736
22	13	Cap Screw, Top Plate to Body, 220# W.P., 5/8" - 11 x 2" Long Hex Head Stainless Steel	910159
		Cap Screw, Top Plate to Body, 720# & 1440# W.P., 1" - 8 x 2-3/4" Long Hex Head Steel	906540
23	1	Seal Screw, Top Plate to Body, 220# W.P., 5/8" - 11 x 2" Long Hex Head Stainless Steel	006-31-057-00
		Seal Screw, Top Plate to Body, 720# & 1440# W.P., 1" - 8 x 2-3/4" Long Hex Head Steel	006-31-057-80
24	2	Vent Cap	006-24-505-01
25	1	Extractor Bracket	00634-089-01
26	2	Extractor Bracket Retaining Screw, #8-32 x 3/8" Long Fillister Head	903371
27	2	Adapter Plate Screws	950780
28	1	Tubing for Oil System - Unformed	51911
29	1	Extractor Bracket Clip	00641-089-00

\*Recommended Spare Parts

## Parts List

### 12" AAT-140 and AAT-230 Auto-Adjust® II Turbo-Meter



### Internal Housing Assembly Components

Illustration Number	Quantity Required	Part Description	Part Number
* 1	1	Driver Magnet Holder and Bearing Assembly (includes illustration nos. 1 A-D)	006-31-334-00
1A	1	Bearing Retaining Ring	904691
* 1B	2	Bearing	905462
1C	1	Spacer	006-22-106-03
1D	1	Magnet, Holder & Pin Assembly	006-31-234-02
2	1	Adapter Plate Quick Connect	006-41-062-00
3	1	Internal Housing Assembly, Calibrated With Change Gears, Cubic Foot, AAT-140	006-41-302-01
4	1	Internal Housing Assembly, Calibrated With Change Gears, Metric, AAT-140	006-41-302-02
3	1	Internal Housing Assembly, Calibrated With Change Gears, Cubic Foot, AAT-230	006-51-302-01
4	1	Internal Housing Assembly, Calibrated With Change Gears, Metric, AAT-230	006-51-302-02
5	1	Coupling Shaft Assembly, 220# W.P.	006-41-345-00
		Coupling Shaft Assembly, 720# and 1440# W.P.	006-41-345-80
6	1	Oil Tubing, Top Plate to Internal Housing	99993
7	1	Tee	950247
8	1	Oil Tubing, Tee to Metering Rotor Module	99993
8A	1	Oil Tubing, Tee to Sensor Rotor Module	99993
9	1	Retaining Ring	927448
** 10	1	Main (metering) Rotor Assembly, AAT-140, Buna	006-41-550-02
		Main (metering) Rotor Assembly, AAT-140, Viton	006-41-550-90
		Main (metering) Rotor Assembly, AAT-230, Buna	006-51-550-00
		Main (metering) Rotor Assembly, AAT-230, Viton	006-51-550-01
** 11	1	Sensing Rotor Assembly, AAT-140, Buna	006-41-550-03
		Sensing Rotor Assembly, AAT-140, Viton	006-41-550-91
		Sensing Rotor Assembly, AAT-230, Buna	006-51-550-03
		Sensing Rotor Assembly, AAT-230, Viton	006-51-550-91
** 12	1	Center Plate, AAT-140	006-41-109-01
		Center Plate, AAT-230	006-51-109-01
13	2	Module Connecting Screw, #10-24 x 3/4" Long Screw Note: Maximum Torque = 10 Inch/Lb.	950384
14	1	Serial Number Badge	006-34-073-01
15	2	Serial Number Badge Retaining Screw, #4-40 x 1/4" Long Pan Head Screw	950380
16	1	Shoulder Screw	950319
17	2	Compression Ring (Pressure Line)	950772
18	5"	Pressure Tap Tubing	800700
19	1	"O" Ring, Buna-N	934005
		"O" Ring, Viton (Optional)	904839
20	1	Disc Spring	950749
21	3	Compression Ring (Oil)	950682
22	1	Wire Clip	950517
23		Extractor Bracket Retrofit Kit (not shown)	006-41-190-00
24		Oil Tube Replacement Assembly (not shown) (includes 6, 7, 8, 8A & 21)	006-41-325-00

\*Recommended Spare Parts

\*\*Illustration numbers 10, 11 and 12 affect calibration. These components must be ordered in combination and cannot be supplied as separate items.

## Parts List

12" AAT-140 and AAT-230 Auto-Adjust® II Turbo-Meter

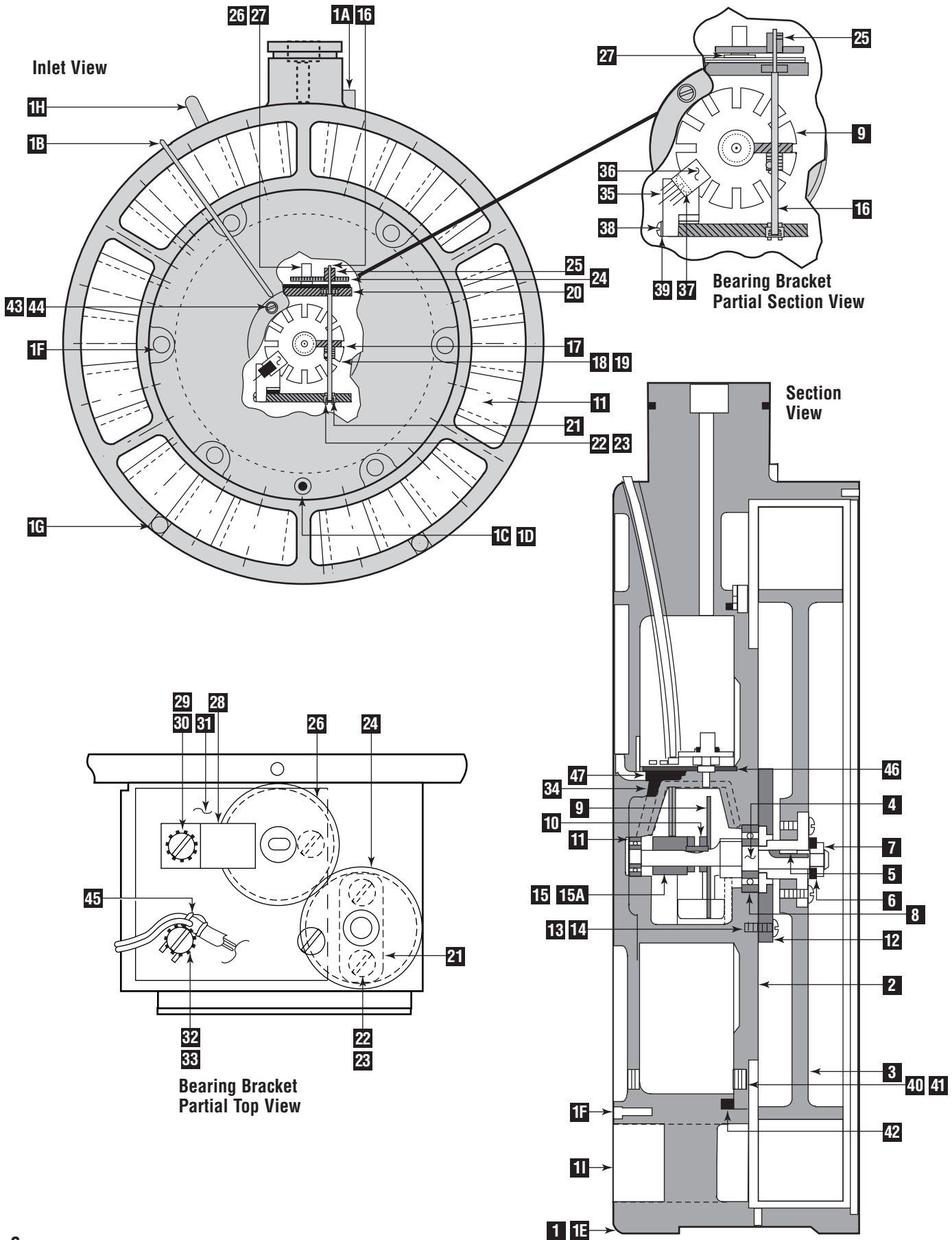


Illustration Number	Quantity Required	Part Description	Part Number
**	1	Main Rotor Assembly, AAT-140, Buna	006-41-550-02
		Main Rotor Assembly, AAT-140, Viton	006-41-550-90
		Main Rotor Assembly, AAT-230, Buna	006-51-550-00
		Main Rotor Assembly, AAT-230, Viton	006-51-550-01
** 1	1	Carrier Assembly (Includes Illustration Nos. 1 A-E)	006-41-519-03
1A	1	Dowel Pin	950214
1B	1	Oil Tubing	006-41-079-00
1C	2	Filter Screen	006-22-083-01
1D	2	Screen Retainer	904419
** 1E	1	Bearing Bracket Carrier	006-41-019-04
1F	6	#6-32 1/4" Long Pan Head Screw	950585
1G	4	Module Seal Positioner	950756
1H	1	Pressure Tap Tube, 3/16"	006-34-079-02
1I	6	Vane Insert	006-41-025-00
2	1	Bearing Bracket	006-41-209-00
** 3	1	Rotor and Insert Assembly, AAT-140	006-41-350-00
		Rotor and Insert Assembly, AAT-230	006-51-350-00
4	1	Main Rotor Shaft	006-41-024-00
5	1	Locking Key (rotor to shaft)	006-24-069-00
6	1	Spherical Washer	908723
7	1	Locknut	908661
* 8	1	Downstream Rotor Shaft Bearing	950311
9	1	Chopper Disc Assembly	006-41-308-00
10	1	Retaining Screw, Chopper Disc to Shaft, #4-40 x 1/8" Long Set Screw	950305
* 11	1	Upstream Rotor Shaft Bearing	950306
12	1	Downstream Bearing Retainer Plate	006-41-018-00
13	3	Retainer Plate Screw, #8-32 x 7/16" Long Round Head Screw	903058
14	3	Retainer Plate Screw Lockwasher	950371
15	1	Worm	006-41-017-00
15A	2	Retaining Screw, Worm to Shaft, #6-32 x 1/8" Long Set Screw	950375
16	1	Wormwheel Shaft	006-31-046-00
17	1	Wormwheel (15T)	006-24-035-00
18	1	Wormwheel Hub	006-24-070-02
19	2	Wormwheel Hub Set Screw #6-32 x 1/8" Long Set Screw	950375
* 20	2	Wormwheel Shaft Bearing	908660
21	2	Bearing Retainer Plate	006-22-117-01
22	4	Retainer Plate Screw #4-40 x 1/4" Long Pan Head Screw	950380
23	4	Lockwasher	950078
24	1	44T Idler Gear	006-31-344-44
25	1	Idler Gear Set Screw #6-32 x 1/8" Long Set Screw	950375
26	1	44T Drive Gear	006-36-444-44
27	1	Drive Gear Post	006-31-028-00
28	1	44T Drive Gear Retainer	006-24-080-00
29	1	Drive Gear Retainer Screw, #4-40 x 1/4" Long Pan Head Screw	950380
30	1	Retainer Screw Lockwasher	950078
31	1	Oil Reservoir Cover	006-41-053-01
32	3	Reservoir Cover Screw #4-40 x 1/4" Long Pan Head Screw	950380
33	3	Cover Screw Lockwasher	950078
34		Oil Wick	1191430
35	1	Slot Sensor Holder	006-41-078-00
36	1	Slot Sensor Switch	950237
37	1	#0-80 x 5/16" Long Flat Head Screw	950238
38	2	#5-40 x 1/2" Long Round Head Screw	950307
39	2	Lockwasher	950374
40	1	Bearing Bracket Filter Screen	006-22-083-01
41	1	Filter Screen Retainer	904419
* 42	1	Bracket to Carrier Tetraseal, Buna	950308
		Bracket to Carrier Tetraseal, Viton	950523
43	4	Bracket Retaining Screw #8-32 x 1/2" Long Fillister Head Screw	903373
44	4	Bracket Retaining Screw External Lockwasher	950371
45	1	Wire Clamp	950407
46	1	Oil Reservoir Gasket	006-41-160-01
47	1	Seal, Oil Passage, Buna	006-36-160-09
		Seal, Oil Passage, Viton	908289

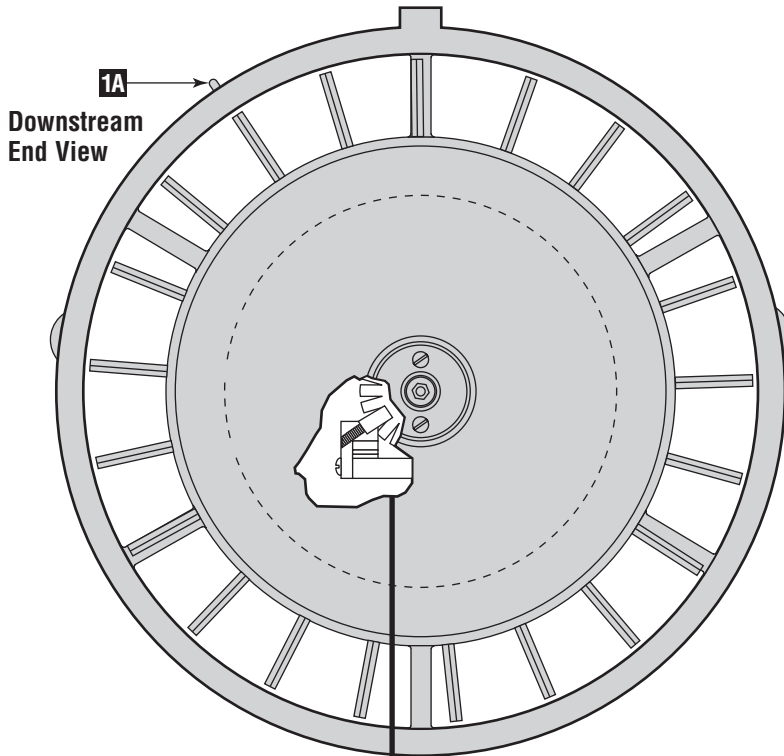
\*Recommended Spare Parts

\*\*These items affect calibration. These components must be ordered in combination and cannot be supplied as separate items.

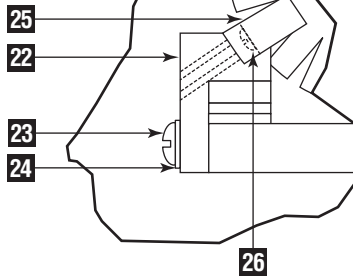
## Parts List

12" AAT-140 and AAT-230 Auto-Adjust® II Turbo-Meter

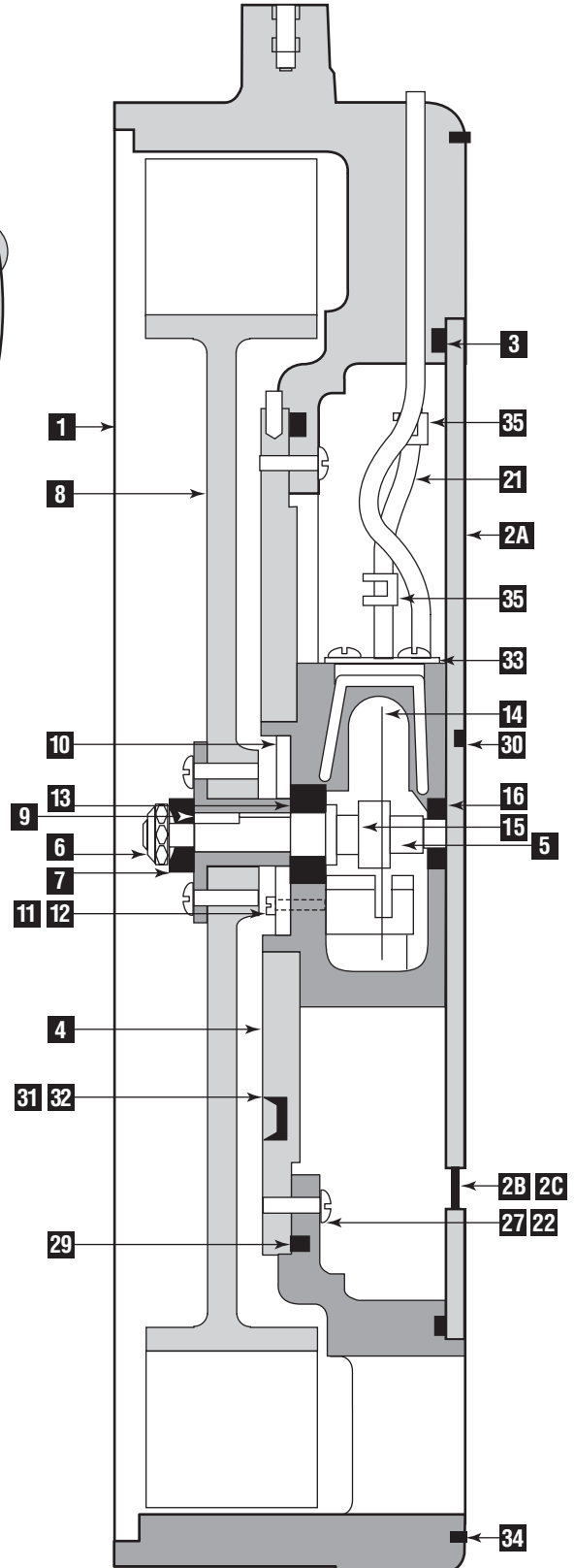
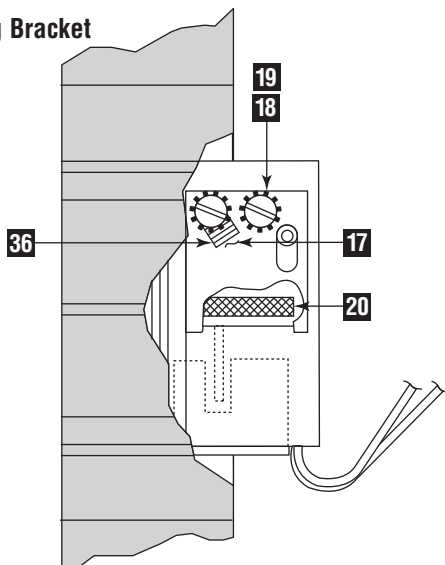
### Sensing Rotor Assembly Components



**Partial Bearing Bracket Section View**



**Partial Bearing Bracket Top View**



**Side View Section**



## Parts List

### 12" AAT-140 and AAT-230 Auto-Adjust® II Turbo-Meter

#### Sensing Rotor Assembly Components

Illustration Number	Quantity Required	Part Description	Part Number
**	1	Sensing Rotor Assembly, AAT-140, Buna	006-41-55003
		Sensing Rotor Assembly, AAT-140, Viton	006-41-55091
		Sensing Rotor Assembly, AAT-230, Buna	006-51-55002
		Sensing Rotor Assembly, AAT-230, Viton	006-51-55090
**1	1	Carrier Assembly (Includes Illustration No. 1A)	006-41-51902
1A	1	Oil Tubing	006-41-07901
2	1	Housing Plate Assembly, (Includes Illustration Nos. 2 A-C)	006-41-21000
2A	1	Housing Plate	006-41-01000
2B	1	Filter Screen	006-22-08301
2C	1	Screen Retainer	904419
*3	1	Tetraseal, Buna	950308
		Tetraseal, Viton	950523
4	1	Bearing Bracket	006-41-20901
5	1	Rotor Shaft	006-41-02401
6	1	Locknut	908661
7	1	Spherical Washer	908723
**8	1	Rotor and Insert Assembly, AAT-140	006-41-35001
		Rotor and Insert Assembly, AAT-230	006-51-35001
9	1	Rotor Locking Key	006-24-06900
10	1	Upstream Bearing Retainer Plate	006-31-11700
11	2	#4-40 x 3/8" Long Fillister Head Screw	903340
12	2	#4 Lockwasher	950078
*13	1	Upstream Rotor Shaft Bearing	906019
14	1	Chopper Disc Assembly (18 blades)	006-41-30802
15	1	#4-40 x 1/8" Long Set Screw	950305
*16	1	Downstream Rotor Shaft Bearing	950306
17	1	Oil Reservoir Cover Assembly	006-41-25300
18	4	#4-40 x 1/4" Long Pan Head Screw	950380
19	4	Lockwasher	950078
20		Oil Wick	1191430
21		Tubing	99993
22	1	Slot Sensor Holder	006-41-07800
23	2	Holder Retaining Screw #5-40 x 1/2" Long Round Head Screw	950307
24	2	Lockwasher	950374
25	1	Slot Sensor Switch	950563
26	1	Switch Retainer Screw # 0-80 x 5/16" Long Screw	950238
27	4	Carrier to Bracket Screw #8-32 x 1/2" Long Round Head Screw	908722
28	4	Lockwasher	950371
*29	1	Tetraseal, Buna	950310
		Tetraseal, Viton	950524
30	4	Bracket Retaining #8-32 x 3/8" Long Flat Head Screw	903132
31	2	Filter Screen	006-22-08301
32	2	Screen Retainer	904419
33	1	Oil Reservoir Gasket	006-41-16000
34	1	Square Rope (Held in w/Bostik Adhesive 4585 P/N 905120)	006-41-16400
35	2	Compression Ring	950682
36	1	Wire Clamp	950407
		Oil 4 ounce Bottle	006-22-40501
		Oil, 1 Gallon Can	006-22-40502
		Lubrication Hand Gun	006-24-40000
		Blank Top Plate, 220# W.P.	006-31-00304
		Blank Top Plate, 720# & 1440# W.P.	006-31-00382

\*Recommended Spare Parts

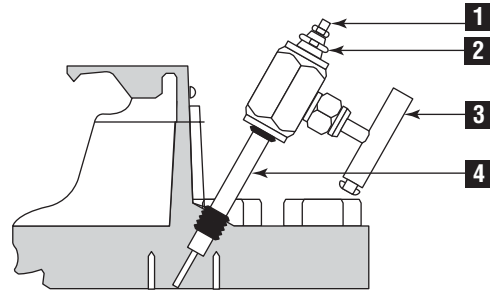
\*\*These items affect calibration. These components must be ordered in combination and cannot be supplied as separate items.

# Parts List

## 12" AAT-140 and AAT-230 Auto-Adjust® II Turbo-Meter

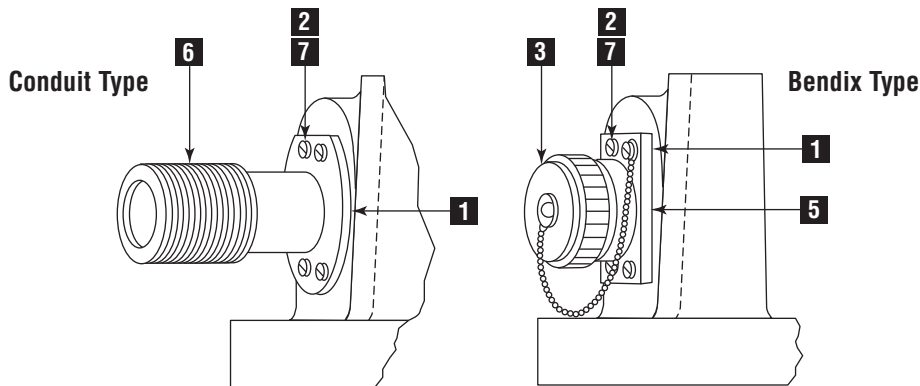
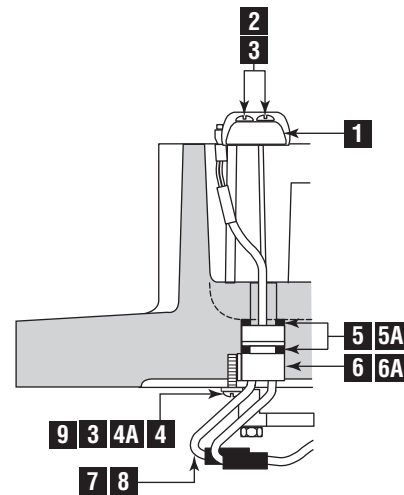
### External Lubrication Systems Fittings

Illustration Number	Quantity Required	Part Description	Part Number
1	1	Lubrication Fitting	000624-14500
2	1	Hex Bushing	950195
3	1	Valve 1/4"	950147 – 40°
			950710 – 20°
4	1	Pipe Nipple	950186 – 40°
			950760 – 20°



### Electrical Systems Fittings

Illustration Number	Quantity Required	Part Description	Part Number
1	1	Terminal Block	950364
2	3	#8-32 x 3/8" Long Screw	903371
3	A/R	Loctite	905115
4	1	#8-32 x 3/8" Long Screw	903371
4A	1	Washer	950448
5	2	"O" Ring, Buna	946861
5A	2	"O" Ring, Viton	902418
6	1	Feed-Thru Assembly, Buna	00632-31701 – 40°
			006-32-31700 – 20°
6A	1	Feed-Thru Assembly, Viton	750155
			800633
7	A/R	Solder	950371
8	A/R	Shrink Tube	
9	1	Lockwasher	



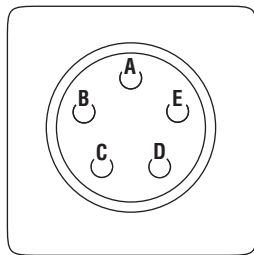
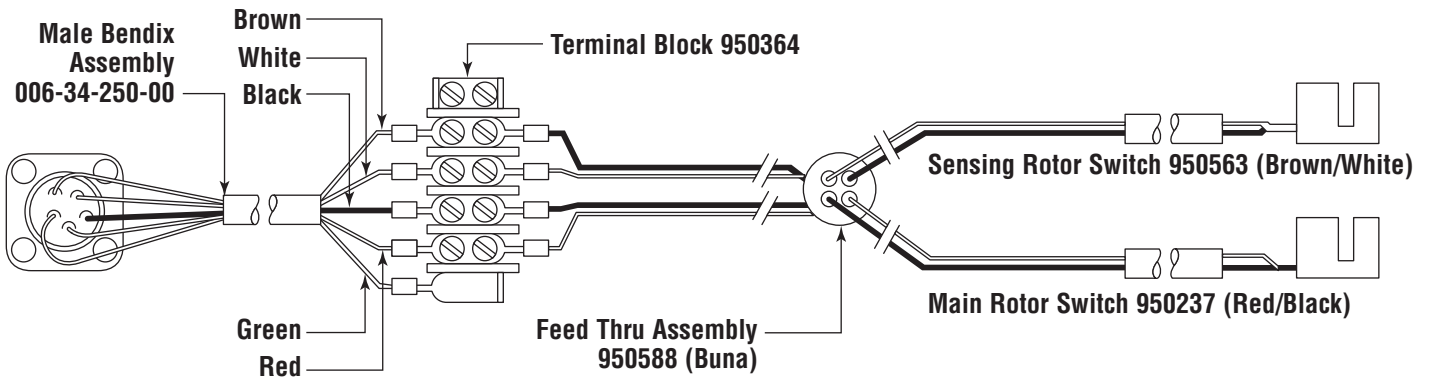
### External Wiring Fittings

Illustration Number	Quantity Required	Part Description	Part Number
1	1	Gasket	905321
2	4	#8-32 x 1/4" Long Round Head Screw	903055
3	1	Cap and Chain Assembly for Bendix Connector	006-32-13100
4	1	Bendix Connector, Female End (not shown)	950388
5	1	Bendix Connector, with Wiring to Terminal Block	006-34-25000
6	1	Conduit Adapter Assembly with Wiring to Terminal Block	006-34-33000
7	4	Lockwasher	950371

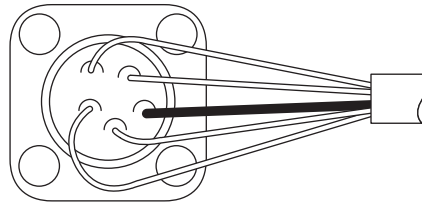
## Parts List

12" AAT-140 and AAT-230 Auto-Adjust® II Turbo-Meter

### Wiring System Components

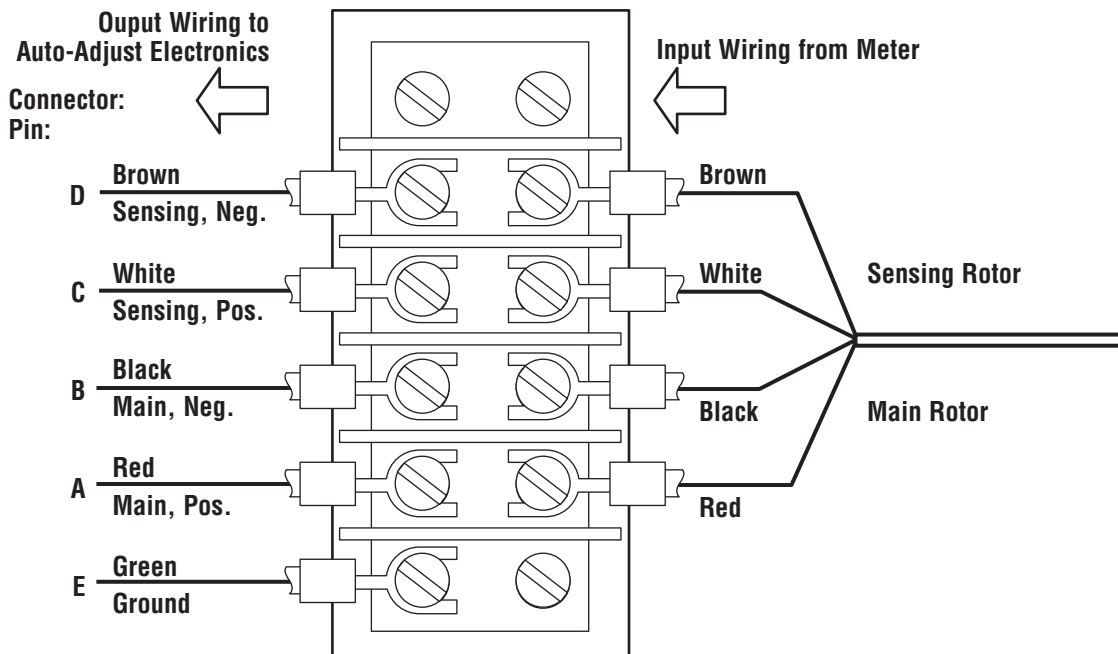


Bendix Connector  
Male End



Male Bendix Cable Assembly  
006-34-250-00  
or Conduit Adapter Assembly (not shown)  
006-34-330-00

### Terminal Block Wiring Detail for Bendix or Conduit Connectors





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