



VP series HPLC

Supplies and Maintenance Parts
for Shimadzu VP Series HPLC



VP series HPLC

— Fiber-optic cable
— Direct communication/control cable

Reservoir tray **P.19**
(P/N 228-34736-91)

On-line membrane degassers **P.4**
 DGU-12A (P/N 228-35358-xx)
 DGU-14A (P/N 228-35359-xx)
 DGU-12AM (P/N 228-35341-xx)
 DGU-14AM (P/N 228-35342-xx)

He Degasser
 DGU-10B **P.5**
 (P/N 228-35328-xx)

Mixer SS (P/N 228-35326-91)
 Mixer PEEK (P/N 228-32736-91)
 Analytical Mixer for 8A
 (P/N 228-20601-91)
 Prep. Mixer for 8A
 (P/N 228-20600-91)

<System Controller, Workstation>

Option Box *VP* **P.52**
 (P/N 228-34708-xx)
 Sub-controller *VP* **P.52**
 (P/N 228-35308-xx)

<Solvent Delivery Units>

Washing Kit **P.8**
 (P/N 228-18803-91)

<VP Series, LC-10A Series>

LC-10AD *VP* **P.8**
 (P/N 228-39000-xx)

LC-10AT *VP* **P.10**
 (P/N 228-39001-xx)

Rinsing Pump 10AT *VP* **P.18**
 (P/N 228-39625-91)

LC-10Ai (PEEK) **P.12**
 (P/N 228-35790-xx)

LC-6AD **P.16**
 (P/N 228-35750-xx)

LC-8A **P.14**
 (P/N 228-35740-xx)

<Valves>

<Valves; able to be linked directly with VP/10A series solvent delivery units>

Low Pressure Gradient Valve
 FCV-10AL *VP* **P.20**
 (P/N 228-34700-xx)

Reservoir Selection Valve
 FCV-11AL/11ALS **P.21**
 (P/N 228-35322-xx)

High Pressure Flow
 Channel Selection Valve
 FCV-12AH **P.22**
 (P/N 228-35323-xx)

Reservoir Selection
 Valve
 FCV-13AL **P.22**
 (P/N 228-35324-xx)

Column Switching Valve
 FCV-14AH **P.22**
 (P/N 228-35325-xx)

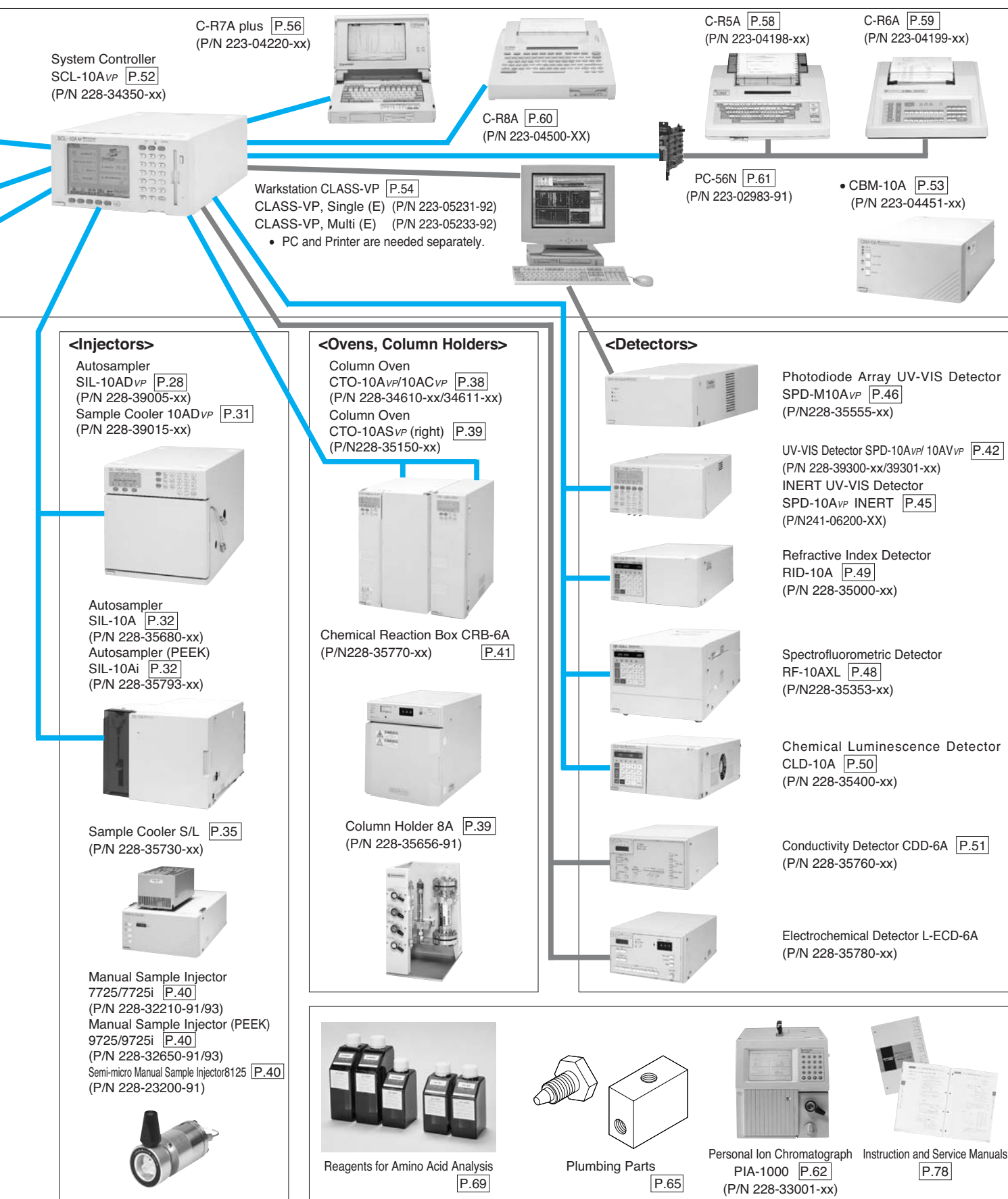
Reservoir Selection Valve
 FCV-7AL **P.24**
 (P/N 228-35654-91)

Fraction Collector
 FRC-10A **P.27**
 (P/N 228-35800-xx)

Reservoir Selection Valve
 FCV-130AL **P.25**
 (P/N 228-35653-93)

Manual Column
 Switching Valve **P.26**
 (P/N 228-13000-95)

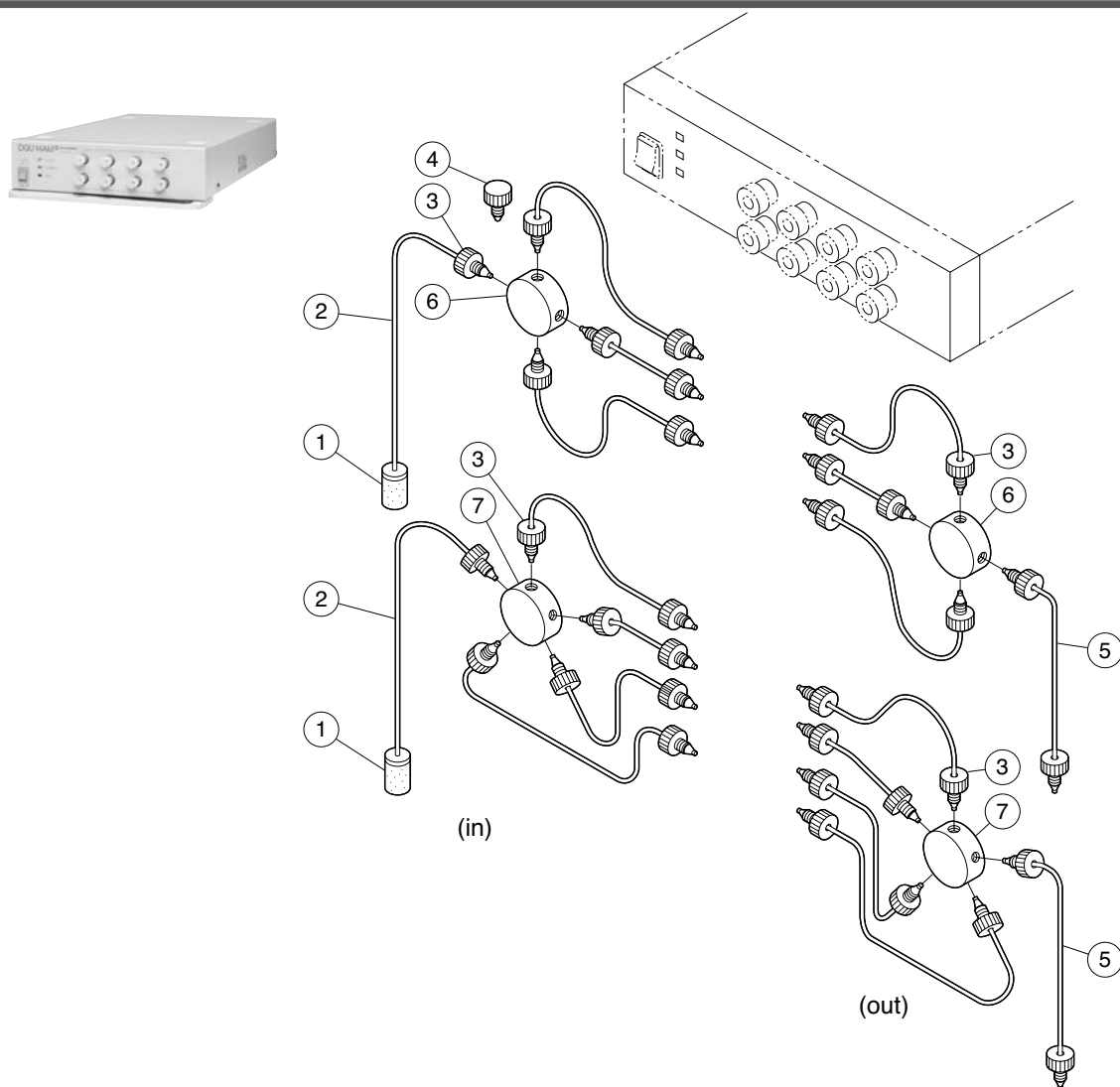
Manual Recycling Valve
P.26
 (P/N 228-20401-92)



DGU-12A/14A DGU-12AM/14AM

On-line Membrane Degasser

VP series HPLC



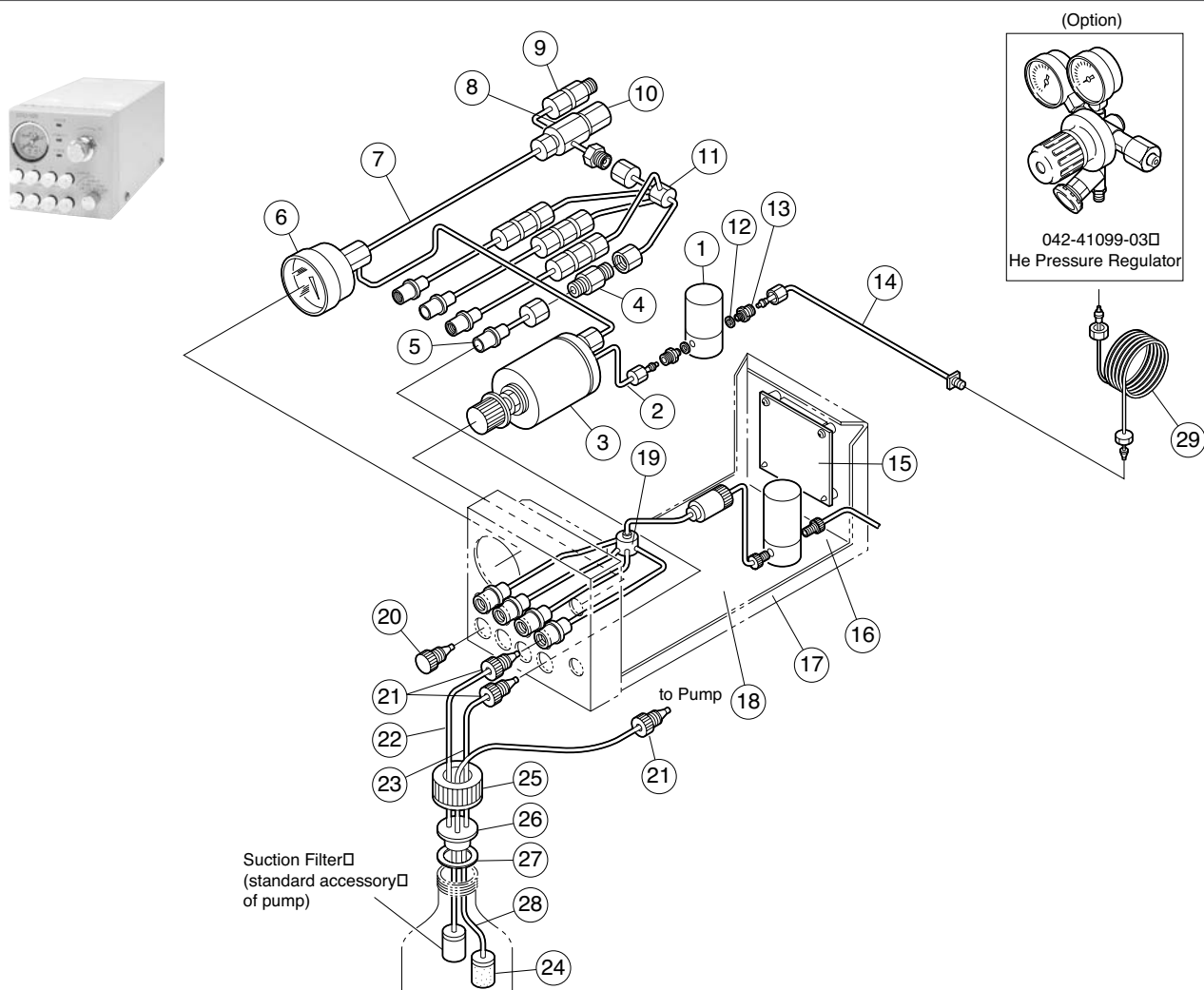
DGU-12A/14A/12AM/14AM degassers

No.	Part No.	Description	No.	Part No.	Description
①	228-21984-01	Solvent Reservoir Filter, SS (Option)		228-34156	Magnetic Solenoid Valve, DGU
②	228-35464	FEP Tubing 3 mm × 1.5 mm × 2 m (Option)		228-34157	Board, Output, DGU
③	228-18555	Bushing, 3D		228-34158	Vacuum Tank, DGU-12A/14A
④	228-23119	Sealing Plug, 3D		228-35355	Degasser Chamber 12AM/14AM
⑤	670-10321-03	Tubing, FEP, 3 mm × 2 mm × 2 m, DGU-12A/14A		228-34159	Board, Control, DGU
	670-10321-04	Tubing, FEP, i.d. 1 × o.d. 3, DGU-12AM/14AM		228-34160	Board, Leak Sensor, DGU
	072-02004-16	Fuse, 218,001 1A 250V		228-34161	Vacuum Pump, DGU
	072-02004-13	Fuse, 218,500 0.5A 250V		228-34162	Tubing Parts Kit, DGU-12A/12AM
	228-34154	Transformer, DGU		228-34263	Tubing Parts Kit, DGU-14A/14AM
	228-34155	Board, LED, DGU		228-34081	Tray, DGU

228-24259-91 4-port Connection Assy (Option)

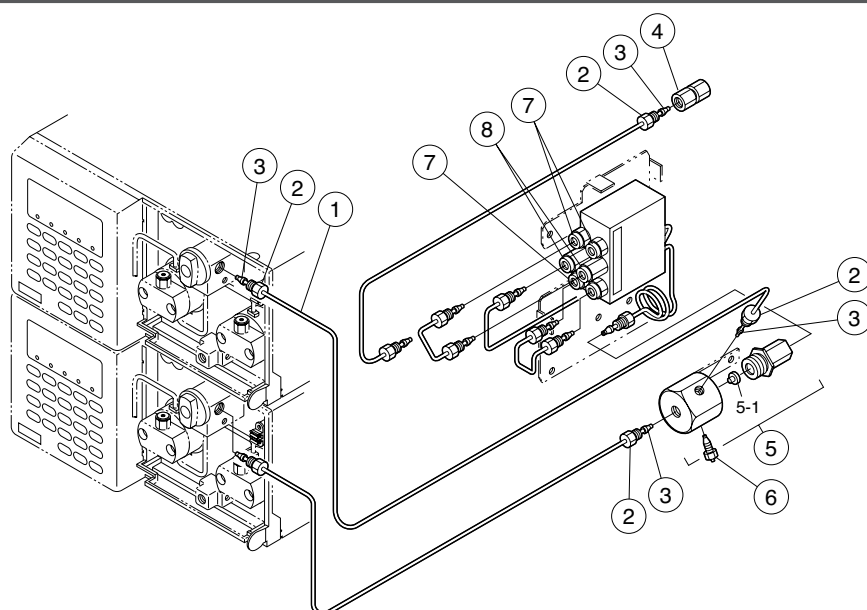
228-24259-92 5-port Connection Assy (Option)

No.	Part No.	Description	No.	Part No.	Description
③	228-18555	Bushing, 3D	③	228-18555	Bushing, 3D
④	228-23119	Sealing Plug, 3D	④	228-23119	Sealing Plug, 3D
⑥	228-24260	4 Port Connection	⑦	228-34257	5 Port Connection



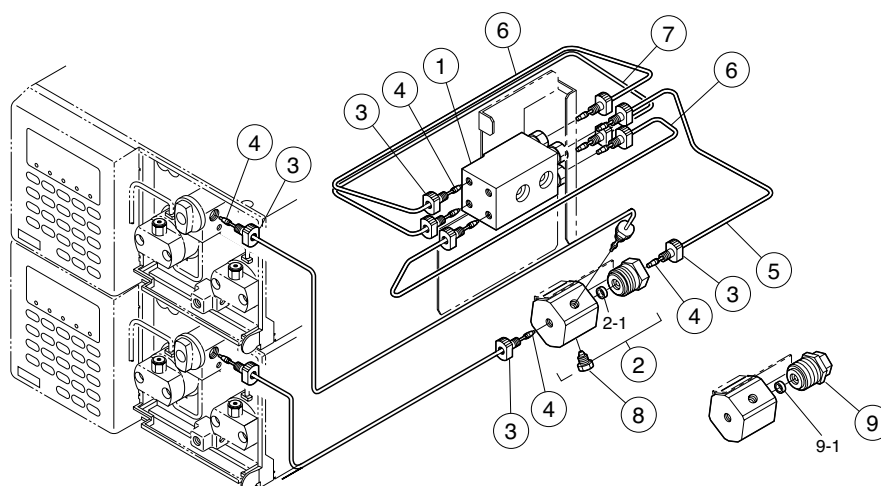
DGU-10B Helium Degasser

No.	Part No.	Description	No.	Part No.	Description
①	228-24835-91	Solenoid Valve Assy	②①	228-18555	Bushing, 3D
②	201-48555-15	Tubing, SS, MN-MN L-150	②②	228-25369-95	Tubing, PTFE, Marked (A-V)
③	221-18150-91	Pressure Regulator, 2kg		228-25369-96	Tubing, PTFE, Marked (B-V)
④	221-23391-92	Resistance Tubing, Air		228-25369-97	Tubing, PTFE, Marked (C-V)
⑤	228-24840-91	Tubing, Out Assy		228-25369-98	Tubing, PTFE, Marked (D-V)
⑥	670-18558-11	Pressure Gauge, 200 kpa	②③	228-25369-91	Tubing, PTFE, Marked (A-H)
⑦	228-24839-91	Tubing, Pressure Gauge, Assy		228-25369-92	Tubing, PTFE, Marked (B-H)
⑧	228-28052-91	Distribution Tubing Assy		228-25369-93	Tubing, PTFE, Marked (C-H)
⑨	221-23391-93	Resistance Tubing, FP, Air		228-25369-94	Tubing, PTFE, Marked (D-H)
⑩	228-32233	Relief Valve	②④	228-11647-92	Solvent Reservoir Filter Assy
⑪	228-24837-91	5 Port Distributor 1 Assy	②⑤	228-17644	Cap
⑫	035-60208-09	Gasket, FGS-M5	②⑥	228-17848-91	Cap Assy
⑬	228-24821	Connection A	②⑦	228-17851-01	Packing, PTFE
⑭	201-48557-50	Tubing, SS, MN-MN L-500	②⑧	228-23126-01	Tubing, PTFE, i.d. 2 × o.d. 3 × 230
⑮	228-31002-91	P.C. Board, PB-1 Assy	②⑨	201-48067	Tubing, Carrier Gas
⑯	228-24843-91	Vent Assy		228-25378-01	Cable, for Option Box VP Connection
⑰	228-24834-91	PTFE Solenoid Valve Assy		228-25372-91	Cable, Connection, LC-VP/LC-10A Solvent delivery Unit
⑱	228-24838-91	5 Port Distributor 2 Assy		228-32237-91	Cable, for FCV-10ALVP/10AL Connection
⑳	228-23119	Sealing Plug, 3D			



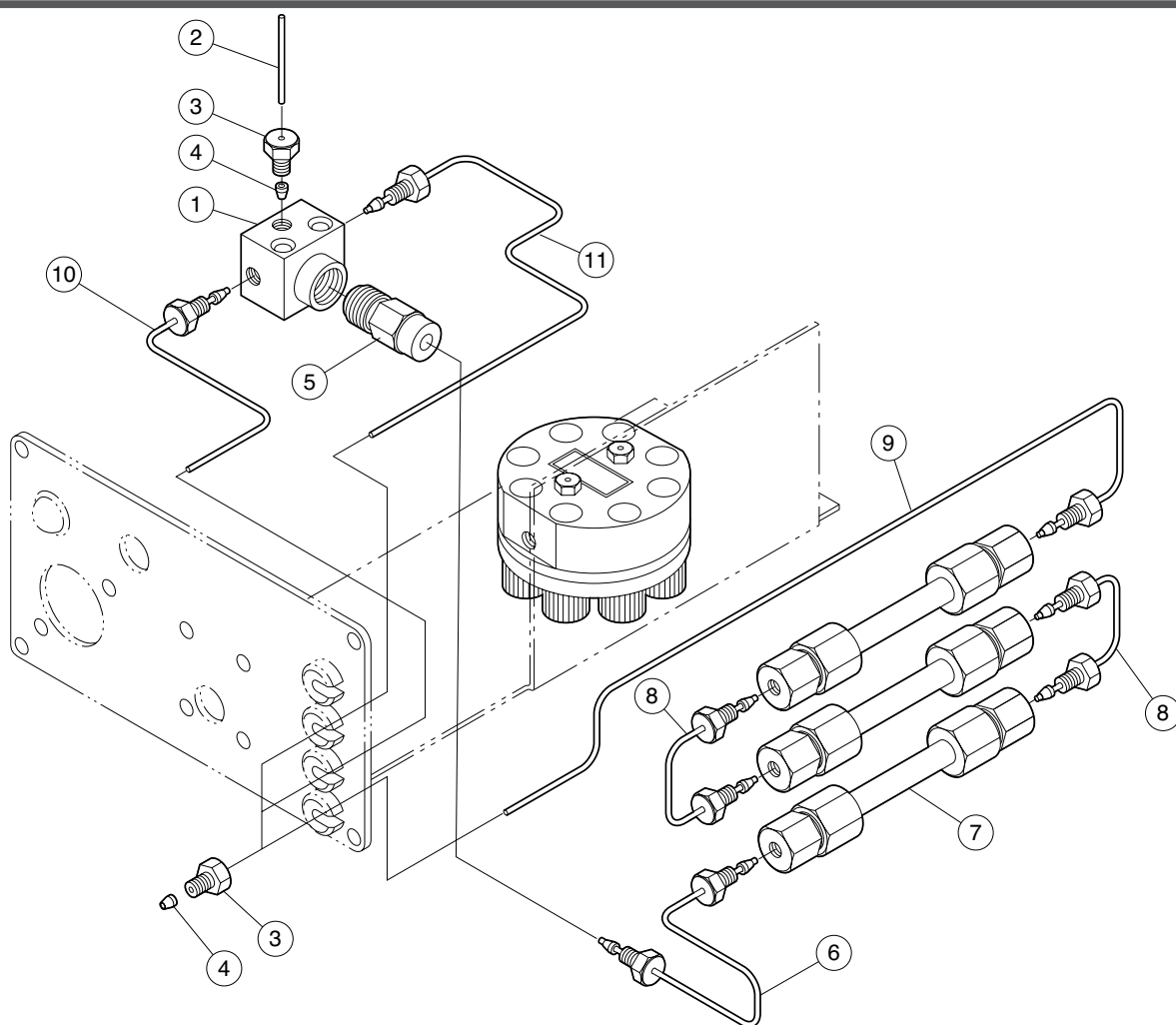
228-35326-91 Mixer SS

No.	Part No.	Description	No.	Part No.	Description
①	228-36993-91	SUS Tubing i.d. 0.3 × o.d. 1.6 × 2 m	5-1	228-18872-91	Filter, Packing
②	228-16001	Male Nut 1.6mm	⑥	228-28004-91	Blank Connector
③	228-16000-84	Ferrule, 1.6F ...3/pkt		228-28004-92	Blank Connector, Long
④	228-16004-03	Coupling 1.6C-04	⑦	228-15124-02	Bushing B, for Mixer
⑤	228-28001-91	Pre-Mixer Assy	⑧	228-15124-01	Bushing A, for Mixer



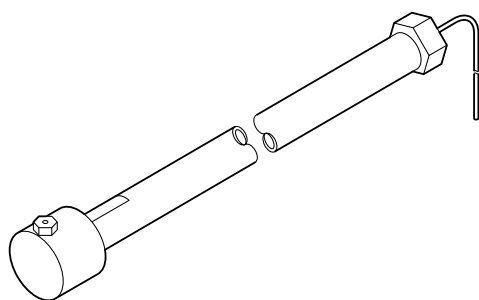
228-32736-91 Mixer PEEK

No.	Part No.	Description	No.	Part No.	Description
①	228-32737-91	Mixer Body, PEEK	⑥	228-33352-91	Tubing B Assy
②	228-32741-91	IN Block, PEEK	⑦	228-33351-91	Tubing A Assy
2-1	228-32744	Filter, Pat Frit, 5μm	⑧	228-28090	Blank Connector, PEEK
③	228-33213	Male Nut 1.6mm-2, PEEK	⑨	228-33111-91	Titanium Pre-Mixer (Option)
④	228-31638	Ferrule, 1.6F PEEK	9-1	228-18584	Packing, Mixer
⑤	228-33349-92	Tubing (IN), Body L Assy			

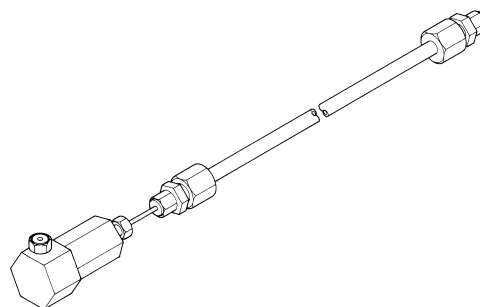


228-20738-92 Mixer 6AD

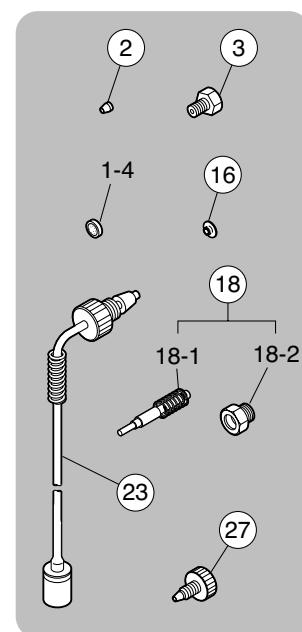
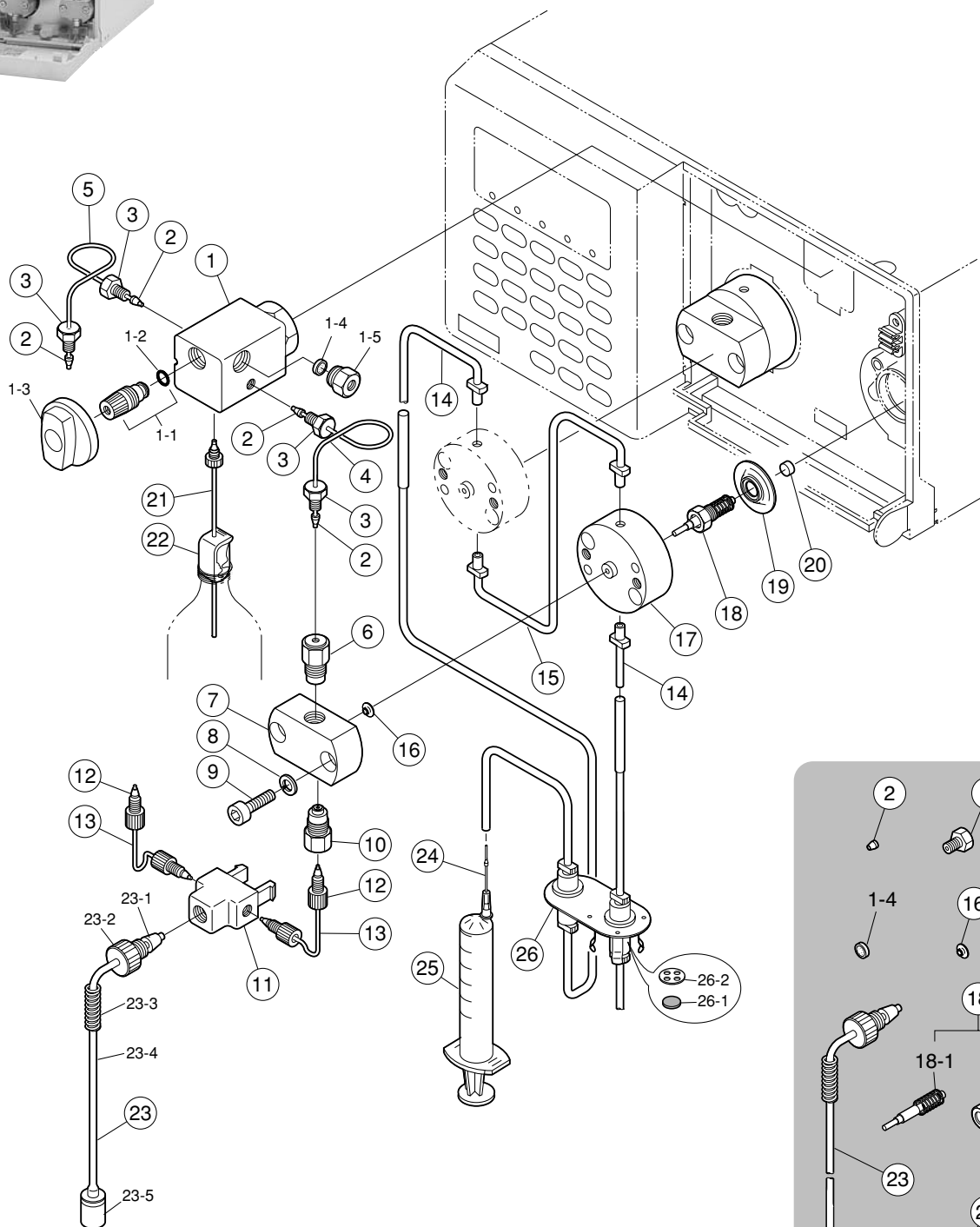
No.	Part No.	Description	No.	Part No.	Description
①	228-20342-02	4-Way Block, for Preheater	⑦	228-03336-93	Mixing Chamber, GRE-2B
②	228-20733	Sealing Pin	⑧	228-20729-92	Tubing Assy D, for Mixing Unit
③	228-16001	Male Nut 1.6mn	⑨	228-20730-92	Tubing Assy E, for Mixing Unit
④	228-16000-84	Ferrule, 1.6F ...3/pkt	⑩	228-20726-92	Tubing Assy A, for Mixing Unit
⑤	228-20331-93	Pre-Mixer C Assy	⑪	228-20727-92	Tubing Assy B, for Mixing Unit
⑥	228-20728-92	Tubing Assy C, for Mixing Unit			



228-20600-91 Prep. Mixer for 8A



228-20601-91 Analytical Mixer for 8A



LC-10AD_{VP} Solvent Delivery Unit

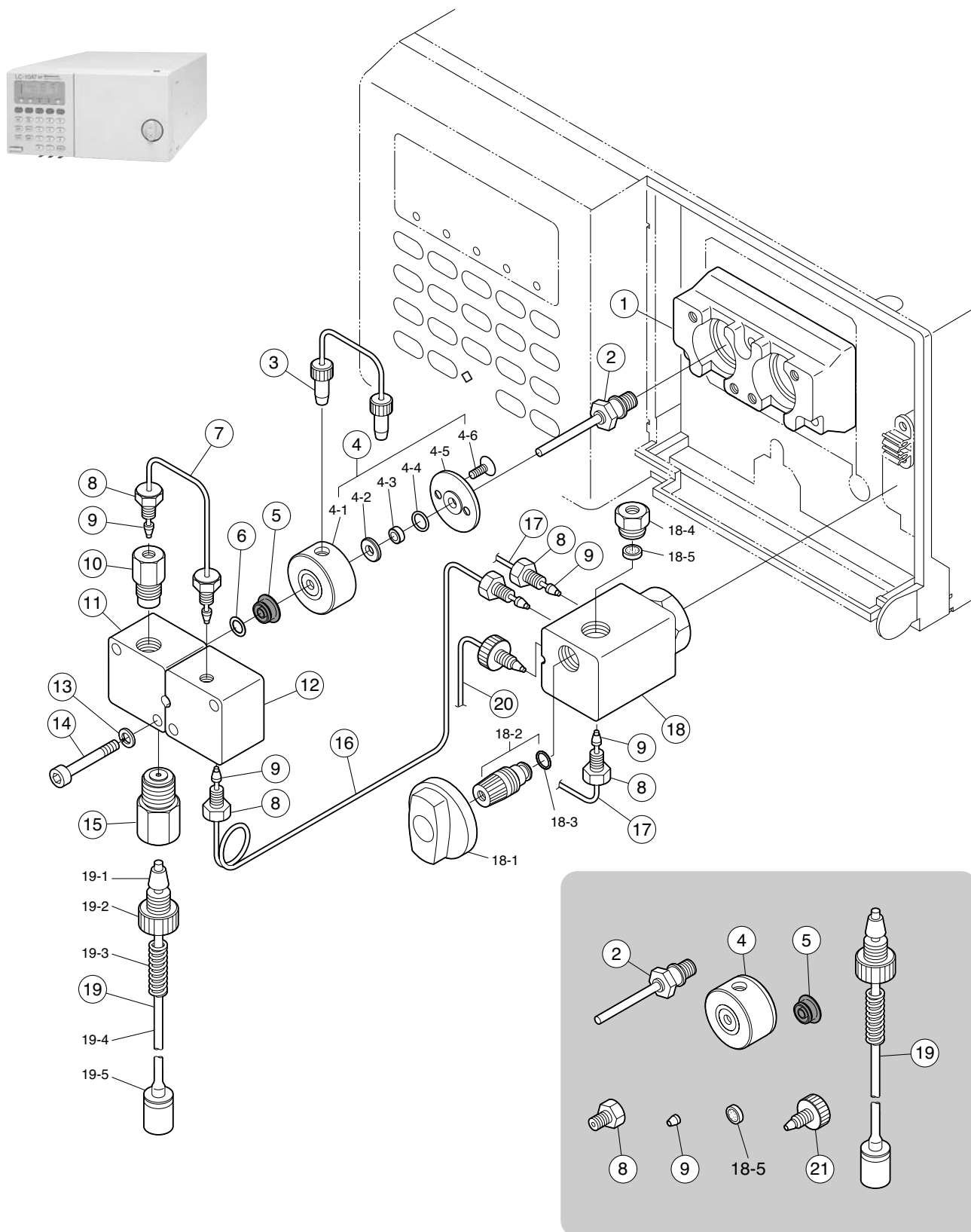
No.	Part No.	Description	No.	Part No.	Description
①	228-39079-92	Pressure Sensor Assy	⑰	228-32628-91	Seal, PE, LC-10ADVP
1-1	228-28317-94	Shaft Assy, LC-10AD	⑱	228-34496	Head Holder, LC-10ADVP
1-2	670-11518	O-Ring, Perfluoro, P5	⑲	228-35281-91	Plunger Holder Assy
1-3	228-24189	Knob	⑳	228-32784-91	Diaphragm, ...2/pkt
1-4	228-32744	Filter, Pat Frit, 5µm	㉑	228-34469	Thrust
1-5	228-39082-91	Housing, Line Filter	㉒	228-25495-91	Drain Tubing Assy
②	228-16000-84	Ferrule, 1.6F ...3/pkt	㉓	046-00994-03	Tubing Clamp, 3136-03
③	228-16001	Male Nut 1.6mn	㉔	228-39181-92	Solvent Reservoir Filter Assy
④	228-41445-93	Tubing R (OUT)	23-1	228-12493	Ferrule, 3.0F-T, Teflon
⑤	228-41445-94	Tubing L (OUT)	23-2	228-39084	Bushing 3, PEEK
⑥	228-34976-91	Check Valve Assy (OUT)	23-3	228-12654	Coil Spring
⑦	228-34541	Pump Head	23-4	228-35464	FEP Tubing 3 mm × 1.5 mm × 2 m
⑧	023-77050	Washer, SST Spring 2, M 5	23-5	228-21984-01	Solvent Reservoir Filter, SS
⑨	022-27089	Bolt, Hex SST, i.d. 5 × o.d. 20	㉕	228-18216-91	Needle Assy, for Syringe
⑩	228-39093-92	Check Valve Assy (IN)	㉖	046-00038-01	Syringe, L-208, 20 mL
⑪	228-18648	Inlet Manifold	㉗	228-18803-91	Rinse Kit, Automatic, LC-10ADVP (option)
⑫	228-35403	Male Nut 1.6MN, PEEK	26-1	228-24313	Seat, Kalrez, Pump Rinse Kit
⑬	228-18495-01	Tubing, ETFE, i.d. 0.8 × o.d. 1.6	26-2	228-18573	Stopper
⑭	228-35463-91	Tubing, Rinse S		228-39452-92	Damper Assy
⑮	228-39184-92	Tubing, Rinse		228-39211-02	Door Assy
⑯	228-35146	Seal, GFP, 42455			

LC-10AD_{VP} Electrical Parts

No.	Part No.	Description	No.	Part No.	Description
	072-02004-19	Fuse, 218,500 2A 250V		074-73307-01	Lithium Battery, CR2032
	072-02004-16	Fuse, 218,001 1A 250V		228-34695-91	Voltage Selector Assy
	228-39071-91	Switch Assy		228-39247-92	Leak Sensor
	228-39050-91	Transformer Assy		228-25246-91	Fan SPD60, LC-10A Assy
	228-39058-91	PCB Main Pump VP Assy		228-39068-91	Harness Front Assy
	228-35842-91	Photosensor Assy, 10AD _{VP}		228-34792-91	Cable Pressure Sensor
	228-34905-92	PCB PRSEN Assy		228-39249	Option Box, L
	228-39061-91	PCB, Panel Assy		228-39180-01	Keypot PUMP
	228-35605-91	PCB, CPU Assy, VP Modules		228-39306-91	RCA Cable Terminal
	228-35606-91	Monitor VP ROM Assy		228-35307-91	Terminal for Event Cable, ...10/pkt

228-35465-91 LC-10AD_{VP} Maintenance Kit

No.	Part No.	Description	Qty	No.	Part No.	Description	Qty
1-4	228-32744	Filter, Pat Frit, 5µm	2	18-1	228-35601-91	Plunger Zr Assy	
②	228-16000	Ferrule, 1.6F ...3/pkt	4	18-2	228-35602-91	Plunger Holder Assy	
③	228-16001	Male Nut 1.6mn	4	㉓	228-39181-92	Solvent Reservoir Filter Assy	1
⑯	228-35146	Seal 42455	2	㉗	228-18565	Male Nut, PEEK	4
⑱	228-35281-91	Plunger Holder Assy	1		228-36993-91	SUS Tubing i.d. 0.3 × o.d. 1.6 × 2 m	1



228-35465-92 Maintenance Kit

LC-10AT_{VP} Solvent Delivery Unit

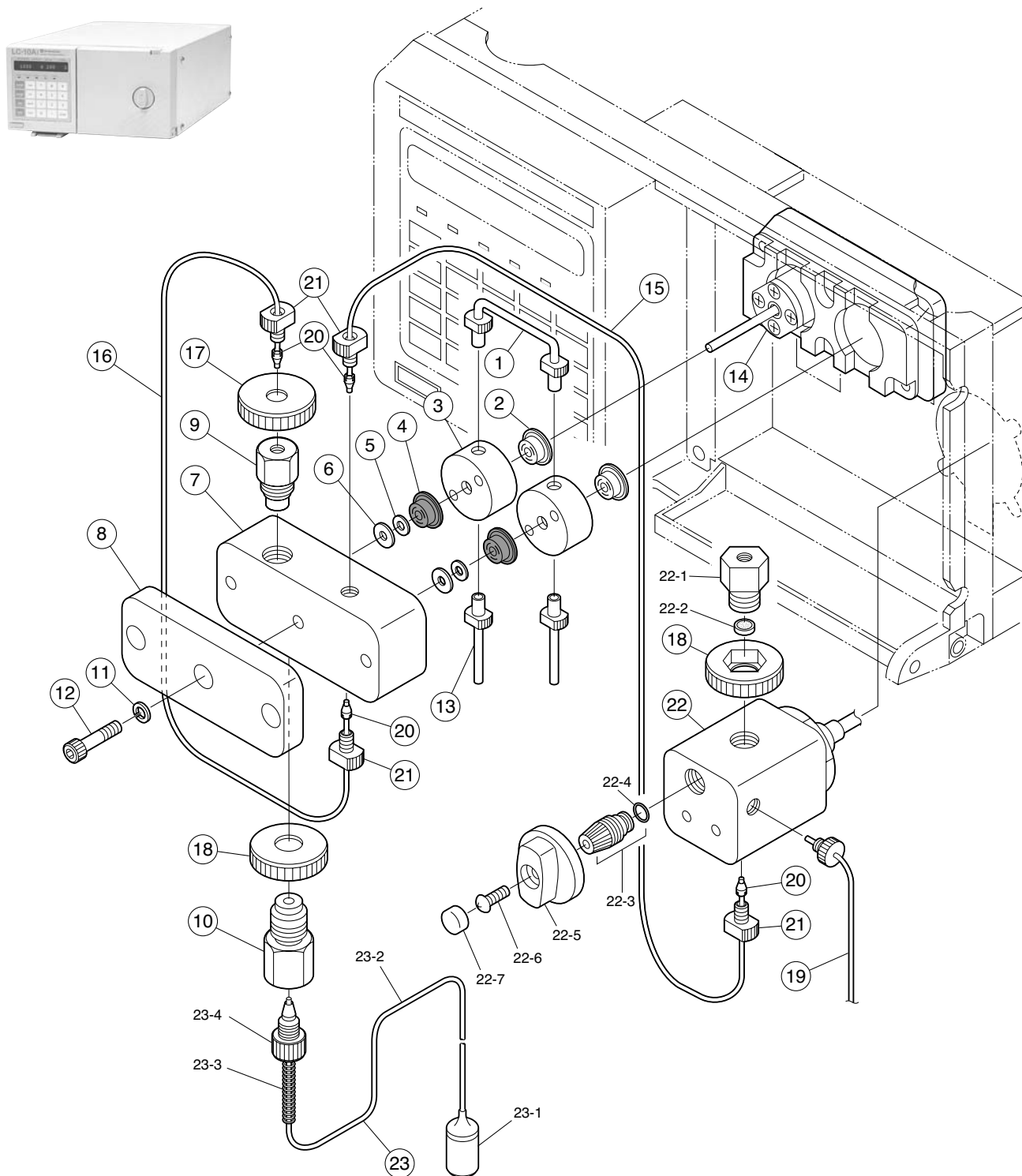
No.	Part No.	Description	No.	Part No.	Description
①	228-39104-01	Head Holder	⑬	022-77040	Washer
②	228-35009-92	Plunger Zr Assy	⑭	022-27053	Bolt, Hex SST, i.d. 4 × o.d. 30
③	228-39121-91	Rinse Tubing Assy, LC-10ATVP	⑮	228-32166-91	Check Valve (IN)
④	228-35946-91	Seal Holder Assy, LC-10ATVP	⑯	228-35461-91	Tubing, SEC-PRS
4-1	228-35932	Seal Holder B, LC-10ATVP	⑰	228-35462-91	Tubing, PRS
4-2	228-35934	Ring, Back-up, LC-10ATVP	⑱	228-39079-91	Pressure Sensor Assy
4-3	228-35935	Rinse Seal, LC-10ATVP	18-1	228-24189	Knob
4-4	670-11518	O-Ring, Perfluoro, P5	18-2	228-28317-94	Shaft Assy
4-5	228-35933	Seal Retainer, LC-10ATVP	18-3	670-11518	O-Ring, Perfluoro, P5
4-6	020-12033	Screw, SST Flat Head, M 2.6 × 5	18-4	228-39082-91	Housing, Line Filter
⑤	228-35145	Seal, GFP, 42429	18-5	228-32744	Filter, Pat Frit, 5μm
	228-21975-91	Seal, PE 230106406-1	⑲	228-39181-92	Solvent Reservoir Filter Assy
	228-32325-01	Spacer i.d. 3.2 × o.d. 7.7 (for Seal, PE)	19-1	228-12493	Ferrule, 3.0F-T, Teflon
	228-32401	Spacer i.d. 3.2 × o.d. 6.3 (for Seal, PE)	19-2	228-39084	Bushing 3, PEEK
⑥	228-35804	Cap, Seal, LC-10ATVP (for Seal, GFP)	19-3	228-12654	Coil Spring
⑦	228-35265-91	Tubing PRI-SEC	19-4	228-35464	FEP Tubing 3 mm × 1.5 mm × 2 m
⑧	228-16001	Male Nut 1.6mm	19-5	228-21984-01	Solvent Reservoir Filter, SS
⑨	228-16000-84	Ferrule, 1.6F ...3/pkt	⑳	228-25495-91	Drain Tubing Assy
⑩	228-34976-91	Check Valve Assy (OUT)		032-21979-38	Belt, Timing, 100S3M246, New LC-10AT
⑪	228-39105-01	Head TVP1		228-39211-03	Door Assy, Front
⑫	228-39106-91	Head TVP2			

LC-10AT_{VP} Electrical Parts

No.	Part No.	Description	No.	Part No.	Description
	072-02004-19	Fuse, 218,002 2A 250V		074-73307-01	Lithium Battery, CR2032
	072-02004-16	Fuse, 218,001 1A 250V		228-34695-91	Voltage Selector Assy
	228-39071-91	Switch Assy		228-39247-92	Leak Sensor
	228-39050-91	Transformer Assy		228-25246-91	Fan SPD60, LC-10 Assy
	228-39058-91	PCB Main Pump VP Assy		228-39068-91	Harness Front Assy
	228-39064-91	PCB, Sensor Assy		228-34792-91	Cable Pressure Sensor
	228-34905-92	PCB PRSEN Assy		228-39249	Option Box, L
	228-39061-91	PCB, Panel Assy		228-39180-01	Keypot PUMP
	228-35605-91	PCB, CPU Assy, VP Modules		228-39306-91	RCA Cable Terminal
	228-35606-91	Monitor VP ROM Assy		228-35307-91	Terminal for Event Cable (10pcs)

228-35465-92 LC-10AT_{VP} Maintenance Kit

No.	Part No.	Description	Qty	No.	Part No.	Description	Qty
②	228-35009-92	Plunger Zr Assy	1	20-5	228-32744	Filter, Pat Frit, 5μm	2
④	228-35946-91	Seal Holder Assy, LC-10ATVP	1	⑳	228-39181-92	Solvent Reservoir Filter Assy	1
⑦	228-35145	Seal 42429	2	㉑	228-18565	Male Nut, PEEK	4
⑩	228-16001	Male Nut 1.6mm	4		228-36993-91	SUS Tubing o.d. 1.6 × i.d. 0.3 × 2 m	1
⑪	228-16000	Ferrule, 1.6F ...3/pkt	4				



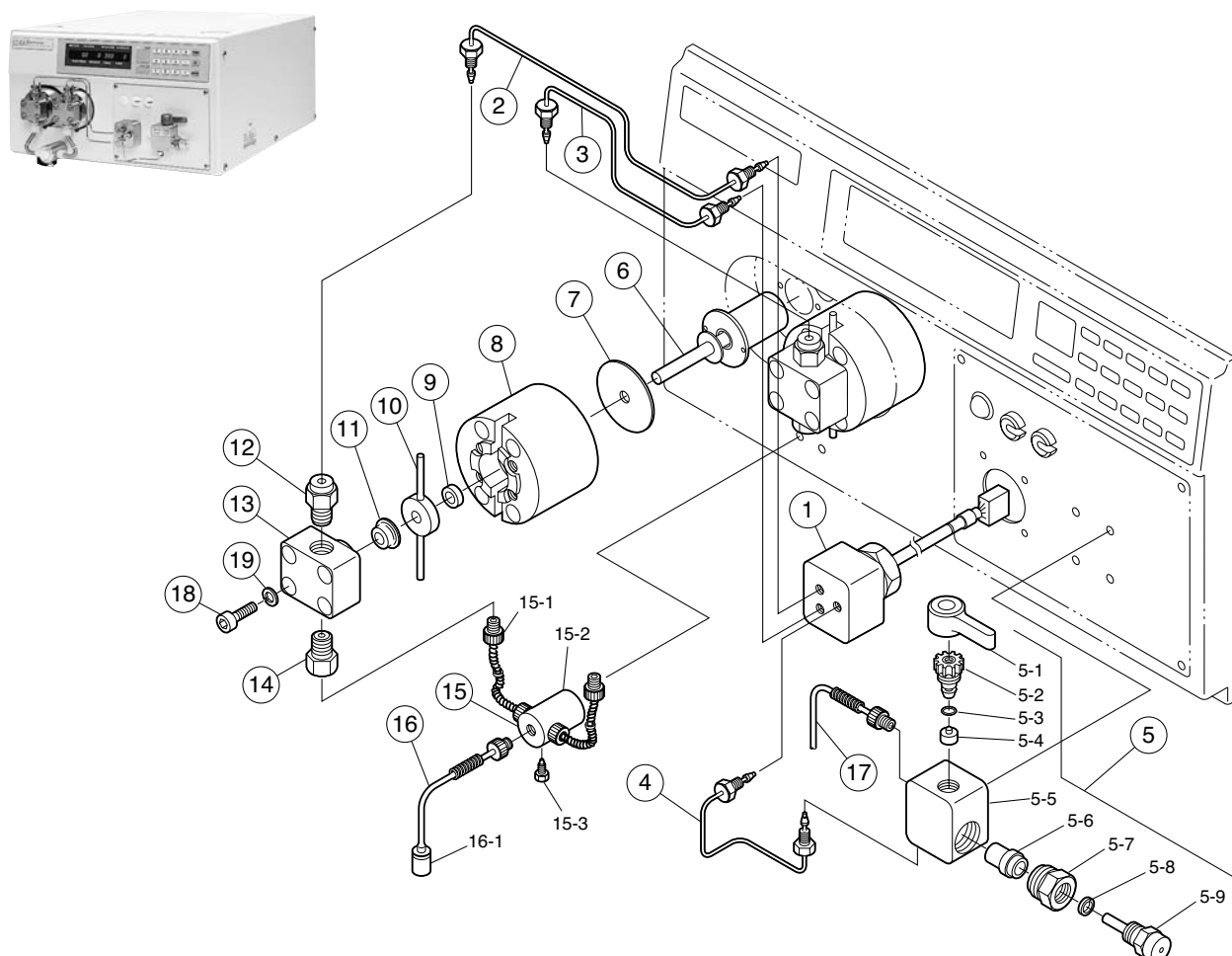
LC-10Ai Solvent Delivery Unit

LC-10Ai Solvent Delivery Unit

No.	Part No.	Description	No.	Part No.	Description
①	228-32135-91	Tubing, Rinse, U Assy	⑲	228-25495-91	Drain Tubing Assy
②	228-28499	Plunger Seal, PE	⑳	228-31638	Ferrule, 1.6F PEEK
③	228-32954	Seal Holder	㉑	228-33213	Male Nut 1.6mm-2, PEEK
④	228-21975-91	Seal, PE 230106406-1	㉒	228-32803-91	Pressure Sensor Assy, PEEK
⑤	228-32401	Spacer i.d. 3.2 × o.d. 6.3		228-32803-93	Pressure Sensor Assy, PEEK, EMC
⑥	228-32325-01	Spacer i.d. 3.2 × o.d. 7.7	22-1	228-33265	Filter Housing, LC-10Ai
⑦	228-32598	Pump Head	22-2	228-32744	Filter, Pat Frit, 5μm
⑧	228-32187	Head Retainer	22-3	228-28317-93	Shaft Packing Assy
⑨	228-32798-91	Check Valve (OUT), 10Ai	22-4	670-11518	O-Ring, Perfluoro, P5
⑩	228-32792-91	Check Valve (IN), 10Ai	22-5	228-24189	Knob
⑪	022-77040	Washer	22-6	020-37054	Screw, i.d. 4 × o.d. 8
⑫	022-27053	Bolt, Hex SST, i.d. 4 × o.d. 30	22-7	228-24188	Cap
⑬	228-18866-91	Rinse Tubing A	㉓	228-18740-92	Solvent Reservoir Filter, Ceramic
⑭	228-32654-91	Plunger Case Assy		228-33335-91	Filter Set, Ceramic, ...3/pkt (Option)
⑮	228-32805-91	Tubing, SEC-PRS	23-1	228-25079-91	Element, Ceramic, Solvent Reservoir Filter
⑯	228-32806-91	Tubing Assy, PRI-SEC	23-2	670-10321-03	Tubing, FEP, 3 mm × 2 mm × 2 m
⑰	228-33301-02	Cap, 10	23-3	228-12654	Coil Spring
⑱	228-33302-02	Cap, 13	23-4	228-18555	Bushing, 3D

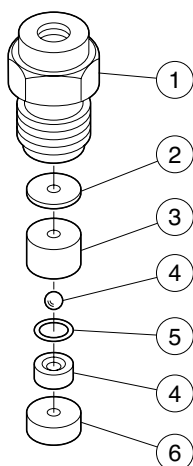
LC-10Ai Electrical Parts

No.	Part No.	Description	No.	Part No.	Description
	071-60814-01	Power Supply Cable; AC Code, AC 100V/120V		228-33343-93	Panel Assy
	071-60814-06	Power Supply Cable; AC Code, AC 220V/240V		071-20031	Terminal, SQ-0204-02
	071-60813	Adapter, KPR-18		228-23674	Switch, 4431/4432
	228-28253-91	Remote Cable Assy		228-23013-01	Key
	228-28288-91	Photosensor 10A Assy		228-25246-91	Fan SPD60 Assy
	228-24785-93	PB-1 with ROM, LC-10Ai		064-54753-01	Switch, JPZ2120-0301
	228-23685-93	P.C. Board, PB-1 Assy, w/o ROM		228-32142-95	Motor Assy PK268
	228-24783-93	ROM, LC-10Ai		032-21986-10	Belt, 103M246UK, Discontinued Use 032-21979-38
	074-80363-01	Power Supply Unit, SLM50224		046-00038-01	Syringe, L-208, 20 mL
	228-24781-91	Terminal Assy		228-18216-91	Needle Assy, for Syringe
	228-40766-91	P.C. Board, FIP Assy		228-25142	Seal Remover 10A
	072-02004-19	Fuse, 218,002 2A 250V		070-92025-51	Fiber Optic Cable, HFBR3600-1-021
	072-02004-16	Fuse, 218,001 1A 250V			



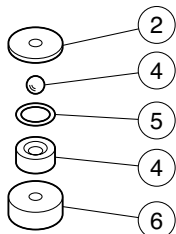
LC-8A Solvent Delivery Unit

No.	Part No.	Description	No.	Part No.	Description
①	228-20275-91	Pressure Sensor	⑧	228-16833	Head Holder, LC-8A
②	228-18106-91	Tubing Assy Out L, LC-8A	⑨	228-18306	Seal 2004-108-GC, LC-8A
③	228-18104-91	Tubing Assy Out R, LC-8A	⑩	228-20260-91	Seal Housing
④	228-18105-91	Tubing Assy PS-Drain, LC-8A	⑪	228-18092	Seal UR304-108-GF-HST, LC-8A
⑤	228-17526-91	Drain Valve Assy, LC-8A	⑫	228-09054-93	Check Valve Assy (OUT)
5-1	228-20041	Handle	⑬	228-16809-01	Pump Head, LC-8A
5-2	228-21171-91	Shaft, 8A	⑭	228-20256-91	Check Valve Assy (IN), LC-8A
5-3	036-11402	O-Ring, PTFE	⑮	228-20512-91	Inlet Block Assy
5-4	228-21751-92	Drain Gasket, LC-8A	15-1	228-20511-91	PTFE Tubing Assy (IN), LC-8A
5-5	228-20057-01	Drain Valve Body	15-2	228-20054	Solvent Recycling Element, LC-8A
5-6	228-18405-91	Filter Assy, LC-8A	15-3	228-16006	Plug 1.6P
5-7	228-17522-01	Filter Holder	⑯	228-17421-91	Solvent Reservoir Filter Assy, LC-8A
5-8	228-12564	Packing	16-1	228-20031	Element for Solvent Reservoir Filter
5-9	228-20265-91	Element Assy, SS, LC-8A	⑰	228-20745-91	Drain Tubing Assy, LC-8A
⑥	228-16837-91	Plunger Kit, LC-8A	⑱	022-27020	Bolt, Hex SST, i.d. 5 × o.d. 20
⑦	228-20684	Diaphragm, for LC-8 Head Holder	⑱	023-77050	Washer, SST Spring 2, M 5

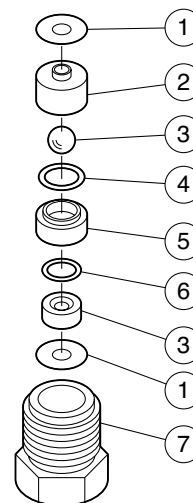


228-09054-93 Check Valve Assy (OUT)

No.	Part No.	Description
①	228-15637-01	Cartridge, Single F6
②	228-09028	Spacer A
③	228-09027-01	Housing
④	018-98002-02	Ball, Ball Seat (Set)
⑤	228-09574	Seat A
⑥	228-09029	Spacer B

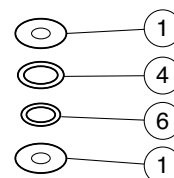


**228-11200-91 Ball and Ball Seat, with Packing (OUT)
(2 sets/pkg)**



228-20256-91 Check Valve Assy (IN)

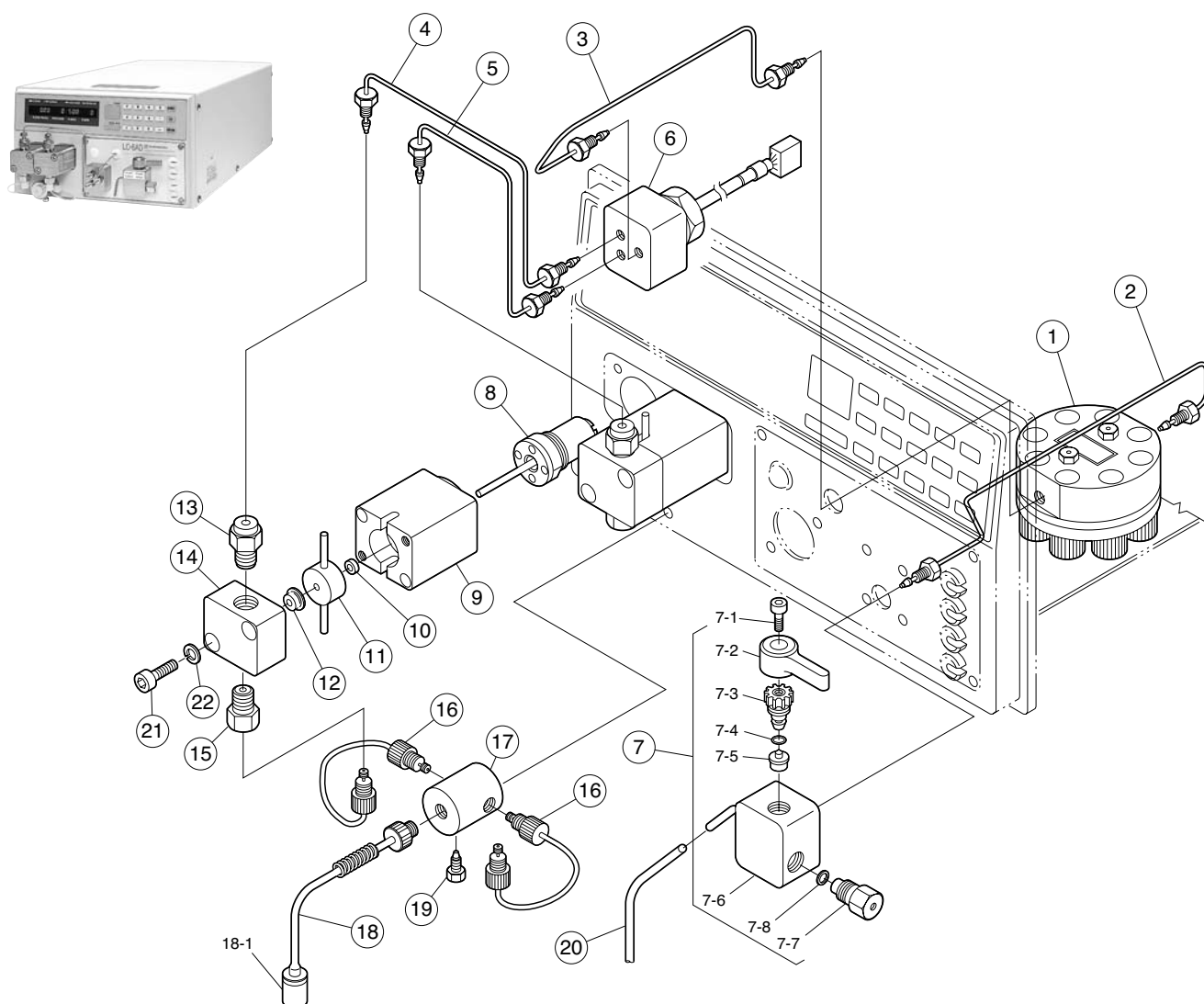
No.	Part No.	Description
①	228-17776-01	Packing A, LC-8A
②	228-17782-01	Housing, Ball
③	018-98002-01	Ball, Ball Seat, LC-8A (Set)
④	228-17776-03	Packing C, LC-8A
⑤	228-17774-01	Seat, for Mixer Housing
⑥	228-17776-04	Packing D, LC-8A
⑦	228-17530-01	Cartridge



**228-21460-91 Packing Set, for Check Valve
(2 Sets/pkg)**

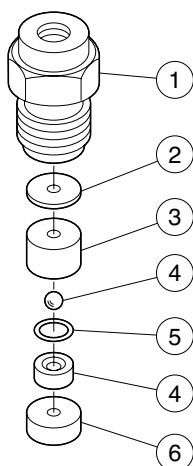
Electrical Parts

No.	Part No.	Description	No.	Part No.	Description
	228-18194-92	Transformer Assy, LC-8A		228-18119-91	P.C. Board, PC-3 Assy
	075-00062-27	Filter, Noise, FN321-10101		228-17842-92	P.C. Board, PC-2 Assy
	071-20031	Terminal, SQ-0204-02		228-17840-92	P.C. Board, PC-1, LC-8A
	072-05267-01	Fuse Holder, F150-BB		228-17840-90	P.C. Board, PC-1 w/o ROM
	072-01214-06	Fuse, FGBO 10A 125V		228-18127-92	ROM Assy
	072-01031-02	Fuse, F7161 7A 250V		228-20001	P.C. Board, ESU1655
	064-14035-03	Switch, JW-M21RKK		228-20390-91	Photosensor, LC-8A
	228-18193-91	Fan Assy, LC-8A,TA		228-31103-91	PC-31L (Option)
	228-18071-92	P.C. Board, PC-6, LC-8A			



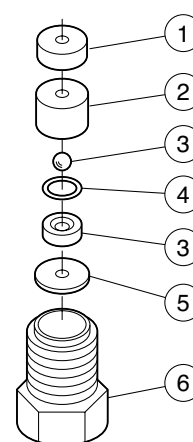
LC-6AD Solvent Delivery Unit

No.	Part No.	Description	No.	Part No.	Description
①	228-20471-91	Damper Assy, LC-6AD	⑨	228-17822	Bearing Assy, LC-7A
②	228-20670-92	Tubing Assy, P-D	⑩	228-20282	Plunger Seal, for LC-6AD
③	228-20669-92	Tubing Assy, PS-D, LC-6AD	⑪	228-20281-91	Seal Holder Assy
④	228-20273-91	Tubing Assy L (OUT), LC-6AD	⑫	228-21975-91	Seal, PE 230106406-1
⑤	228-20274-91	Tubing Assy R (OUT), SS, LC-7A	⑬	228-09054-93	Check Valve Assy (OUT)
⑥	228-20275-91	Pressure Sensor, LC-7A	⑭	228-17005-01	Pump Head
⑦	228-20277-91	Drain Valve Assy, LC-6AD	⑮	228-20283-91	Check Valve Assy (IN)
7-1	022-27042	Bolt, Hex SST, i.d. 4 × o.d. 6	⑯	228-20930-91	Tubing Assy (IN), LC-7A
7-2	228-20041	Handle	⑰	228-21586-01	Recycling Block, LC-6AD
7-3	228-21171-91	Shaft, LC-6AD, 8A	⑱	228-12491-91	Solvent Reservoir Filter Assy
7-4	036-11402	O-Ring, PTFE	18-1	228-12372	Solvent Reservoir Filter
7-5	228-21751-91	Drain Gasket, LC-7A, 6AD	⑲	228-16006	Plug 1.6P
7-6	228-20038-01	Drain Valve Body	⑳	016-37503	Tubing, PTFE, i.d. 2 × o.d. 3
7-7	228-12642-93	Line Filter F6 Assy	㉑	022-27087	Bolt, Hex SST, i.d. 5 × o.d. 16
7-8	228-12564	Packing	㉒	023-77050	Washer, SST Spring 2, M 5
⑧	228-20284-91	Plunger Assy, LC-7A		228-09408-92	Lubrication Oil, 5 mL



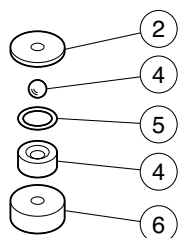
228-09054-93 Check Valve Assy (OUT)

No.	Part No.	Description
①	228-15637-01	Cartridge, Single F6
②	228-09028	Spacer A
③	228-09027-01	Housing
④	018-98002-02	Ball, Ball Seat (Set)
⑤	228-09574	Seat A
⑥	228-09029	Spacer B

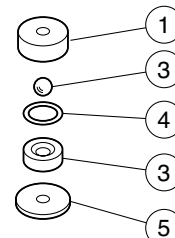


228-20283-91 Check Valve Assy (IN)

No.	Part No.	Description
①	228-09029	Spacer B
②	228-09027-01	Housing
③	018-98002-02	Ball, Ball Seat (Set)
④	228-09574	Seat A
⑤	228-09028	Spacer A
⑥	228-20839-01	Cartridge, Single (IN)



**228-11200-91 Ball and Ball Seat, with Packing (OUT)
(2 sets/pkg)**



**228-21301-91 Ball and Ball Seat, with Packing (IN)
(1 set/pkg)**

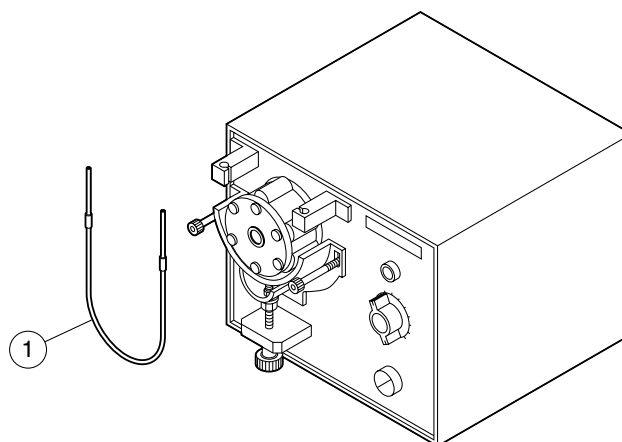
Electrical Parts

No.	Part No.	Description	No.	Part No.	Description
	075-00056	Filter, Noise, FN322-3101		228-17842-91	P.C. Board, PC-2, LC-7A
	072-05249	Fuse Holder, F130		228-17840-91	P.C. Board, PC-1, LC-6AD/7A
	072-01214-05	Fuse, FGBO 5A 125V		228-17840-90	P.C. Board, PC-1 w/o ROM
	072-01660-19	Fuse, 2.5A 250V		228-18127-91	ROM Assy, PC-1 LC-7
	071-20031	Terminal, SQ-0204B-02		228-20391-01	Motor PH599H-A-A17, LC-6AD, 7A
	228-18193-92	Fan Assy		228-20001	P.C. Board, ESU1655, LC-6D, 7, 8, 9
	071-60814-01	Power Supply Cable; AC Code, AC 100V/120V		228-20390-92	Photosensor
	071-60814-06	Power Supply Cable; AC Code, AC 220V/240V		046-00038-01	Syringe, L-208, 20 mL
	228-18194-91	Transformer Assy, LC-7, 6AD		228-18216-91	Needle Assy, for Syringe
	064-14086-01	Switch, Paddle, M-2022N-2-W, GC		228-25142	Seal Remover 10A
	228-18119-91	P.C. Board, PC-3 Assy		228-31103-91	PC-31L (Option)
	228-18071-92	P.C. Board, PC-6, LC-8A			

PRR-2A Rinse Pump

Solvent Delivery Unit

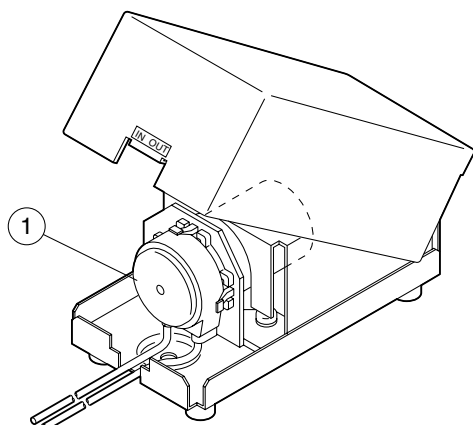
VP series HPLC



228-07849 PRR-2A

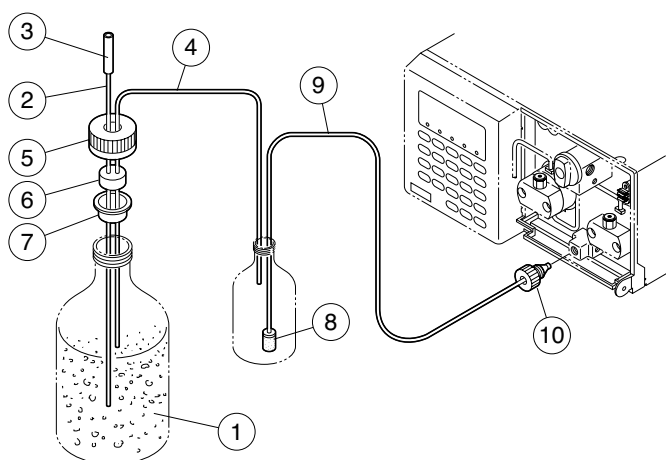
No.	Part No.	Description	No.	Part No.	Description
①	228-14057	Tubing, Tygon, 3/32 (Option)	※	228-11866-91	Tubing Connection, Tygon SS
	228-14058	Tubing, Tygon, with Stopper	※	228-11867	Front Ferrule, PTFE, Special
	228-14059	Tubing, Tygon, 3/32 OD	※	228-11868	Back Ferrule, PTFE, Special
	228-14060	Tubing, Tygon	※	228-11869	BACK UP TUBING

※ Option



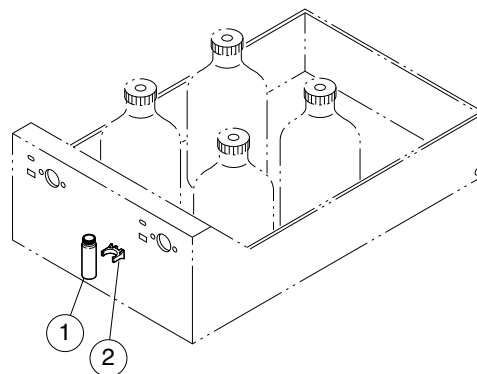
228-39625-91 Rinse Pump for LC-10AT_{VP}

No.	Part No.	Description
①	042-00407-21	Cartridge Head R10/30-N1.5S, L=300
	228-34894-01	Cable for Rinse Pump (50 cm length)
	228-34894-02	Cable for Rinse Pump (100 cm length)
	016-37502	Tubing, PTFE, i.d. 2 × o.d. 1
	016-31401	Tubing, Vinyl, i.d. 1.58 × 0.8T



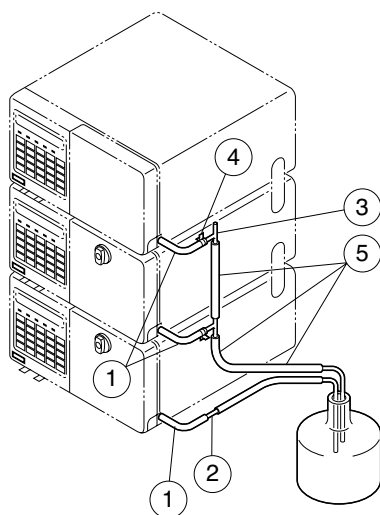
228-17909-91 Carbon Dioxide Trap (Option)

No.	Part No.	Description
①	670-10481-01	Ascarite, 500g
②	011-30410-01	Tubing, SS, i.d. 2.0 × o.d. 3.0 × 2 m
③	016-31350-09	Tubing, Silicone, i.d. 2 × o.d. 4
④	016-37503	Tubing, PTFE, i.d. 2 × o.d. 3
⑤	228-17966	Cap w/ Hole, PP
⑥	228-17968	Stopper w/ Hole, Silicone
⑦	228-17967	Inner Cap w/ Hole, PP
⑧	228-21984-01	Solvent Reservoir Filter, SS (Option)
⑨	228-35464	FEP Tubing 3 mm × 1.5 mm × 2 m (Option)
⑩	228-18555	Bushing, 3D (Option)



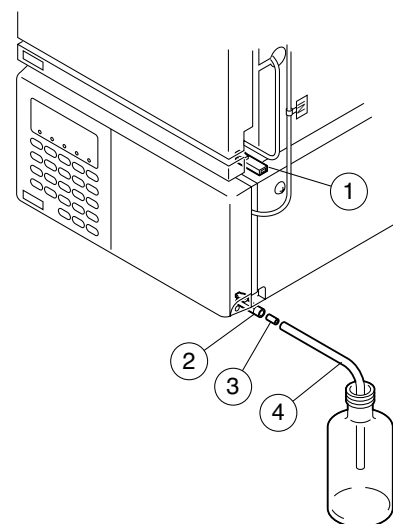
228-34736-91 Reservoir Tray

No.	Part No.	Description
①	228-21281-01	Vial, 4 mL
	228-21288-91	Vial, 4 mL, ...100/pkt
②	228-23875	Bottle Holder



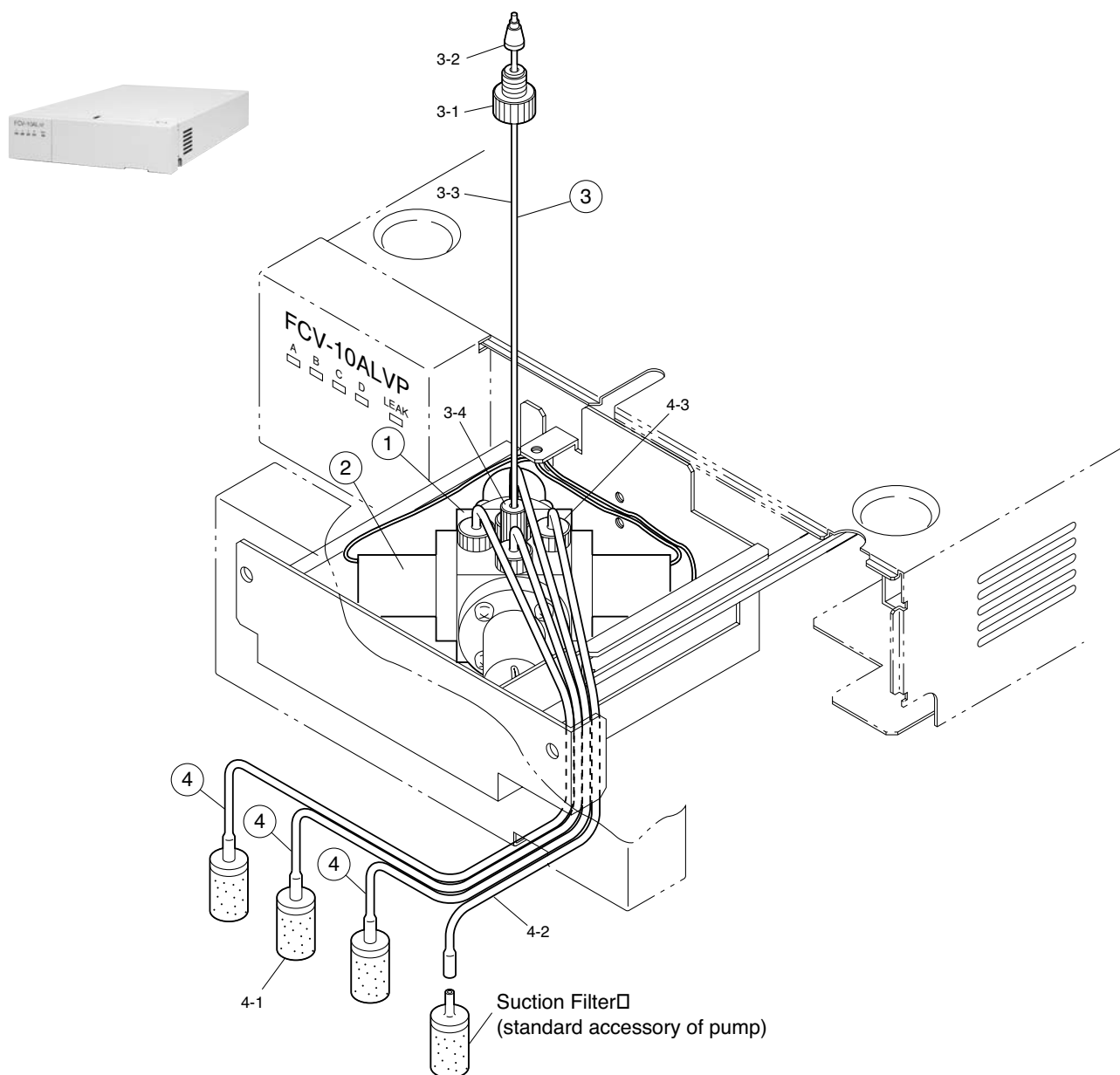
228-28161-91 Drain Tubing Kit (for LC-10A)

No.	Part No.	Description
①	228-28094	L-Type Drain Tubing
②	228-28163	Connection, Straight
③	228-28162	Connection, T-Type
④	037-60177-05	Tubing Clip
⑤	016-31350-19	Tubing, Silicone, i.d. 10 × o.d. 7



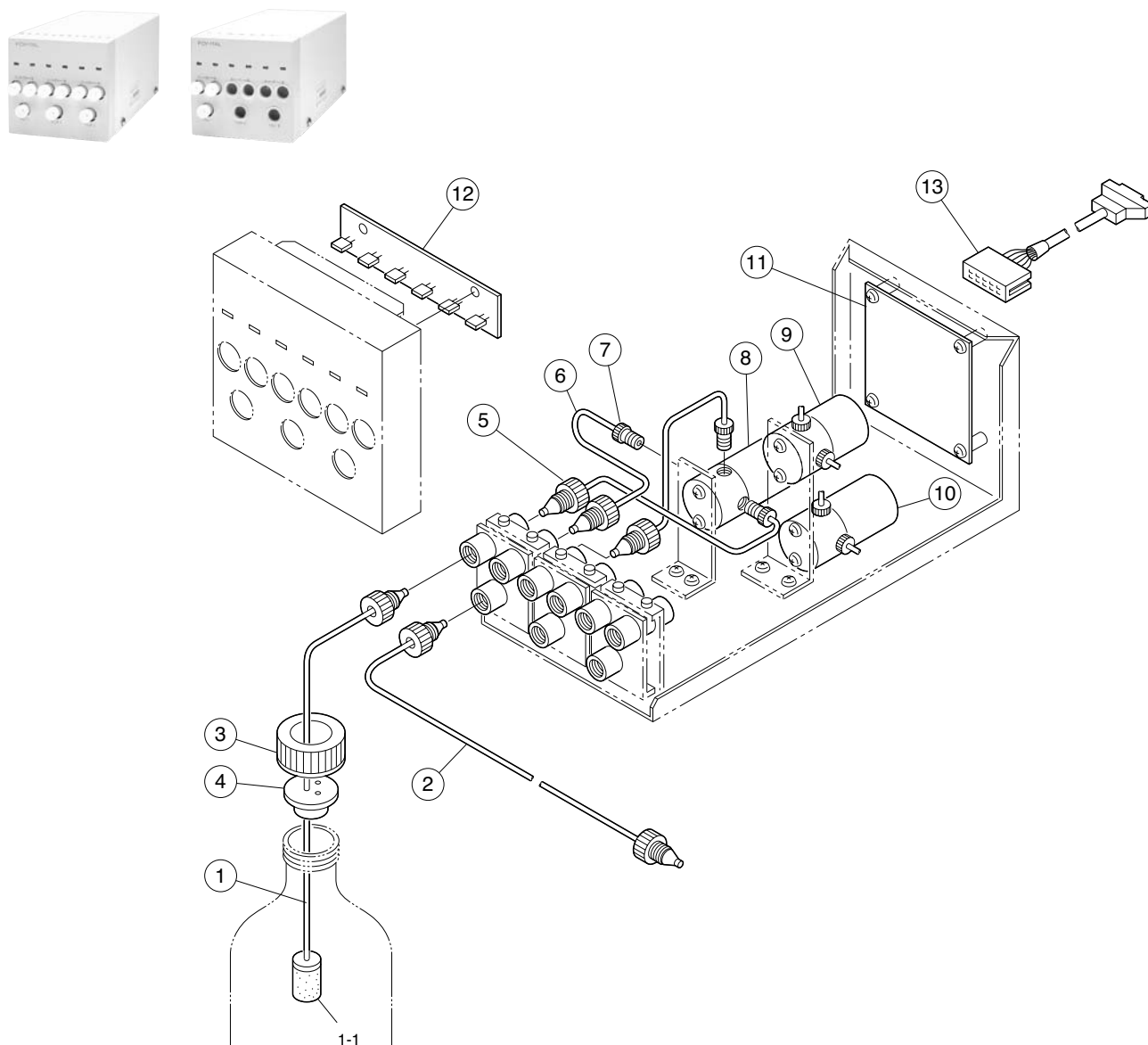
Leak Drain Tubing

No.	Part No.	Description
①	228-39599	Adapter Drain
②	228-39459	SI Tubing OUT
③	228-28163	Connection, Straight
④	016-31350-19	Tubing, Silicone, i.d. 10 × o.d. 7



FCV-10ALVP Low Pressure Gradient Unit

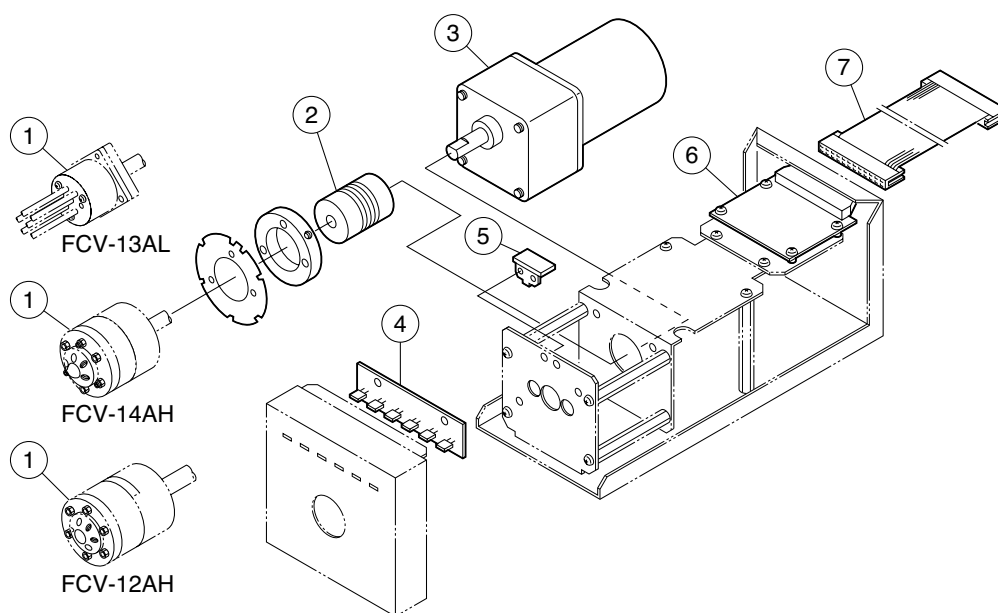
No.	Part No.	Description	No.	Part No.	Description
①	228-39476-91	Valve Assy	4-2	228-34704-95	Solvent Reservoir Filter Tubing
②	228-35443-91	Valve, FCV-10ALVP (Option)	4-3	040-51097-16	Seal Joint, SM6-1525
③	228-34703-91	Tubing Assy		040-51097-41	Joint, SM6-2030, Male
3-1	228-39084	Bushing 3, PEEK		228-34503-91	LED Board, FCV-10ALVP
3-2	228-39677	Ferrule, 2.0		228-34501-91	PB1, FCV-10ALVP
3-3	670-10321-01	Tubing, PTFE, i.d. 0.93 x o.d 2		228-34715-91	Fan, FCV Assy
3-4	228-39747	SM6-1020L		228-25372-91	Cable, Connection, FCV-10ALVP
④	228-34704-94	Solvent Reservoir Filter Assy		228-39247-92	Leak Sensor
4-1	228-21984-01	Solvent Reservoir Filter, SS		037-38193-01	Slide Rail



FCV-11AL/S

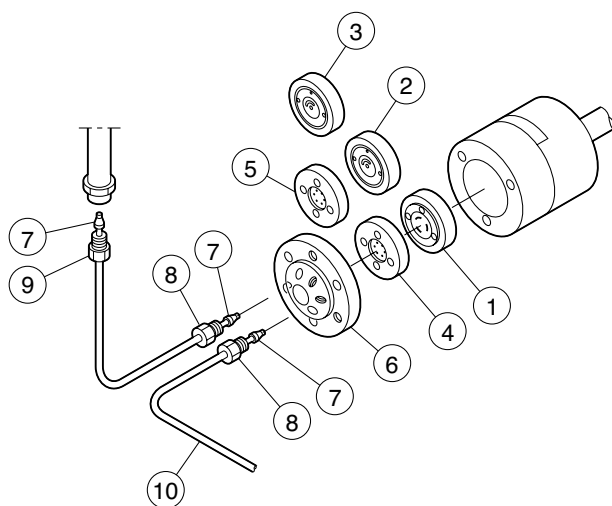
※ There is one solenoid valve in FCV-11ALS.

No.	Part No.	Description	No.	Part No.	Description
①	228-25376-94	Tubing, PYFE, Marked, 1-A	④	228-18887	Bottle Cap, PTFE
	228-25376-95	Tubing, PYFE, Marked, 1-B	⑤	228-18555	Bushing, 3D
	228-25376-96	Tubing, PYFE, Marked, 2-A	⑥	670-10321-03	Tubing, FEP, 3 mm × 2 mm × 2 m
	228-25376-97	Tubing, PYFE, Marked, 2-B	⑦	040-51097-53	Fitting, SM6-2030 PVDF
	228-25376-98	Tubing, PYFE, Marked, 3-A	⑧	228-24810-91	PTFE Valve Assy, FCV-11AL
	228-25376-99	Tubing, PYFE, Marked, 3-B	⑨	228-24810-92	Valve Assy
1-1	228-21984-01	Solvent Reservoir Filter, SS	⑩	228-24810-93	Valve Assy
②	228-25376-91	Tubing, PYFE, Marked, 1	⑪	228-24815-91	P.C. Board, PB-1, FCV-11AL (S)
	228-25376-92	Tubing, PYFE, Marked, 2	⑫	228-24817-91	P.C. Board, PB-2, FCV-11AL (S)
	228-25376-93	Tubing, PYFE, Marked, 3	⑬	228-25372-91	Cable, Connection, FCV-10ALVP
③	228-17644	Cap			



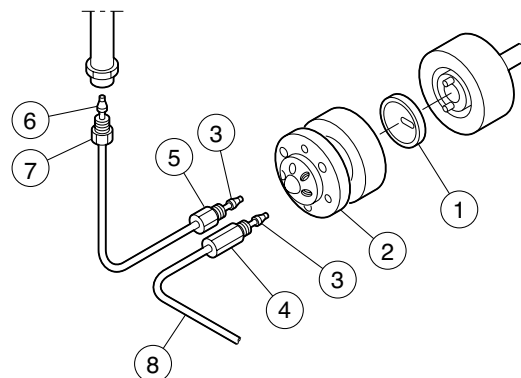
FCV-12AH, 14AH, 13AL Mechanical Drive Parts

No.	Part No.			Description
	FCV-12AH	FCV-14AH	FCV-13AL	
①	228-21055-94	670-12139-01	670-12106	6-Way Valve Assy, FCV
②	228-24902-02	228-24902-01	228-24902-01	Coupling
③	228-24868	228-24868	228-24868	Motor, XSG7-14G191 1/7.2G
④	228-24924-91	228-24924-92	228-24924-92	LED Assy, FCV-AH
⑤	228-24918-91	228-24918-91	228-24918-91	Photocoupler, FCV-12, 14AH
⑥	228-24921-91	228-24921-92	228-24921-93	P.C. Board, PB-1
⑦	228-25378-03	228-25378-04	228-25378-04	Cable, Option, 0.5 m
		228-25378-06		Cable, Option, 1 m
	228-25378-91			Cable, Option, 1.5 m
		228-15617-91		Column Clamp Assy B5
		228-15617-92		Column Clamp Assy B8



FCV-12AH 6-port Valve

No.	Part No.	Description
①	228-21217-94	6-Way Valve Rotor Assy, FCV-12AH
②	228-21217-95	3-Port Valve Rotor Assy (Option)
③	228-21217-96	3-Port Valve Rotor Assy (Option)
④	228-21220-91	6-Way Valve Rotor Assy, SIL-9A
⑤	228-21220-92	3-Port Valve Stator Assy (Option)
⑥	228-21216	Housing C, Mixer
⑦	228-16000-84	Ferrule, 1.6F ...3/pkt
⑧	228-16001-01	Male Nut, 1.6mm-L
⑨	228-16001	Male Nut 1.6mm
⑩	228-36993-91	SS316tp i.d. 0.3 × o.d. 1.6 × 2 m

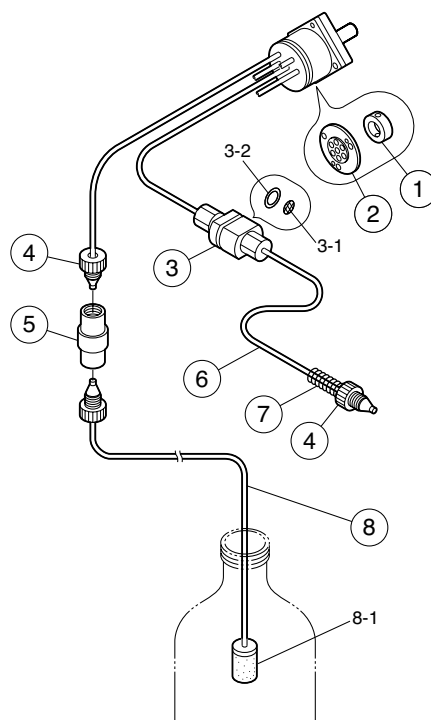


FCV-14AH 6-port Valve

No.	Part No.	Description
①	670-12139-03	Rotor Seal, 7060-070
②	670-12139-04	Stator
③	670-11412-04	Ferrule for Injection Valve,...1/pkt
④	670-11412-03	Bushing, Super Long, 7010-062
⑤	670-11412-02	Bushing for Injection Valve,...1/pkt
⑥	228-16000-84	Ferrule, 1.6F ...3/pkt
⑦	228-16001	Male Nut 1.6mm
⑧	228-36993-91	SUS Tubing o.d. 1.6 × i.d. 0.3 × 2 m

FCV-13AL 6-port Valve

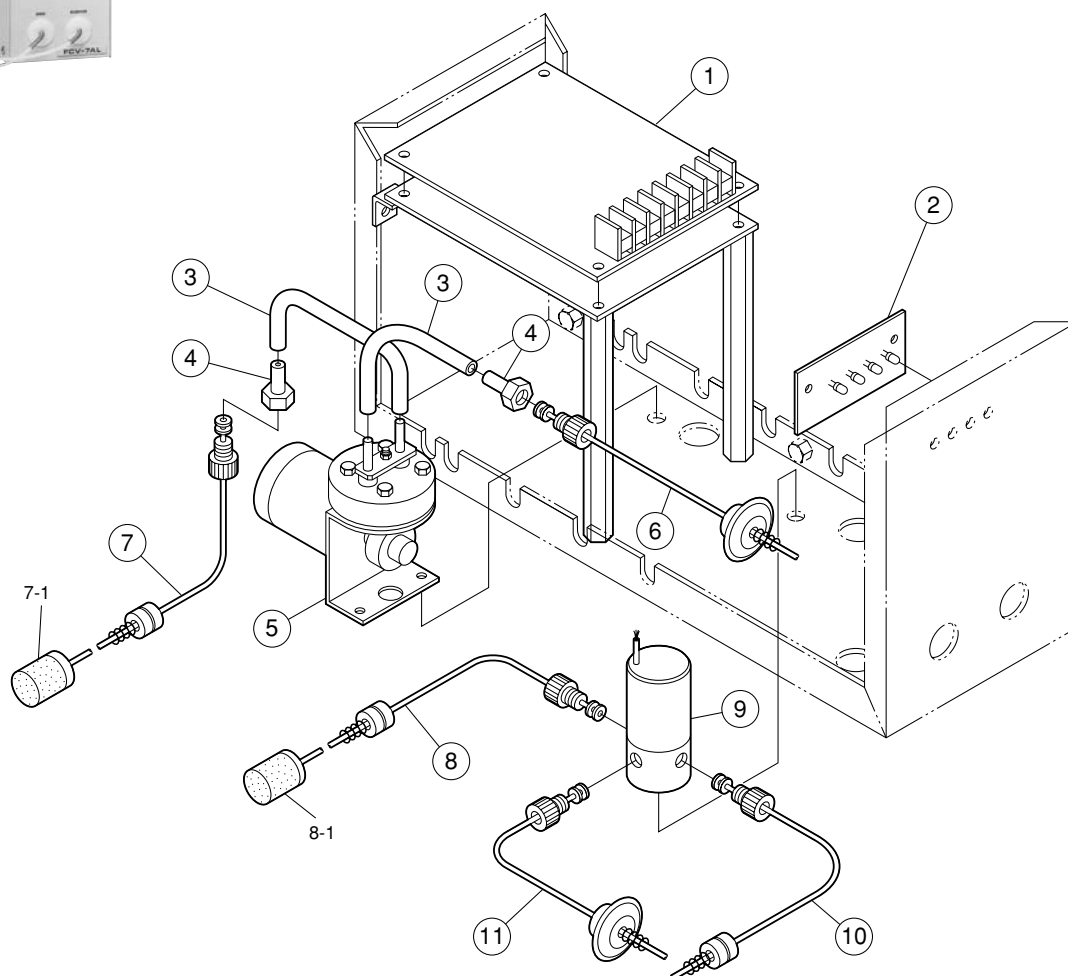
No.	Part No.	Description
①	670-12106-01	Rotor, Valve, 5012
②	670-12106-02	Stator, Valve, 5012
③	228-11400-94	Line Filter Assy
3-1	228-11066-01	Mesh, SS, #250 RD8
3-2	228-15416	Filter Element
	228-15416-84	Filter Element, ...5/pkt (Option)
④	228-18555	Bushing, 3D
⑤	228-18684	Connector
⑥	670-10321-03	Tubing, FEP, 3 mm × 2 mm × 2 m
⑦	228-12654	Coil Spring
⑧	228-18740-91	Solvent Reservoir Filter
	228-18907-91	Solvent Reservoir Filter Set, ...3/pkt (Option)
8-1	228-21984-01	Solvent Reservoir Filter, SS



FCV-7AL

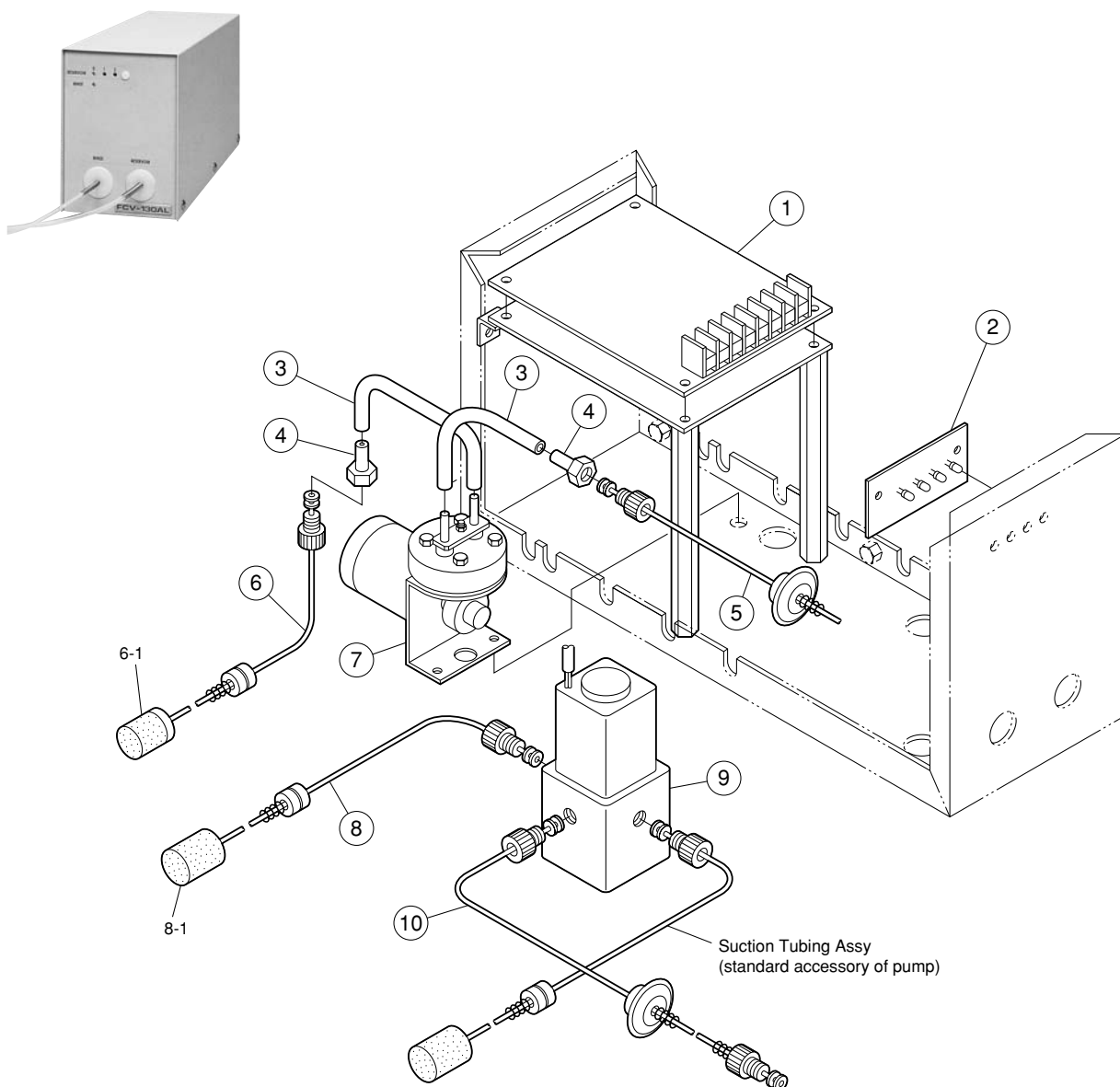
Reservoir Selection Valve

VP series HPLC



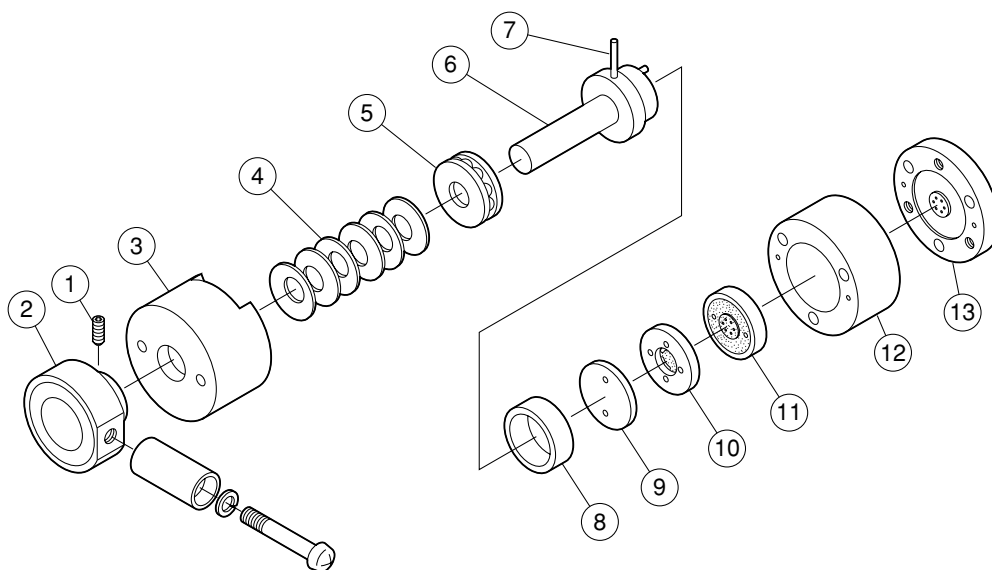
FCV-7AL

No.	Part No.	Description	No.	Part No.	Description
①	228-18076-91	P.C. Board, PB-1, FCV-130	7-1	228-12372	Solvent Reservoir Filter
②	228-20428-91	LED Assy, FCV-130	⑧	228-12491-95	Solvent Reservoir Filter Assy, FCV-7
③	016-37505	Tubing, PTFE, i.d. 5 × o.d. 4	8-1	228-20946-91	Solvent Reservoir Filter Assy
④	228-20418	Joint	⑨	228-21093-91	Solenoid Valve Assy
⑤	228-21095-91	Rinse Pump Assy	⑩	228-20410-97	Tubing for Solvent Reservoir Filter
	042-00401-03	Pump, DPC-10	⑪	228-20412-98	Tubing Assy, FCV-7AL
⑥	228-20412-98	Tubing Assy, FCV-7AL		228-20844-91	Cable
⑦	228-20410-91	Solvent Reservoir Filter Assy, FCV-7AL			



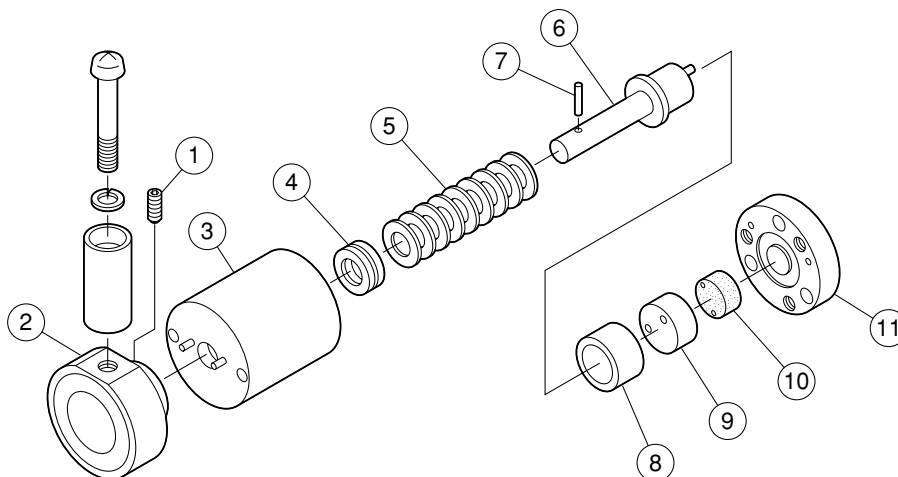
FCV-130AL

No.	Part No.	Description	No.	Part No.	Description
①	228-18076-91	P.C. Board, PB-1, FCV-130	⑦	228-21095-91	Rinse Pump Assy
②	228-20428-91	LED Assy, FCV-130		042-00401-03	Pump, DPC-10
③	016-37505	Tubing, PTFE, i.d. 5 × o.d. 4	⑧	228-20410-94	Solvent Reservoir Filter Assy, FCV-130L
④	228-20418	Joint	8-1	228-20031	Element for Solvent Reservoir Filter
⑤	228-20412-98	Tubing Assy, FCV-7AL	⑨	228-21094-91	Solenoid Valve Assy
⑥	228-20410-91	Solvent Reservoir Filter Assy, FCV-7AL		228-20412-97	Tubing Assy, FCV-130
6-1	228-12372	Solvent Reservoir Filter		228-20844-91	Cable



228-13000-95 Manual Column Switching Valve

No.	Part No.	Description	No.	Part No.	Description
①	021-04635	Retaining Screw, WP, M 4 × 8 BK	⑧	228-13005	Bearing 25 × 19 × 7.5 T, for 6-Way Valve
②	228-18008-01	Knob, Handle	⑨	228-13007	Rotor Housing
③	228-15145-91	Housing A	⑩	228-15143-95	Rotor Assy
④	034-00007	Disc Spring, SUS H-7	⑪	228-15142-93	Stator Assy
⑤	030-60000	Bearing, 51100	⑫	228-15146-91	Housing B
⑥	228-15144-92	Shaft Assy	⑬	228-15147-92	Housing C Assy
⑦	026-02236	Spring Pin, SUS 2 × 12			



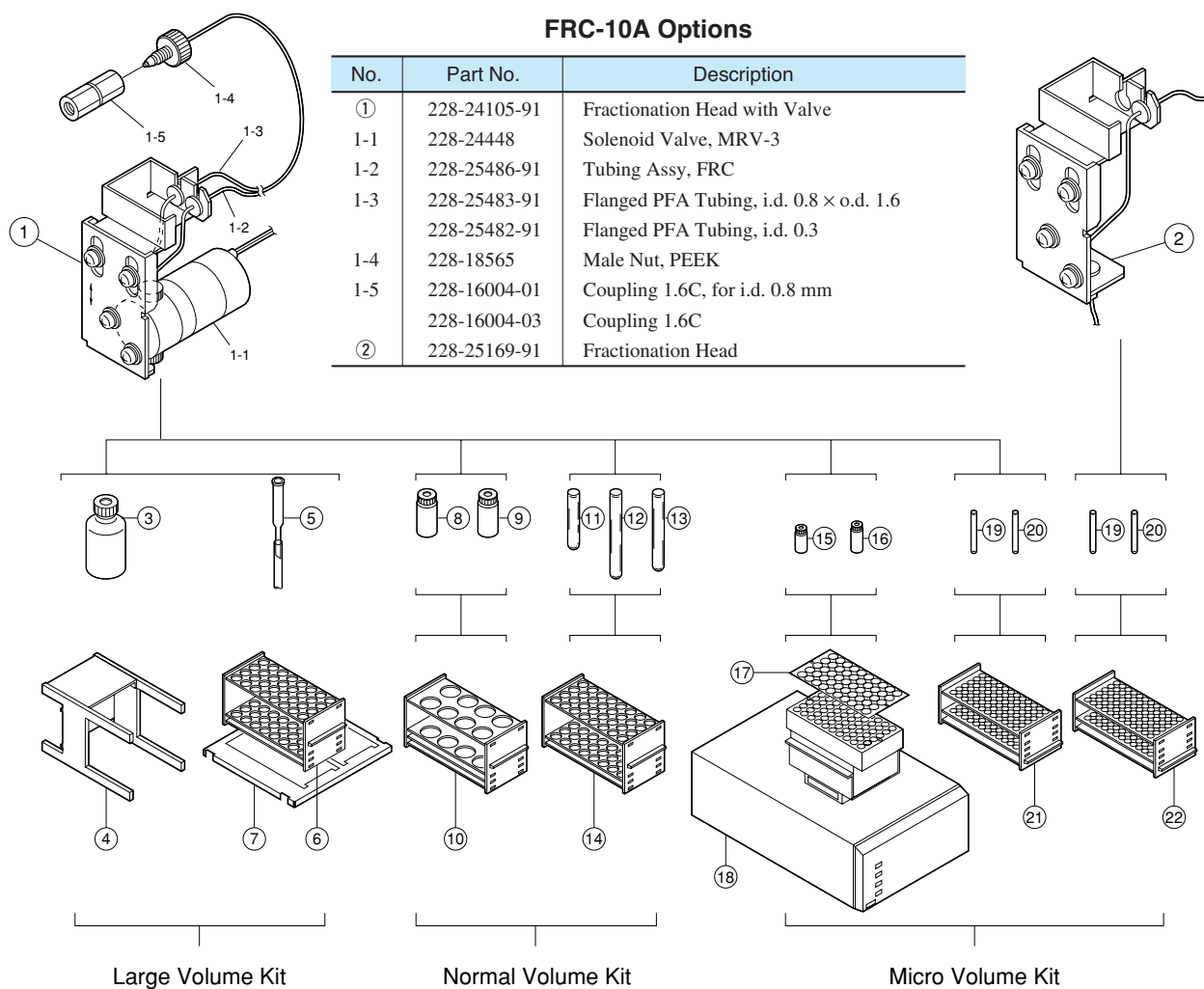
228-20401-92 Manual Recycling Valve

No.	Part No.	Description	No.	Part No.	Description
①	021-04635	Retaining Screw, WP, M 4 × 8 BK	⑦	026-02235	Spring Pin, SUS 2 × 10
②	228-18008-02	Knob, Handle	⑧	031-40217	Bearing
③	228-20403-91	Recycling Valve Housing Assy	⑨	228-17446	Rotor Housing
④	670-11107	Bearing SST7-15 (Option)	⑩	228-17445	Rotor, for 3-Way Recycling Valve
⑤	034-00004	Disc Spring, SUS H-4	⑪	228-17902	Stator, 0.8 mm diameter
⑥	228-20404-91	Recycling Valve Shaft			

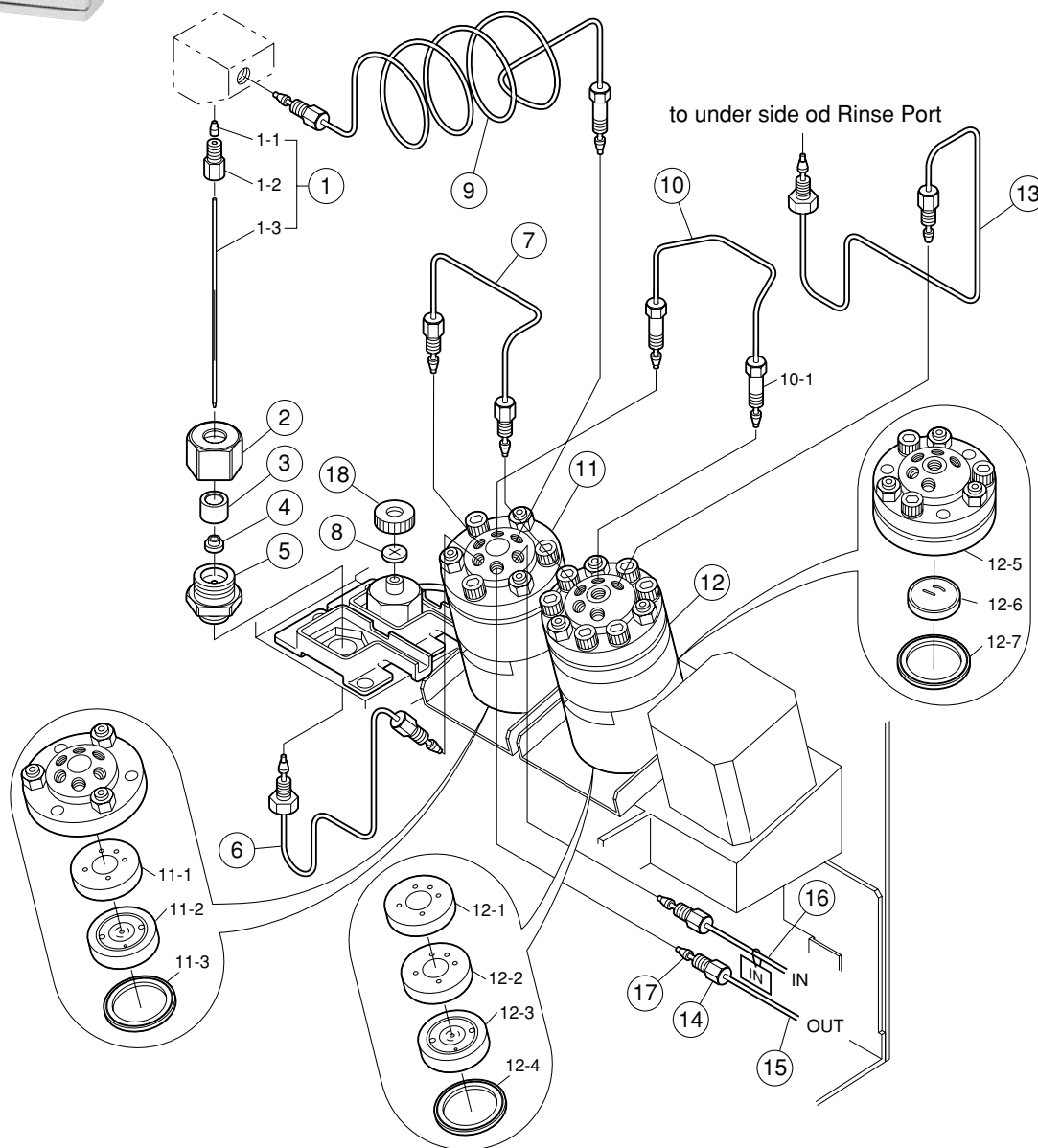


Part No.	Description	Part No.	Description
228-25167	Hook B, FRC-10A	228-23600-91	P.C. Board, PB-1 FRC-10A
228-24447-01	Timing Belt, X-AXIS Motor	228-33670-91	ROM Set, FRC-10A (Option)
228-24447-02	Timing Belt, Y-AXIS Motor	228-24993-92	Cable, AC/VDE
228-23798	Hook	228-25044-91	Sensor Cable, NEX
228-24118	Tray, FRC-10A	228-23579-91	Relay Assy
228-18495-05	Tubing, ETFE, i.d. 0.2 × o.d. 1.6	228-25089-91	Signal Cable, FRC-10A
070-92025-51	Fiber Optic Cable, HFBR3600-1-021	228-25162-01	Drain Tubing
228-25046-91	LED Assy	228-25162-02	Drain Tubing

FRC-10A Options



No.	Part No.	Description	No.	Part No.	Description
③	228-25323-91	Vial, 500 mL, ...5/pkt	⑬	228-25320-91	Test Tube, PP, 25 mL, ...100/pkt
④	228-24025-91	Rack	⑭	228-25311-91	Rack no.2A, ...2/pkt
⑤	228-25179-91	Collecting Funnel, ...5/pkt	⑮	228-21287-91	Vial, 4 mL, w/ Cap & Septum, ...100/pkt
⑥	228-25312-91	Rack no.2B, ...2/pkt	⑯	228-25322-91	Vial, PP, 5 mL, ...100/pkt
⑦	228-24443	Rack Table	⑰	228-28173	Cooling Block Panel
	228-25324-91	Large Scale Kit, FRC-10A	⑱	228-35730-93	Sample Cooler, L
⑧	228-25318-91	Vial, Glass, 50 mL, ...20/pkt	⑲	228-25315-91	Test Tube, Glass, 4.5 mL, ...250/pkt
⑨	228-25321-91	Vial, PP, 50 mL, ...20/pkt	⑳	228-25319-91	Test Tube, PP, 5 mL, ...250/pkt
⑩	228-25313-91	Rack no.3, ...2/pkt	㉑	228-25310-91	Rack no.1, ...2/pkt
⑪	228-25316-91	Test Tube, Glass, 20 mL, ...100/pkt	㉒	228-25314-91	Rack no.5, ...2/pkt
	228-25317-91	Test Tube, Glass, 32 mL, ...100/pkt			



⑫ Repair Parts for 6-position Valve

Use parts 12-1 to 12-4 to repair the 6-position valve for SIL-10AD_{VP} Autosamplers manufactured during or after May 2003 (serial numbers C2105109409 or later) and use parts 12-5 to 12-7 to repair the 6-position valve (228-39425-92) for SIL-10AD_{VP} Autosamplers manufactured during or before April 2003. Use the 6-position-valve PEEK replacement kit (228-45348-91) to replace the 6-position valve (228-39425-92). After replacement, use parts 12-1 to 12-4 to repair the valve.

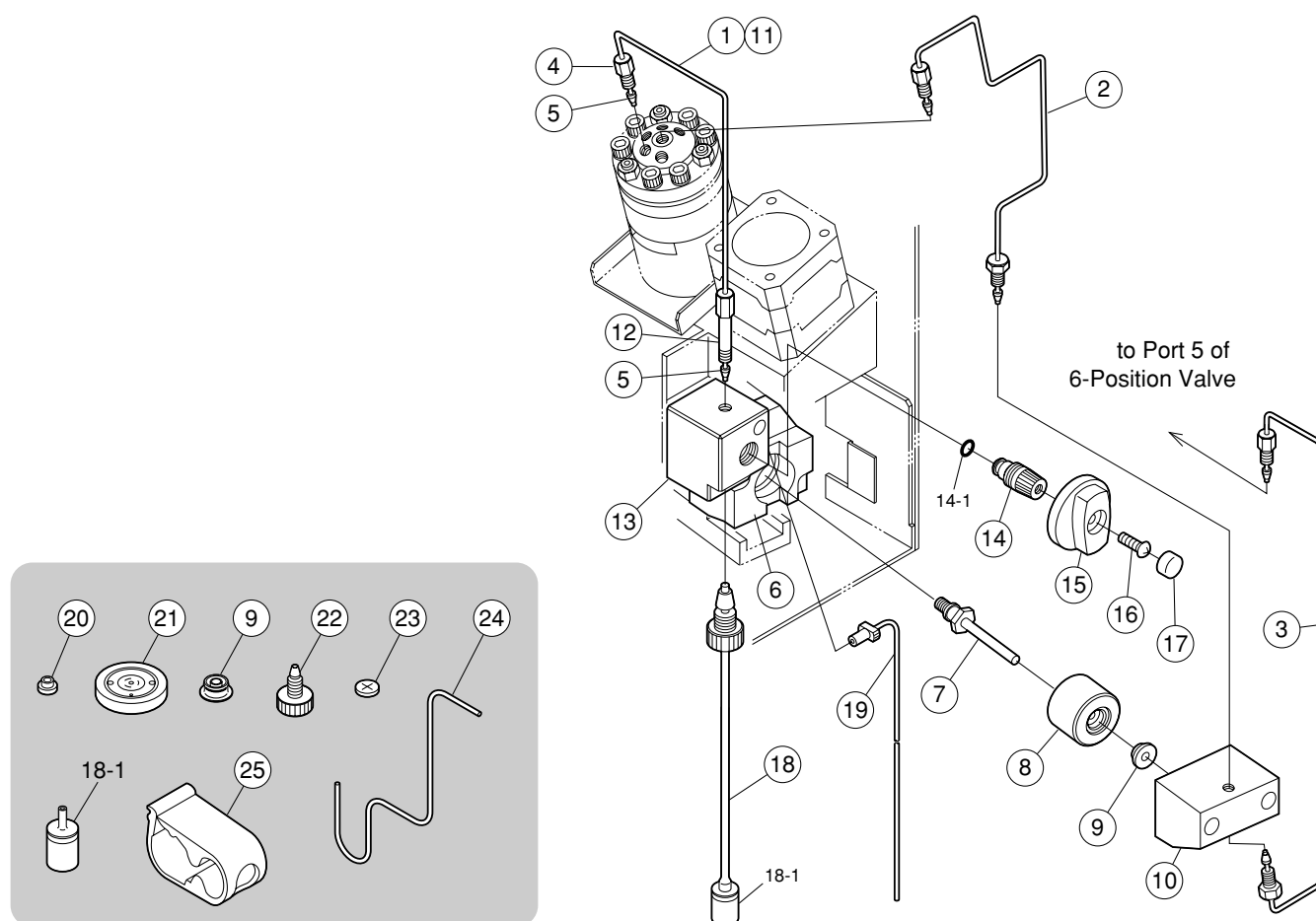
SIL-10AD_{VP}

No.	Part No.	Description	No.	Part No.	Description
①	228-33518-94	Needle Assembly	11-3	228-39826	Seal, Valve, SIL-10ADVP
1-1	228-28430	Ferrule, 1.2F	※	228-21708-92	Packing Set, Delrin
1-2	228-16001-03	Male Nut 1.6mm, W6	⑫	228-45348-91	6PV PEEK Replacement kit
1-3		Needle (included in 228-33518-94)	12-1	228-41477-01	Stator, 6 PV PEEK
	228-20242	Bushing, Needle Guide	12-2	228-41476	Rotor, 6 PV PEEK
②	228-39778	Cap	12-3	228-41478	Flat Packing, 6 PV
③	228-34414	Sleeve	12-4	228-40640	Seal Valve
④	228-33355-04	Needle Seal, Vespel	12-5	228-39755-91	Stator, 6 PV Assy
	228-33355-01	Needle Seal, PEEK	12-6	228-36457	Rotor, 6 PV (after May. 99 production)
⑤	228-39371-91	Housing, Injection Port			Rotor, 6PV (previous type)
⑥	228-39756-92	Injection Port Tubing SUS Assy, 0.13 mm	12-7	228-39826	Seal, Valve, SIL-10ADVP
	228-39756-93	Injection Port Tubing SUS Assy, 0.3 m	⑬	228-35797-91	Tubing Assy, Rinse P
⑦	228-39780-92	6V-6VP Tubing, No. 6-3	⑭	228-16001-03	Male Nut 1.6mm, W6
⑧	228-36215-91	Septum, Cutout, SIL-10ADVP	⑮	228-39830-91	Tubing Out, 0.13 × 600 Assy
⑨	228-39436-91	50μL Sample Loop		228-22306-00	Tubing, SS, 1.6 mm × 3.0 mm × 600 mm
	228-39751-91	Sample Loop, 500μL (option)	⑯	228-35798	Tubing, Solvent Delivery
⑩	228-39780-91	6V-6VP Tubing, No. 5-2	⑰	228-16000-84	Ferrule, 1.6F ...3/pkt
10-1	228-16001-04	Male Nut 1.6mm-L, W6	⑱	228-39792	Cap, Rinse Port, SIL-10ADVP
⑪	228-39425-91	6V with Pulley Assy		046-00038-01	Syringe, L-208, 20 mL
11-1	228-21220-94	Stator, 6V-D Assy		228-18216-91	Needle Assy, for Syringe
11-2	228-21217-97	Rotor, 6V-D Assy			

※ Optional kit marked with ※ is required for use with pH above 10, including Delrin rotor and stator packing.

SIL-10AD_{VP} Electrical Parts

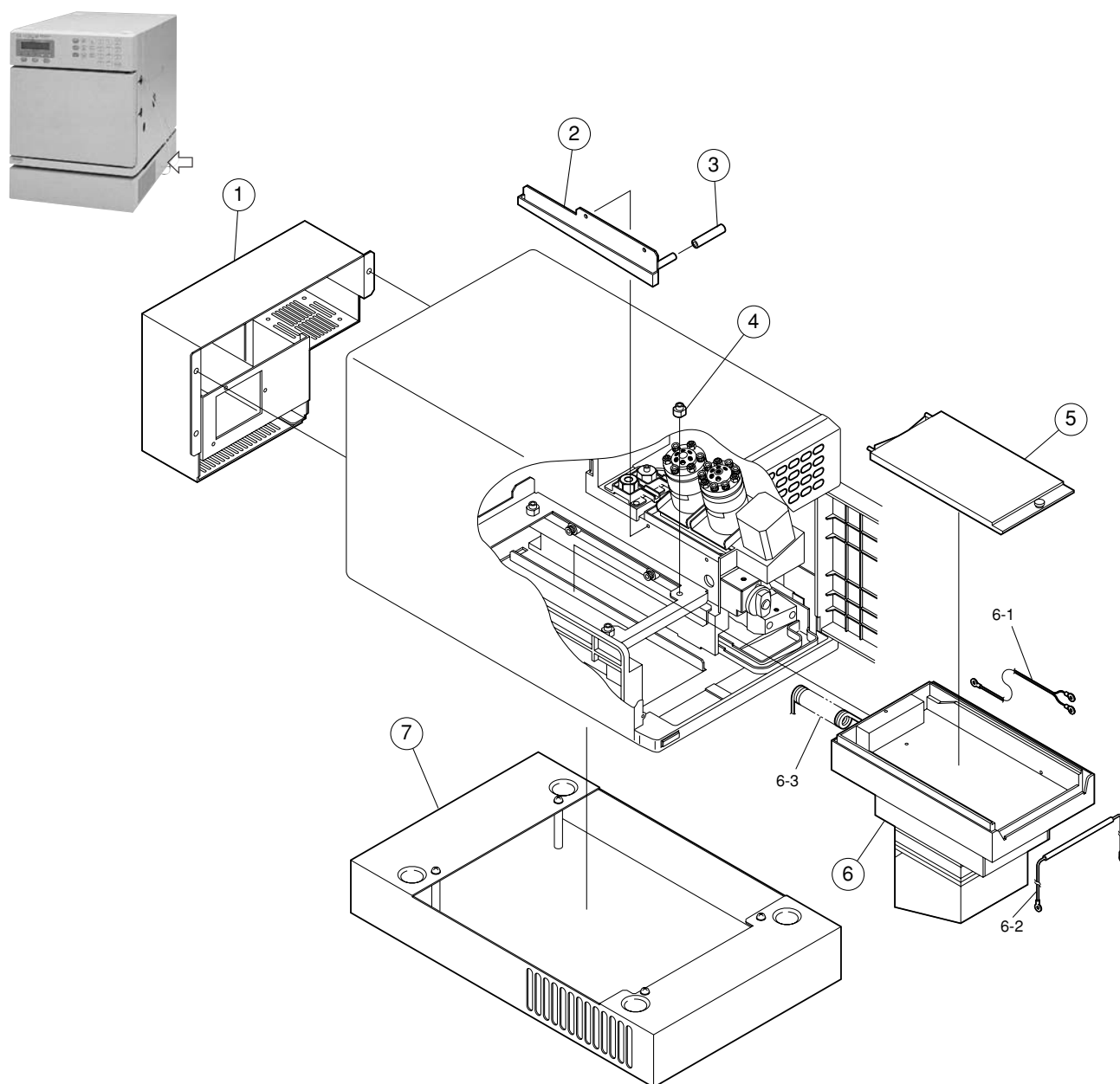
No.	Part No.	Description	No.	Part No.	Description
	228-35605-91	PCB, CPU Assy, VP Modules		228-40112-91	Z Cable for Repair
	228-35606-91	Monitor VP ROM Assy		228-39068-92	Harness Front Assy
	228-36320-91	PCB, SIL-10ADVP Main Assy		228-25246-93	Fan SPD60, for LC-10A
	228-39063-91	PCB, Keyboard Assy		228-35445-91	AC Selector Assy
	061-71550-01	Photointerrupter GP1A34LC		228-35285-91	SIL Switch Assy
	228-39737-91	X Sensor Assy		228-39050-92	Transformer SIL-VP Assy
	228-39737-92	Y Sensor Assy		228-35405-91	Cooler AC (IN)
	228-39737-93	Z Sensor Assy		228-39775-91	Stator, 6PV Assy
	228-39737-94	Z Vial Sensor Assy		228-35406-91	Cable, SIL, Main Cooler Assy
	228-39737-95	6V Sensor Assy		228-39242-95	Harness Assy, NEX
	228-39737-96	6PV Sensor Assy		228-39771	Pump Fan Assy, SIL-10ADVP
	228-39737-97	Pump, LN Sensor Assy		228-39097-01	Keytop, SIL-10ADVP
	228-39737-98	Pump, DK Sensor Assy		061-71540-02	Photointerrupter GP2A22
	228-35282-91	Door Sensor		074-73307-01	Lithium Battery, CR2032
	228-34730-91	PCB, Encoder X Assy		228-39249	Option Box, L
	228-34730-92	PCB, Encoder Y Assy		228-35048-91	Event Cable EMC
	228-39757-91	Slit Encoder Assy		228-35307-91	Terminal for Event Cable
	072-02004-22	Fuse, 218,004 4A 250V		228-39306	Cable Terminal, 100/120V
	072-02004-19	Fuse, 218,002 2A 250V		228-35047-91	Signal Cable EMC
	228-39247-92	Leak Sensor			

SIL-10AD_{VP}

No.	Part No.	Description	No.	Part No.	Description
①	670-10321-03	Tubing, FEP, 3 mm × 2 mm × 2 m	⑬	228-35507	Connection, Rinse Port
②	228-35795-91	Tubing Assy, Pump (OUT)	⑭	228-28317-94	Shaft Assy, LC-10AD
③	228-35794-91	Tubing Assy, Pump (IN)	14-1	670-11518	O-Ring, Perfluoro, P5
④	228-16001-03	Male Nut 1.6mn, W6	⑮	228-24189	Knob
⑤	228-16000-84	Ferrule, 1.6F ...3/pkt	⑯	020-37054	Screw, i.d. 4 × o.d. 8
⑥	228-39034-01	Belt Holder #12	⑰	228-24188	Cap
⑦	228-35010-91	Plunger Assy	⑱	228-39181-93	Solvent Reservoir Filter
⑧	228-39125-93	Ring Holder, SIL-10ADVP (after Jun. 98 production)	18-1	228-21984-01	Solvent Reservoir Filter, SS
⑨	228-35145	Seal 42429	⑲	228-28169-91	Rinse Tubing Assy
⑩	228-39135-91	Pump Head, SIL		228-39412-92	Z-Mount Body Assy
⑪	228-22502-55	Tubing, Precut SS, i.d. 0.5 × o.d. 1.6 L-255		228-25174-84	Micro-Wire Saddle MWSSEB
⑫	228-16001-05	Male Nut 1.6mn-LL, W6		228-35470-91	Tubing Kit (Option)

228-39835-91 Maintenance Kit SIL-10AD_{VP}

No.	Part No.	Description	Qty	No.	Part No.	Description	Qty
⑨	228-35145	Seal 42429	1	⑳	228-18565	Male Nut, PEEK	2
18-1	228-21984-01	Solvent Reservoir Filter, SS	1	㉑	228-36215-91	Septum, Cutout (10pcs)	1
㉒	228-33355-04	Needle Seal, Vespel	1	㉒	228-39756-92	Injection Port Tubing SUS Assy, 0.13 mm	1
㉓	228-21217-97	Rotor, 6V-D Assy	1	㉓	046-00994-03	Tubing Clamp, 3136-03	1

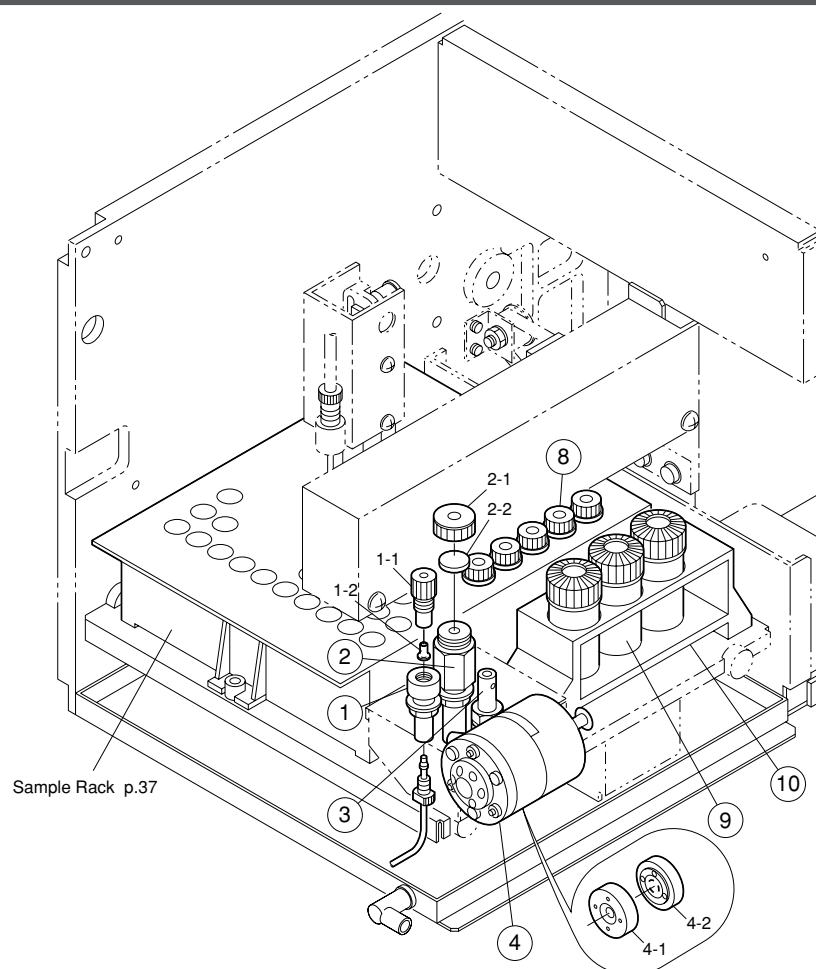


Sample Cooler for 10AD_{VP}

No.	Part No.	Description	No.	Part No.	Description
①	228-39420-91	Power Supply Box Cooler DVP	⑤※	228-39707-91	Spacer Assy
	228-39229-91	PCB, Cooler Assy	⑥	228-39423-91	Cooling Unit, 10ADVP
	228-33911	Power Supply Cooler	6-1	228-25141-92	Thermistor
	228-35401-91	Cable, Cooler	6-2	228-28188-93	Thermal Fuse Assy
②	228-39368	Cutter, Cooling Rack	6-3	228-40155-91	Curl Cable for Repair
③	228-28163	Connection, Straight	⑦	228-39837-91	Cooler Box Assy
④※	228-39597	Pin, Rack Stage			

※④ pin shall be fixed with attached hex hole bolt (022-27617).

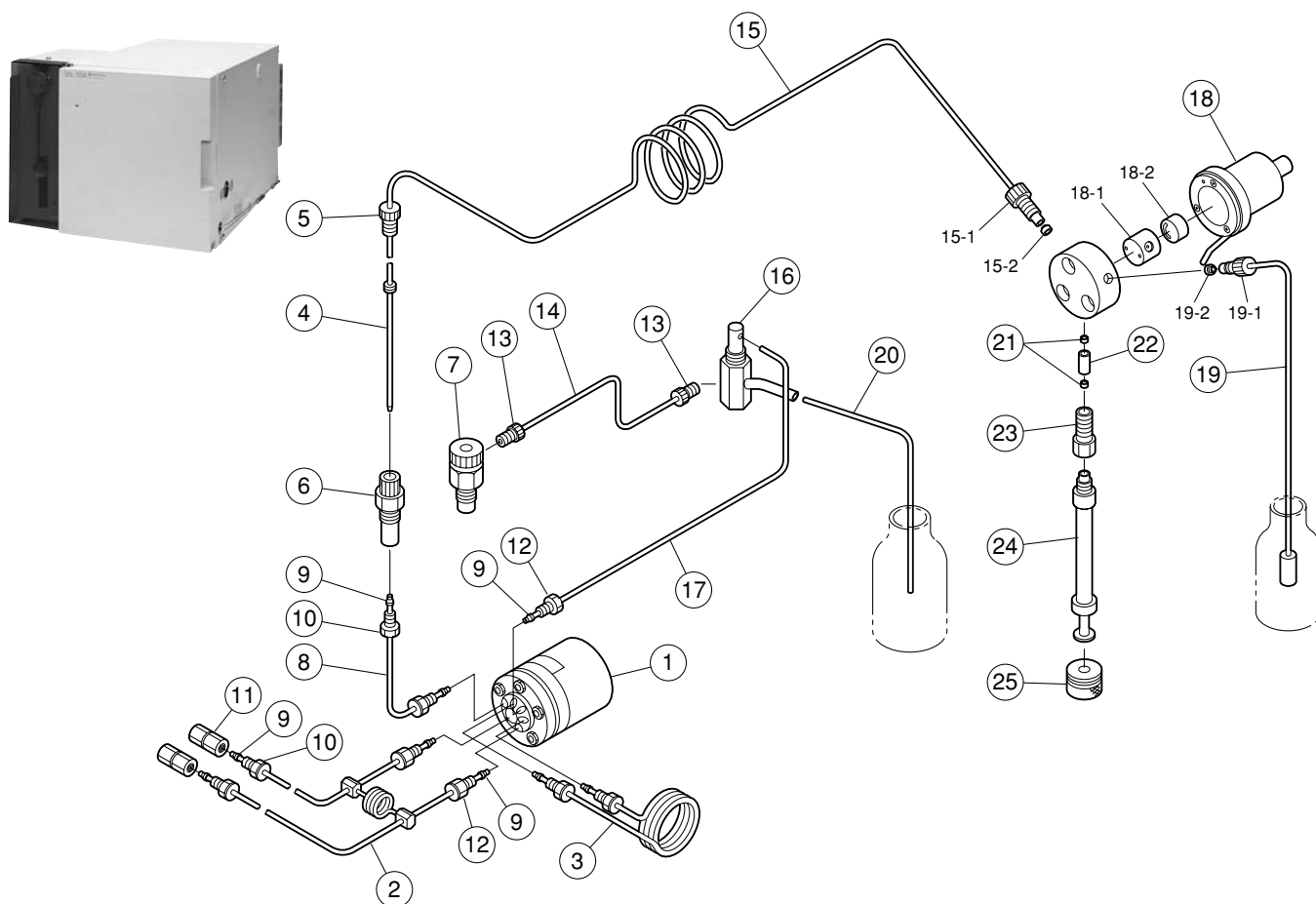
※⑤ is required to use rack 12 or 12A.



SIL-10A/10Ai

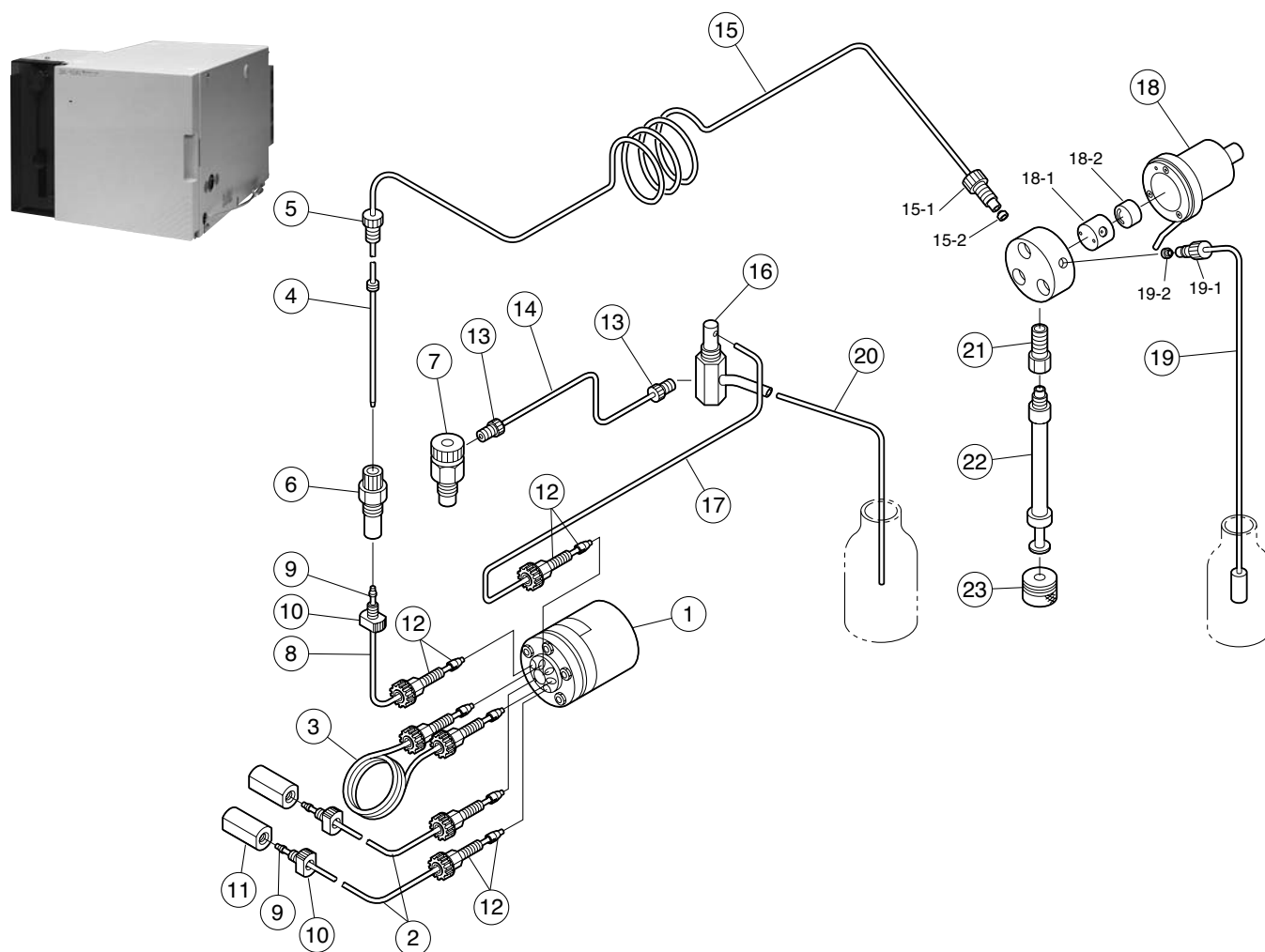
No.	Part No.	Description	No.	Part No.	Description
①	228-25228-91	Injection Port Assy	⑨	228-21280-91	Sample Vial.1.5 mL, w/ Cap & Septum
	228-25228-92	Injection Port Assy, SIL-10Ai	⑩	228-20905	Rack Assy, 15 mL × 3, SIL
1-1	228-20218	Port Guide		228-24447-01	Timing Belt, X-AXIS Motor
1-2	228-21227-91	Needle Seal Assy, SIL-9A, ...3/pkt		228-24447-02	Timing Belt, Y-AXIS Motor
②	228-25229-91	Rinse Port Assy		228-24447-03	Timing Belt, Z-AXIS
	228-25229-92	Rinse Port Assy, SIL-10Ai		228-24447-04	Timing Belt, Z-AXIS Motor
2-1	228-20937	Rinse Port Cap		228-23798	Hook
	228-20937-01	Rinse Port Cap		228-24070	Needle Mount, SIL-10A
2-2	228-21290-91	Septum, for 4 mL, ...100/pkt		070-92025-51	Fiber Optic Cable, HFBR3600-1-021
	221-34266-92	Septum, for 4 mL Vial, ...50/pkt		228-25046-91	LED Assy
③	228-25492-91	Level Port Assy		228-24444	Motor, 103G714-01G2
④	228-21055-91	6-Way Valve Assy, SIL-10A		228-23562	Disc S
	228-32511-01	Rheodyne, 9710, Special		228-04812-91	P.C. Board, Injector Assy, SIL-10A
4-1	228-21220-91	6-Way Valve Rotor Assy, SIL-9A		228-24996-91	ROM, SIL-10A Assy
	228-32511-33	Stator-Face Assy		228-04812-92	P.C. Board, Injector Assy, SIL-10Ai
※	228-21708-91	Packing Kit, AAA, SIL-6B, 9A		228-24996-92	ROM, SIL-10Ai Assy
4-2	228-21217-91	6-Way Valve Rotor Assy, SIL-9A		228-24993-92	Cable, AC/VDE
	228-32511-31	Rotor Seal, 9710, Special		228-25044-91	Sensor Cable, NEX
	228-32511-32	Rotor Seal, 9710		228-25045-92	Sensor Cable B/NEZ
⑧		Special Vials, ref. P.37		228-09408-92	Lubrication Oil, 5 mL

※Optional kit marked with ※ is required for use with pH above 10, including Delrin rotor and stator packing.



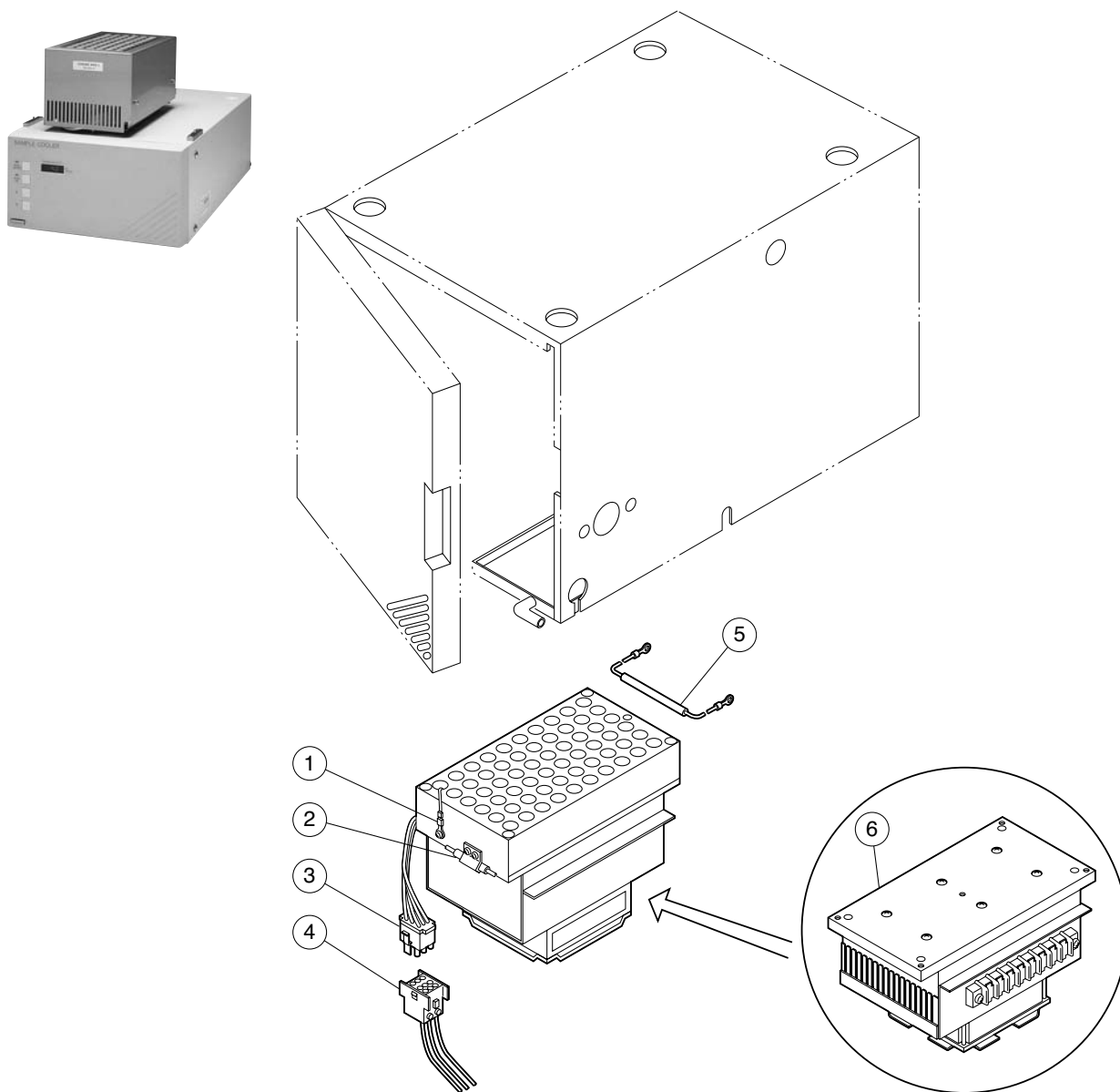
SIL-10A Flow Line/Syringe Unit

No.	Part No.	Description	No.	Part No.	Description
①	228-21055-91	6-Way Valve Assy, SIL-10A	⑰	228-22801-30	Tubing, Precut SS, i.d. 0.8 × o.d. 1.6 × 130
②	228-15154-91	Bypass Assy	⑱	228-23487-91	3-Way Valve Assy, SIL-10A
③	228-21038-91	Sample Loop, 50μL (Standard)	18-1	228-23490	Stator, 3-Way Valve
	228-21515-92	Sample Loop Assy, 0.5 mL (Option)	18-2	228-34417-04	Rotor, 3-Way Valve
	228-21515-91	Sample Loop Assy, 2 mL (Option)	⑲	228-25233-91	Solvent Reservoir Filter Assy
	228-16272-91	Sample Loop Assy, 5μL (Option, for Loop Inj.)	19-1	228-23568-01	Solvent Reservoir Filter Fitting
	228-16272-92	Sample Loop Assy, 10μL (Option, for Loop Inj.)	19-2	040-51097-17	Seal Joint, SM6-2030, PTFE
④	228-20243-93	Needle Assy	⑳	016-37507	Rotor, PTFE, i.d. 6 × o.d. 7
⑤	228-24104	Needle Bushing, SIL-10A	㉑	228-23812-02	Gasket, Insert
⑥	228-25228-91	Injection Port Assy	㉒	228-23811	Insert
⑦	228-25229-91	Rinse Port Assy	㉓	228-23810	Syringe Adapter
⑧	228-22500-70	Tubing, Precut SS, i.d. 0.5 × o.d. 1.6 × 70		228-25205	Syringe Adapter, 2.5 mL (Option)
⑨	228-16000-84	Ferrule, 1.6F ...3/pkt	㉔	228-25237-04	Syringe, 500μL
⑩	228-16001	Male Nut 1.6mn		228-25237-06	Syringe, 2.5 mL (Option)
⑪	228-16004-03	Coupling 1.6C		228-28128-91	2.5 mL Syringe with Fastening Part
⑫	228-16001-01	Male Nut, 1.6mn-L	㉕	228-20185	Holder for Plunger
⑬	040-51097-53	Fitting, SM6-2030 PVDF		228-23579-91	Relay Assy
⑭	228-25234-03	Tubing, PTFE, i.d. 2 × o.d. 3		228-25044-93	Sensor Cable Assy
⑮	228-25231-91	Loop Assy, PTFE		228-23318-91	P.C. Board, Syringe Assy
	228-28129-91	Loop Assy, PTFE, 2 mL		228-25362	Coupling, PEEK, MFB-20C
15-1	228-23568-02	Solvent Reservoir Filter Fitting		228-24970	Cable, for Syringe Unit
15-2	040-51097-15	Seal Joint, SM6-1020, PTFE		228-25357-91	Front Cover, Syringe Unit
⑯	228-25492-91	Level Port Assy			



SIL-10Ai Flow Line/Syringe Unit

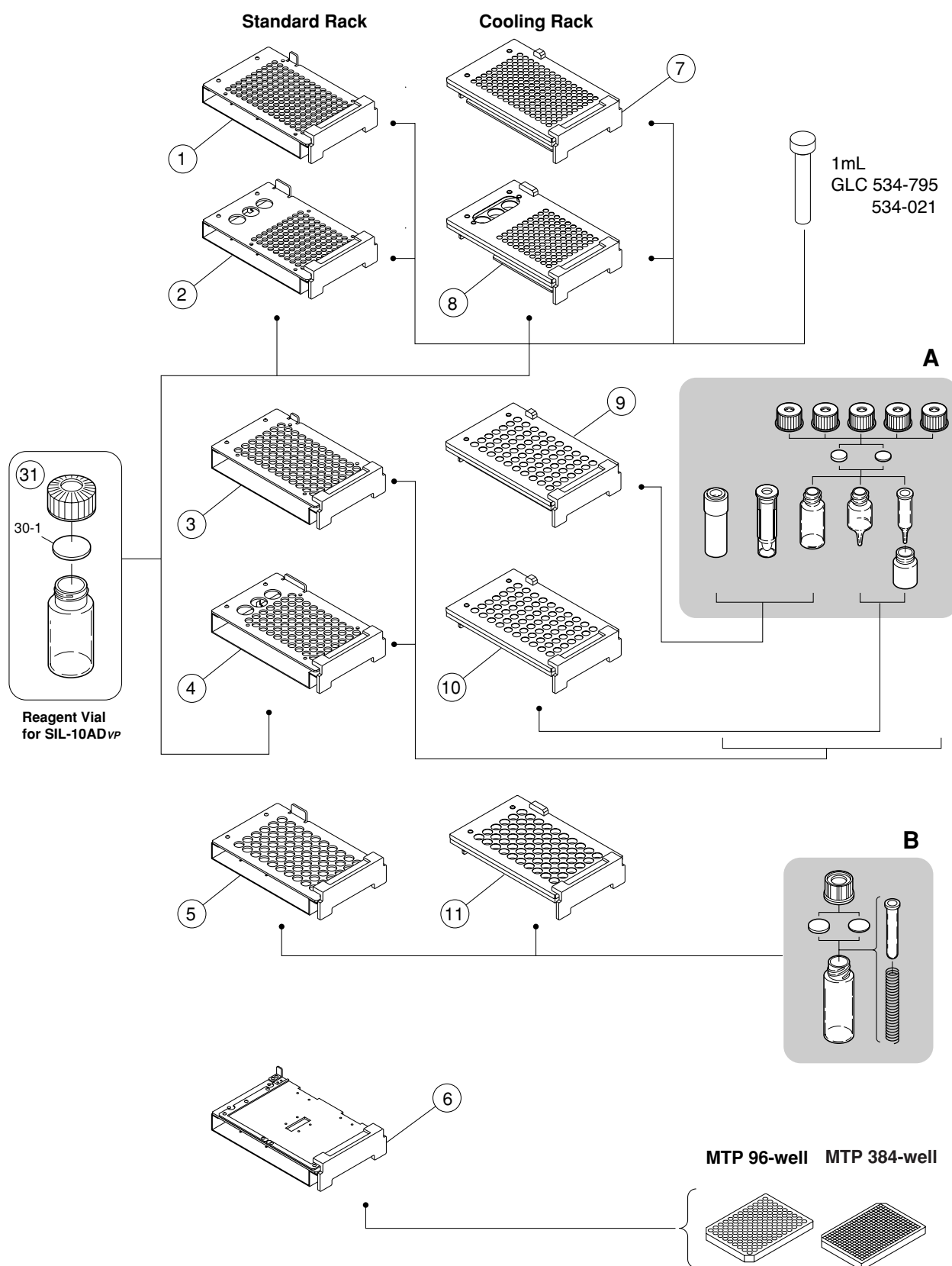
No.	Part No.	Description	No.	Part No.	Description
①	228-32511-01	Rheodyne, 9710, Special	①⑥	228-25492-91	Level Port Assy
②	228-33381-91	Tubing Assy, PEEK	①⑦	228-18495-01	Tubing, ETFE, i.d. 0.8 × o.d. 1.6
③	228-33231-91	Sample Loop Assy, PEEK	①⑧	228-23487-91	3-Way Valve Assy, SIL-10A
	228-33415-91	Sample Loop, 100μL (Option)	18-1	228-23490	Stator, 3-Way Valve
	228-33416-91	Sample Loop, 250μL (Option)	18-2	228-34417-04	Rotor, 3-Way Valve
④	228-20243-95	Needle Assy, SS, GRD.	①⑨	228-25233-92	Solvent Reservoir Filter Assy, with Tubing
⑤	228-24104	Needle Bushing, SIL-10A	19-1	228-23568-01	Solvent Reservoir Filter Fitting
⑥	228-25228-92	Injection Port Assy, SIL-10Ai	19-2	040-51097-17	Seal Joint, SM6-2030, PTFE
⑦	228-25229-92	Rinse Port Assy, SIL-10Ai	②①	016-37507	Rotor, PTFE, i.d. 6 × o.d. 7
⑧	228-33346-01	Injection Port	②②	228-28616	Syringe Adapter, PEEK
⑨	228-31638	Ferrule, 1.6F PEEK		228-25237-04	Syringe, 500μL
⑩	228-33213	Male Nut 1.6mn-2, PEEK		228-25237-06	Syringe, 2.5 mL (Option)
⑪	228-25014	Male Connector, PEEK		228-28128-91	2.5 mL Syringe with Fastening Part
⑫	228-32651-41	Fitting	②③	228-20185	Holder for Plunger
⑬	040-51097-53	Fitting, SM6-2030 PVDF		228-23579-91	Relay Assy
⑭	228-25234-03	Tubing, PTFE, i.d. 2 × o.d. 3		228-25044-93	Sensor Cable Assy
⑮	228-25231-91	Loop Assy, PTFE		228-23318-91	P.C. Board, Syringe Assy
	228-28129-91	Loop Assy, PTFE, 2 mL		228-25362	Coupling, PEEK, MFB-20C
15-1	228-23568-02	Solvent Reservoir Filter Fitting		228-24970	Cable, for Syringe Unit
15-2	040-51097-15	Seal Joint, SM6-1020, PTFE		228-25357-91	Front Cover, Syringe Unit



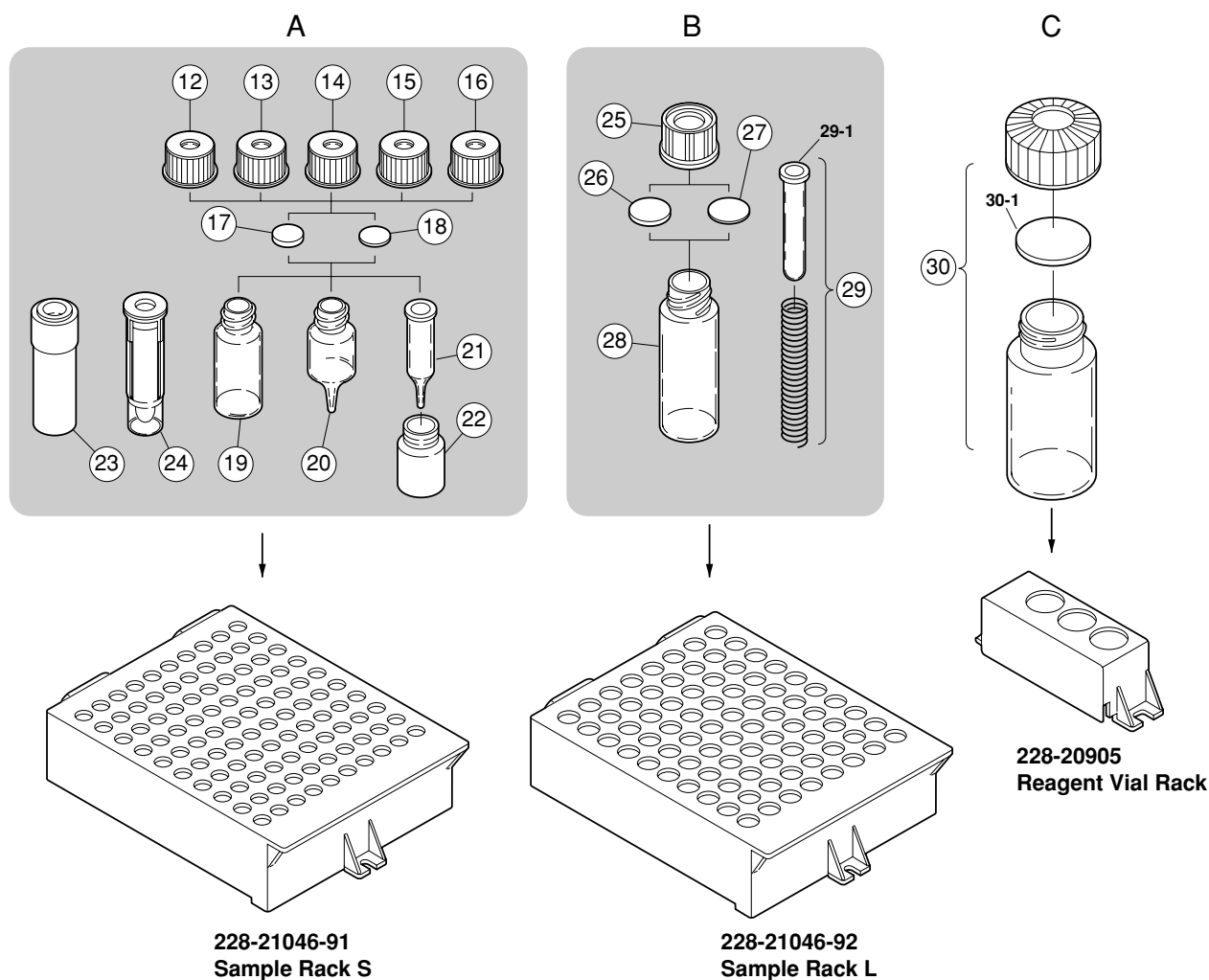
228-25325-93 Cooling Rack (S)□
228-25325-94 Cooling Rack (L)

Sample Cooler for SIL-10A/10Ai/10A_{XL}

No.	Part No.	Description	No.	Part No.	Description
①	228-25141-91	Thermistor Assy		228-23944-91	P.C. Board, PC-1 Assy
②	228-25263-91	Thermal Fuse Assy		228-23945-91	P.C. Board, PC-2 Assy
③	228-25115-91	Connector Cable 2		072-02004-21	Fuse, 218,3.15 3.15A 250V
④	228-25116-91	Connector Cable 3		072-02004-24	Fuse, 218,06.3 6.3A 250V
⑤	228-28188-91	Thermal Fuse Assy		071-60814-01	Power Supply Cable; AC Code, AC 100V/120V
⑥	228-49705-91	Cooler Unit 40P × 9		071-60814-06	Power Supply Cable; AC Code, AC 220V/240V
	228-23013	Power Key		228-28253-91	Remote Cable Assy
	064-54753-02	Switch, JPZ2120-0101		071-20031	Terminal, SQ-0204-02

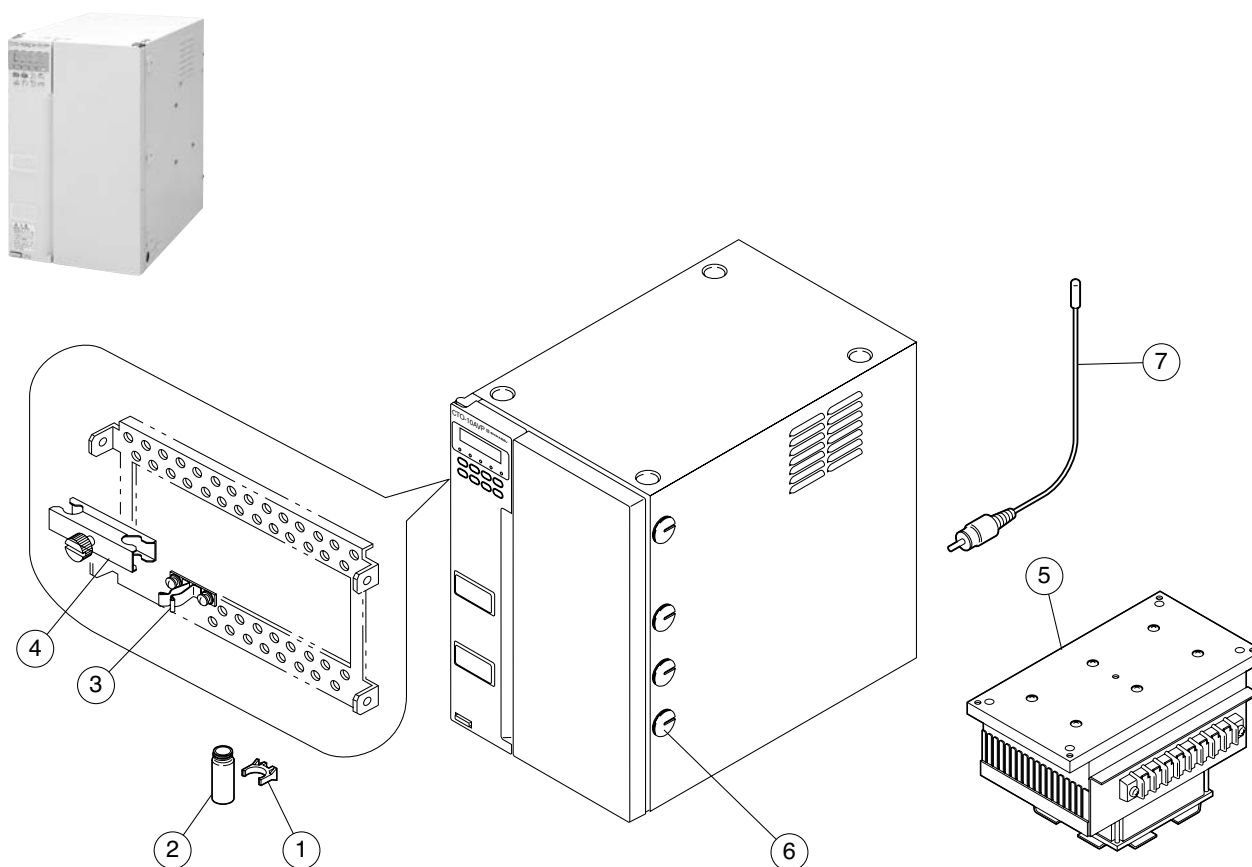


Vials shown in "A" and "B" can be used for both SIL-10AD_{VP} and SIL-10A/10Ai



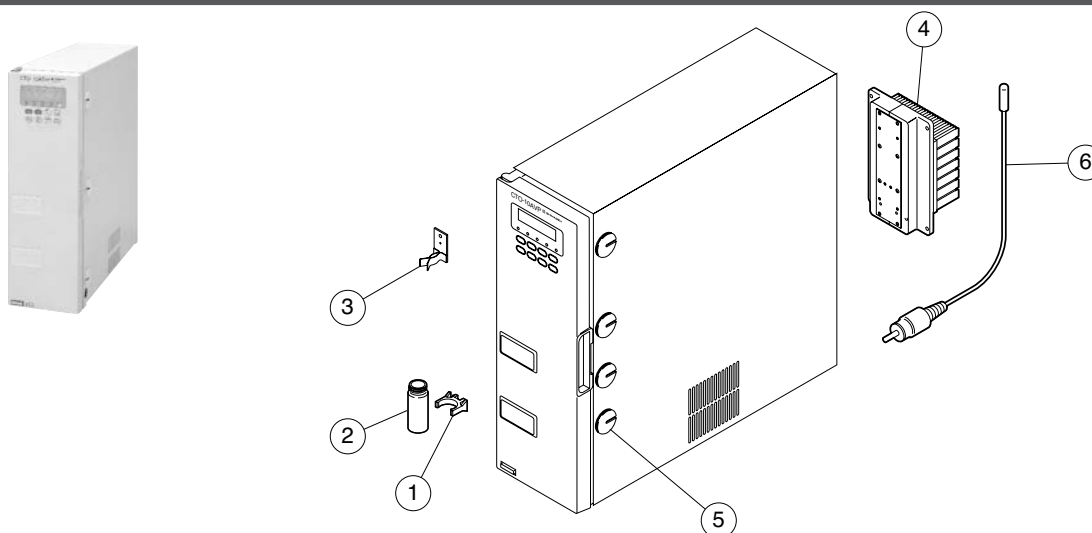
No.	Part No.	Description	No.	Part No.	Description
①	228-39803-91	Rack 1, for 1 mL Vials	②⑩	228-15652-93	Vial, 1.5 mL, w/ Colored CA
②	228-39803-96	Rack 6, for 1mL/Reagent Vials	②⑪	228-21282-91	Vial, 1.1 mL, ...100/pkt
③	228-39803-92	Rack 2, for 1.5 mL Vials	②⑫	228-21283-91	Vial, 1.1 mL, w/ Cap & Septum, ...100/pkt
④	228-39803-97	Rack 7, for 1.5mL/Reagent Vials	②⑬	228-16850-91	Spacer, for Vial, 0.3 mL
⑤	228-39803-93	Rack 3, for 4 mL Vials	②⑭	228-16847-92	Vial, 0.3 mL Assy, ...100/pkt
⑥	228-36426-91	Rack 4A/5A for MTP/Deep-well	②⑮	228-16873-91	Spacer, for Vial, ...100/pkt
⑦	228-39422-91	Rack 11, for 1 mL Sample Cooler Vials	②⑯	228-35217-91	Plastic Vial, 200μL, ...100/pkt
⑧	228-39422-94	Rack 16, for 1 mL/Reagent Sample Cooler	②⑰	228-31600-91	Vial, 1mL, PP ...200/pkt
⑨	228-39422-92	Rack 12, for 1.5 mL Sample Cooler Vials	②⑱	228-21289-91	Cap, ...100/pkt
⑩	228-39422-96	Rack 12A, for 1.1 mL Sample Cooler Vials	②⑲	228-21290-91	Septum, for 4 mL, ...100/pkt
⑪	228-39422-93	Rack 13, for 4 mL Sample Cooler Vials	②⑳	228-23469-91	Septum, Teflon
⑫	228-15653-91	Cap for Vial, 1.5 mL--Black , ...100/pkt	②㉑	228-21288-91	Vial, 4 mL, ...100/pkt
⑬	228-15653-92	Cap for Vial, 1.5 mL Red	②㉒	228-21287-91	Vial, 4 mL, w/ Cap & Septum, ...100/pkt
⑭※	228-15653-93	Cap for Vial, 1.5 mL Yellow	②㉓	228-31537-91	Vial Kit, 03-CV, ...100/pkt
⑮	228-15653-94	Cap for Vial, 1.5 mL Brown	②㉔	228-21284-91	Vial Assy, 03-CV, ...100/pkt
⑯※	228-15653-95	Cap for Vial, 1.5 mL White	②㉕	228-21285-91	Sample Vial.1.5 mL, w/ Cap & Septum, ...100/pkt
⑰	221-26718-93	Septum, 1.5 mL , ...100/pkt	③①	228-21278-91	Septum, ...30/pkt
⑱	228-15655-91	Septum, ...100/pkt		228-39752-91	Sample Vial, 10 mL
⑲	228-16965-91	Vial, 1.5 mL, ...100/pkt			
	228-15652-92	Vial, 1.5 mL--SI ...100/p			

※Not applicable to SIL-10AD_{VP}



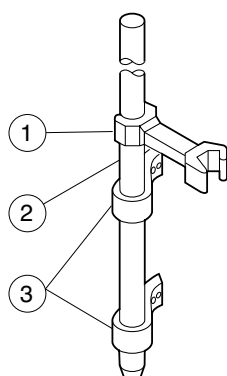
CTO-10A_{VP}/10AC_{VP}

No.	Part No.	Description	No.	Part No.	Description
①	228-23875	Bottle Holder	⑦	061-84301	Gas Sensor, TGS #813
②	228-11725-84	Vial, ...10/pkt		061-84301-01	Socket, Gas Sensor
③	228-15617-91	Column Clamp Assy B5		228-25350-91	Fan Motor Assy, CTO-10A, 10AC
	228-15617-92	Column Clamp Assy B8		228-28188-91	Thermal Fuse Assy
④	228-28637-91	Column Catch Assy		228-34618-91	Thermosensor Assy
⑤	228-49705-91	Cooler Unit 40P × 9		228-34620-91	Ambient Temperature Sensor Assy
	228-35605-91	PCB, CPU Assy, VP Modules		228-23926-91	P.C. Board, PC-3 Assy
	228-35606-91	Monitor VP ROM Assy		074-73307-01	Lithium Battery, CR2032
	228-34692-91	PCB CTO-UNIV Assy		228-34628	Keytop CTOVP
	228-34923-91	PCB KEY-VP Assy		070-92025-51	Fiber Optic Cable, HFBR3600-1-021
	064-54753-01	Switch, JPZ2120-0301		228-39249	Option Box, L
	072-02004-25	Fuse, 218,008 8A 250V		228-35048-91	Event Cable EMC
	072-02004-22	Fuse, 218,004 4A 250V		228-35307-91	Terminal for Event Cable
	228-33911	Power Supply Cooler		228-39306-91	RCA Cable Terminal
	228-23834	Bearing Switch, CTO-10A(C)		228-35047-91	Signal Cable EMC
⑥	228-23851-01	Cap		071-60814-01	Power Supply Cable; AC Code, AC 100V/120V
	072-01843-14	Thermal Fuse, DM110V		071-60814-06	Power Supply Cable; AC Code, AC 220V/240V
	064-32718-11	Micro Switch, DM2MV OIL-111-103			



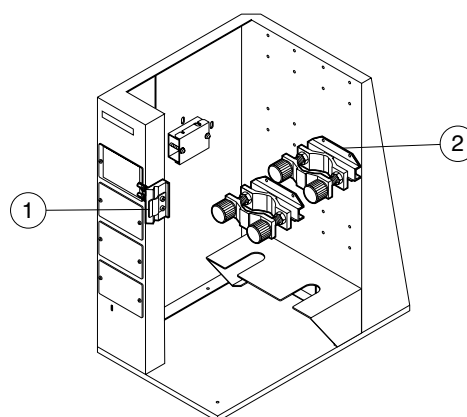
CTO-10AS_{VP}

No.	Part No.	Description	No.	Part No.	Description
①	228-23875	Bottle Holder	⑥	228-34620-91	Ambient Temperature Sensor Assy
②	228-11725-84	Vial, ...10/pkt		074-73307-01	Lithium Battery, CR2032
③	228-35170	Column Clamp		228-34628	Keytop CTOVP
④	228-35154-91	Cooler Unit Assy		228-35158-91	Heat Block Assy
	228-35605-91	PCB, CPU Assy, VP Modules		228-39249	Option Box, L
	228-35606-91	Monitor VP ROM Assy		228-35048-91	Event Cable EMC
	228-34483-91	Assy PB-1 CTO-10XVP		228-35307-91	Terminal for Event Cable
	228-34526-91	Assy PB-2 CTO-VP		070-92025-51	Fiber Optic Cable, HFBR3600-1-021
	228-35374-91	Switch Assy, CTO		228-39306-91	RCA Cable Terminal
	228-35195-91	Door Sensor Assy		228-35047-91	Signal Cable EMC
	228-39247-92	Leak Sensor		071-60814-01	Power Supply Cable; AC Code, AC 100V/120V
	228-23834	Bearing Switch, CTO-10A(C)		071-60814-06	Power Supply Cable; AC Code, AC 220V/240V
⑤	228-23851-01	Cap		228-18565	Male Nut, PEEK
	072-01843-14	Thermal Fuse, DM110V		228-34117-15	Tubing, PEEK, 1.6 × 0.13
	228-34923-91	PCB KEY-VP Assy		072-02004-20	Fuse, 213.02.5 2.5A 250V



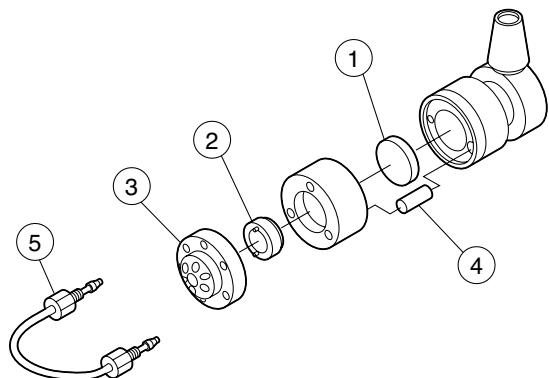
228-35655-93 Column Holder

No.	Part No.	Description
①	228-14625	Column Holder B
②	228-15136-91	Pole Assy
③	228-15404	Pole Support, C



228-35656-91 Column Holder 8A

No.	Part No.	Description
①	228-20372-91	Column Catch Assy
②	228-17701-91	Column Clamp Assy



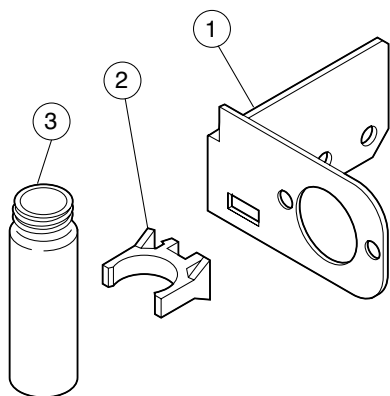
228-32210-91 Sample Injector 7725

228-32210-93 Sample Injector 7725i

No.	Part No.	Description
①	670-12098-51	Rotor Seal (Vespel)
	670-12098-56	Rotor Seal (Tefzel)
②	228-32211-31	Stator Face Assy, 8125
③	228-32211-32	Stator
④	228-32211-33	Position Sensing Switch
	228-32211-11	Sample Loop, 2μL
	228-32211-12	Sample Loop, 5μL
	228-32211-13	Sample Loop, 10μL
	228-32211-14	Sample Loop, 20μL
	228-32211-15	Sample Loop, 50μL
	228-32211-16	Sample Loop, 100μL
	228-32211-17	Sample Loop, 200μL
	228-32211-18	Sample Loop, 500μL
	228-32211-19	Sample Loop, 1 mL
	228-32211-20	Sample Loop, 2 mL
	228-32211-21	Sample Loop, 5 mL
	670-11412-04	Ferrule for Injection Valve,...1/pkt
	670-11412-02	Bushing for Injection Valve,...1/pkt
	670-11412-03	Bushing, Super Long, 7010-062

228-23200-91 Sample Injector 8125 (for semi-micro LC)

No.	Part No.	Description
①	228-34082-03	Rotor Seal, 8125 Vespel
	228-34082-02	Rotor Seal, 8125 Tefzel
②	228-34082-05	Stator Face Assy, 8125
③	228-34082-04	Stator
	670-11412-04	Ferrule for Injection Valve,...1/pkt
	670-11412-02	Bushing for Injection Valve,...1/pkt
	670-11412-03	Bushing, Super Long, 7010-062



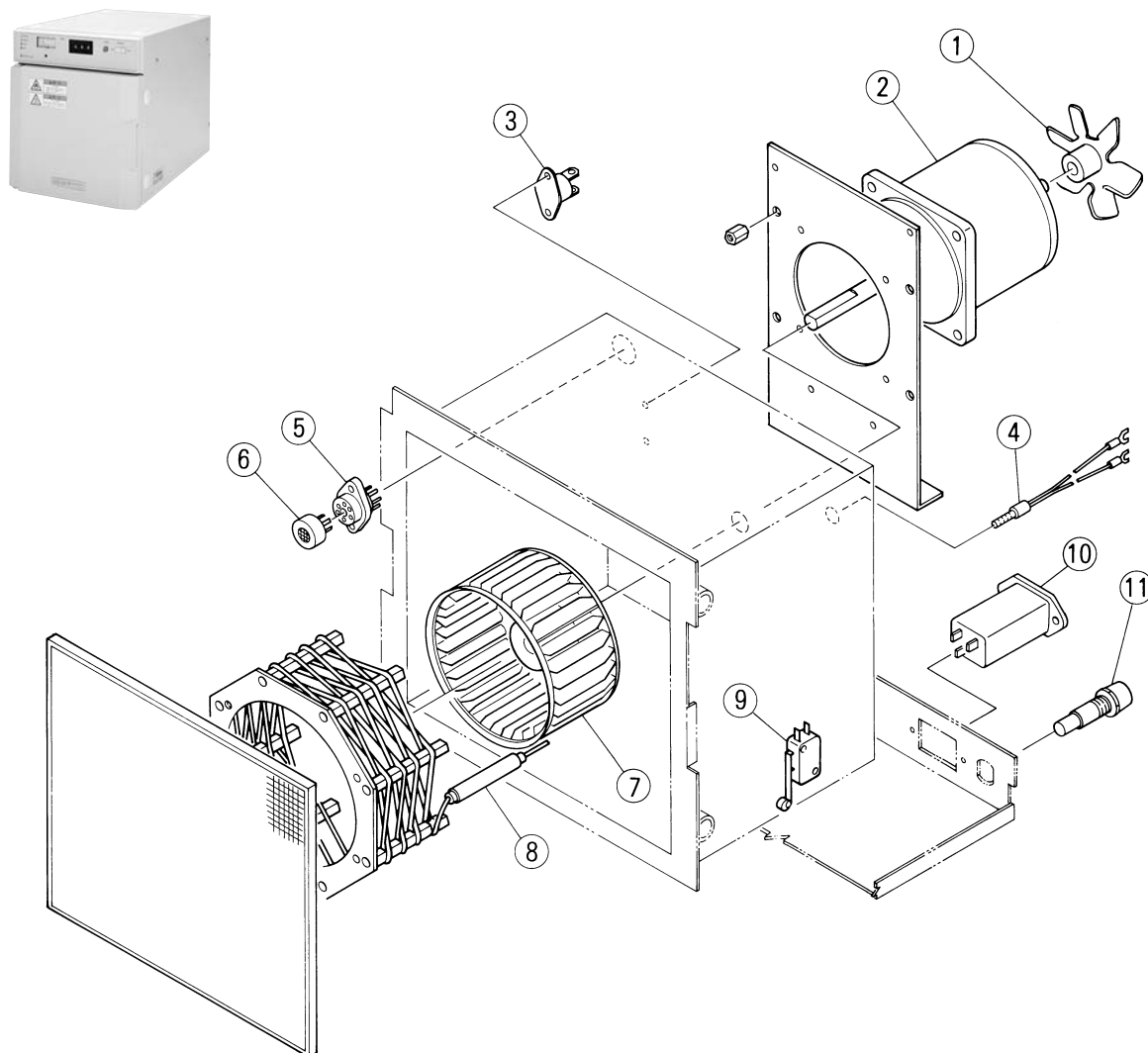
228-32650-91 Sample Injector 9725 (PEEK)

228-32650-93 Sample Injector 9725i (PEEK)

No.	Part No.	Description
①	670-12098-51	Rotor Seal (Vespel)
	228-32651-34	Rotor Seal (Tefzel)
②	228-32651-33	Stator
⑤	228-32651-14	Sample Loop, 20μL
	228-32651-15	Sample Loop, 50μL
	228-32651-16	Sample Loop, 100μL
	228-32651-17	Sample Loop, 200μL
	228-32651-18	Sample Loop, 500μL
	228-32651-19	Sample Loop, 1 mL
	228-32651-41	Fitting

228-35659-91 Injector Mounting Plate

No.	Part No.	Description
①		Mounting Plate (Only available with 228-35659-91)
②	228-23875	Bottle Holder
③	228-11725-84	Vial, ...10/pkt



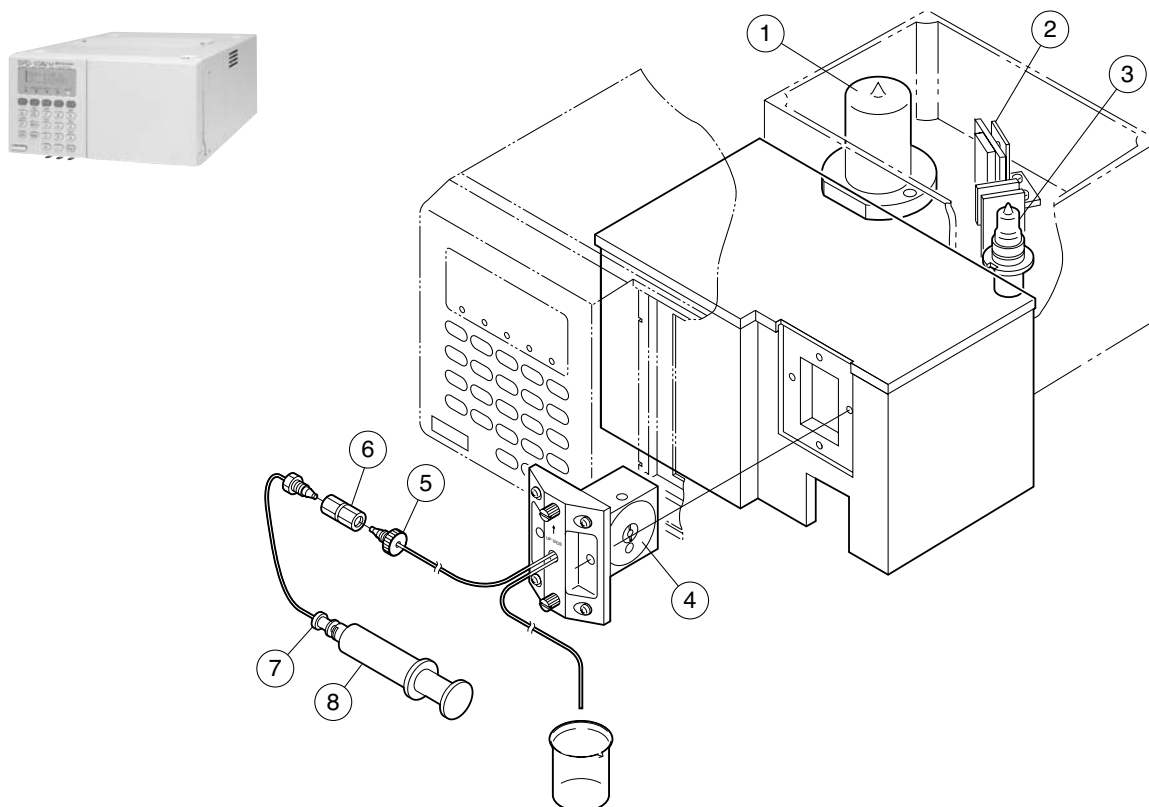
CRB-6A

No.	Part No.	Description	No.	Part No.	Description
①	228-16758	Cooling Fan		061-78067-02	LED, TLG205
②	228-17249	Fan Motor, A1474-342, CRB-6		080-48064	Meter, TRM45 (200UA)
③	072-01840	Thermal Fuse, DC155		228-15900-91	Digital SW Assy, CRB-6A
④	228-15391-91	Heater Sensor Assy, CTO-6A		064-92215-03	Bracket, Switch-Mounting, 77SM-3
⑤	061-84301-01	Socket, Gas Sensor		064-92210	Switch, Digital 177601MN
⑥	061-84301	Gas Sensor, TGS #813		064-56930-05	Button, B951, Gray
⑦	228-16760	Fan		064-56058-04	Switch, SUN11
⑧	228-15866-01	Micro Heater, H-35 300W, CRB-6A		064-14055	Switch, Wave Motion, WD-3301
⑨	064-32614	Switch, V-56-1A3		070-02390-05	Connector, P-1304-DB
⑩	075-00056	Filter, Noise, FN322-3/01		071-20031	Terminal, SQ-0204-02
⑪	072-05249	Fuse Holder, F130		071-30544-04	Plate, Terminal, 4P
	072-01214-05	Fuse, FGBO 5A 125V		228-15295-92	P.C. Board, PB-3 Assy, CRB-6A
	072-01660-18	Fuse, ULCS-61M-2A 250V		228-15321-91	Transformer, CRB-6A
	228-15320-92	P.C. Board, PB-1 Assy, CRB-6A			

SPD-10A_{VP} SPD-10AV_{VP}

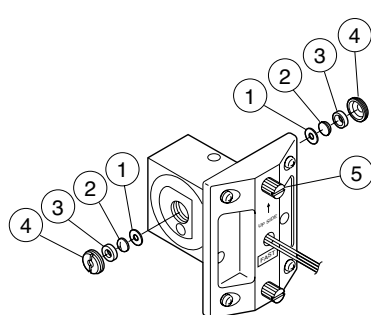
UV-VIS Detector

VP series HPLC

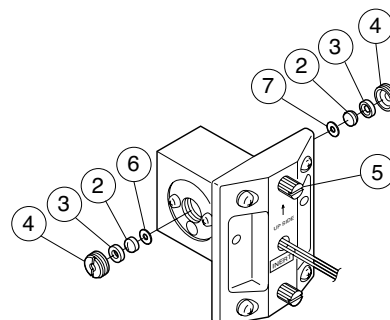


SPD-10A_{VP}/10AV_{VP}

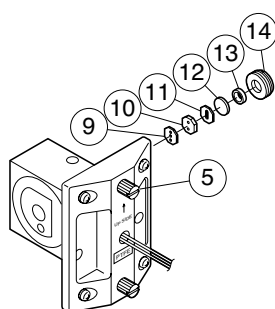
No.	Part No.	Description	No.	Part No.	Description
①	228-34016-02	Deuterium (D2) Lamp		228-25421-93	Photosensor A Assy
②	228-23037-91	Mirror M1 Assy (UV)		228-23013-01	Key
	228-23037-92	Mirror M1 Assy (UV/VIS)		228-35605-91	PCB, CPU Assy, VP Modules
③	670-14602	Tungsten (W) Lamp, YT55134A		228-35606-91	Monitor VP ROM Assy
④	228-23400-91	Flow Cell, Standard Assy		228-34511-91	PCB Assy SPDVP-POWER
⑤	228-18565	Male Nut, PEEK		228-34513-91	PCB Assy SPDVP-CONT
⑥	228-16004-03	Coupling 1.6C		228-39068-91	Harness Front Assy
⑦	228-15672-91	Syringe Adapter		228-34698-91	Switch Assy, SPD-VP
⑧	046-00001	Syringe Glass, 10 mL		072-02004-21	Fuse, 218,3.15 3.15A 250V
	228-23393-91	Filter Assy (VIS)		072-02004-18	Fuse, 218,01.6 1.6A 250V
	228-23014-91	Mirror M2 Assy		228-34697-01	Transformer, SPD-VP
	228-23041-91	Mirror M3 Assy		228-25246-92	Fan SPD60
	228-15257-92	Grating Assy		670-12133	Fan, MD516B-24-F14
	228-23018-91	Quartz Window Assy		228-39180-02	Keytop DET
	228-23016-91	Photo Cell Assy		228-39061-91	PCB, Panel Assy
	228-23691-94	PB-1 Assy		228-39247-92	Leak Sensor
	228-23044-91	Filter Assy, SPD-10A		228-35307-91	Terminal for Event Cable
	228-23044-92	Filter Assy, SPD-10AV		228-39306-91	RCA Cable Terminal
	228-23027-92	Motor Assy		074-73307-01	Lithium Battery, CR2032
	228-23398-91	Motor Assy		228-18495-06	Tubing, ETFE, i.d. 0.3 × o.d. 1.6
	670-11222	Belt		228-39613	Drain Tubing
	228-25421-91	Photosensor A Assy VP		228-39621	Tubing Holder



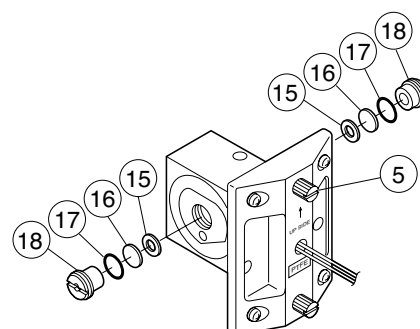
228-23400-91 Standard Cell
228-23407-91 Flow Cell for Fast-LC



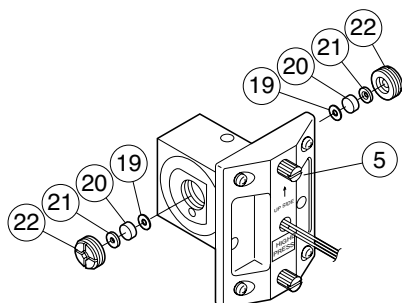
228-33338-91 PEEK Cell



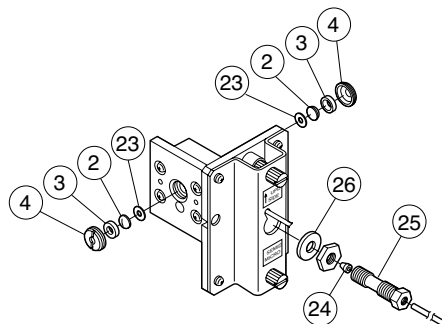
228-23405-91 Flow Cell for Preparative LC (Variable 0.5mm)
228-23405-92 Flow Cell for Preparative LC (Variable 0.2mm)
228-23405-93 Flow Cell for Preparative LC (Variable 0.1mm)



228-23406-91 Flow Cell for Preparative LC
(Fixed Optical Path Length)

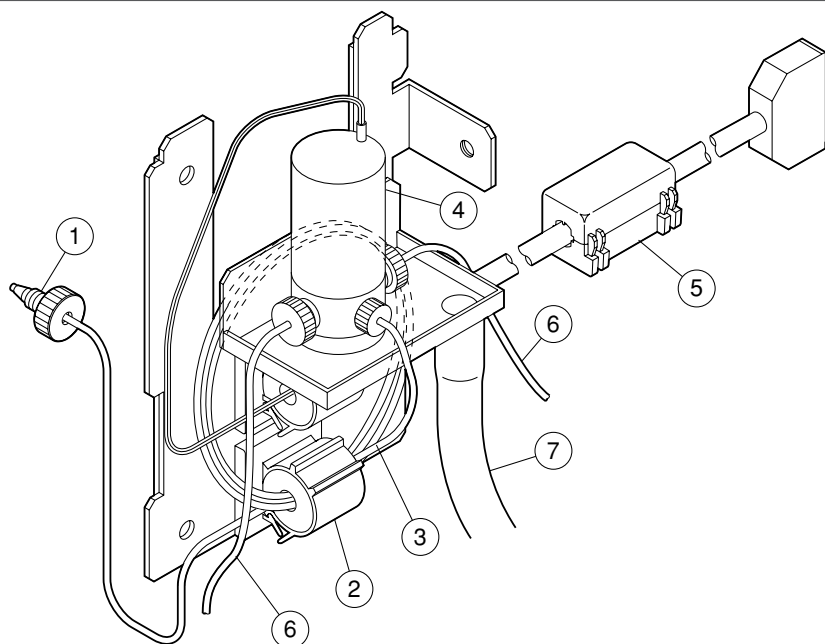


228-23403-91 Flow Cell for High Pressure



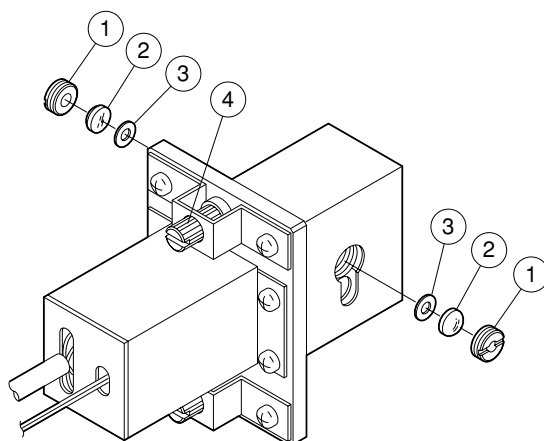
228-23401-91 Flow Cell for Semi-micro

No.	Part No.	Description	No.	Part No.	Description
①	228-35097-95	Gasket, Flow Cell ...2/pkt	⑬	228-21387	Packing
②	228-14572	Lens, R4, RD6	⑭	228-21386	Bushing
③	228-14569	Packing	⑮	228-15503	Spacer, PTFE for Cell Preparation
④	228-14568	Retaining Screw, Lens	⑯	228-00147-03	Optical Window, Quartz, UV Cell
⑤	228-14520	Retaining Screw, Cell	⑰	036-11402	O-Ring, PTFE
⑥	228-14571-84	Gasket, Teflon, ...2/pkt	⑱	228-03152	Cell Window Retainer
⑦	228-32998-02	Gasket, PTFE, i.d. 0.2 × o.d. 2.5 × 6	⑲	228-28368-04	PFA Gasket, i.d. 0.2 × o.d. 1.2
⑧	228-18058	Optical Window, Std. Cell	⑳	228-17079	Quartz Window Assy
⑨	228-21383	Gasket, PTFE	㉑	228-17083	Gasket
⑩	228-21384-02	Cell Window	㉒	228-21393	Bushing
⑪	228-21385-01	Spacer, T-0.1	㉓	228-35097-05	Gasket
	228-21385-02	Spacer, T-0.2	㉔	228-16000-84	Ferrule, 1.6F ...3/pkt
	228-21385-05	Spacer, T-0.5	㉕	228-25299	Long Bushing, Semi-Micro
⑫	228-00147-02	Optical Window, Quartz, UV Cell	㉖	228-14616	Gasket, 1T



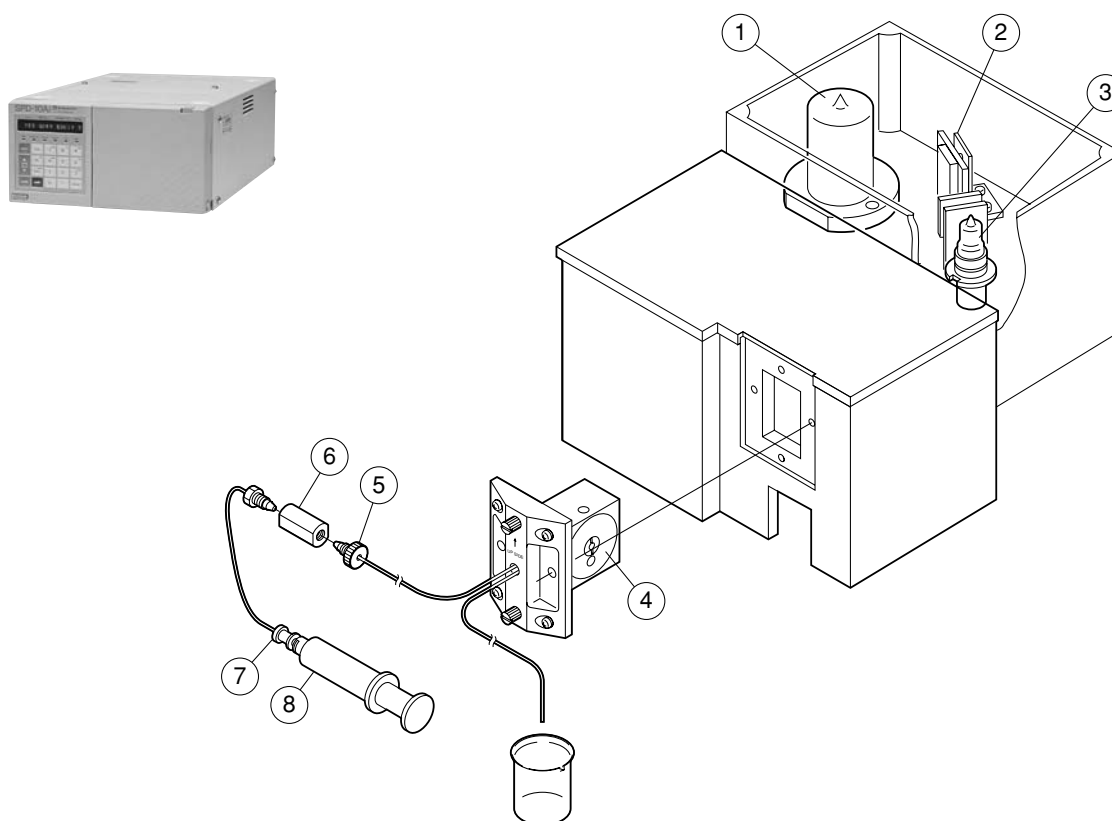
228-35310-91 Solvent Recycling Valve Kit

No.	Part No.	Description	No.	Part No.	Description
①	228-18565	Male Nut, PEEK	⑤	075-08032-03	Clamp, Sleeve, Ferrite, SFC-6
②	072-60319-01	Clamp, DKN-10SP	⑥	228-35365-91	Tubing Assy (OUT)
③	228-35364-91	Tubing Assy (IN)	⑦	016-31350-19	Tubing, Silicone, i.d. 10 × o.d. 7
④	228-35454-91	Solenoid Valve, MRV-3			



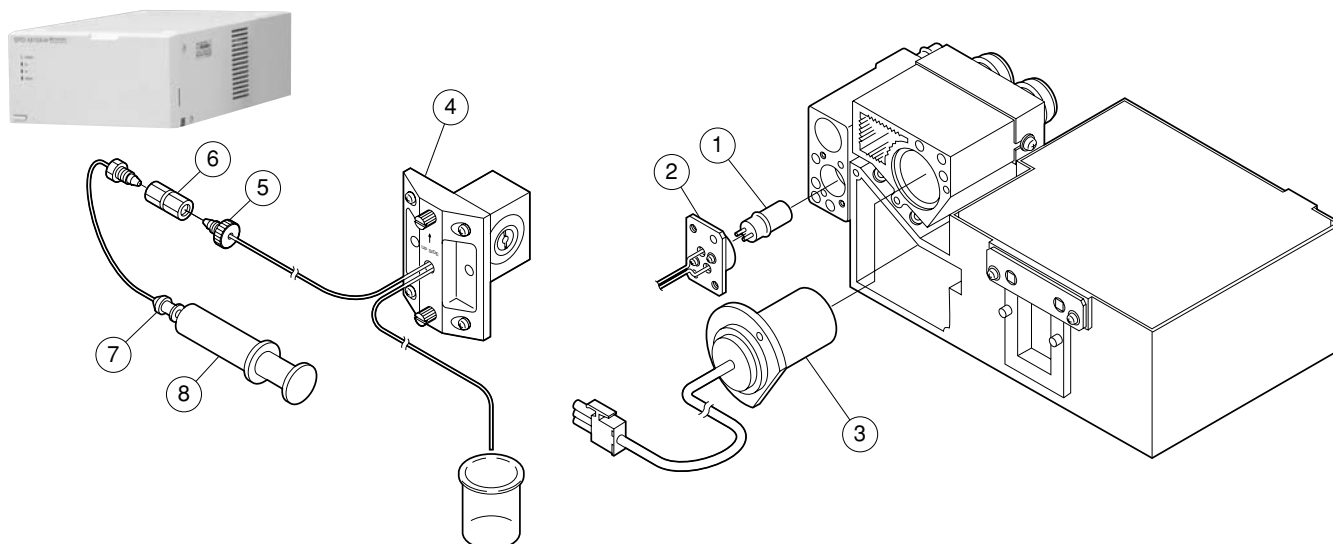
228-35500-91 Temperature Control Cell Unit

No.	Part No.	Description	No.	Part No.	Description
①	228-31058	Retaining Screw, Lens		228-15325-91	Flat Cable Assy, CTO-6A
②	228-14572	Lens, R4, RD6		228-15324-91	Connector PF Assy
③	228-23415-01	Gasket, Teflon, Flow Cell		072-02004-16	Fuse, 218,500 0.5A 250V
④	228-31057	Retaining Screw, Cell		072-02004-19	Fuse, 218,002 2A 250V
	228-15295-93	PB-3 Assy, Temperature Control		228-31050-91	Temperature Control Cell Assy
	228-23013-01	Key		228-31776-91	Plate, Quartz, for Grating
	064-54753-02	Switch, JPZ2120-0101		228-31749	Tape, for Grating



SPD-10Ai/10AVi

No.	Part No.	Description	No.	Part No.	Description
①	228-34016-02	Deuterium (D2) Lamp		228-25421-91	Photosensor A Assy VP
②	228-23037-91	Mirror M1 Assy (UV)		228-23013-01	Key
	228-23037-92	Mirror M1 Assy (UV/VIS)		228-40766-91	P.C. Board, FIP Assy
③	670-14602	Tungsten (W) Lamp, YT55134A		228-23673	Panel Switch 4441
④	228-33338-91	Flow Cell, PEEK, Inert LC		228-23527-91	P.C. Board, CPU Assy
⑤	228-33213	Male Nut 1.6mm-2, PEEK		228-24988-93	ROM, SPD-10Ai
⑥	228-25014	Male Connector, PEEK		228-24988-94	ROM, SPD-10AVi
⑦	228-15672-91	Syringe Adapter		228-23657-91	P.C. Board, PB-3 Assy
⑧	046-00001	Syringe Glass, 10 mL		228-23544-91	P.C. Board, PB-2 Assy
	228-23393-91	Filter Assy (VIS)		228-25077-91	Transformer Assy
	228-23014-91	Mirror M2 Assy		228-24797-91	Switch, SPD
	228-23041-91	Mirror M3 Assy		228-25246-92	Fan SPD60
	228-15257-92	Grating Assy		670-12133	Fan, MD516B
	228-23018-91	Quartz Window Assy		074-80363-01	Power Supply Unit, SLM50224
	228-23016-91	Photo Cell Assy		228-25249-91	Battery SPD
	228-23691-91	PB-1 Assy		072-02004-21	Fuse, 218,02.5 2.5A 250V
	228-23044-91	Filter Assy, SPD-10A		072-02004-18	Fuse, 218,01.6 1.6A 250V
	228-23044-92	Filter Assy, SPD-10AV		228-25089-92	Signal Cable, SPD-10A
	670-18114	Motor, PM25L-024-SMAO		070-92025-51	Fiber Optic Cable, HFBR3600-1-021
	228-25422-91	Photosensor B Assy		228-28253-91	Remote Cable Assy
	228-23027-92	Motor Assy		228-24276	Holder, Tubing
	228-23398-91	Motor Assy		228-31638	Ferrule, 1.6F PEEK
	670-11222	Belt		228-18495-06	Tubing, ETFE, i.d. 0.3 × o.d. 1.6
	228-25421-92	Photosensor A Assy		228-33380-91	Tubing, PEEK, with Protector



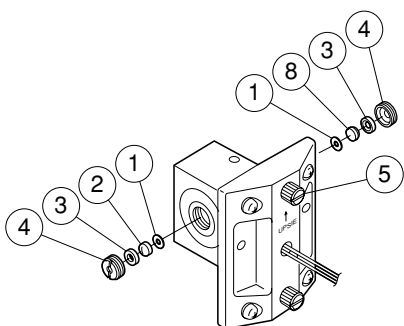
SPD-M10A_{VP}

No.	Part No.	Description	No.	Part No.	Description
①	228-34410-91	Tungsten (W) Lamp		228-33199-93	PCB Assy, CPU-SUB
②	228-34671-91	Socket Assy (W Lamp)		228-34583-91	PCB Assy, Power Supply
③	228-34016	Lamp, Deuterium (D2), L-6585		228-33196-91	PCB, LED Board Assy
④	228-33182-91	Flow Cell, Standard M10A _{VP}		228-33966-91	Transformer with PDA Cable
⑤	228-18565	Male Nut, PEEK		228-34095-91	Noise Filter Assy
⑥	228-16004-03	Coupling 1.6C-04		228-33949-91	Micro-Switch Assy
⑦	228-15672-91	Syringe Adapter		071-20031	Terminal, SQ-0204-02
⑧	046-00038-01	Syringe, L-208, 20 mL		228-33743-92	Leak Sensor Assy
	228-33183-91	LM, Assy, M10X		064-54753-02	Switch, JPZ2120-0101
	228-33184-91	M1 Assy, M10X		072-02004-23	Fuse, 218,005 5A 250V
	228-33140-91	Shutter Assy, M10X		072-02004-21	Fuse, 218,3.15 3.15A 250V
	228-25044-93	Sensor Cable Assy		228-33983-91	Thermo-Fuse Assy
	670-18114	Motor, PM25L-024-SMAO		071-60814-01	Power Supply Cable; AC Code, AC 100V/120V
	228-33184-92	M2 Assy, M10X		071-60814-06	Power Supply Cable; AC Code, AC 220V/240V
	228-33207-91	Slit Assy, M10X		228-18495-06	Tubing, ETFE, i.d. 0.3 × o.d. 1.6
	228-33542-91	GR Semi Assy		071-60813	Adapter, KPR-18
	228-33364-91	PDA Board H Assy		228-28253-91	Remote Cable Assy
	228-33964-91	Thermostat Assy, M10X			

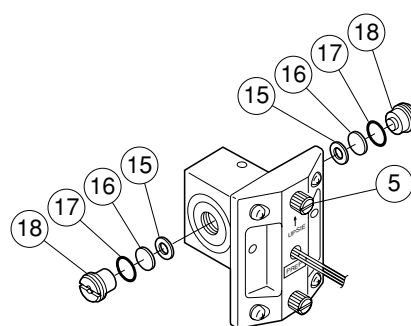
SPD-M10A_{VP} Option

Part No.	Description	Notice
228-33060-91	4CH Analog Board	Analog output, Needed in linkage with FRC-10A
228-34164-91	PCI Board M10A _{VP} (J)	Japanese, Incl. 2m cable
228-34164-92	PCI Board M10A _{VP} (E)	English, Incl. 2m cable
228-34164-93	PCI Board M10A _{VP} , CE	English (CE), Incl. 2m cable
228-34169-91	Cable, SCSI, for PCI, 2 m	} High Density 50 Pin Male (D-sub half) – Centronics 50 Pin Male
228-34169-92	Cable, SCSI, PCI CE	
228-34169-94	Cable, SCSI, for PCI, 4 m	
228-34169-96	Cable, SCSI, for PCI, 6 m	
228-34170-91	HG Holder Assy (Option)	

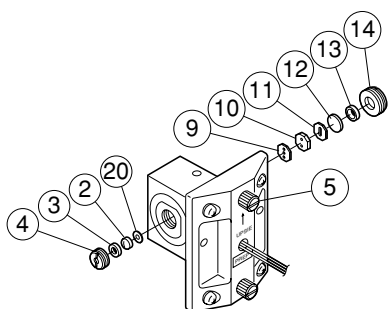
※Refer to page 54 for the types of SCSI cable connectors.



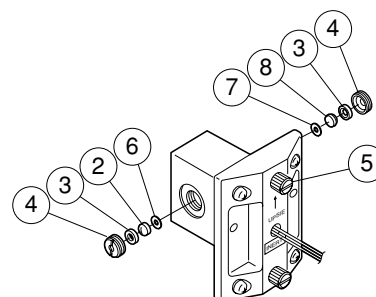
228-33182-91 Standard Cell/M10A_{VP}



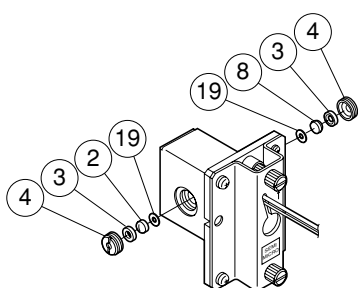
228-34188-91 Flow Cell for Preparative LC/M10A_{VP}
(Fixed Optical Path length)



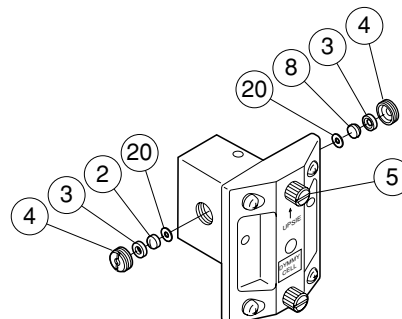
228-34189-91 Flow Cell for Preparative LC (Variable 0.5mm)/M10A_{VP}
228-34189-92 Flow Cell for Preparative LC (Variable 0.2mm)/M10A_{VP}
228-34189-93 Flow Cell for Preparative LC (Variable 0.1mm)/M10A_{VP}



228-34187-91 PEEK Cell/M10A_{VP}

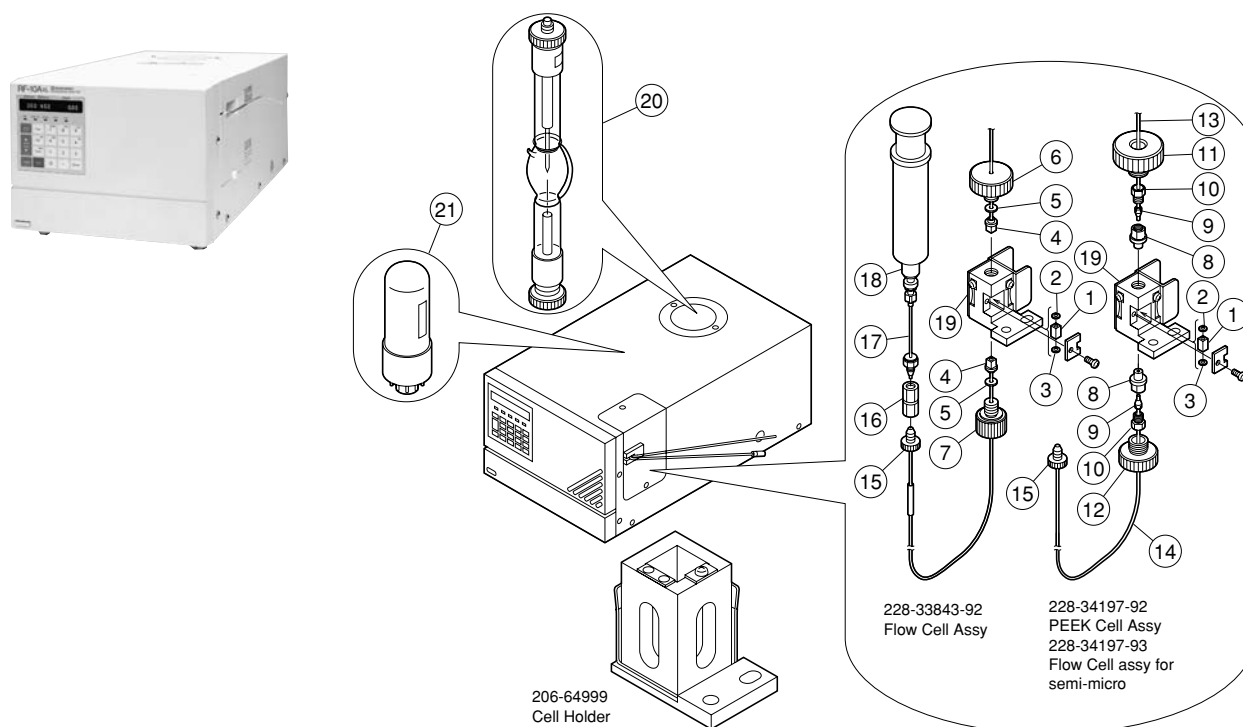


228-34186-91 Flow Cell for Semi-micro/M10A_{VP}



228-34174-91 Dummy Cell/M10A_{VP}

No.	Part No.	Description	No.	Part No.	Description
①	228-35097-95	Gasket, Flow Cell ...2/pkt	⑫	228-21385-02	Spacer, T-0.2
②	228-14572	Lens, R4, RD6	⑬	228-21385-05	Spacer, T-0.5
③	228-14569	Packing	⑭	228-00147-02	Optical Window, Quartz, UV Cell
④	228-14568	Retaining Screw, Lens	⑮	228-21387	Packing
⑤	228-14520	Retaining Screw, Cell	⑯	228-21386	Bushing
⑥	228-14571-84	Gasket, Teflon, ...2/pkt	⑰	228-15503	Spacer, PTFE for Cell Preparation
⑦	228-32998-02	Gasket, PTFE, i.d. 0.2 × o.d. 2.5 × 6	⑱	228-00147-03	Optical Window, Quartz, UV Cell
⑧	228-18058	Optical Window, Std. Cell	⑲	036-11402	O-Ring, PTFE
⑨	228-21383	Gasket, PTFE	⑳	228-03152	Cell Window Retainer
⑩	228-21384-02	Cell Window	㉑	228-35097-05	Gasket
⑪	228-21385-01	Spacer, T-0.1	㉒	228-23415-01	Gasket, Teflon, Flow Cell

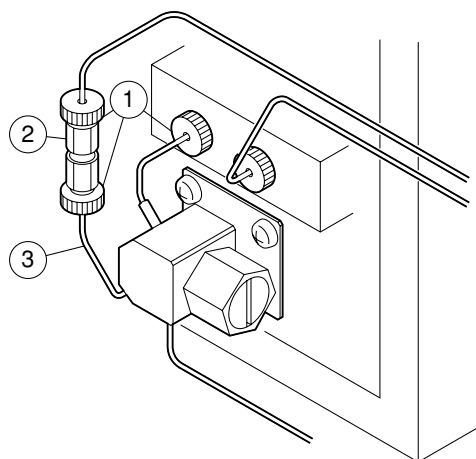


RF-10AxL

No.	Part No.	Description	No.	Part No.	Description
	228-33843-92	Flow Cell Assy		206-18232-01	Grating Assy (EX)
	228-34197-92	Flow Cell, Inert (Option)		206-18232-02	Grating Assy (EM)
	228-34197-93	Flow Cell, Inert Semi-Micro, 10AXL (Option)		206-18219	Condenser Mirror Assy
①	200-66504	Cell, RF Monitor		206-18235-91	Mirror Assy
	200-66553-02	Flow Cell (2μL)		228-33991-91	Beam Splitter Assy
②	228-34136-81	Packing, Cell, ...3/pkt		206-18244	Lens Assy (EX)
	228-34136-91	Packing, Semi-Micro, ...6/pkt		206-18244-01	Lens Assy (EM)
③	228-34137-81	Packing, Cell, ...3/pkt		228-33996-91	Photo Diode Assy
	228-34136-91	Packing, Semi-Micro, ...6/pkt		228-34214	Power Supply, 150W XE Lamp CE
④	228-33864-91	Cell Retainer Assy		208-94943-01	Cable, Xenon+HV
⑤	023-66130	Washer, SS, M3		228-40766-92	PCB Assy, FIP
⑥	228-33859	Thumb Screw, Upper		200-76094	Keyboard
⑦	228-33860	Thumb Screw, Lower		228-35209-91	RF-XL-CPU2 Assy
⑧	228-34024-01	Cell Retainer, for Inert		228-35240-91	RF-XL-HV2 Assy
	228-34024-02	Cell Retainer, for Semi-Micro		228-34211	Transformer, RF-10AxL
⑨	228-31638	Ferrule, 1.6F PEEK		228-34211-01	Transformer, RF-10AXL CE
⑩	228-33347	Nut		200-84605	Fan Motor, MMF09B24DH-R
⑪	228-34025	Set Screw, Upper		064-54753-01	Switch, JPZ2120-0301
⑫	228-34026	Set Screw, Lower		206-64578	Auto-Sensor Assy (EX)
⑬	228-34721-91	Tubing (OUT)		206-64578-01	Auto-Sensor Assy (EM)
⑭	228-34719-91	Tubing (IN)		228-33743-91	Leak Sensor Assy
	228-34719-92	Tubing (IN), Semi-Micro		228-23013-01	Key
⑮	228-18565	Male Nut, PEEK		072-02004-23	Fuse, 218,005 5A 250V
⑯	228-16004-03	Coupling 1.6C-04		072-02004-21	Fuse, 218,3.15 3.15A 250V
⑰	204-01647	Syringe Adapter		070-92025-51	Fiber Optic Cable, HFBR3600-1-021
⑱	046-00001	Syringe Glass, 10 mL		228-25089-92	Signal Cable, SPD-10A
⑲	228-33858	Cell Holder, RF-10AXL		228-34110-91	Signal Cable CE
⑳	228-34216	Xenon (XE) Lamp, 150W		071-60814-01	Power Supply Cable; AC Code, AC 100V/120V
㉑	200-75033	Photomultiplier, R212-14		071-60814-06	Power Supply Cable; AC Code, AC 220V/240V
	200-75021	Photomultiplier, R928-08 (Option)		200-94612	Screwdriver, DS-46
	200-75031	Photomultiplier, R3788 (Option)		228-18495-06	Tubing, ETFE, i.d. 0.3 × o.d. 1.6

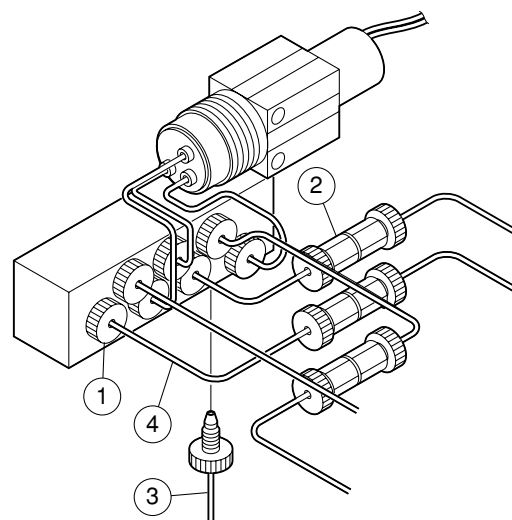


Part No.	Description	Part No.	Description
228-23009-98	Panel Assy, RID-10A	074-73306-01	Lithium Battery, CR2354-IHF
228-23673-02	Panel Switch 4441, RID	228-32445-91	Tungsten (W) Lamp Assy, RID-10A
228-33968-91	Switch Assy	228-38040-91	Magnetic Solenoid Valve
228-23527-91	P.C. Board, CPU Assy	228-33816-01	Tubing, MINSTAC
228-33806-91	ROM, RID-10A	228-33816-02	Tubing, MINSTAC
228-31627-91	PB-1 Assy	228-32004	Cell S-2
228-31837-91	PB-2 Assy	228-32057	Spacer, Cell
228-32578-91	PB-3A Assy, RID-10A	228-16447	Bulkhead Coupling
228-40766-91	P.C. Board, FIP Assy	228-16447-01	Coupling, OUT
228-33743-91	Leak Sensor Assy	228-16034	Nut, RID-6A
228-33738-91	Heater Assy	228-16033	Washer, SS, RID-6A
228-33738-92	Heater Assy	228-32017-91	S Cell Connection Assy
228-23013-01	Key	228-32018-91	R Cell Connection Assy
072-02004-23	Fuse, 218,005 5A 250V	228-24276	Holder, Tubing
072-02004-21	Fuse, 218,3.15 3.15A 250V	070-92025-51	Fiber Optic Cable, HFBR3600-1-021
228-32444-91	Light Source Block Assy	046-00001	Syringe Glass, 10 mL
228-32443-91	Slit Holder Assy	228-15672-91	Syringe Adapter
228-33748-91	Photo-Cell Assy, RID-10A	228-16004-03	Coupling 1.6C-04
228-33730-91	H-Zero Glass Assy	228-18565	Male Nut, PEEK
228-33732-91	V-Zero Glass Assy	228-18495-03	Tubing, ETFE, i.d. 1.0 × o.d. 1.6
228-32442-91	Mirror Assy	228-28253-91	Remote Cable Assy
228-15706	Mirror	071-60814-01	Power Supply Cable; AC Code, AC 100V/120V
228-34210-91	Linear Actuator Assy	071-60814-06	Power Supply Cable; AC Code, AC 220V/240V
228-33736-95	Limit Switch, RID-10A		



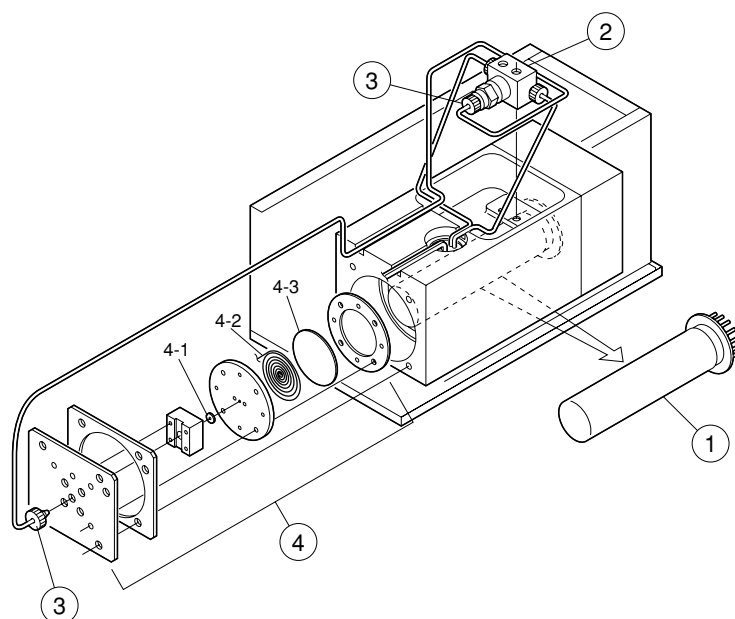
228-33615-91 Relief Valve Assy (Option)

No.	Part No.	Description
①	228-18565	Male Nut, PEEK
②	228-16004-01	Coupling 1.6C, for i.d. 0.8 mm
③	228-18495-03	Tubing, ETFE, i.d. 1.0 × o.d. 1.6

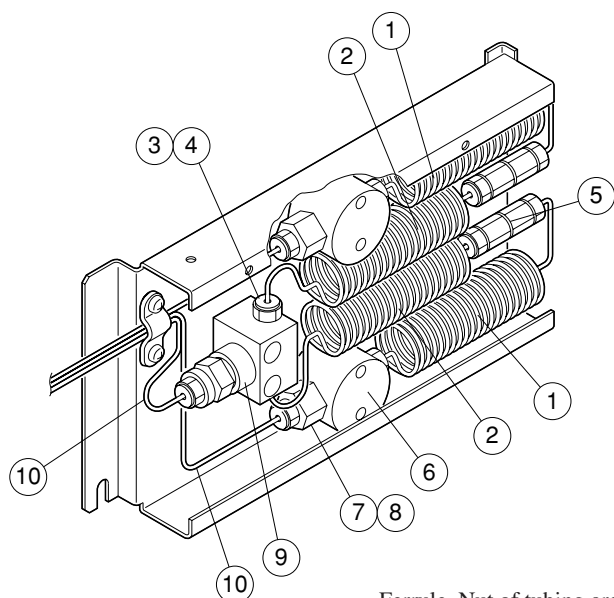


228-34102-91 Flow Selection Block (Option)

No.	Part No.	Description
①	228-18565	Male Nut, PEEK
②	228-16004-01	Coupling 1.6C, for i.d. 0.8 mm
③	228-18495-03	Tubing, ETFE, i.d. 1.0 × o.d. 1.6
④	228-18495-01	Tubing, ETFE, i.d. 0.8 × o.d. 1.6

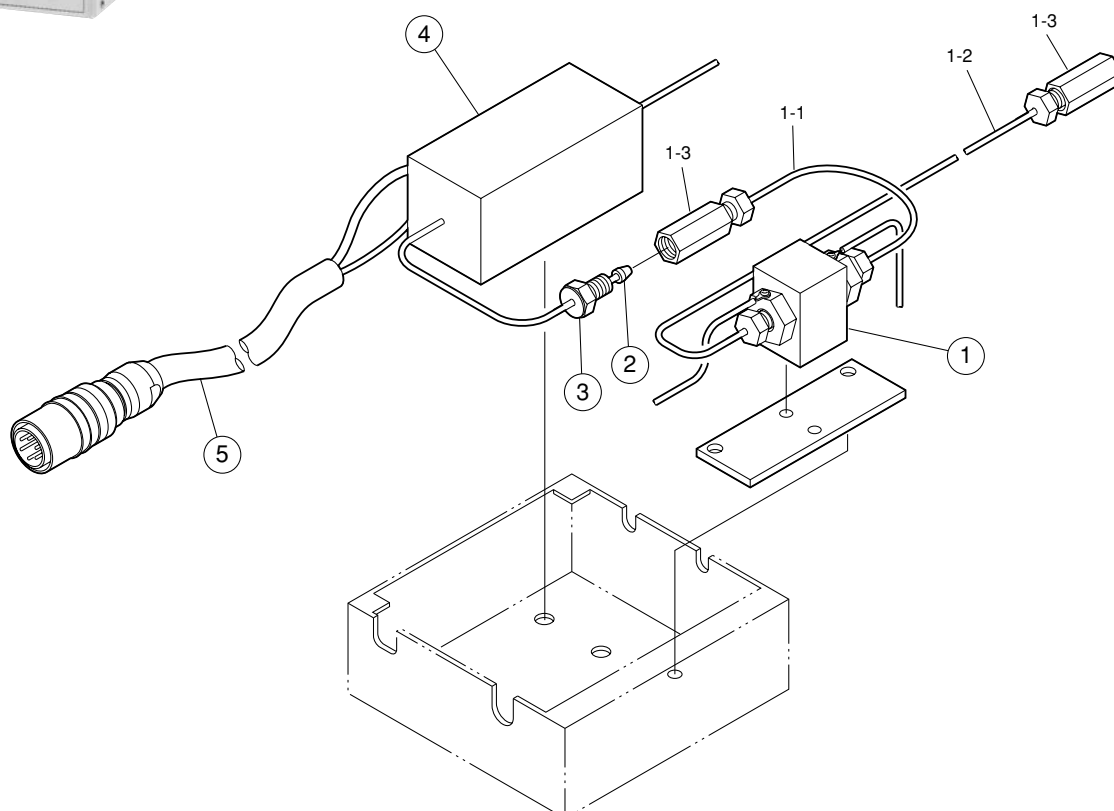


No.	Part No.	Description	No.	Part No.	Description
①	228-29327	Photomultiplier Tube, R268HA		228-23013-01	Key
②	228-24724-91	Pre-Mixer 2A Assy CLD		228-40766-91	P.C. Board, FIP Assy
	228-20331-93	Pre-Mixer C Assy		064-54753-02	Switch, JPZ2120-0101
③	228-18565	Male Nut, PEEK		228-24276	Holder, Tubing
④	228-24701-91	Cell Assy		228-25089-92	Signal Cable, SPD-10A
4-1	228-24773	Packing, Cell		070-92025-51	Fiber Optic Cable, HFBR3600-1-021
4-2	228-24774	Cell Tubing for CLD		228-28253-91	Remote Cable Assy
4-3	228-24777	Plate, for Cell Window		071-60814-01	Power Supply Cable; AC Code, AC 100V/120V
	061-74328	Thermistor, 103AT-2		071-60814-06	Power Supply Cable; AC Code, AC 220V/240V
	064-33043	Switch, Sensitive, S5HL2-1A9		046-00001	Syringe Glass, 10 mL
	072-02004-19	Fuse, 218,002 2A 250V		228-15672-91	Syringe Adapter
	072-02004-16	Fuse, 218,001 1A 250V		228-16004-03	Coupling 1.6C-04
	071-20031	Terminal, SQ-0204-02		228-16006	Plug 1.6P

**228-28114-91 Restrictor Tube Box Assy (Option)**

No.	Part No.	Description
①	228-28109	Restrictor Tubing 1
②	228-28110	Restrictor Tubing 2
③	228-16001	Male Nut 1.6mm
④	228-16000-84	Ferrule, 1.6F ...3/pkt
⑤	228-16004-03	Coupling 1.6C-04
⑥	228-16258	Block, for Filter (HS Filter)
⑦	228-12642-93	Line Filter F6 Assy
⑧	228-12564	Packing
⑨	228-24724-91	Restrictor Tubing Box Assy
⑩	228-36993-93	Tubing, SS, i.d. 0.8 × o.d. 1.6 × 2 m

Ferrule, Nut of tubing are ③, ④.



CDD-6A

No.	Part No.	Description	No.	Part No.	Description
	228-17200-91	Cell Assy, CDD-6A		228-16403-91	P.C. Board, PB-2 CD Assy
①	228-17653-91	Cell, Semi Assy, CDD-6A		064-48047	Switch, Key, FES-360-001
1-1	228-17654-91	Teflon Tubing Assy, CDD-6A		228-17230-91	P.C. Board, PB-4 CD Assy CDD-6A
1-2	228-17654-92	Teflon Tubing Assy, CDD-6A		228-16400-91	P.C. Board, PB-1 CD Assy
1-3	228-16445-02	Coupling T-S		228-17604-91	Transformer, CDD-6A
	228-17221	Spacer, CDD-6A		228-17604-92	Transformer Assy, 220V, CDD-6A
②	228-16000-84	Ferrule, 1.6F ...3/pkt		072-01024-01	Fuse, F7161 1.5A 125V
③	228-16001	Male Nut 1.6mn		072-01660-13	Fuse, ULCS-61M-1A 250V
④	228-17656-91	Temperature Control Block Assy		064-14144-15	Switch, JWA2120-0033
	061-74328	Thermistor, 103AT-2		228-17659-91	Tubing, for Preheating
⑤	228-17657-91	Wiring Assy, CD Signal, CDD-6A		046-00003	Syringe, 10 mL, with Locking Needle
	228-16406-91	P.C. Board, PB-3 CD Assy		228-15672-91	Syringe Adapter



228-34350-91 System Controller SCL-10A^{VP}

No.	Part No.	Description	No.	Part No.	Description
	072-02004-19	Fuse, 218,002 2A 250V		228-34505-91	PB-SCL5 Assy
	072-02004-22	Fuse, 218,004 4A 250V		228-35307-91	Terminal for Event Cable
	228-35070	Event Cable Harness, for SCLVP		074-80678-03	Power Supply, LDA10F-5
	228-35072-91	Event Cable Assy CE		064-54753-02	Switch, JPZ2120-0101
	228-35071-91	AC Remote Cable		078-12114-11	LCD, DMF-50174
	228-35071-92	AC Remote Cable Assy CE		074-73307-01	Lithium Battery, CR2032
	228-35224-95	SCL CPU Assy		228-35069	FDD, MF355F-2250MG
	228-34363-91	PB-SCL2 Assy		228-34565	Keytop 1, SCL
	228-34366-91	PB-SCL3 Assy		228-34566	Keytop 2, SCL
	228-34369-91	PB-SCL4 Assy		228-23517-91	P.C. Board, PC-4 Assy (Option)



Option Box ^{VP}

228-34708-91 Option Box ^{VP}
228-35308-91 Sub-controller

No.	Part No.	Description
	070-92025-51	Fiber Optic Cable, HFBR3600-1-021
	228-34586-91	PCB, Sub-Controller VP
	228-39247-92	Leak Sensor
	228-35605-92	Option Box VP CPU Assy
	228-35606-91	Monitor VP ROM Assy



Option Box L

228-35720-91 Option Box L

No.	Part No.	Description
	065-61968-52	Relay, G2R-1-SD DC5V
	071-60260	Receptacle, 1132A
	071-60114	Receptacle, BERKER#4020
	228-25382-91	Relay Cable, Option Box L
	071-20031	Terminal, SQ-0204-02
	072-01214-06	Fuse, FGBO 10A 125V
	072-02004-23	Fuse, 218,005 5A 250V
	228-24954-91	P.C. Board, PC-1 Subcon
	070-92025-51	Fiber Optic Cable, HFBR3600-1-021
	074-80363-01	Power Supply Unit, SLM50224

228-31713-91 Valve Interface Unit

No.	Part No.	Description
	228-31497-91	P.C. Board, PC-1, Valve I/F Assy
	228-31525-91	P.C. Board, PC-2, Valve I/F Assy
	070-92025-51	Fiber Optic Cable, HFBR3600-1-021
	074-80363-01	Power Supply Unit, SLM50224



Valve Interface Unit



228-35327-91 Power Terminal Unit

Part No.	Description
072-01214-06	Fuse, FGBO 10A 125V
072-01671-16	Fuse, GBA-15 15A
072-02004-23	Fuse, 218,005 5A 250V
065-61968-52	Relay, G2R-1-SD DC5V
071-60114	Receptacle, BERKER#4020
071-60260	Receptacle, 1132A
228-25382-91	Relay Cable, Option Box L

※ 228-35684-91 Cable Kit, System Power Supply (Option)
Incl. Cable 1m × 6pcs, Cable clamp



223-04451-xx CBM-10A

Part No.	Description	Part No.	Description
072-02004-22	Fuse, 218,004 4A 250V	228-23451-93	P.C. Board, PC-1 Assy
072-02004-19	Fuse, 218,002 2A 250V	228-28250-91	Rear Panel, RC-6
670-10232-02	Cable, RS-485 3 m	223-03027-90	ROM, CBM-10A Odd
221-25536-90	Signal Input Cable	223-03028-90	ROM, CBM-10A Even
071-33099-02	Terminal, Block, LC-02-30T6-3P	064-54753-02	Switch, JPZ2120-0101
221-14122-91	Grounding Wire	074-80623-11	Power Supply Unit, P30E-5-N
071-60814-01	Power Supply Cable; AC Code, AC 100V/120V	223-02427-90	DMA Cord Assy, SCSI
071-60814-06	Power Supply Cable; AC Code, AC 220V/240V	223-02888-90	Cord Assy, 5V
071-60813	Adapter, KPR-18	228-25258-91	Cable C Assy
223-02651-93	PCB, PC-101N Assy, w/ Rom, GC-17, QP-5000	228-23013	Power Key
223-02657-90	P.C. Board, PC-102N		

223-04241-91 CBM-10A Lite

Part No.	Description	Part No.	Description
072-02004-22	Fuse, 218,004 4A 250V	071-60813	Adapter, KPR-18
072-02004-19	Fuse, 218,002 2A 250V	223-02651-93	PCB, PC-101N Assy, w/ Rom, GC-17, QP-5000
670-10232-02	Cable, RS-485 3 m	223-02657-90	P.C. Board, PC-102N
221-25536-90	Signal Input Cable	223-03027-90	ROM, CBM-10A Odd
071-33099-02	Terminal, Block, LC-02-30T6-3P	223-03028-90	ROM, CBM-10A Even
221-14122-91	Grounding Wire	064-54753-02	Switch, JPZ2120-0101
071-60814-01	Power Supply Cable; AC Code, AC 100V/120V	074-80623-11	Power Supply Unit, P30E-5-N
071-60814-06	Power Supply Cable; AC Code, AC 220V/240V	228-23013	Power Key

Part No.	Description	Notice
223-05231-92	CLASS-VP, Single (E)	English
223-05233-92	CLASS-VP, Multi (E)	English
223-04202-91	2 Channel Module, PC-55N C-R7A GLP	SCL-10AVP option, A/D Board, for analog signal input
228-34164-91	PCI Board M10AVP (J)	Japanese Incl. 2m cable
228-34164-92	PCI Board M10AVP (E)	English Incl. 2m cable
228-34164-93	PCI Board M10AVP, CE	English Incl. 2m cable (CE)
228-34359-91	SCSI Board	
228-35397-90	Cable, RS-232C, for PC, 10 m	} 9 Pin Female – 9 Pin Female (SCL-10AVP to PC linkage)
228-35397-92	Cable, RS-232C, for PC, 2 m	
228-35397-93	Cable, RS-232C, for PC, 3 m	
228-35397-95	Cable, RS-232C, for PC, 5 m	
228-34169-91	Cable, SCSI, for PCI, 2 m	} High Density 50 Pin Male – Centronics 50 Pin Male * 1
228-34169-92	Cable, SCSI, PCI CE	
228-34169-94	Cable, SCSI, for PCI, 4 m	
228-34169-96	Cable, SCSI, for PCI, 6 m	
670-10231-01	Cable, SCSI 0.7	} Centronics 50 Pin Male – Centronics 50 Pin Male * 2
670-10231-02	Cable, SCSI, for SCL, 1 m	
670-10231-03	Cable, SCSI, for SCL, 2 m FCB-YY0012	
670-10231-04	Cable, SCSI, for SCL, 3 m	
670-10231-05	Cable, SCSI, for SCL, 4 m	
670-10231-06	Cable, SCSI, for SCL, 5 m	

Connector types of SCSI cable

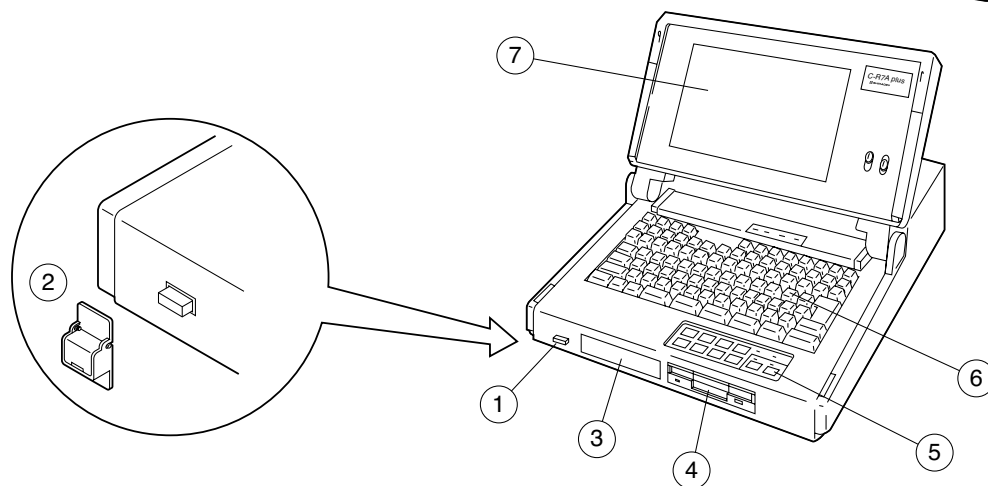
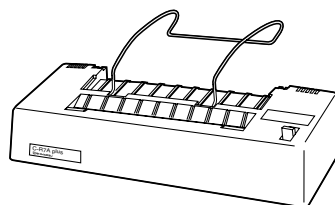
- * 1. High Density 50 Pin Male (D-sub half)
- For PCI card on Personal computer



- * 2. Centronics 50 Pin Male
- For SPD-M10A_{VP}
 - For SCSI board on SCL-10A_{VP}



Part No.	Description	Notice
228-34276-91	CLASS-M10A DOS/V	Japanese
228-34276-92	CLASS-M10A 3.5 IBM	English
228-34277-91	CLASS-M10A UP1.6 DO3	Japanese
228-34277-92	CLASS-M10A UP1.6 AT3	English
228-21313-91	P.C. Board, PB-1 Assy	For changing NEC 98 Series to DOS/V (IBM-PC/AT)
223-04177-91	CLASS-LC10/M10A/GC10 (J)	Japanese, For secondary licence program
223-04177-92	CLASS-LC10/M10A/GC10 (E)	English, For secondary licence program
223-04210-91	H/W Validation, CBM (J)	Japanese
223-04210-92	H/W Validation, CBM (E)	English
223-04323-91	GPC SOFT 3.5 JPN 1.44MB J	Japanese
223-04323-93	GPC Option	English
223-04306-91	LC10A System Check Class	Japanese
223-04306-92	CLASS-LC10 System	English
223-04262-91	S/W CLASS SST J 3.5	Japanese
223-04262-92	System Suitability Software	English
223-04333-91	CLASS-LC10 DB Manager	Japanese CLASS-LC10/GC10
223-04333-92	CLASS-LC10 DB Manager (E)	English CLASS-LC10/GC10
223-04391-91	Database Manager Upgrade Kit (J)	Japanese
228-23517-91	P.C. Board, PC-4 Assy	CBM-10A option ; provides 4 additional fiber optic ports.
223-04202-91	2 Channel Module, PC-55N C-R7A GLP	CBM-10A option, A/D Board, for secondary channel analog signal input.
221-26823-90	SEL-2	
221-21193-91	Digital I/O Board	
670-10232-03	Cable, Sailnet	} Sailnet cable, CBM-10A to PC linkage or CBM-10A to CBM-10A linkage.
670-10232-04	Cable, RS-485, 10 m	
670-10232-05	Cable, Transmitter, 20 m	
670-10232-06	Cable, Sailnet, 30 m	
670-10232-07	Cable, Sailnet, 40 m	
670-10232-08	Cable, Transmitter, 50 m	
670-10232-09	Cable, Transmitter, 60 m	
228-32176-92	DryLab/LC (J)	
228-32176-93	DryLab/LC Easy (J)	
228-32176-94	DryLab Upgrade (J)	Upgrade kit from DryLab/LC Easy to DryLab/LC



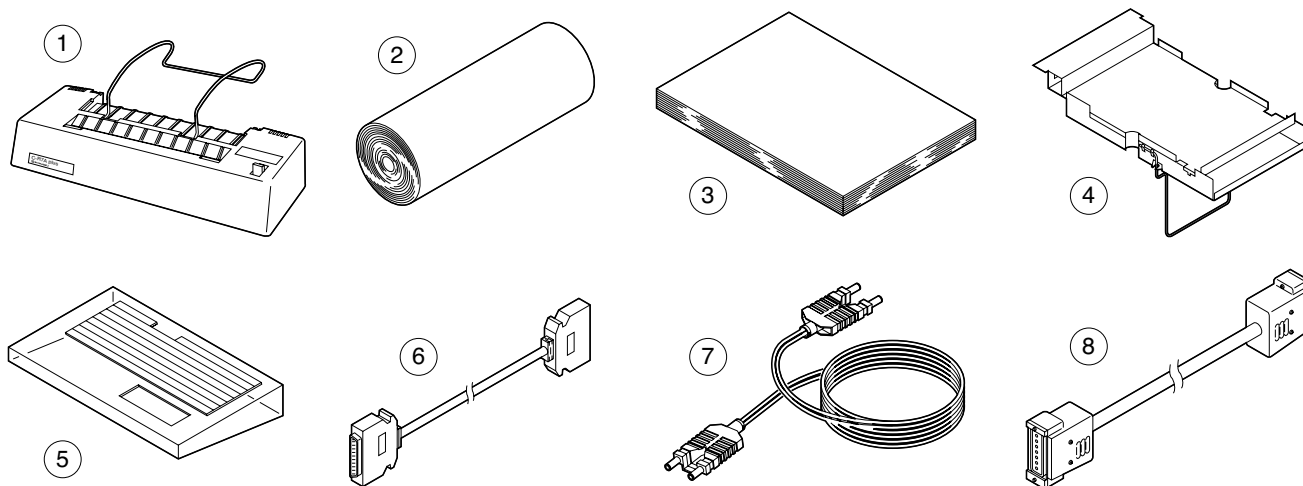
C-R7A plus The Main Body

No.	Part No.	Description	No.	Part No.	Description
①	064-54753-02	Switch, JPZ2120-0101		074-73307-01	Lithium Battery, CR2032
②	223-04083-90	Switch Cover Assy, C-R7A		074-80614-56	Power Supply Unit, MMB75U-2-J
③	223-04235-91	HDD Assy		074-80623-21	Power Supply Unit, P30E-5-NJ
④	088-51060-05	FDD, YD-702D-6539D-02		074-80622-24	Power Supply Unit, P50F-24-NJ
⑤	223-03161	Keyboard, FP6-SZ16-A, C-R7A		072-02004-22	Fuse, 218,004 4A 250V
⑥	670-18257-90	Sheet Key, N860-7510-T001		072-02004-19	Fuse, 218,002 2A 250V
	670-18257-91	Sheet Key, N860-7510-T002		071-60814-01	Power Supply Cable; AC Code, AC 100V/120V
	223-03008-90	P.C. Board, PC-112N, C-R7A		071-60814-05	Power Supply Cable; AC Code, AC 200V
⑦	223-05480-92	Display Assy		071-60813	Adapter, KPR-18
	078-12141-01	LRUGB608 × A		221-14122-91	Grounding Wire
	223-05365-91	PCN, PC-119N Assy		221-25536-90	Signal Input Cable
	223-02948-90	P.C. Board, PC-111N		228-23013	Power Key
	223-02948-91	P.C. Board, PC-111N, C-R7A (E)		071-33099-02	Terminal, Block, LC-02-30T6-3P
	223-03251-90	P.C. Board, PC-116N-R7A		071-20031	Terminal, SQ-0204-02
	223-02340-90	P.C. Board, PC-53N		223-04219-90	Disk, C-R7A plus System (J)
	223-03465-90	Fan Assy, C-R7A		223-04219-91	Disk, C-R7A plus System (E)
	223-03474-90	DMA Cable Assy			

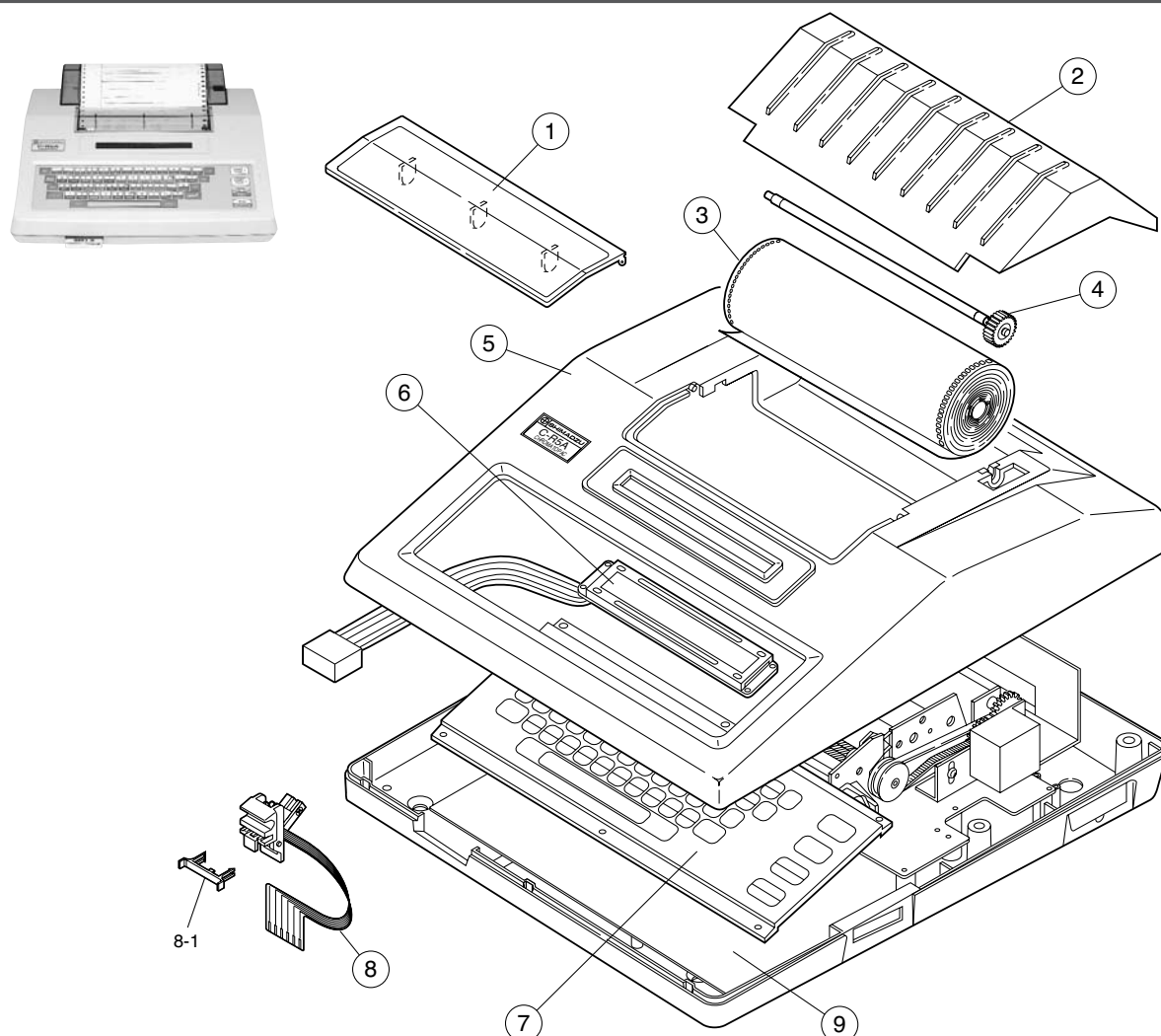
(Note) In case of exchanging display LM64P402 or LM64135Z, please use ⑦ 223-05480-92 Display Assy

C-R7A plus Printer Parts

No.	Part No.	Description	No.	Part No.	Description
	223-04170-90	PC-118N Assy		223-04203-90	Head Switch Assy
	223-04161-90	Chart Motor Assy, C-R7A		221-27012	Chart Shaft
	223-04154-90	Thermal Head Assy		670-10231-01	Cable, SCSI 0.7
	223-04158-90	Platen Assy, C-R7Aplus		061-71540	Photointerrupter, GP2A18F
	223-04230-81	Chart Paper			

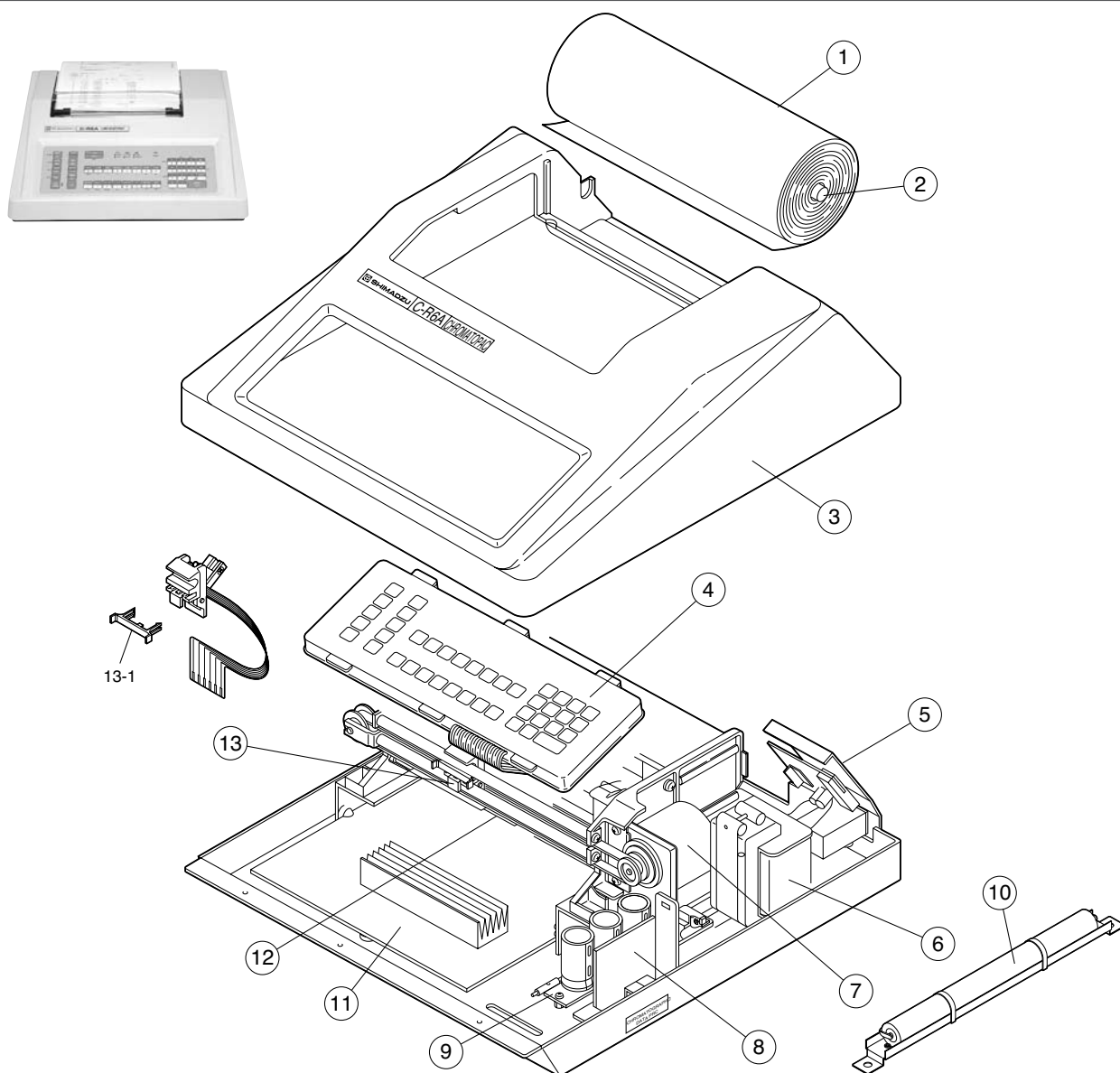


	Part No.	Description	Notice
①	223-04260-91	Printer Kit, C-R7A plus	Incl. System Disk
	223-04260-92	Printer Unit Kit, C-R7A plus	Incl. System Disk
②	223-04230-81	Chart Paper	Length 50m × 10pcs. in a box
	223-04231-81	Roll Chart (Anti-Fade), 10 Rolls	Length 50m × 10pcs. in a box
③	223-04232	Z-fold Chart, F2330-AA	2000 pages
	223-04233	Z-fold Chart, AFP-235	2000 pages
④	223-04167-90	Z-Fold Chart Option Assy	
⑤	223-03648	Key Board Cover, C-R7A	
⑥	670-10231-03	Cable, SCSI, for SCL, 2 m FCB-YY0012	
⑦	070-92025-51	Fiber Optic Cable, HFBR3600-1-021	
	070-92025-52	Fiber Optic Cable (2 m), HFBR3600-2-021	
	070-92025-53	Fiber Optic Cable (3 m), HFBR3600-3-021	
	070-92025-54	Fiber Optic Cable (5 m), HFBR3600-5-021	
⑧	223-13003-90	Cable, RS-232C, 2 m DTE	} 25 Pin male – 25 Pin male, cross
	223-13003-91	Cable, RS-232C, 5 m DTE	
	223-13003-93	Cable, RS-232C, 15 m DTE	
	088-58571-11	Disk, Floppy, MF2-256HD	
			Incl. 10pcs.



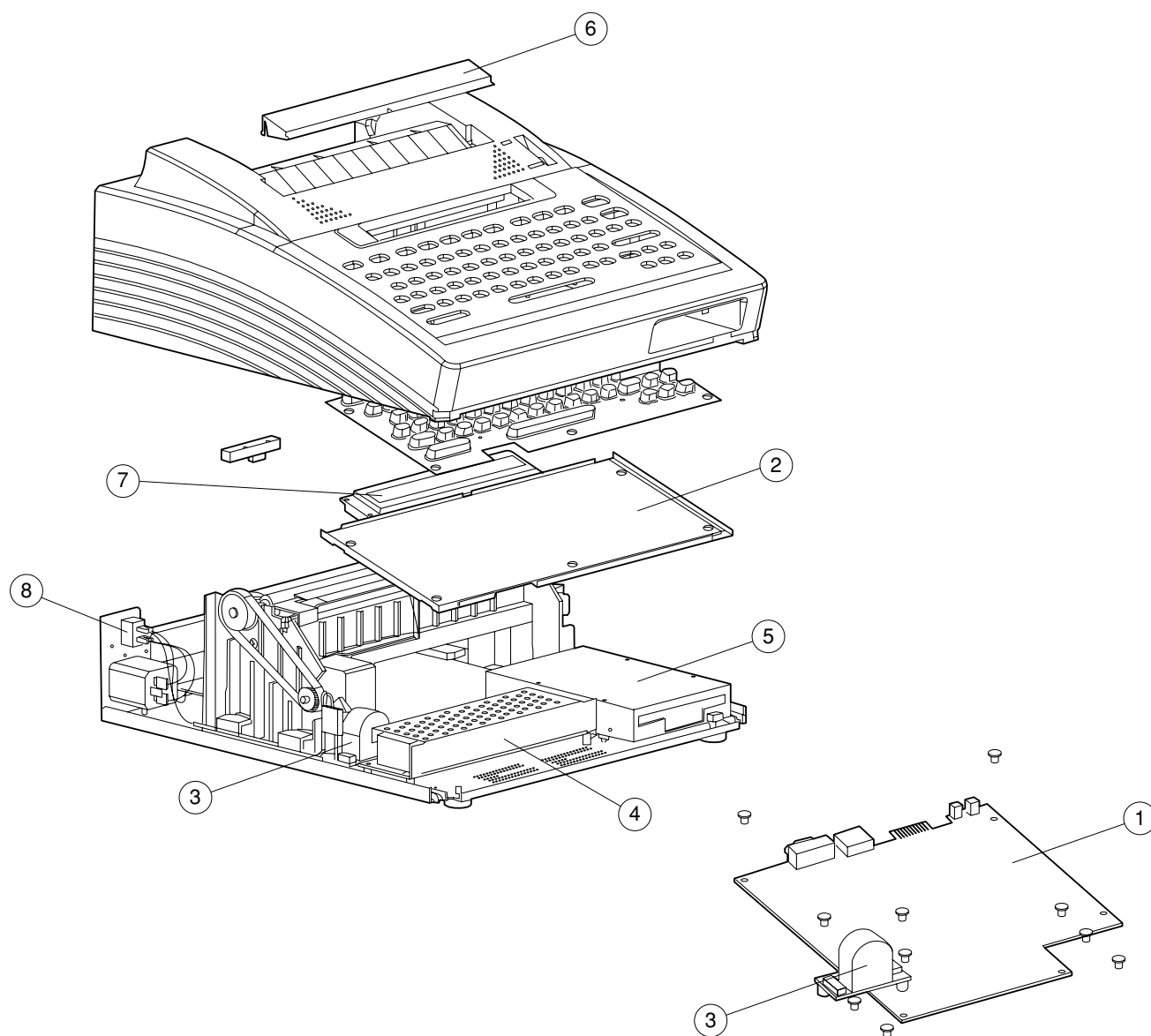
C-R5A

No.	Part No.	Description	No.	Part No.	Description
①	223-01977	Paper Cutter		032-21925-02	Belt, Timing, 114MXL 4.8 UK
②	223-01981	Cover, Chart		032-22046	Belt, Timing, T5-05-115
③	223-02037-81	Thermal Paper, Perforated, ...10/pkt		223-02088-90	Platen Assy
	223-02037-82	Thermal Paper, ...10/pkt		221-25363-90	Detector, Home (Position)
	223-04300-81	AF Chart, R5A (w/ Perforation)		223-02136-90	Chart Detection Assy
	223-04300-82	AF Chart, R5A (w/o Perforation)		064-32629-01	Switch, V-5510E
④	223-02094-90	Chart Shaft Assy, C-R5A		064-32921	Actuator, VAV5
⑤	223-01982	Case, Upper		223-01881	Transformer
⑥	223-02096-90	LCD Assy		223-02166-90	LED Assy, C-R5A
⑦	223-01985	Key (406)		064-14534-22	Switch, HLS208K-R
⑧	221-25362-92	Thermal Head, CR-3A, 5A, 6A		075-00071-34	Filter, Noise, FN378-2122
8-1	223-01867	Hook (6A)		072-01667-14	Fuse, 1A
⑨	223-01856-90	P.C. Board, PC-81N Assy		223-02363-90	IC Board, MF332A-M4DAP
	223-02090-90	Pen Motor Assy		223-02164-91	IC, ROM-1, C-R5A
	223-02177	Motor, STH-39D158		223-02164-92	IC, ROM-2, C-R5A
	223-02089-90	Chart Motor Assy		223-01963-91	Cable Assy, 34P/EXP-3
	223-02217	Motor, STH-39D111-01		071-33099-02	Terminal, Block, LC-02-30T6-3P



C-R6A

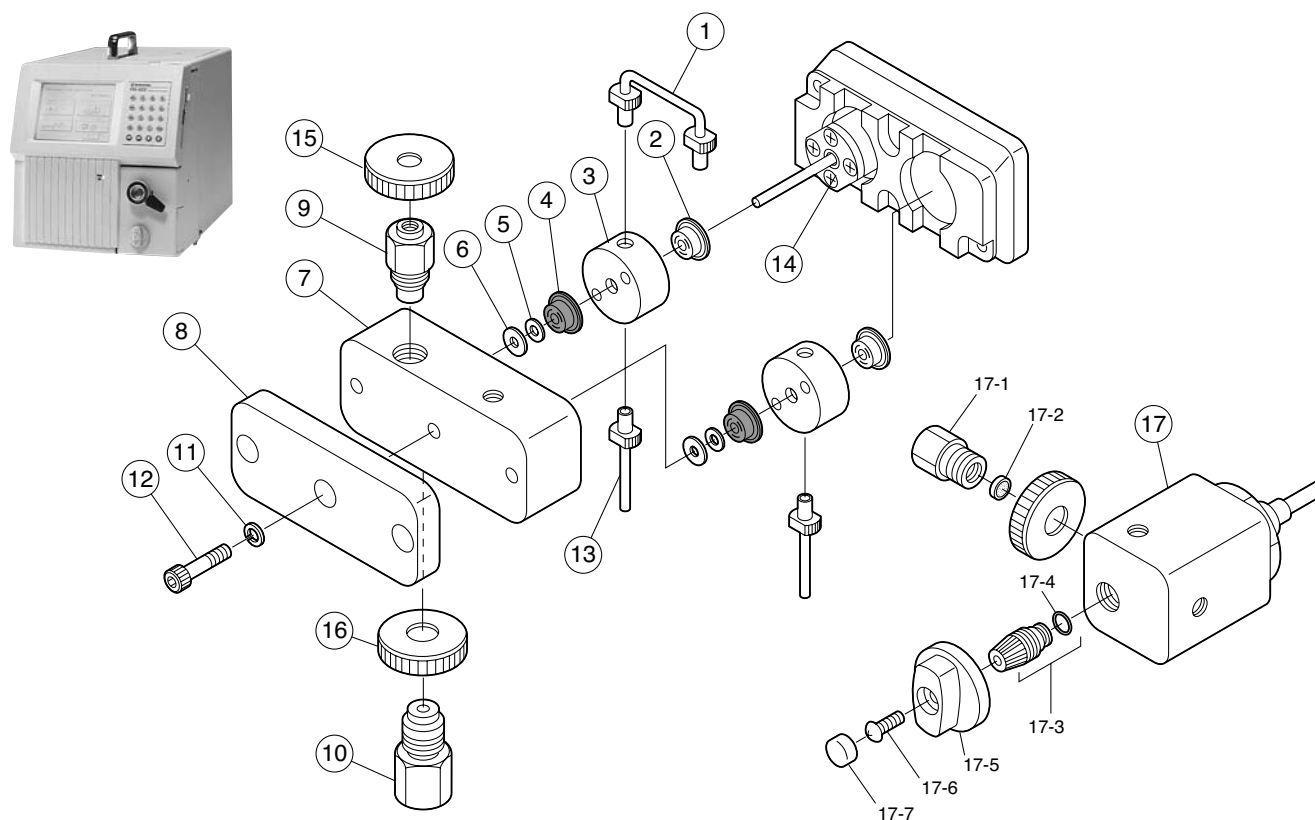
No.	Part No.	Description	No.	Part No.	Description
①	221-25412	Thermal Paper, TR-4	⑫	032-22047	Belt, Timing, T5-05-120
	221-25412-84	Thermal Paper (20 Rolls)	⑬	221-25362-92	Thermal Head, CR-3A, 5A, 6A
	223-04231-81	Roll Chart (Anti-Fade), 10 Rolls	13-1	223-01867	Hook (6A)
②	221-27012	Chart Shaft		221-25363-90	Detector, Home (Position)
③	223-02125	Cover, Case (6A)		032-22032	Belt, Timing, T5-05-5
④	223-02105	Keyboard (6A)		221-24970	Roller, Rubber, TR-4
⑤	221-25553-90	PCB, PC-33N Assy		223-02694	Motor Assy, STH55D229
⑥	221-25531-90	Transformer Assy, CR-3A		072-02004-16	Fuse, 218,001 1A 250V
⑦	077-79091	Motor, 3220-9212		072-02004-13	Fuse, 218,500 5A 250V
⑧	221-25556-90	PCB, PC-34N Assy		223-03102-91	IC, ROM 1 PC-31NA
⑨	221-25552-90	PCB, PC-32N Assy		223-02149-90	IC, ROM-2, C-R6A
⑩	221-25526-90	Battery (w/ Holder)		221-25536-90	Signal Input Cable
⑪	223-02336-92	PCB, PC-31NA Assy, w/ Rom		071-33099-02	Terminal, Block, LC-02-30T6-3P



C-R8A

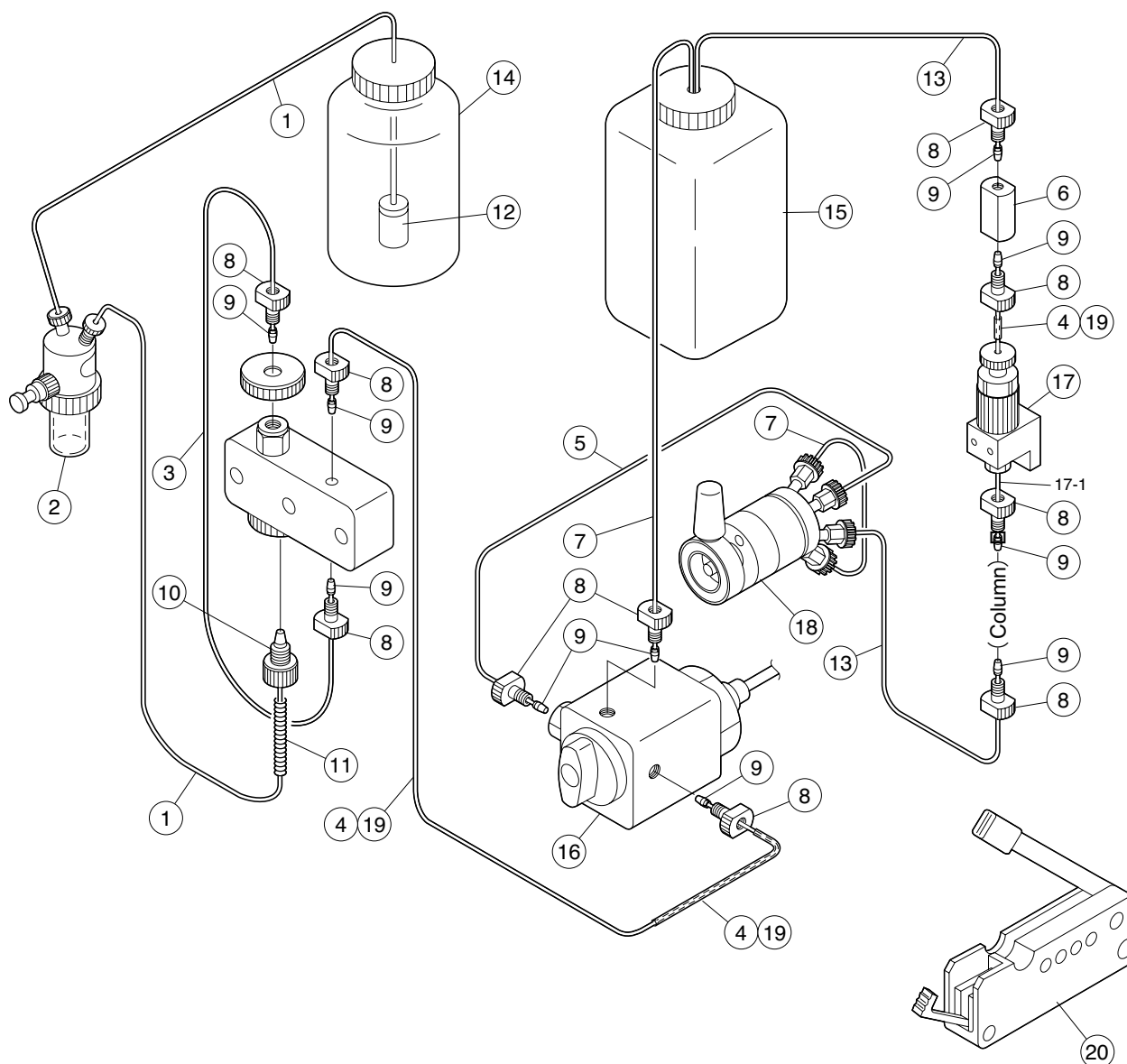
No.	Part No.	Description	No.	Part No.	Description
	223-04230-81	Thermal Paper (10/pkt)	④	074-80383-38	Power Supply, ZWS50-24J
	223-04231-81	Roll Chart (10/pkt)	⑤	228-35069-01	FDD
	223-04516-92	Thermal Head		074-73307-01	Lithium Battery
	223-04518-91	Platen Assy		061-71540-01	Photointerrupter, GP1A18S
	223-04519-91	Motor Assy	⑥	223-04511	Chart Cutter
	223-04513	Keytop		223-04548-91	Cable Assy I/O
	223-04522-91	U/D Sensor Assy	⑦	223-04568-91	LCD ASSY
①	223-04532-91	PC-121N	⑧	064-14144-15	Switch, JWA2120-0033
②	223-04534-91	PC-122N		221-27012	Chart Shaft
③	223-04588-91	PC-123N		221-25536-90	Input code Assy

Part No.	Description	Notice
223-02983-91	RS-232C I/F Board; Connected with Optical Link, PC-56N	For secondary channel analog signal input
223-04202-91	2 Channel Module, PC-55N C-R7A GLP	
228-21204-91	Current Loop I/F	
221-26823-90	SEL-2	Needed in using FCV-100B, etc.
221-21193-91	Digital I/O Board	
223-02363-90	IC Board, MF332A-M4DAP	
223-04103-91	H/W Validation, C-R7A (J)	Japanese For C-R7A/4A
223-04103-92	H/W Validation Program (J)	English For C-R7A/4A
223-03736-91	GPC Program for, C-R7A (J)	Japanese
223-03736-92	GPC Program for, C-R7A (E)	English
223-03852-91	MS-CONV, C-R7A (J)	Japanese
223-03852-92	MS-CONV, C-R7A (E)	English
223-04190-91	LC Network Program, C-R7A (J)	Japanese For LC-10A series, 10A mode in VP series
223-04190-92	LC Network Program, C-R7A (E)	English For LC-10A series, 10A mode in VP series
223-03727-91	3CH Optical Link Interface	Japanese For LC-10A series, 10A mode in VP series
223-04295-91	LC-10A System Check Pac (J)	
223-04295-92	LC-10A System Check Pac (E)	
223-02476-91	S/W Package (IC Board Kit), C-R5A	Japanese
223-02476-92	S/W Package (IC Board Kit), C-R5A	English
221-25541-90	Case, 6 Slot Expansion, 100/115V	For C-R6A
223-01962-90	Case, 3 Slot Expansion R5A	For C-R5A
221-26850-90	Case, 3 Slot Expansion	For C-R6A
223-04592-91	Case, 2 Slot Expansion	For C-R8A
223-02012-91	Expansion ROM Board, C-R3A	For C-R6A
223-01320-10	AZA-2	9 Pin female – 25 Pin male PC to PAC linkage, SCL-10AVP to PAC linkage (Chromatopac Manager)
221-17084-90	PRG-102A	
221-25536-90	Signal Input Cable	
228-35398-90	Cable, RS-232C, PAC 10 m	
228-35398-92	Cable, RS-232C, PAC 2 m	
228-35398-93	Cable, RS-232C, PAC 3 m	
228-35398-95	Cable, RS-232C, PAC 5 m	
223-13164-90	Cable, RS232C25-25, 2 m	25 Pin female – 25 Pin male PC (25 Pin male) to PAC linkage (Chromatopac Manager)
223-13164-91	Cable, RS232C25-25, 5 m	
223-13164-92	Cable, RS232C25-25, 10 m	
223-13164-93	Cable, RS232C25-25, 15 m	
088-50615-02	I/F Board, Expansion, RS-232C	8 port × 25 Pin male, PCI type
088-50831-22	I/F Board, Expansion, RS-232C	1 port × 9 Pin male, PCMCIA type 2
223-18100-91	Chromatopac Manager (J)	Japanese
223-18100-92	Chromatopac Manager (E)	English
223-18038-91	CLASS-PR10	Post-run software for chromatography
223-18112-91	Software, Qualitative Chromatographic	



PIA-1000 Pressure Sensor/Pump

No.	Part No.	Description	No.	Part No.	Description
①	228-32135-91	Tubing, Rinse, U Assy	17-7	228-24188	Cap
②	228-28499	Plunger Seal, PE, LC-10AS		228-31969-91	P.C. Board, PB-1 Assy, PIA-1000
③	228-32954	Seal Holder		228-33025-91	ROM PIA PB-1
④	228-21975-91	Seal, PE 230106406-1		228-32293-91	PCB, Black Panel, ADJ.
⑤	228-32401	Spacer i.d. 3.2 × o.d. 6.3		228-33013	Power Supply, LS50-12V
⑥	228-32325-01	Spacer i.d. 3.2 × o.d. 7.7		228-33013-01	Power Supply, LU50-220V
⑦	228-32598	Pump Head		228-33004-91	Heater Assy
⑧	228-32187	Head Retainer		064-14144-15	Switch, JWA2120-0033
⑨	228-32798-91	Check Valve (OUT), 10Ai		072-02004-19	Fuse, 218,002 2A 250V
⑩	228-32792-91	Check Valve (IN), 10Ai		072-02004-16	Fuse, 218,001 1A 250V
⑪	022-77040	Washer		228-28288-91	Photosensor 10A Assy
⑫	022-27053	Bolt, Hex SST, i.d. 4 × o.d. 30		228-36293-91	LCD Assy
⑬	228-18866-91	Rinse Tubing A		228-32990-91	Keypad
⑭	228-32654-91	Plunger Case Assy		228-32251-91	PCB Assy, PIA, CPU
⑮	228-33301-02	Cap, 10		228-40668-91	FDD Assy
⑯	228-33302-02	Cap, 13		228-32317	Panel Switch, PIA
⑰	228-32803-92	Pressure Sensor Assy, PEEK, PIA		071-60814-01	Power Supply Cable; AC Code, AC 100V/120V
17-1	228-33265	Filter Housing, LC-10Ai		071-60814-06	Power Supply Cable; AC Code, AC 220V/240V
17-2	228-32744	Filter, Pat Frit, 5µm		228-18216-91	Needle Assy, for Syringe
17-3	228-28317-93	Shaft Packing Assy, 10AT		046-00038-01	Syringe, L-208, 20 mL
17-4	670-11518	O-Ring, Perfluoro, P5		228-25142	Seal Remover 10A
17-5	228-24189	Knob		228-23875	Bottle Holder
17-6	020-37054	Screw, i.d. 4 × o.d. 8		228-11725-84	Vial, ...10/pkt

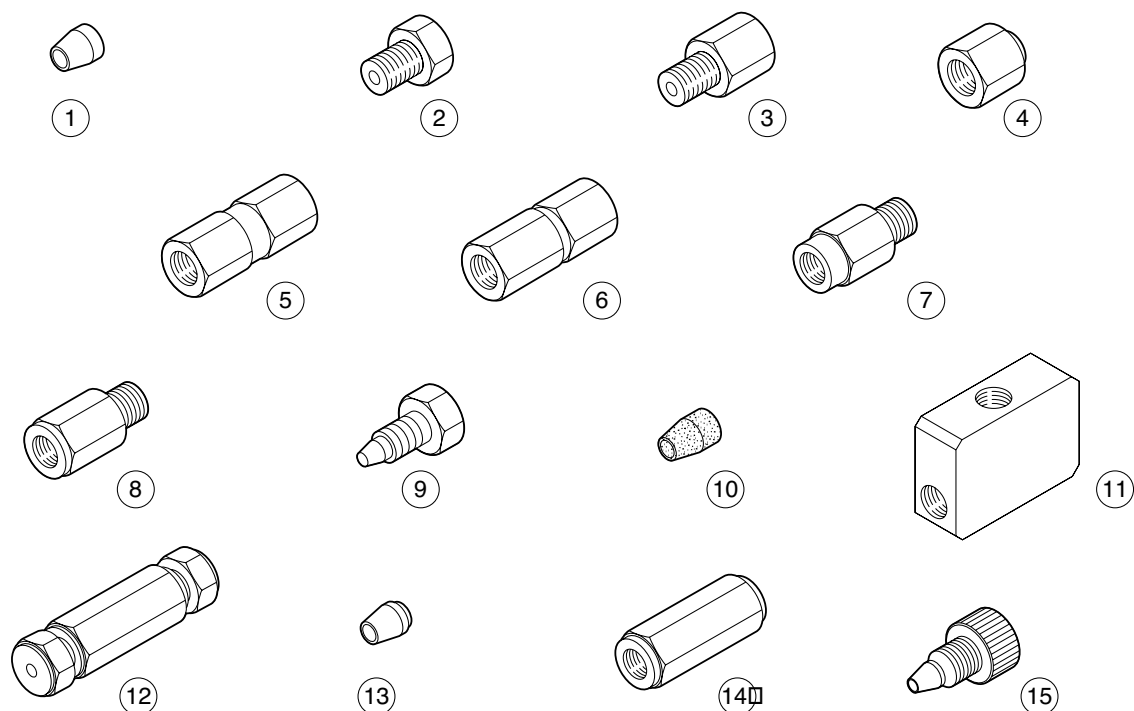


PIA-1000 Flow Line

No.	Part No.	Description	No.	Part No.	Description
①	670-10321-03	Tubing, FEP, 3 mm × 2 mm × 2 m	⑫	228-25079-91	Element, Ceramic, Solvent Reservoir Filter
②	228-23675-91	Bubble Trap	⑬	228-32999-01	Tubing, PEEK
③	228-32806-91	Tubing Assy, PRI-SEC	⑭	228-33028	Bottle, Mobile Phase, 500 mL
④	670-10324-01	Tubing, PEEK, i.d. 0.25 × o.d. 1.6	⑮	228-33029	Bottle, Special Type
⑤	228-33015-91	Tubing Assy, Sen-INJ	⑯	228-32803-92	Pressure Sensor Assy, PEEK, PIA
⑥	228-25014	Male Connector, PEEK	⑰	228-32545-91	Cell Assy, PIA-1000
⑦	228-18495-03	Tubing, ETFE, i.d. 1.0 × o.d. 1.6		228-33074	Spacer, PEEK
⑧	228-33213	Male Nut 1.6mn-2, PEEK	17-1	228-33014-91	Tubing Assy, Column-Cell
⑨	228-31638	Ferrule, 1.6F PEEK	⑱	228-33021-91	Sample Injector 9725i
⑩	228-18555	Bushing, 3D	⑲	016-37722-06	Tubing, FEP, NLF016
⑪	228-12654	Coil Spring	⑳	228-32930-01	Tubing Cutter, Clean-cut

Options

Part No.	Description	Notice
228-33040-91	Battery Assy PIA-1000	
228-33045-91	Battery Changer PIA-1000	For recharge
228-33357-91	Battery Box, PIA-1000	For fixing a battery behind PIA
228-33041-91	DC Power Supply Cable	For connecting to cigar lighter when using car battery
228-33608-91	Restrictor Tubing for P2A Measure	For inspecting PIA
228-33608-92	Restrictor Tubing for PIA, 150	For inspecting PIA
228-32651-15	Sample Loop, 50 μ L	For sample injector
228-32651-16	Sample Loop, 100 μ L	For sample injector
228-32651-18	Sample Loop, 500 μ L	For sample injector
228-32651-19	Sample Loop, 1 mL	For sample injector
228-33681-91	Start Up Kit, PIA, A3	
228-33681-92	Start Up Kit, PIA, C3	
	<u>Contents of Start Up Kit, PIA</u>	
228-33366-91	Shim-Pack IC-A3 (S)	For anion
228-33603-93	PIA Std. Sample (Anion)	For anion
228-33601-03	Anion Mobile Phase, for PIA	For anion
228-33367-91	Shim-Pack IC-C3 (S)	For cation
228-33603-94	PIA Std. Sample (Cation)	For cation
228-33602-03	Cation Mobile Phase, for PIA	For cation
046-00045-01	Plastic Syringe for Sample Injection, 1 mL	
228-41748-91	Line Filter, IN, PEEK, 68250	For connecting a column
228-33691-91	Frit 68152, ...5/pkt	Same as PN 228-32744
	Tubing, PEEK, i.d. 0.13 mm	
228-25014	Male Connector, PEEK	
228-18565	Male Nut, PEEK	For connecting a column
228-32930-01	Tubing Cutter, Clean-cut	For cutting PEEK tube
228-32930-02	Blade 798	Not including in this kit
※ Refer to P.76 for disposable filters		
Ion Analysis Column		
228-33400-91	Shim-pack IC-A1 (S)	
228-31076-91	Shim-pack IC-A3	
228-17733-91	Shim-pack IC-A1	
228-32329-91	Shim-pack IC-C3	
228-17737-91	Shim-pack IC-C1	
228-33497-91	Shim-pack IC-CI, PEEK	
228-33413-91	Column Holder L	For 10/15cm length $\times$ 4.6mm i.d. column

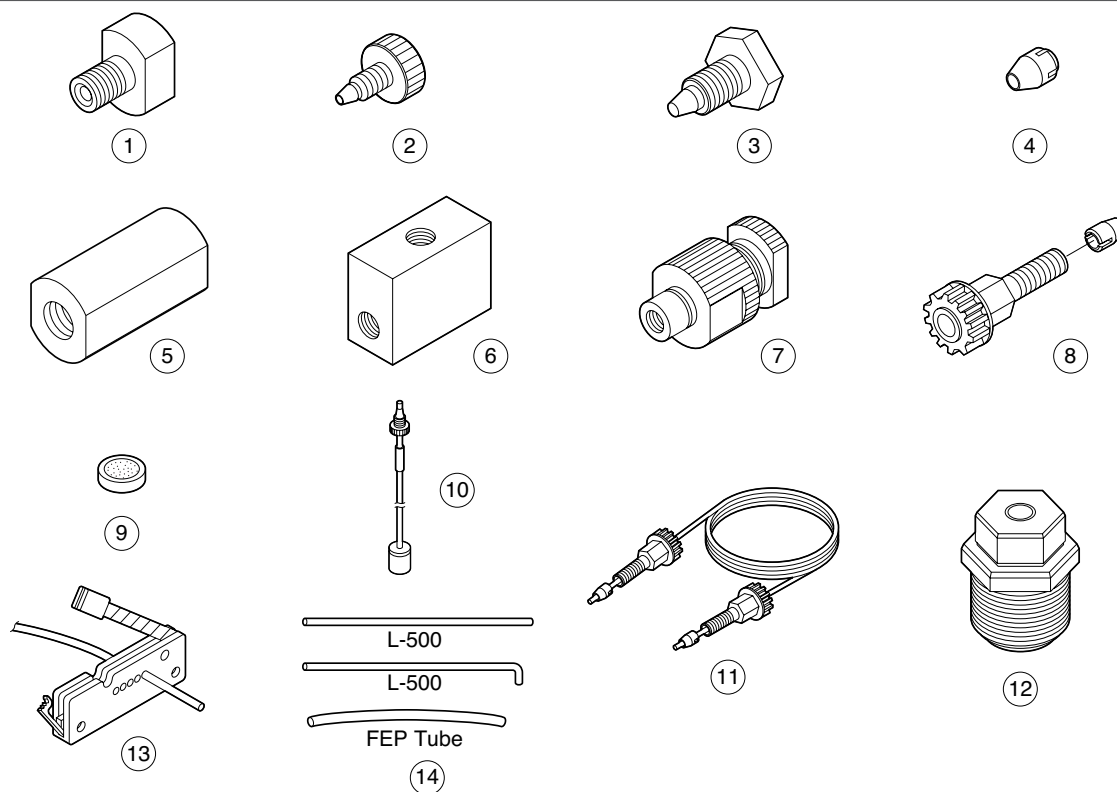


SS, Teflon

No.	Part No.	Description	No.	Part No.	Description
①	228-16000-84	Ferrule, 1.6F ...3/pkt	⑫	228-16051-92	Coupling Assy, 1.6C
	228-16000-85	Ferrule, 1.6F, 10 pcs.	⑬	228-17857-84	Ferrule, 1.6F-TI, ...3/pkt
②	228-16001	Male Nut 1.6mn		228-17857-85	Ferrule, 1.6F-TI, ...10/pkt
	228-16001-84	Male Nut, 1.6mn, ...10/pkt	⑭	228-17860-03	Coupling, 1.6C-TI 0.4 mm
③	228-16001-01	Male Nut, 1.6mn-L	⑮	228-18555	Bushing, 3D
	228-16001-85	Male Nut, 1.6mn-L, ...10/pkt	※1	228-36995-93	Tubing, SS, i.d. 0.5 × o.d. 1.6 × 2 m
④	228-16002	Nut, 1.6FN	※1	228-36993-93	Tubing, SS, i.d. 0.8 × o.d. 1.6 × 2 m
	228-16002-84	Female Nut, 1.6FN, ...10/pkt	※1	011-30791-03	Tubing, SS, i.d. 1.0 × o.d. 1.6 × 2 m
⑤	228-16004-01	Coupling 1.6C, for i.d. 0.8 mm	※1	228-36993-91	SS316tp i.d. 0.3 × o.d. 1.6 × 2 m
⑥	228-16004-03	Coupling 1.6C	※1	670-10006-24	SS316 Tubing, i.d. 0.1 × o.d. 1.6
⑦	228-16005-01	Adapter 1.6A, for i.d. 0.8 mm	※1	670-10006-33	SS316tp i.d. 0.2 × o.d. 1.6
⑧	228-16005-03	Adapter 1.6A	※2	016-37555	Tubing, PTFE, i.d. 1.11 × o.d. 1.6
⑨	228-16006	Plug 1.6P	※2	016-37593	Tubing, PTFE, i.d. 0.25 × o.d. 1.6
	228-16006-84	Plug 1.6P 10/pct	※2	016-37596	Tubing, PTFE, i.d. 0.4 × o.d. 1.6
⑩	228-16007-84	Ferrule, PTFE, ...5/pkt	※2	228-18495-01	Tubing, ETFE, i.d. 0.8 × o.d. 1.6
⑪	228-16008-01	T-Connection Female, 1.6FT-0.4	※2	228-18495-03	Tubing, ETFE, i.d. 1.0 × o.d. 1.6
	228-16008-03	T-Connection Female, 1.6FT	※2	228-18495-06	Tubing, ETFE, i.d. 0.3 × o.d. 1.6

Caution) ※1 Length (meter) units order

※2 Pieces amount order, one piece length is 2m fixed



PEEK

No.	Part No.	Description	No.	Part No.	Description
①	228-33213	Male Nut 1.6mn-2, PEEK	⑫	228-33111-91	Titanium Pre-Mixer
②	228-18565	Male Nut, PEEK	⑬	228-32930-01	Tubing Cutter, Clean-cut
	228-18565-84	Male Nut, PEEK, /pkt		228-32930-02	Blade 798
③	228-28090	Blank Connector, PEEK	⑭	228-33406-91	Tubing Set, PEEK
④	228-31638	Ferrule, 1.6F PEEK	※1	228-33833-91	Tubing, PEEK, o.d. 1.6 × i.d. 0.13 red 3 mm
	228-33513-91	Ferrule 1.6F, ...3/pkt	※1	228-33833-92	Tubing, PEEK, o.d. 1.6 × i.d. 0.25 blue 3 mm
⑤	228-25014	Male Connector, PEEK	※1	228-33833-93	Tubing, PEEK, o.d. 1.6 × i.d. 0.50 orange 3 mm
⑥	228-25013	3-Way Connection 1.6, PEEK	※1	228-33833-94	Tubing, PEEK, o.d. 1.6 × i.d. 0.75 green 3 mm
⑦	228-41748-91	Line Filter, IN, PEEK, 68250	※2	228-33833-91	Tubing, PEEK, o.d. 1.6 × i.d. 0.13 × 3 mm
⑧	228-32651-41	Fitting	※2	228-33833-92	Tubing, PEEK, o.d. 1.6 × i.d. 0.25 × 3 mm
⑨	228-32744	Filter, Pat Frit, 5μm	※2	228-33833-93	Tubing, PEEK, o.d. 1.6 × i.d. 0.50 × 3 mm
	228-33691-91	Frit 68152, ...5/pkt	※2	228-33833-94	Tubing, PEEK, o.d. 1.6 × i.d. 0.75 × 3 mm
⑩	228-33335-91	Filter Set, Ceramic, ...3/pkt	※3	670-10324-01	Tubing, PEEK, i.d. 0.25 × o.d. 1.6
⑪	228-32651-16	Sample Loop, 100μL	※3	670-10324-02	Tubing, PEEK, i.d. 0.5 × o.d. 1.6
	228-32651-17	Sample Loop, 200μL	※3	670-10324-03	Tubing, PEEK, i.d. 0.76 × o.d. 1.6
	228-32651-18	Sample Loop, 500μL			
	228-32651-19	Sample Loop, 1 mL			

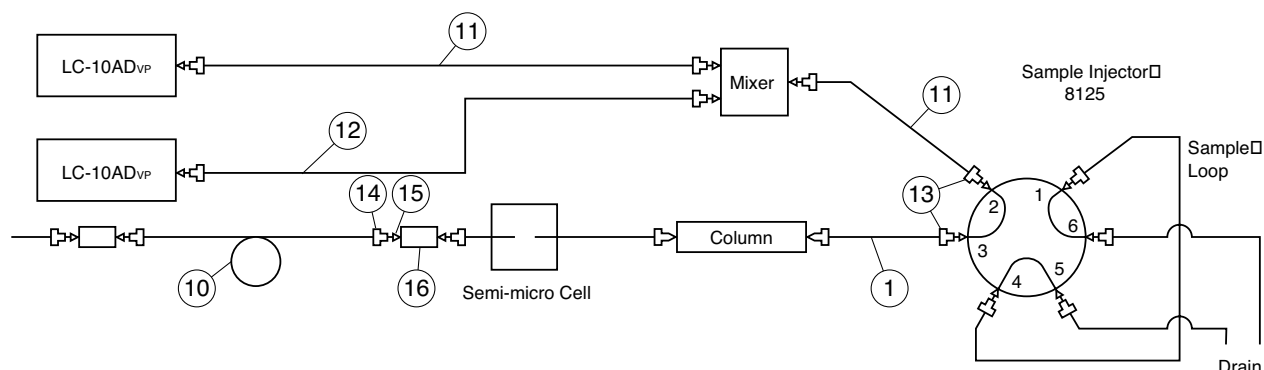
Caution) ※1 Pieces amount order, one piece length is 3m fixed

※3 Length (meter) units order

※2 Pieces amount order, one piece length is 3 fixed, with FEP cover tube for safty

228-33285-91 Piping Parts Kit/Inert LC

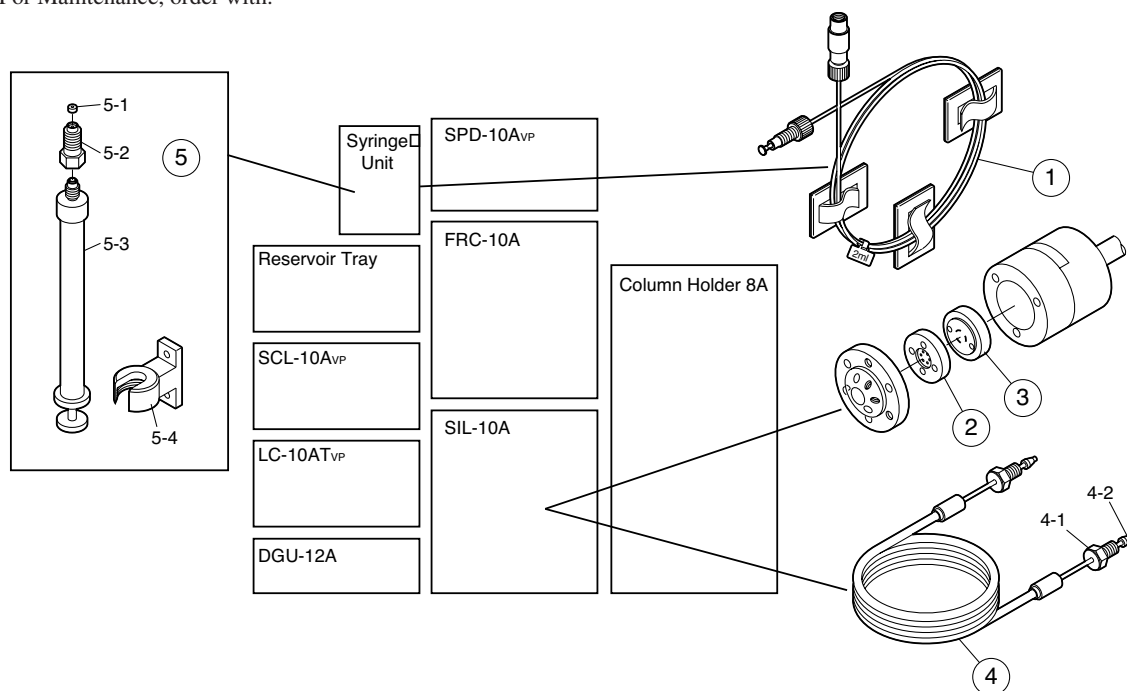
No.	Part No.	Description	Qty	No.	Part No.	Description	Qty
①	228-33213	Male Nut 1.6mn-2, PEEK	5	⑤	228-25014	Male Connector, PEEK	2
③	228-28090	Blank Connector, PEEK	2	⑬	228-32930-01	Tubing Cutter, Clean-cut	1
④	228-31638	Ferrule, 1.6F PEEK	10	⑭	228-33406-91	Tubing Set, PEEK	2



228-34096-92 Semi-micro Analysis Kit (Sample Injector 8125)

No.	Part No.	Description	No.	Part No.	Description
①	228-34115-91	Tubing Set, PEEK, 0.13	⑬	228-32651-41	Fitting
⑥	228-16001	Male Nut 1.6mn	⑭	228-33213	Male Nut 1.6mn-2, PEEK
⑦	228-16000-84	Ferrule, 1.6F ...3/pkt	⑮	228-31638	Ferrule, 1.6F PEEK
※⑩	(228-34103-91)	Tubing, PEEK, 1.6 × 0.13 × 2 m	⑯	228-25014	Male Connector, PEEK
⑪	228-23199-05	Tubing, i.d. 0.2 × o.d. 1.6 × 300		228-28090	Blank Connector, PEEK
⑫	228-23199-06	Tubing, i.d. 0.2 × o.d. 1.6 × 400		228-32930-01	Tubing Cutter, Clean-cut

※ For Maintenance, order with.

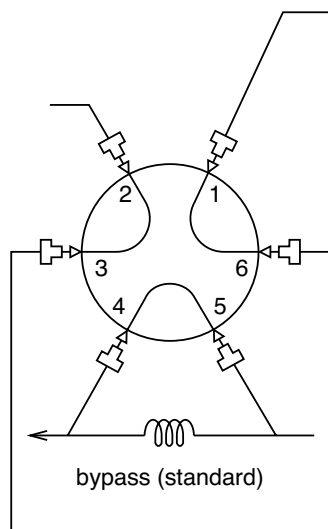


228-35560-91 GPC Clean UP Kit (for SIL-10A only)

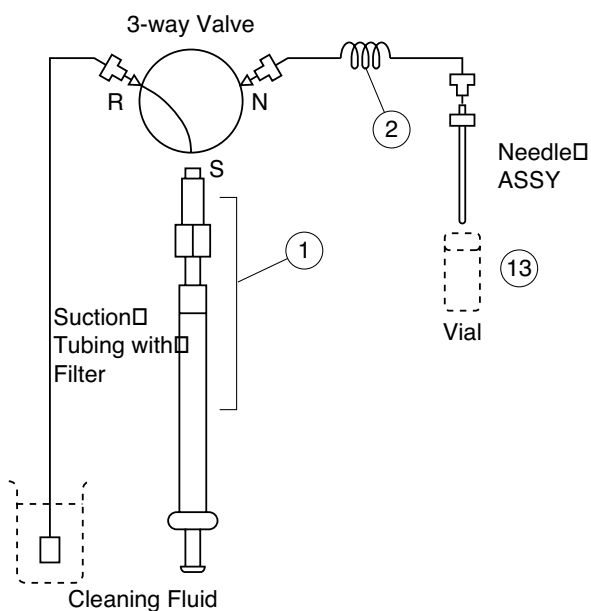
No.	Part No.	Description	No.	Part No.	Description
①	228-28129-91	Loop Assy, PTFE, 2 mL	⑤	228-28128-91	2.5 mL Syringe with Fastening Part
②	228-15142-92	6-Way Valve Stator Assy, SIL-6A	5-1	228-23812-02	Gasket, Insert
③	228-15143-93	6-Way Valve Rotor Assy, SIL-8A	5-2	228-25205	Syringe Adapter, 2.5 mL
④	228-18006-91	Sample Loop, 5 mL	5-3	228-25237-06	Syringe, 2.5 mL
4-1	228-16001-01	Male Nut, 1.6mn-L	5-4	228-49707-02	Plunger Holder, 2.5 mL, SIL-10A
4-2	228-16000-84	Ferrule, 1.6F ...3/pkt	※	228-21287-91	Vial, 4 mL, ...100/pkt

※ GPC Clean-up system uses 4mL sample vials.

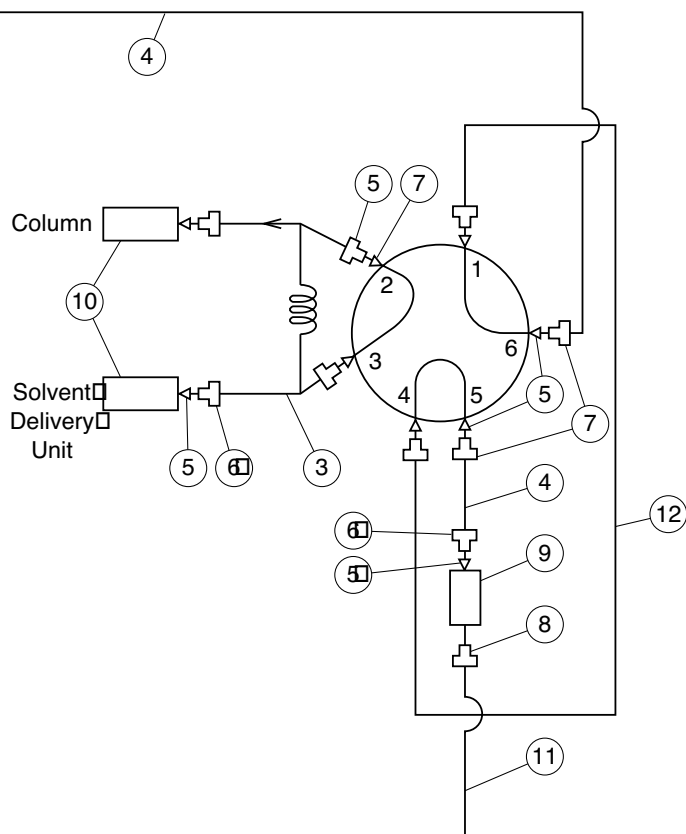
SIL-10A



Sample Loop (50 μ L inj, standard)

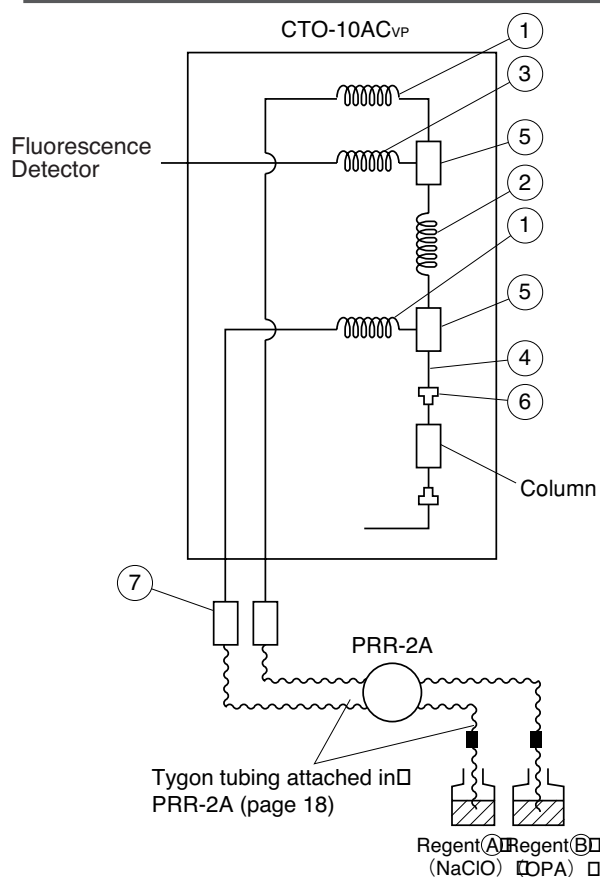


FCV-12AH

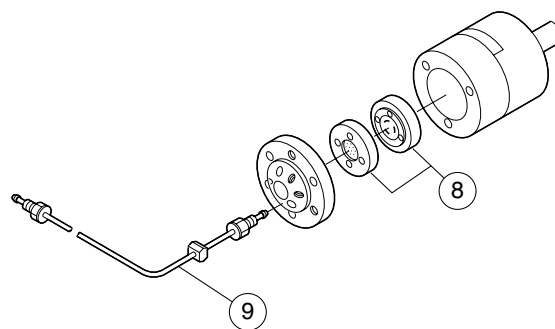


228-33408-91 Ion Chromatograph Dual Flow Line System Kit

No.	Part No.	Description
①	228-28128-91	2.5 mL Syringe with Fastening Part
②	228-28129-91	Loop Assy, PTFE, 2 mL
③	228-15154-91	Bypass Assy
④	228-36995-93	Tubing, SS, i.d. 0.5 $\times$ o.d. 1.6 $\times$ 2 m
⑤	228-16000-85	Ferrule, 1.6F, 10 pcs.
⑥	228-16001-84	Male Nut, 1.6mn, ...10/pkt
⑦	228-16001-85	Male Nut, 1.6mn-L, ...10/pkt
⑧	228-18565-84	Male Nut, PEEK, /pkt
⑨	228-16004-01	Coupling 1.6C, for i.d. 0.8 mm
⑩	228-16004-03	Coupling 1.6C
⑪	228-18495-01	Tubing, ETFE, i.d. 0.8 $\times$ o.d. 1.6
⑫	228-21515-91	Sample Loop Assy, 2 mL (Option)
	228-21515-92	Sample Loop Assy, 0.5 mL (Option)
	228-21038-91	Sample Loop, 50 μ L (Option)
	228-16272-92	Sample Loop Assy, 10 μ L (Option, for Loop Inj.)
	228-16272-91	Sample Loop Assy, 5 μ L (Option, for Loop Inj.)
⑬	228-31537-91	Vial, 4 mL, PP, ...100/pkt (Option)
	228-21046-92	Rack Assy, 4 mL $\times$ 80 (Option)

**228-31170-92 Amino Acid Analysis Kit**

No.	Part No.	Description
①	228-11769-01	Tubing, SS, i.d. 0.8 × o.d. 1.6 × 1 m
②	228-11769-08	Reaction Coil A, i.d. 0.5 × o.d. 1.6 × 1 m
③	228-11769-04	Tubing, SS, i.d. 0.5 × o.d. 1.6 × 2 m
④	228-22300-50	Tubing, Precut SS, i.d. 0.3 × o.d. 1.6 × 0.05 m
⑤	228-16055-91	Male Nut TEE Assy, 1.6mt
⑥	228-18565	Male Nut, PEEK
⑦	228-11866-91	Tubing Connection, Tygon SS
⑧	228-21708-91	Packing Kit, AAA, SIL-6B, 9A
⑨	228-31205-91	Inlet Tubing Assy, Bypass
	228-28748	Tubing, FEP, i.d. 1 × o.d. 3 × 0.4 m
	228-22302-50	Tubing, Precut SS, i.d. 0.3 × o.d. 1.6 × 0.25 m

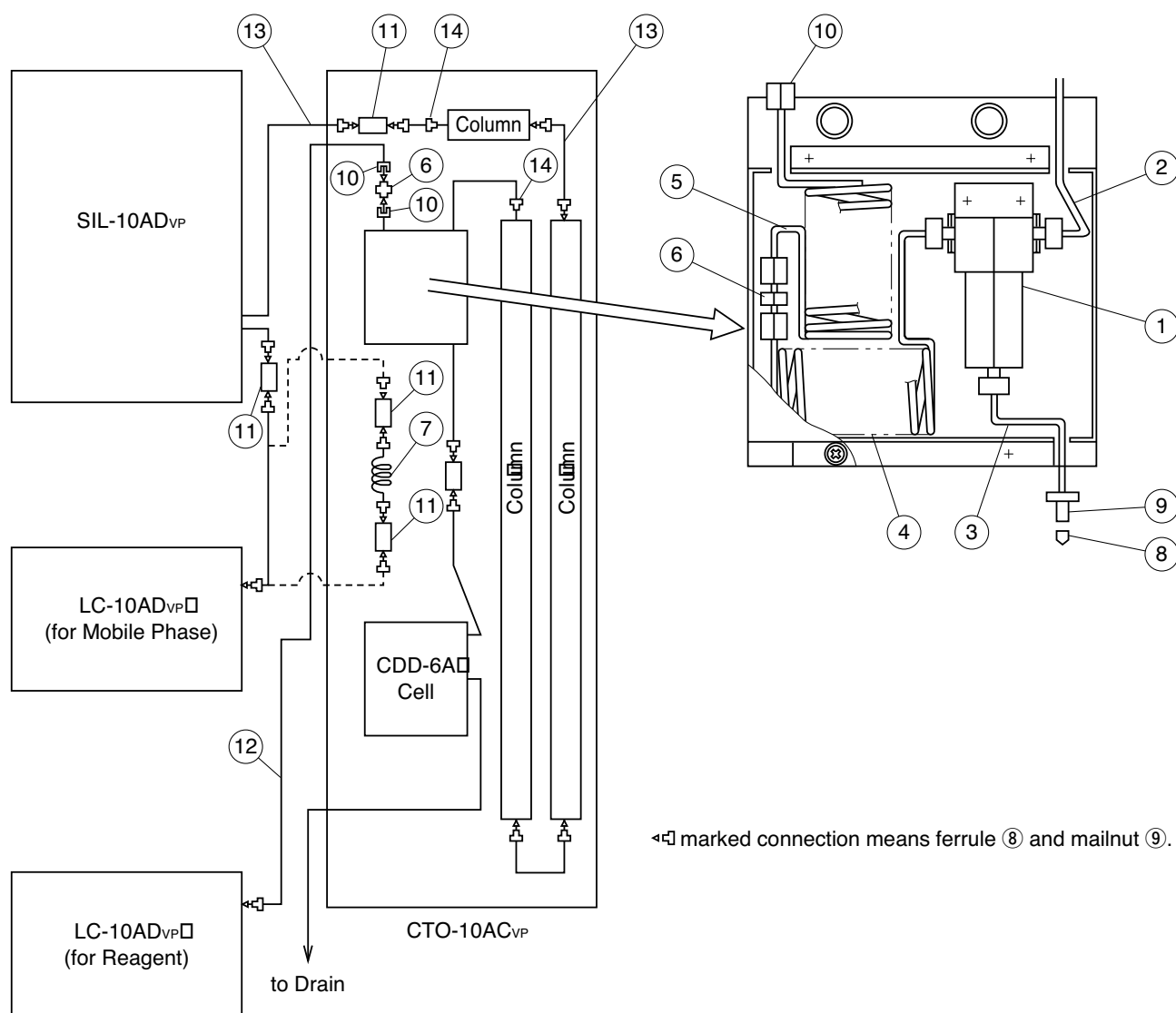
**Amino Acid Analysis Kit**

- This kit consists of mobile phase elution and reaction reagent needed to analyze amino acids using LC.
- Dilute and pH adjusting is not necessary because the analysis condition is optimized.
- As strictly selected grade reagent is used, suitable for high sensitive analysis.

P/N	Description	Contents
228-21195-94	Amino acid mobile phase kit Na type	A, B solution : each 1L C solution : each 0.5L
228-21195-96	Amino acid mobile phase kit Na type A solution	A, B solution : 1L × 3
228-21195-95	Amino acid mobile phase kit Li type	A, B solution : each 1 L C solution : each 0.5L
228-21195-97	Amino acid mobile phase kit Li type A solution	A solution : 1L × 3
228-21195-93	Amino acid analytical kit OPA reagent	Reagent 2 kinds 0.5L

**Caution)**

- Amino acid mobile phase kit Na type consists of mobile phase (A solution, B solution) for amino acid analysis composed of protein and column clean up solution (B solution). As for analytical column, use Shim-pack Amino-Na and/or Shim-pack ISO-07Na.
- Amino acid mobile phase kit Li type consists of mobile phase (A solution, B solution) for biological amino acid analysis and column Na clean up solution (B solution). As for analytical column, use Shim-pack Amino-Li and/or Shim-pack Iso-07Li.
- Analytical kit OPA reagent is a set of reaction reagent (2 kinds), which can be used in case of Na type and Li type.
- When auto injector SIL-10AXL is used, PEEK needle seal (P/N 228-33355-01) is necessary.
- When auto injector SIL-10Ai is used, tefzel rotar seal (P/N 228-32511-32) is necessary.

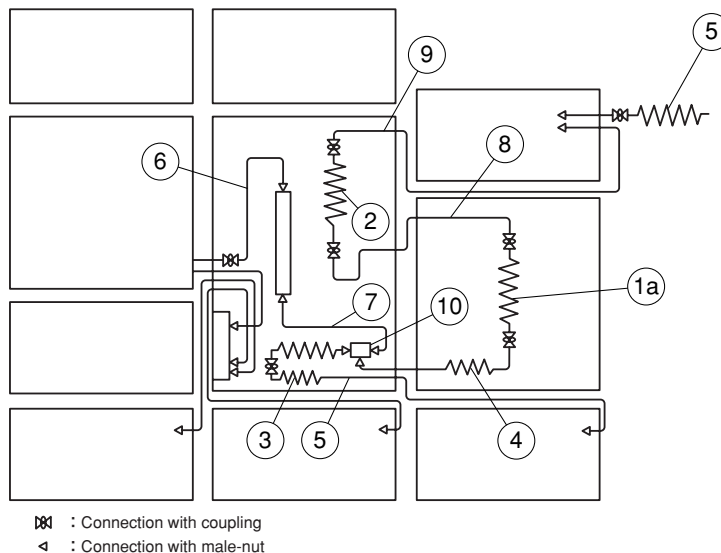


228-21747-91 Organic Acid Analysis Kit (Tubing Kit J)

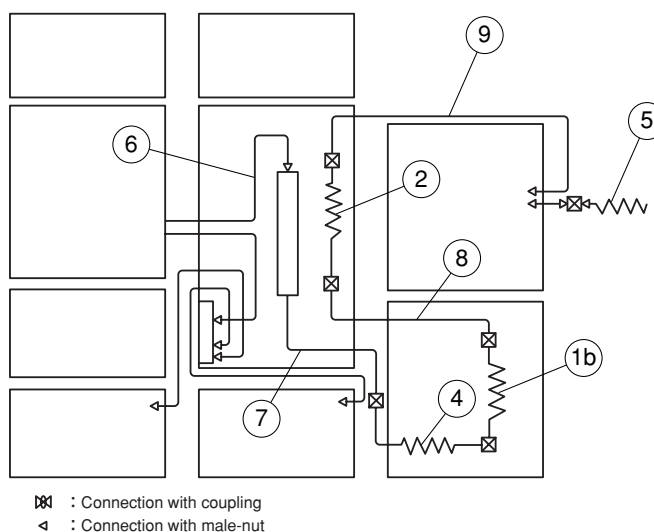
No.	Part No.	Description	No.	Part No.	Description
①	228-20266-93	Pre-Mixer Assy	⑧	228-16000-84	Ferrule, 1.6F ...3/pkt
②	228-21742-91	Resistor Tubing Assy, 0.3 × 300	⑨	228-16001-84	Male Nut, 1.6mn, ...10/pkt
③	228-21741-91	Resistor Tubing Assy, 0.3 × 80	⑩	228-16002	Nut, 1.6FN
④	228-21737-91	Resistor Tubing Assy, 0.1	⑪	228-16004-03	Coupling 1.6C
⑤	228-21739-91	Resistor Tubing Assy, 0.5	⑫	228-36993-91	SUS Tubing o.d. 1.6 × i.d. 0.3 L-2 m
⑥	228-00034	Union, 1.6U	⑬	228-22301-00	Tubing, Precut SS, i.d. 0.3 × o.d. 1.6 L-100
⑦*	228-33620-94	Restrictor Coil (for SIL-10A/10A _{XL} , 7725)	⑭	228-18565	Male Nut, PEEK

※ Not needed for SIL-10AD_{VP}

Post-column method

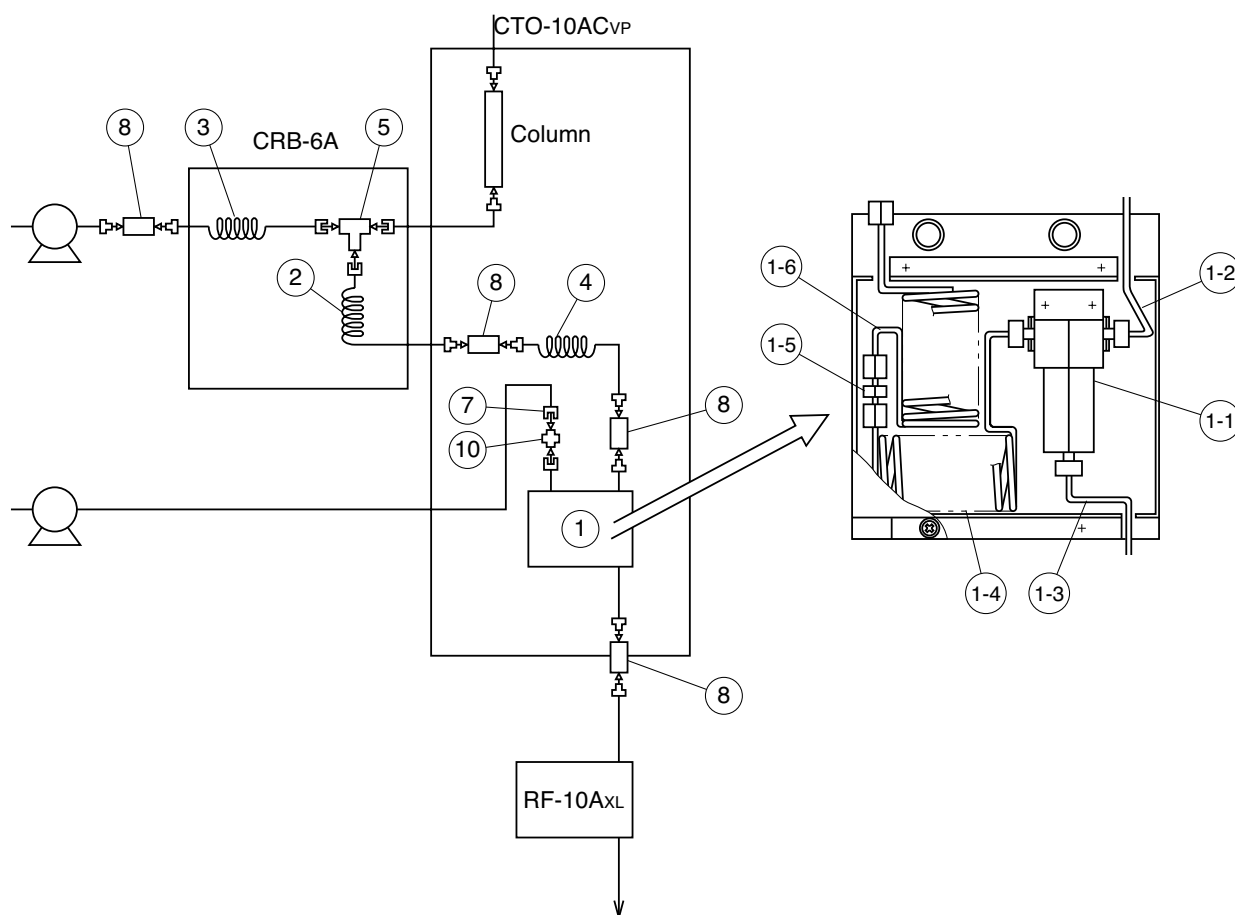


Online Method



228-41681-91 Reducing Sugar Analysis System Piping Kit (Tubing Part H-PO Assy)

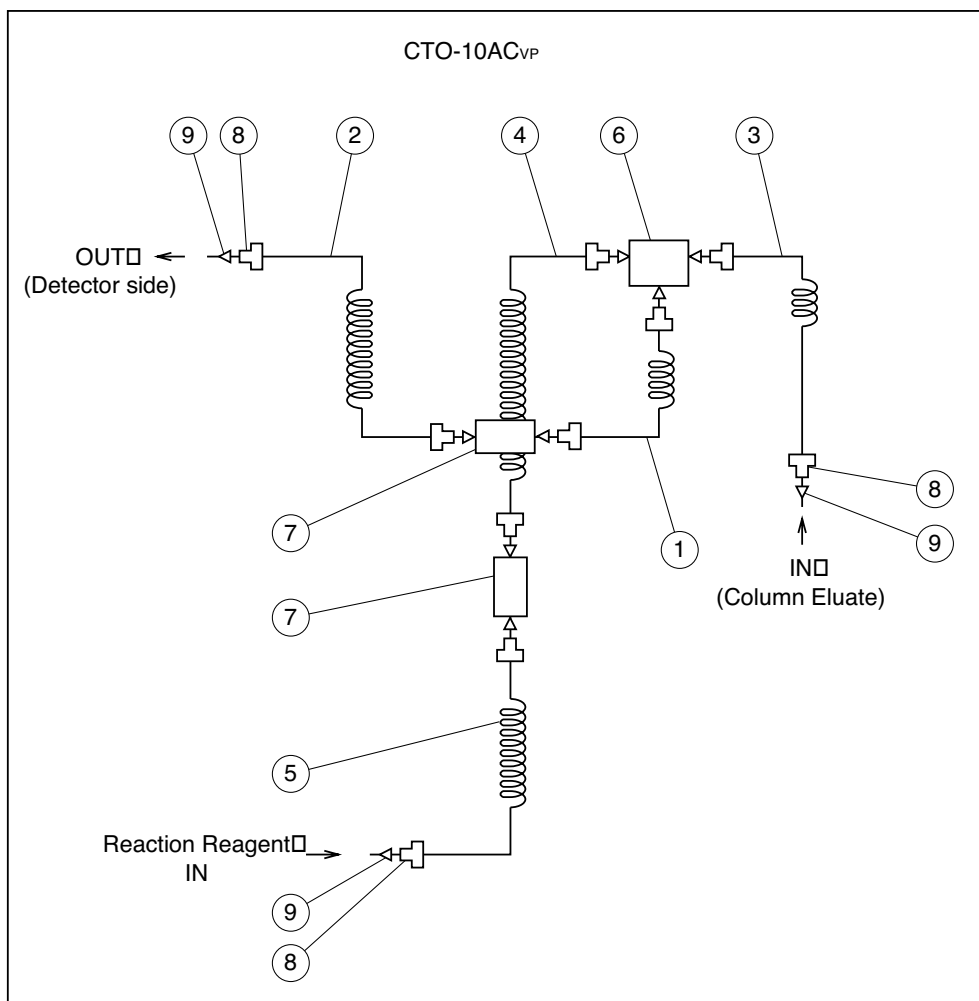
No.	Part No.	Description	No.	Part No.	Description
①a	228-41364-91	Reaction Coil	⑦	228-22301-00	Column Connection Pipe SUS316TP 1.6 × 0.3 × 100
①b	228-33620-91	Reaction Coil	⑧	228-36994-96	Connection Pipe
②	228-33620-92	Cooler Coil	⑨	228-36994-96	Connection Pipe
③	228-33620-94	Resistor Tubing	⑩	228-16008-01	Joint Female, 1.6FT-0.4
④	228-33620-95	Column Connection Coil		228-16004-03	Coupling, 1.6C
⑤	228-33620-93	Reagent Introduction Coil and Detector Back Pressure Tube		228-16001	Male Nut, 1.6MN
⑥	228-22303-00	Column Connection Pipe SUS316TP 1.6 × 0.3 × 300		228-16000-84	Ferrule, 1.6F 3/pkt
				228-18565	Male Nut, PEEK



◁ marked connection means ferrule ⑥ and mailnut ⑨.

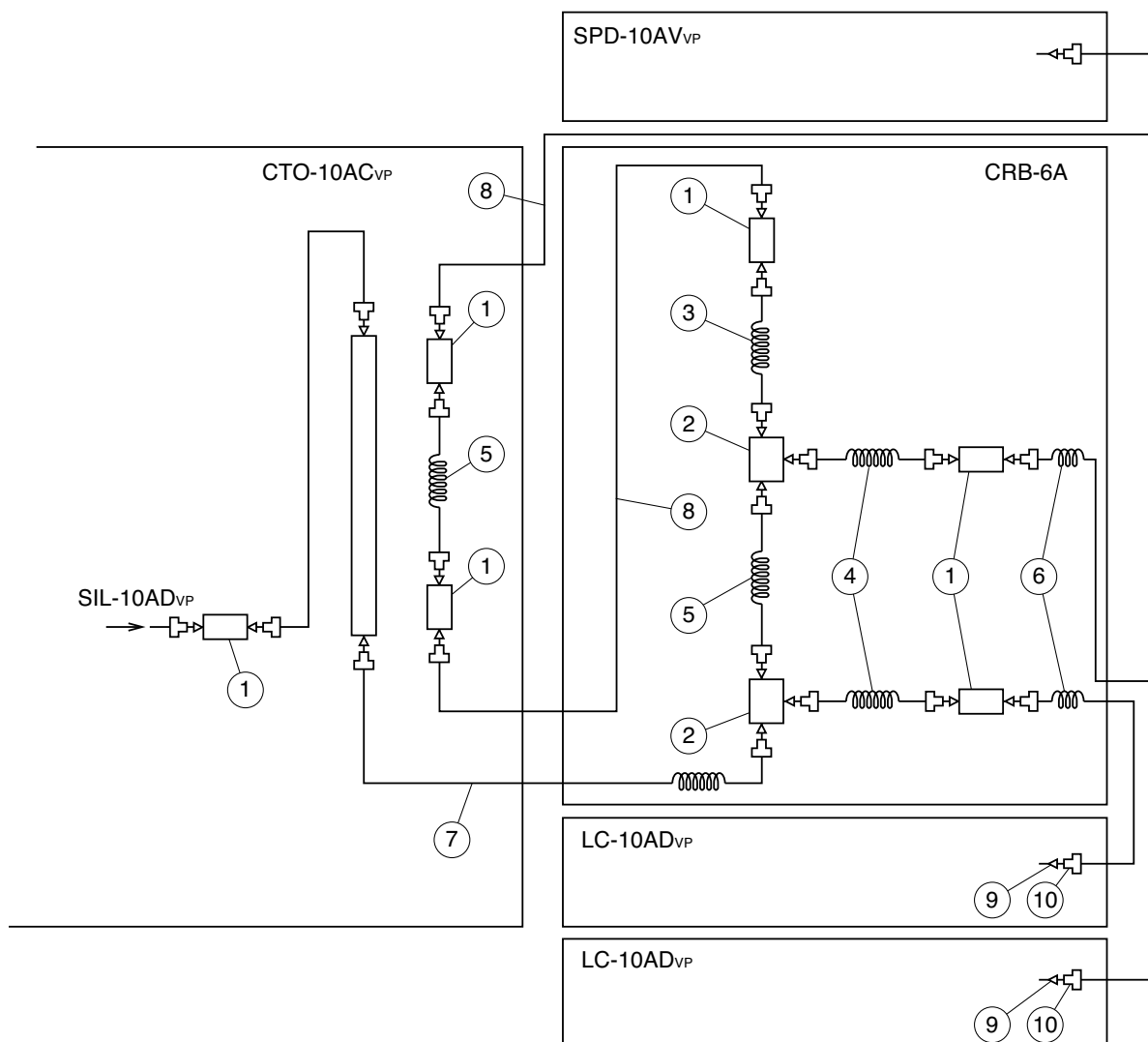
228-33943-91 Carbamate Analysis System Kit (Parts are available only in kit.)

No.	Part No.	Description	No.	Part No.	Description
①	228-34293-91	Reaction Tubing Kit	④	228-33620-92	Reaction Coil
1-1	228-20266-93	Pre-Mixer Assy	⑤	228-00126	Fitting Tee 1.6 mt
1-2	228-21742-91	Resistor Tubing Assy, 0.3 × 300	⑥	228-16000-84	Ferrule, 1.6F ...3/pkt
1-3	228-21741-91	Resistor Tubing Assy, 0.3 × 80	⑦	228-16002	Nut, 1.6FN
1-4	228-21737-91	Resistor Tubing Assy, 0.1		228-16055-91	Male Nut TEE Assy, 1.6mt
1-5	228-00034	Union, 1.6U	⑧	228-16004-03	Coupling 1.6C
1-6	228-21739-91	Resistor Tubing Assy, 0.5	⑨	228-16001	Male Nut 1.6mn
②	228-33944-91	Reaction Coil for NAOH Reagent		228-16051-91	Coupling Assy, 1.6C
③	228-33620-94	Restrictor Coil	⑩	228-00034	Union, 1.6U



228-18430-91 Transition Metal Analysis System Kit (Tubing Kit I)

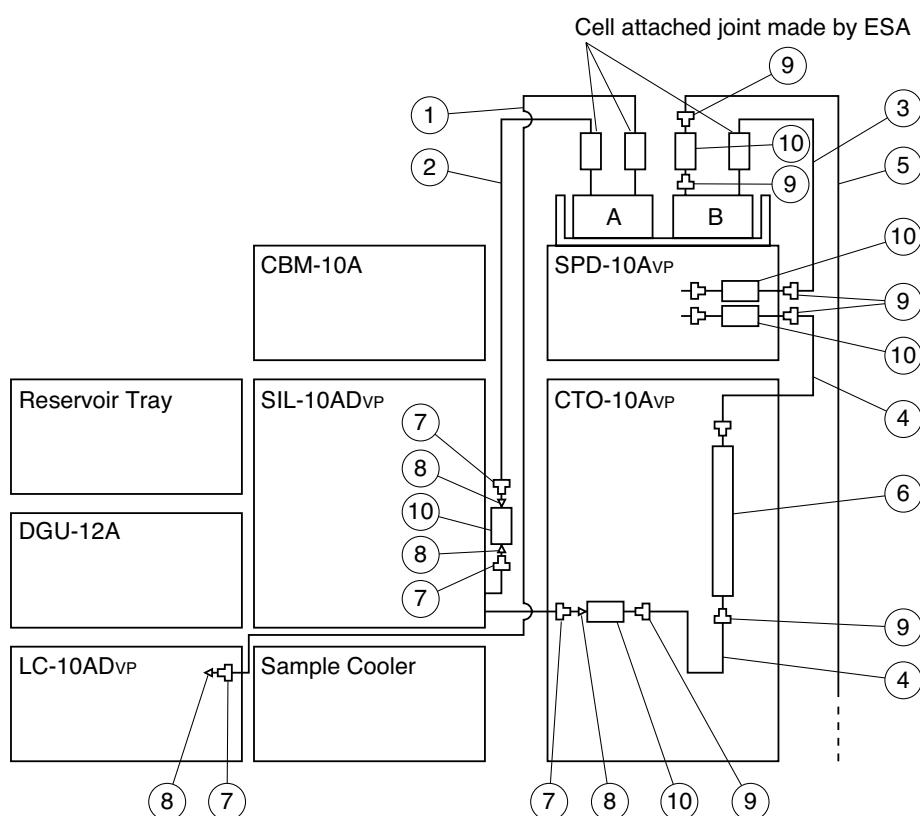
No.	Part No.	Description	No.	Part No.	Description
①	228-18431-91	Reaction Coil A	⑥	228-16008-03	T-Connection Female, 1.6FT
②	228-18433-91	Reaction Coil B	⑦	228-16004-03	Coupling 1.6C
③	228-18435-91	Resistor Tubing A	⑧	228-16001	Male Nut 1.6mn
④	228-18437-91	Resistor Tubing B	⑨	228-16000-84	Ferrule, 1.6F ...3/pkt
⑤	228-18439-91	Resistor Tubing C		228-20946-91	Solvent Reservoir Filter Assy



228-33618-91 Cyanogen Analysis System Kit

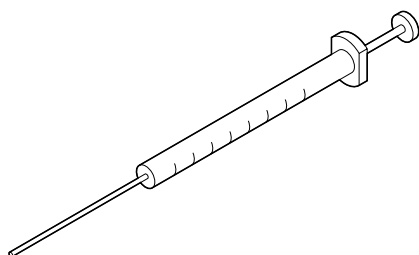
No.	Part No.	Description	No.	Part No.	Description
①	228-16004-03	Coupling 1.6C	⑦	228-33620-95	Column Connection Coil
②	228-16008-01	T-Connection Female, 1.6FT-0.4	⑧	228-22305-00	Tubing, Precut SS, i.d. 0.3 × o.d. 1.6 L-500
③	228-33620-91	Reaction Coil	⑨	228-16000-84	Ferrule, 1.6F ...3/pkt
④	228-33620-94	Restrictor Coil	⑩	228-16001	Male Nut 1.6mn
⑤	228-33620-92	Reaction Coil		228-16001-84	Male Nut, 1.6mn, ...10/pkt
⑥	228-33620-93	Coil			

A=Guard Cell
B=Analytical Cell



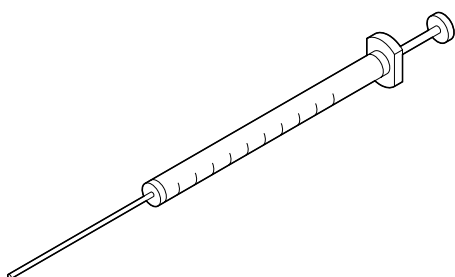
228-32593-91 Neuro Blastoma Mass Screening System Set-up Kit

No.	Part No.	Description	No.	Part No.	Description
①	228-22510-00	Tubing, Precut SS, i.d. 0.5 × o.d. 1.6 L-1000	⑧	228-16000-84	Ferrule, 1.6F ...3/pkt
②	228-22505-70	Tubing, Precut SS, i.d. 0.5 × o.d. 1.6 L-570	⑨	228-18565	Male Nut, PEEK
③	228-22303-70	Tubing, Precut SS, i.d. 0.3 × o.d. 1.6 L-370	⑩	228-16004-03	Coupling 1.6C
④	670-10324-01	Tubing, PEEK, i.d. 0.25 × o.d. 1.6		228-12491-94	Solvent Reservoir Filter Assy
⑤	228-18495-01	Tubing, ETFE, i.d. 0.8 × o.d. 1.6		228-21194-91	Line Filter Assy, LC-H
⑥	228-32591-91	Shim-Pack NB-VMA		670-10480-03	EDTA Reagent
	228-32592-91	Neuro Blastoma Mobile Phase		228-32669-91	Disk, Set-Up
⑦	228-16001	Male Nut 1.6mn		038-00310-05	Tray



Hamilton-made syringe

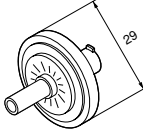
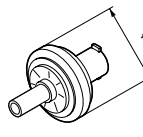
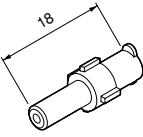
Part No.	Description
670-12098-10	701SNR 10μL
670-12098-11	702SNR 25μL
670-12098-12	705SNR 50μL
670-12098-13	710SNR 100μL
670-12098-16	725SNR 250μL



SGE-made syringe

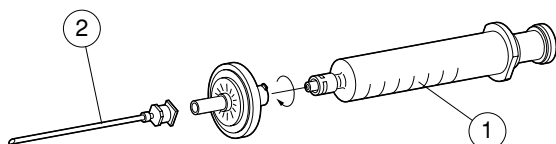
Part No.	Description
670-12554-01	Syringe, M., 10F-LC
670-12554-02	Syringe, M., 25F-LC
670-12554-03	Syringe, M., 50F-LC
670-12554-04	Syringe, M., 100F-LC
670-12554-05	Syringe, M., 250F-LC
670-12554-06	Syringe, M., 500F-LC
670-12554-61	Syringe, M., SK-10F-LC, ...6/pkt

Disposable Filter

Shape									
Objected sample	Organic type	IC type	Aqueous type	Organic type	IC type	Aqueous type	Organic type	IC type	Aqueous type
P/N	670-12540-23	670-12540-13	670-12540-03	670-12540-22	670-12540-12	670-12540-02	670-12540-21	670-12540-11	670-12540-01
Model name	25N	25AI	25A	13N	13AI	13A	4N	4AI	4A
Diameter of Filter	25			13			4		
Pore size (m)	0.45			0.45			0.45		
Effective filter area (cm ²)	4			0.8			0.07		
Maxium sample loss (L)	100			30			10		
Allowable pressure (kgf/cm ² , Mpa)	6			5			7		
Filter material	PTFE	Hydrophilic olefin polymer	Hydrophilic olefin polymer	PTFE	Hydrophilic olefin polymer	Hydrophilic olefin polymer	PTFE	Hydrophilic olefin polymer	Hydrophilic olefin polymer
Color	Half-trans parent white	Light blue	Blue	Half-trans parent white	Light blue	Blue	Half-trans parent white	Light blue	Blue
Package	100 pcs.			100 pcs.			100 pcs.		

Caution)

- As organic type filter is superior in solvent and chemical compatibility, suitable for the analysis of solvent, strong acid, strong alkali.
- IC (ion chromatography) type filter is suitable for the pretreatment of the sample of ion chromatography analysis. As divided into each 10 pcs, clean can be kept.
- Aqueous type filter is suitable for the analysis of aqueous and alcohol solution.



No.	Part No.	Description
①	046-00001	Syringe Glass, 10 mL
②	221-54778-51	Luer Lock Needle, o.d. 0.63
	221-54778-52	Luer Lock Needle, o.d. 1.07
	221-54778-54	Luer Lock Needle, o.d. 2.1

Hardware Validation Support Parts

Part No.	Description	Notice
228-30122	LC Validation (J) SOP	For LC-6A, 7A, 8A, 9A Series
228-33085-91	SOP-LC Disk 3.5	For LC-10A Series, LC-6A, 7A, 8A, 9A Series
223-04103-91	H/W Validation, C-R7A (J)	For C-R7A, C-R4A
223-04104-91	H/W Validation IC Board, C-R7A (J)	For C-R5A (Channel 1)
223-04105-91	H/W Validation Tape, C-R7A (J)	For C-R6A, C-R3A
223-04106-91	H/W Validation Disk 5, C-R7A (J)	For C-R6A/C-R3A with FDD-1A
	Consumable Parts	
228-32686-91	Dummy Cell Assy, SPD-M10AVP	SPD-10AVP, SPD-10A
228-32690-91	Line Filter Assy	CTO-10A
228-32722-91	Restrictor Tubing, i.d. 0.1 × 2 m	For gradient elution system
228-32722-92	Restrictor Tubing, i.d. 0.1 × 4 m	LC-10AVP, LC-10A, SIL-10ADVP, SIL-10A
228-32722-93	Restrictor Tubing, i.d. 0.1 × 2 m	SIL-10ADVP, SIL-10A
228-23463-91	Shim-pack HRC-ODS 4.6 mm × 15 cm	Reversed phase mode column for checking reproducibility
228-28269-11	STR ODS-2, Semi-Micro Column	Reversed phase mode column for checking reproducibility
228-35349-91	Seal Kit, Teflon	LC-10AD, Incl. plunger seal, seat, rubber
228-35146	Seal 42455	LC-10ADVP
228-35145	Seal 42429	LC-10ATVP, SIL-10ADVP
228-21975-91	Seal, PE 230106406-1	LC-10AT, LC-10AS
228-35935	Rinse Seal, LC-10ATVP	LC-10ATVP
228-28499	Plunger Seal, PE, LC-10AS	LC-10AT, LC-10AS
228-12642-93	Line Filter F6 Assy	LC-10AD, LC-10AT, LC-10AS
228-12564	Packing	LC-10AD, LC-10AT, LC-10AS, For Line Filter
228-32744	Filter, Pat Frit, 5µm	LC-10ADVP, LC-10ATVP
228-21984-01	Solvent Reservoir Filter, SS	LC-10ADVP, LC-10ATVP, LC-10AD, LC-10AT, LC-10AS, SIL-10ADVP, SIL-10A
228-32784-91	Diaphragm, ...2/pkt	LC-10ADVP, LC-10AD
228-39093-92	Check Valve Assy (IN)	LC-10ADVP
228-34976-91	Check Valve Assy (OUT)	LC-10ADVP, LC-10ATVP
228-32166-91	Check Valve (IN)	LC-10ATVP, LC-10AT
228-32531-92	Check Valve Assy (OUT)	LC-10AT, LC-10AD
228-33492-91	Check Valve (IN)	LC-10AD
228-12353-91	Check Valve In Assy	LC-10AS
228-09054-93	Check Valve Assy (OUT)	LC-10AS
670-11518	O-Ring, Perfluoro, P5	LC-10ADVP, LC-10ATVP, LC-10AD, LC-10AT, LC-10AS, SIL-10ADVP, For drain valve
228-18872-91	Filter, Packing	For mixer SS, VP/10A
228-32693-92	Line Filter Spare Parts Kit (Element, ...5/pkt)	For FCV-10AL, LC-10A low press, GE
228-34016-02	Deuterium (D2) Lamp	SPD-10AVP, SPD-10AVVP, SPD-10A, SPD-10AV
670-14602	Tungsten (W) Lamp, YT55134A	SPD-10AVVP, SPD-10AV
228-35097-95	Gasket, Flow Cell ...2/pkt	SPD-10AVP, SPD-10AVVP, SPD-10A, SPD-10AV
228-21217-97	Rotor, 6V-D Assy	SIL-10ADVP
228-21217-91	6-Way Valve Rotor Assy, SIL-9A	SIL-10A
228-33355-04	Needle Seal, Vespel (Option)	SIL-10ADVP
228-21227-91	Needle Seal Assy, SIL-9A, ...3/pkt	SIL-10A
228-21290-91	Septum, for 4 mL, ...100/pkt	SIL-10A
	Standard Samples for Validation	
228-32996-02	Std.Sample, 5PC	For system reproducibility test (Acridine, Anthracene)
228-32996-03	Std.Sample/ Repeatability	For SIL-10ADVP, SIL-10A reproducibility test (Naphthalene)
228-32996-04	Std.Sample/ Wave Check	For checking SPD-10AVP/10AVVP/10A/10AV wavelength accuracy, for SID-10ADVP, SIL-10A reproducibility test (Caffeine)
228-32996-05	Std.Sample/ RID Span Check	For adjusting RID-10A span (Glycerol)
228-32996-06	Sample for System Test, 2 mL × 5	For system reproducibility test (Anthracene)

Instruction Manuals

Description	Cat. No		
	Japanese	English	
DGU-12A/14A	228-30184		228-30198
DGU-12AM/14AM	228-30287		228-30288
Carbon Dioxide Trap		228-10525	
DGU-10B		228-30064	
Mixer SS		228-10771	
Mixer PEEK		228-30124	
Pre-Mixer		228-30125	
Mixer 6AD		228-10683	
Reservoir Tray		228-30246	
Drain Tubing Kit (10A)		228-10913	
LC-10ADVP	228-30230		228-30231
LC-10ATVP	228-30232		228-30233
LC-10Ai	228-30092		228-30093
LC-8A	228-10544		228-10545
LC-6AD	228-10634		228-10682
Rinsing pump 10ATVP		228-30248	
PRR-2A	CM190-016		CM190-01
FCV-10ALVP		228-30242	
FCV-11AL/S		228-10904	
Flow Channel Addition Kit		228-10938	
FCV-12AH		228-10758	
FCV-14AH		228-10760	
FCV-13AL		228-10759	
FCV-7AL		228-10586	
FCV-130AL		228-10576	
Manual Column Switching Valve		228-10537	
Manual Recycling Valve		228-10538	
FRC-10A	228-10738		228-10739
Fractionation Head with Valve		228-10766	
Fractionation Head		228-10767	
Large Volume Kit		228-10786	
SIL-10ADVP	228-30239		228-30240
Sample Loop 500μL		228-30326	
Loop for Pre-treatment		228-30327	
Sample Cooler for 10ADVP		228-30262	
Rack 4, 5 for Titer Plates		228-35826	
SIL-10A/10Ai	228-30129		228-30130
2.5mL Syringe with Fastening Part		228-10921	
Loop Assy, PTFE, 2mL		228-10920	
Sample Cooler S/L for SIL-10A/10Ai/10A _{XL}		228-10903	
Sample Injector 7725(i), 9725(i)	228-30088		228-30155
Injector Mounting Plate		228-10780	
CTO-10AVP/10AC/VP	228-30253		228-30254
CTO-10ASVP	228-30255		228-30256
Column Holder 8A		228-10559	

Description	Cat. No		
	Japanese	English	
CRB-6A	228-10312		228-10313
SPD-10AVP/10AVVP	228-30260		228-30261
PEEK Cell		228-30150	
Flow Cell for High Pressure		228-10774	
Flow Cell for Preparative LC (fixed optical path length)		228-10772	
Flow Cell for Preparative LC (variable)		228-10773	
Flow Cell for Semi-micro		228-10775	
Solvent Recycling Valve Kit		228-30292	
Temperature Control Cell Unit	228-30035		338-30043
SPD-10Ai/10AVi	228-30127		228-30133
RID-10A	228-30178		228-30179
Relief Valve Assy		228-30187	
Flow Selection Block		228-30205	
SPD-M10AVP	228-30195		228-30196
Flow Cell for Preparative LC/M10AVP (fixed optical path length)		228-30228	
Flow Cell for Preparative LC/M10AVP (variable)		228-30229	
Flow Cell for Semi-micro/M10AVP		228-30226	
PEEK Cell/M10AVP		228-30227	
Dummy Cell/M10AVP		228-30247	
RF-10AXL	228-30190		228-30191
CDD-6A	228-10491		228-10492
CLD-10A	228-10954		
Restrictor Tube Box		228-10956	
SCL-10AVP	228-30244		228-30245
Option Box VP		228-30243	
Option Box S		228-35312	
Option Box L		228-10911	
Valve Interface Unit		228-10907	
Power Terminal Unit		228-30028	
C-R7A plus	223-00307		223-00306
C-R5A	223-00075		223-00076
C-R6A	223-00061		223-00060
Semi-micro Analysis Kit (Sample Injector 8125)		228-30199	
GPC Clean Up Kit (SIL-10A)		228-30310	
Ion Chromatograph Dual Flow Line System Kit (SIL-10A)	228-30136		
Amino Acid Analysis Kit	228-30041		228-30015
Organic Acid Analysis System kit (Tubing Kit J)		228-10666	
Reductions Suggar Analysis System Kit (Tubing Kit H)		228-30031	
Carbamate Analysis System Kit		228-30189	
Transition Metal Analysis System Kit (Tubing Kit I)		228-10640	
Cyanogen Analysis System Kit		228-30162	
Neuro Blastoma Mass Screening System Set-up Kit	228-30072		
PIA-1000	228-30113		228-30114
Start Up Kit, PIA		228-30170	
Air Trap	228-10716		

Service Manuals

Description	Cat. No	
	Japanese	English
DGU-12A/14A/12AM/14AM	228-30209	228-30210
LC-10ADVP	228-30270	228-30271
LC-10ATVP	228-30263	228-30264
LC-10Ai	228-30159	228-30160
LC-8A	228-10608	228-10624
LC-6AD	228-10883	228-10884
SIL-10ADVP	228-30274	228-30275
SIL-10A/10Ai/10AXL, FRC-10A	228-10932	228-10933
CTO-10AVP/10AC/VP	228-30280	228-30281
CTO-10ASVP	228-30282	228-30283
CRB-6A	228-10853	228-10854
SPD-10AVP/10AVVP	228-30284	228-30285
SPD-10Ai/10AVi	228-10930	228-10931
RID-10A	228-30211	228-30212
SPD-M10AVP	228-30213	228-30214
RF-10AXL	228-30192	228-30193
SCL-10AVP	228-30278	228-30279
C-R7A plus	223-00345	223-00344
C-R5A	223-00086	223-00085
C-R6A	223-00071	223-00070
PIA-1000	228-30156	228-30200

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☆ mark	: One week or more for delivery
□ mark	: Necessary to contact to IMD
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Abbreviations used in this catalog are as flows :

ABBREVIATIONS

A	: Ampere (Aunit of electric current)	PEEK	: Poly-etheretherketone Resin
AC	: Alternating Current	PFA	: Tetratluoroethylene- perfluoroalkylvinylether Copolymer
ASSY	: Assembly	PP	: Polypropylene
DC	: Direct Current	PTFE	: Poly-tetrafluoroethylene Resin (Teflon)
EX	: Excitation	ROM	: Read-only Memory
FEP	: Fluoro-ethylenepropylene Copolymer Resin	SS, SUS	: Stainless Steel
He	: Helium	t-	: Thickness
L-	: Length	UV	: Ultraviolet Rays
LCD	: Liquid Crystal Display	UV-VIS	: Ultraviolet-Visible Region
LED	: Light Emitting Diode	V	: Volt (Aunit of voltage)
PCB	: Printed Circuits Board	Xe	: Xenon
PE	: Polyethylene	φ	: Diameter

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