

SCOUT III B

Automatic Composite Sampler

1 gallon composite

OPERATION MANUAL



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1.0 DESCRIPTION

The SCOUT III B is a simple, reliable automatic wastewater sampler. The Scout was designed for ease of use and portability -- everything you need to sample is contained in the rugged watertight case. Operating instructions are printed the inside of the cover for ease of set-up in the field.

The SCOUT III B can collect samples either on a time-cycle basis or proportioned to flow, paced by a totalizer signal flowmeter. The volume of individual samples is set using the function switch in the Test –Set mode. Purge options include purge before, purge after, or purge both before and after sample collection. The purge cycle is set with the function switch. The SCOUT III B operates either on line power or 12VDC internal or external battery.

1.1. THE CONTROL PANEL

CONTROL	SETTINGS	FUNCTION
Main Switch (03-030)	AC-OFF-DC	Select AC or DC operation (center off)
Samples per Hour (03-018)	8, 4, 2, 1 sample(s)/hour 1/2 = every other hour 1/3 = every third hour PROP. = as signaled by flowmeter	Select sampling frequency or proportional operation
Function Switch (03-018)	CALIBRATE: Test & Set OPERATE: Purge Before & After Purge Before Purge After	Calibrate sampler and set sample size Set operating mode
Fuse (06-033)	On top right side of panel support. (3amp 3AG)	AC Circuit Protection

1.2. POWER CONNECTIONS

(a) External Power Sources

A single 9-pin connector on the left side of the case is used for all external power connections. A 3 AMP fuse protects against shorts in the AC circuit. The following chart lists the pin assignments for all external power options:

Line Power 115 VAC*	3-wire grounded cable pin 1 = Line pin 2 = neutral pin 3 = ground	AC power connection
12 VDC	2-wire cable pin 5 = negative (black) pin 6 = positive (white)	12 VDC battery connection
Flowmeter/AC	3-wire grounded as above plus 2-wire cable pins 8 & 9 (10')	AC power to flowmeter Unpowered input

* 220 VAC available if required for export

(b) Internal Power Source

A four-pin connector on the panel is used for internal power sources.

12 VDC	4-pin pin 1 = positive (white) pin 4 = negative (red)	Internal battery connection
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NOTE: The sampler will not operate if 12 VDC source has reversed polarity!

1.3. TECHNICAL SPECIFICATIONS

Dimensions	18" high, 16" wide, 9" deep
Weight	20 lbs. less accessories
Enclosure	NEMA 4X water and dust tight
Sample Volume	10-500 mL/sample
Inlet Velocity	1.5 feet/second at 3' head
Power Requirements	110 – 220 VAC, or 12 VDC

1.4. ACCESSORIES PROVIDED

- (a) One (1) 20' inlet tube assembly with inlet screen and through-case strain relief (reorder #20-037)
- (b) Two (2) one gallon plastic sample containers (reorder #19-002)
- (c) One (1) spare pump tube (reorder #11-012)
- (d) One (1) spare AGC 3AMP fuse (reorder #06-033)
- (e) One (1) AC power cable (reorder #15-504)
- (f) Two (2) wall-mounting lugs and screws

1.5. OPTIONAL ACCESSORIES

- (a) Teflon® Sampler Inlet Assembly (Part #20-039). 12.5' inlet with stainless steel weight screen. For use with low-range organic samples.
- (b) One-Gallon Glass Sample Container (Part #19-080).
- (c) Rechargeable Gel Battery (Part #15-516P). A 7 AMP/Hr battery for areas remote from line power. This battery is installed inside the sampler housing and does not require an additional cable.
- (d) Battery Charger (Part #15-517). Current and voltage limited chargers are available for charging the Rechargeable Gel Battery (Part #15-516P).
- (e) Auxiliary Battery Cable (Part #15-508). A 3' cable to connect the sampler to an external, customer-furnished 12-volt battery. Customer-furnished battery must provide a minimum of 5 AMP hours.
- (f) AC/Proportional Hookup Cable (Part #15-510). Dual AC/Proportional hookup cable. Grounded plug to AC power, 2-wire cable to contact-making flowmeter. This should be an unpowered (dry) switch closure of at least 25 milliseconds.

1.6. EXPORT OPTIONS

- (a) Battery Charger for 220 VAC (Part #15-517-220). For use with N-CON's Rechargeable Gel Battery (Part #15-516P) in locations with 220 VAC current.
- (b) AC Cable for 220 VAC (Part #15-504-220). Customer must specify destination country for proper plug configuration.

2.0 INSTALLATION

2.1 UNPACKING

The SCOUT III B is packed in a special double carton. We suggest that you keep this carton for storage or shipment of the sampler. This carton contains:

- (a) Sampler
- (b) Two (2) one gallon sample bottles
- (c) Inlet assembly with strain relief
- (d) Grounded AC cable
- (e) Spare parts kit (1 spare pump tube, 1 spare 3 AMP fuse, 2 wall-mounting feet with screws)
- (f) Optional accessories, as ordered (may be shipped in a separate carton)

2.2 SETUP AT THE SAMPLING SITE

The sampler should be located in the shade or otherwise protected from direct sunlight or excessive heat. Sampler may be fastened to the wall with wall-mounting feet or suspended in a manhole with hooks or rope through the mounting feet.

DO NOT USE THE SAMPLER IN AN ATMOSPHERE WHERE THERE IS A RISK OF EXPLOSION.

2.2.1. Inlet Line Installation

Install strain relief flex connector in the hole on the right side of the sampler case with the nut provided.. Slip the end of the inlet tube into the strain relief. Insert the small tubing connector into the inlet tube and press into the larger connector on the pump tube. Adjust the inlet tubing so that it is not crimped, and tighten the outer nut to keep the tube from pulling out. The inlet line should be as straight as possible to prevention retention of previous sample when purging. Cut the tubing, if necessary, to avoid loops or coils in the inlet line.

2.2.2. Power Cable Attachment

Attach the three wire grounded cable to the nine-pin fitting on the side of the case. Screw on firmly. Connect to any convenient source of 115 – 220 volt, 50-60 HZ power.

**SAMPLER MUST BE CONNECTED TO A POWER SOURCE PROVIDING A
CONTINUOUS EARTH GROUND FOR OPERATOR SAFETY!
ALL AC POWER INSTALLATIONS MUST USE GROUND FAULT
INTERUPTER (GFI) AT POWER SOURCE.**

2.3. INSTALLATION OF OPTIONAL ACCESSORIES

2.3.1. Gel Battery (P/N 15-516P)

Place the battery inside the sampler case next to the bottle. Connect the keyed cable end to the connector on the panel and tighten. Replace cover cap on external power connector to protect from corrosion.

2.3.2. External Battery Cable (P/N 15-508)

Connect the fitting on the external battery cable to the 9-pin connector on the left side of the sampler case. Attach the clips at the other end of the cable to any 12-volt battery. The black wire is negative (-), and the white wire is positive (+). The sampler will NOT operate on reversed polarity.

2.3.3. AC/Proportional Hookup Cable (P/N 15-510)

This cable takes the place of the standard AC cable that is supplied with the SCOUT III B. Connect the fitting on the proportional/AC hookup cable to the 9-pin connector on the left side of the sampler case. Connect the grounded AC plug to a power source. Connect the spade terminals on the 2-wire portion of the cable to the normally open contacts of the flowmeter sampling switch or recorder. This must be an UNPOWERED CONTACT. Connecting the sampler to a powered contact will damage the unit's control circuit!

2.3.4. DC/Proportional Hookup Cable (P/N 15-518)

This cable takes the place of the external battery cable for applications that require both battery operation and flowmeter pacing. Install as in 2.3.3.

3.0 OPERATION

The SCOUT III B can be set to collect 8, 4, 2, or 1 sample(s) per hour, 1 sample every 2 hours (1/2 on the Samples per Hour switch), 1 sample every 3 hours (1/3 on the Samples per Hour switch), or in proportion to flow (PROP on the Samples per Hour switch). To collect samples in proportion to flow, the Scout must be paced by a totalizer signal from a flow recorder. Individual sample volume is adjustable from 10 mL to 500 mL.

3.1. TIMED INTERVAL SAMPLING

The number of samples to be collected per hour is set on the Samples per Hour switch. To collect a two gallon composite in 24 hours, set the volume to the size indicated below for your sampling frequency. Set the sample volume as indicated in the chart using the procedure outlined in section 3.4 below.

Samples per Hour switch setting	Volume of each sample needed to fill a 1 gallon container in 24 hours:
8 = 8 samples per hour	@ 15 mL
4 = 4 samples per hour	@ 30 mL
2 = 2 samples per hour	@ 60 mL
1 = 1 sample per hour	@ 120 mL
1/2 = 1 sample every 2 hours	@ 240 mL
1/3 = 1 sample every 3 hours	@ 360 mL
PROP = only when paced by flowmeter	dependent on expected flow

3.2. FLOW PROPORTIONED COMPOSITE

Samples may be collected in proportion to flow when the sampler is used in conjunction with a flowmeter that provides an unpowered signal. The SCOUT III B must be connected to the flowmeter with an AC/Proportional Hookup Cable (P/N 15-510)

- (a) Connect the dual Hookup Cable to the 9-pin connector on the side of the sampler case.
- (b) Connect the spade terminals to the flow recorder actuator switch.
- (c) Adjust flowmeter contact rate to provide approximately 2/3 of container capacity under typical flow conditions.

3.3. AUTOMATIC TURN OFF

A float switch in the sample bottle will turn the SCOUT III B off when the bottle is full.

3.4. CALIBRATION

The calibration process enables the user to set the individual sample volume.

- 3.4.1. Determine the required number of samples per hour.
- 3.4.2. Determine the desired volume per sample following the chart in 3.1
- 3.4.3. Remove the sample delivery tube from the sample container and insert it in a suitable graduated container to measure sample volume.
- 3.4.4. Make sure that the sampler is connected properly to line or battery power.
- 3.4.5. Set the power switch to the AC or DC position, as appropriate.
- 3.4.6. Set the FUNCTION switch to the TEST position. The pump will reverse to purge and then collect a sample. Collect this sample in the graduated container.
- 3.4.7. When the desired sample volume has been collected, turn the FUNCTION selector switch to SET.
- 3.4.8. Set the FUNCTION selector to Purge Before. The unit will purge and then collect a sample;
- 3.4.9. Verify the sample volume. You can increase or decrease the sample volume by repeating calibration process

3.5. BEGINNING A COMPOSITE CYCLE

- 3.5.1. Place the sample container in the sampler with the float cap in place.
- 3.5.2. Push the end of the sample delivery tube in to the hole in the float cap.
- 3.5.3. Set the FUNCTION selector to the desired purge cycle. The sampler will go through its first sample collection cycle. This allows you to verify the proper operation of the sampler and check the sample size, if desired, before leaving the sampler in the field.
- 3.5.4. Close and latch the sampler cover before leaving. The sampler should never be left open when installed outdoors or where it could be splashed with liquid.

4.0 MAINTENANCE AND LUBRICATION

4.1. DAILY MAINTENANCE

Maintenance Task	Action Required
Clean sample containers	Wash with hot water and detergent. Rinse well.
Inspect inlet line and screen	Clear of rags and debris. Make sure the inlet line is in the liquid to be sampled.
Check pump tube	If no suction, replace with spare and order replacements. DO NOT USE OTHER TYPES OF TUBING as this can damage both the motor and circuit board.
Check battery (if used)	Recharge battery if below 10.5 VDC

4.2. PERIODIC MAINTENANCE

Maintenance Task	Action Required
Clean inside and outside of case	Wipe with a rag or paper towel and spray cleaner such as 409 or Fantastik® spray.
Check electrical cable for breaks, wear, or exposed wire.	Replace or repair.
Check for wear on drive belt	Replace if necessary
Clean inlet line	Wash with hot water and detergent. Rinse well. Replace if necessary.

4.3. LUBRICATION

This equipment **MUST NOT** be lubricated. Oiling or greasing the pump will cause slipping or gumming of the pump tube, which will prevent suction from lifting a sample.

4.4. LONG-TERM STORAGE

If the sampler is to be stored for a month or longer:

- (a) Clean sampler and sample container
- (b) Leave cap off sample container
- (c) Clean and drain all tubing
- (d) Remove pump tube from pump to keep it from becoming “set” or stuck together so that it will not create a suction problem when it is used again.

5.0 SERVICE AND REPAIR PROCEDURES

5.1 REPLACE PUMP TUBE ASSEMBLY

Refer to Drawing A588-1 SECTION 8

- (a) Disconnect sampler from power source.
- (b) Remove two (2) knurled head screws from pump head.
- (c) Remove pump head by pulling straight back and remove old tubing.
- (d) Stretch new pump tube several times before forming a loop.
- (e) Pull loop over roller cage and press tubing down into slot formed between rollers and pump housing.
- (f) Be sure that the thin Teflon thrust washer is on shaft before replacing pump head
- (g) Replace pump head and replace knurled head screws. Use the tubing clamps provided to prevent the pump tube from riding up into the pump housing.
- (h) Reconnect suction side of tubing to the connector on inlet line.
- (i) Connect delivery end of tube to the elbow on bottle cap.

5.2 REMOVE AND REPLACE PROGRAMMER PANEL

Refer to Drawing A588-1 SECTION 8

- (a) Disconnect sampler from power and lay case on back.
- (b) Remove four (4) 8-32 screws from edges of panel and lift straight up.
- (c) Disconnect MOLEX® electrical connectors and remove panel.
- (d) Reverse procedure to reassemble.

5.3 REMOVE AND REPLACE PUMP DRIVE ASSEMBLY

Refer to Drawing A588-1 SECTION 8

- (a) Disconnect sampler from power source.
- (b) Disconnect pump tubing from inlet tubing connector and bottle cap.
- (c) Remove control panel and disconnect motor and turn off switch connectors.
- (d) Remove three (3) screws holding pump panel to case supports.
- (e) Reverse procedure to reassemble.

5.4 REMOVE AND REPLACE PUMP DRIVE MOTOR

Refer to Drawings A588-1 and A588-3 SECTION 8.

- (a) Remove control panel as described in 5.2.
- (b) Turn panel over and loosen set screws holding large pulley to motor shaft.
- (c) Unsolder blue and orange leads to tabs on motor.
- (d) Remove two (2) screws holding motor to panel.
- (e) Install new motor. Be sure to use the lock washers under the head of each screw.
- (f) Resolder Blue lead to Black tab and Orange lead to Red tab.

- (g) Replace belt and pulley and tighten set screws. Check that belt is not too tight and adjust if necessary. Belt should be loose enough for a quarter turn.
- (f) Reconnect motor and turn-off switch lead before replacing panel.

5.5. REMOVE AND REPLACE PUMP HEAD

Refer to Drawing A588-1 SECTION 8

- (a) Remove control panel as described in 5.2.
- (b) Remove two (2) knurled screws from pump head.
- (c) Remove pump tubing.
- (d) Remove two screws holding the pump base to pump head.
- (e) Loosen pulley on pump shaft with Hex key and remove.
- (f) Reverse procedure to reassemble.

5.6. REPLACE POWER SUPPLY

Refer to Drawing A588-2 SECTION 8

- (a) Remove programmer panel as described in 5.2.
- (b) Remove 2 screws on support panel, holding power supply in place.
- (c) Turn power supply over to expose terminal strip.
- (d) Disconnect wires from terminal strip. Replace wires on new power supply. Turn power supply on its side and refasten with screws to panel.

5.7. REPLACE ENTIRE TURN-OFF CAP

Refer to Drawing A588-1 SECTION 8

- (a) Disconnect old turn-off cap assembly by pulling apart 3-place quick connector.
- (b) Connect new turn-off cap by reconnecting 3-place quick connector.

5.8. REPLACE FLOAT SWITCH IN BOTTLE CAP

Refer to drawing A588-2 SECTION 8

- (a) Disconnect turn-off assembly by pulling apart 3-place quick connector.
- (b) Cut leads from float switch and unscrew the float from cap.
- (c) Replace with new float switch. Solder and tape to leads on old connector. Polarity is not critical. Alternatively, you may insert push-pins into the 3-pin connector supplied to match the 3-place quick connector.
- (d) Pump motor should run with float down and turn off when float is pushed up toward cap. Reverse if necessary by removing retaining clip under float and reversing float.

NOTE: Sampler will operate without the turn-off switch installed, but the unit will not turn off automatically!

5.9. CIRCUIT BOARD & POWER SUPPLY REPAIRS

Circuit board must be returned to the factory for repair or replacement. “Fixing” what appears to be wrong may cause more damage, void all warranties, and will increase cost and time for subsequent repair. If the power supply appears to have overheated or fuses repeatedly blow, return the entire sampler. The problem may be interrelated, and will be faster and more cost-effective to check the entire unit.

Please call the factory (1-800-932-6266) to describe the problem and to receive an RMA number. Clearly mark the shipping carton with the RMA number.

5.10. PREPARATION FOR SHIPPING TO FACTORY FOR REPAIR

If you must return your SCOUT III B for repair, please follow the following shipping guidelines:

- (a) Contact the factory (1-800-932-6266) for a Return Materials Authorization (RMA) number.
- (b) Clean and decontaminate the sampler. Indicate in writing if the unit has been used to sample toxicants so that we may provide protection for our employees.
- (c) Pack the entire unit. Do not send only the part you believe is not working. PLEASE include the power cable.
- (c) **Do not send** inlet lines or sample containers. These needlessly add to the shipping weight of the sampler and may not be returned to you with your unit.
- (d) Be sure to include a note giving a clear description of the problem, your name and telephone number, and a return shipping address.
- (e) Always pack the Scout for shipping. Simply placing an address sticker on the case is not acceptable and almost always results in further damage to the unit. Units received without packing will be refused by our receiving department. The Scout is extremely rugged, but damage will occur if not properly packed.

6.0 TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CHECK	REQUIRED ACTION
Sampler totally inoperative:	A. No power B. Switch to DC/AC C. DC polarity reversed D. Blown Fuse E. Board or motor disconnected F. Motor failure G. Broken internal wire H. Defective circuit board	1. Power source 2. Power switch 3. Battery connections 4. Short circuit 5. MOLEX internal plugs 6. If motor will run on 12VDC directly 7. Internal wiring for breaks or loose solder joints 8. Return for repair	a. Reconnect/turn on b. Set to correct source c. A= + (white)/B = - (black) d. Correct e. Reconnect f. If not, replace motor g. Reconnect/resolder Replace
Motor runs but pump does not	A. Loose wire or broken pulley B. Broken or slipping belt	1. Pulleys & set screws 2. Adjust/replace belt	a. Tighten or replace
Pump runs but does not collect sample	A. Inlet out of water B. Pump runs “wrong way” C. Pump tube worn/split D. Loose tube connector E. Obstruction/cut in inlet	1. Position of inlet 2. Inlet & delivery line may be reversed. Motor leads may be reversed 3. Tube for wear or cracks 4. Inlet connectors 5. Inlet line & screen	a. Make sure inlet stays in water b. Reverse connections c. Replace tube d. Clean/reconnect e. Clean/replace
Erratic sample volume	A. Incomplete purging B. Timing of pump delivery C. Changing liquid level of source	1. Loops in inlet trapping liquid 2. Check delivery timing & volume for repeatability 3. End of inlet	a. Straighten inlet/reduce length b. Try a larger sample volume - sample may be too small for minimum pump time c. Make sure inlet is always in liquid

7.0 SPARE PARTS PRICE LIST

<u>PART #</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
01-129	Hinge Cap	1.00
01-202	Strain Relief for Inlet	6.00
01-130	Mounting Lugs & Screws (set of 4)	4.00
03-061	Float Switch	27.50
05-019	Control board assembly	250.00
06-033	3 AMP Fuse, 3 AG Standard	2.00
06-168	Fusepost, with cap	3.00
06-560	Connector Cover	9.50
08-003	Pulley, Motor	16.00
08-004	Pulley, Pump	18.00
08-005	Belt	12.00
11-012PK	Pump Tubing, 7015, 12" Pack of 4	26.00
11-015	Pump, 7015, long shaft, ball bearings	125.00
12-002	Clamp for pump tube	.50
12-003	Tubing Connector, pair	4.50
12-014	Inlet Weight, stainless	36.00
15-516P	Battery, Gel, rechargeable, 12 volt/7 amp hour	97.50
15-515	Charger for Gel Battery (P/N 15-516P)	112.50
15-504	Cable, AC Grounded, AMP	25.00
15-508	Cable, DC, with battery clips	25.00
15-510	Cable, AC/Proportional Hookup	29.50
15-585	Power supply	87.50
19-002	Bottle, one Gallon, plastic, with cap	16.00
19-080	Bottle, One Gallon, glass, with cap	15.00
20-017	Motor #24, filtered and wired	125.00
20-038	Inlet Assembly, 20' Vinyl with weight screen	42.50
20-039	Inlet Assembly, 12.5' Teflon® with weight screen	70.00
20-058	Turn-off Cap Assembly, PVC	30.00

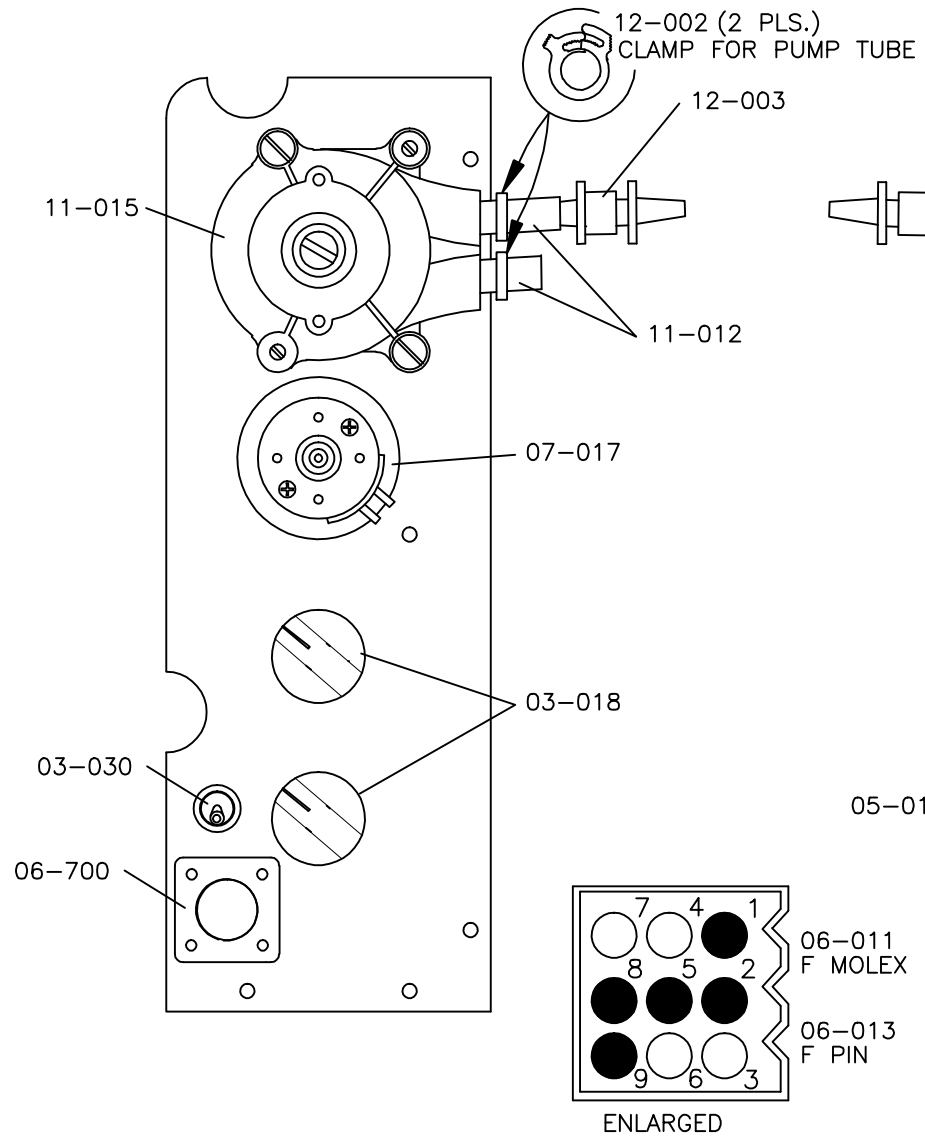
PRICES SUBJECT TO CHANGE WITHOUT NOTICE.
PLEASE CONTACT N-CON FOR CURRENT PRICE & AVAILABILITY.
(800) 932-6266 (706) 743-8110 (706) 743-8114 (FAX)

We now accept VISA or MasterCard (minimum order \$30)

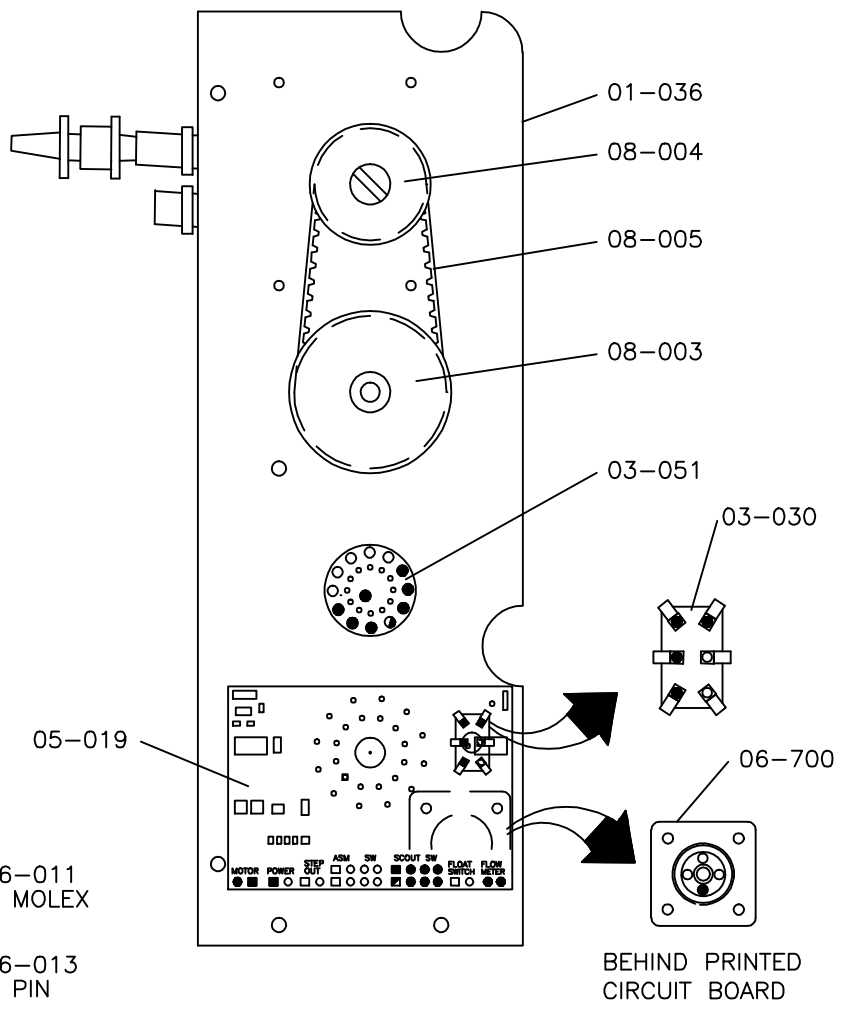
prices effective 10/01/05

8.0 WIRING AND ASSEMBLY DIAGRAMS

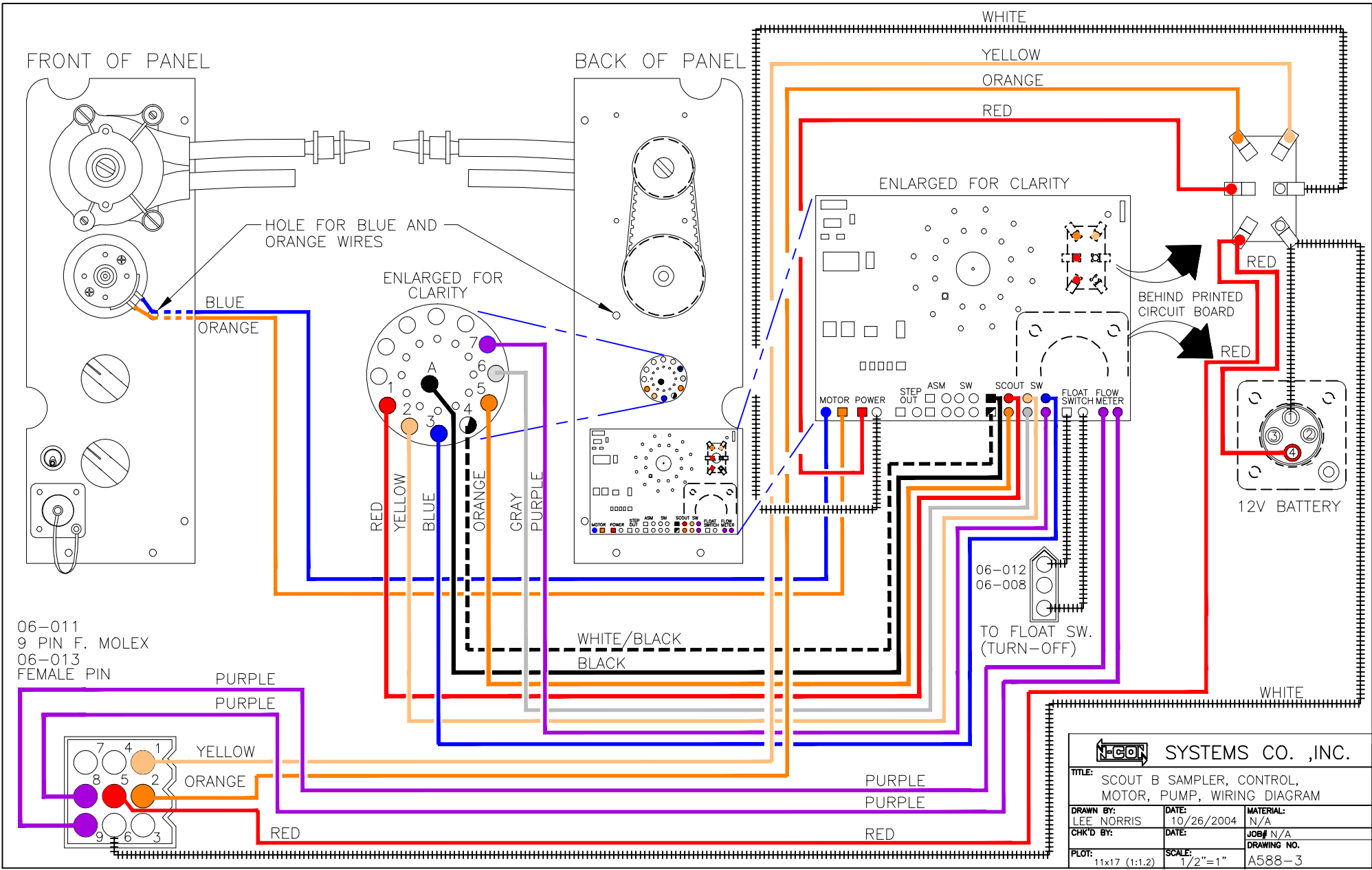
- 8.1. A588-1 SCOUT III B Motor/Pump/Control Assembly**
- 8.2. A588-3 SCOUT III B Control/motor/pump assembly wiring**
- 8.3. A588-4 SCOUT III B Support/power supply wiring diagram**



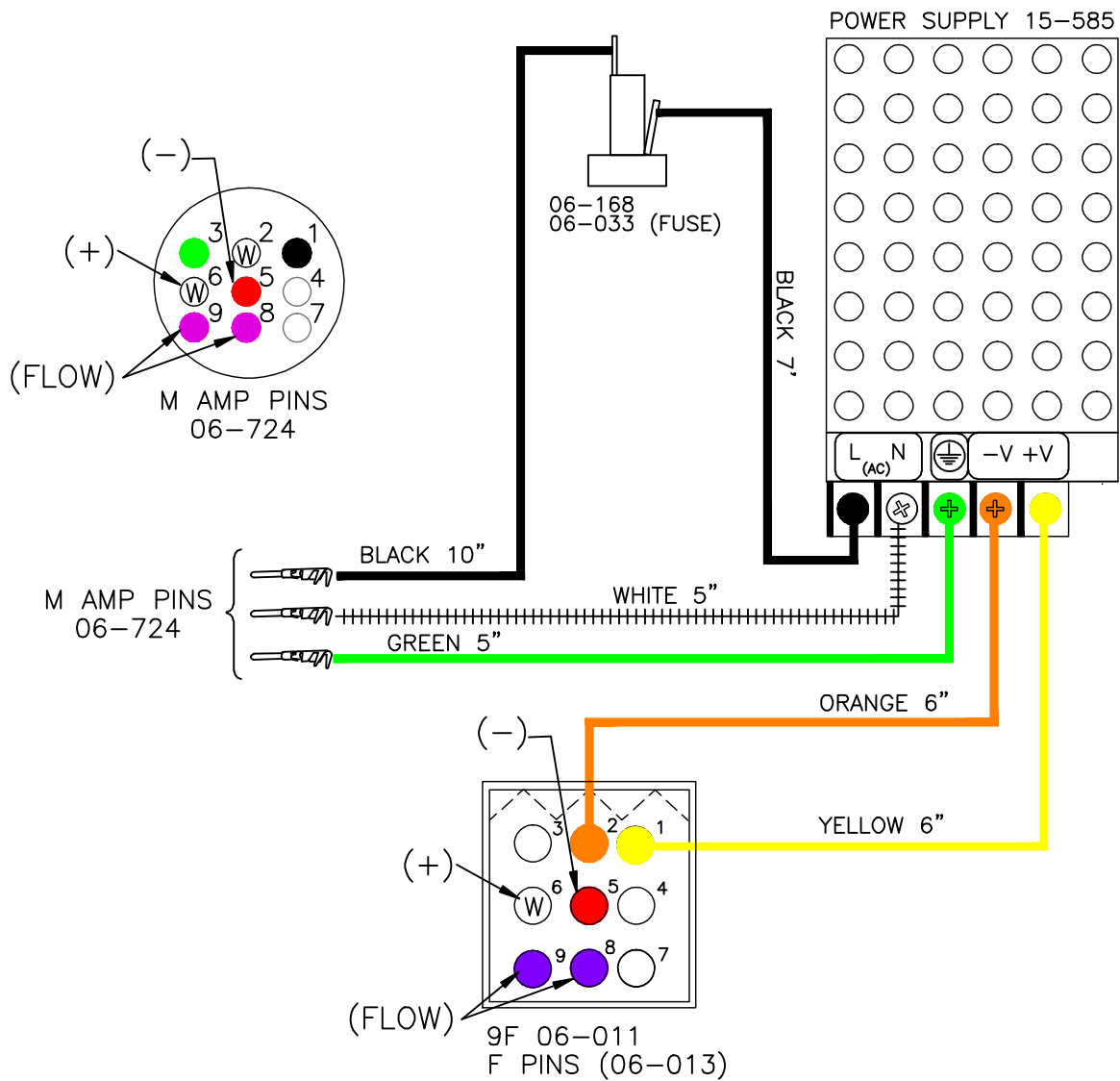
FRONT OF PANEL




MOTOR/PUMP/CONTROL ASSY
A500-1



NECON SYSTEMS CO., INC.		
TITLE: SCOUT B SAMPLER, CONTROL, MOTOR, PUMP, WIRING DIAGRAM		
DRAWN BY: LEE NORRIS	DATE: 10/26/2004	MATERIAL: N/A
CHK'D BY:	DATE:	JOB# N/A DRAWING NO.
PLOT: 11x17 (1:1.2)	SCALE: 1/2"=1"	A588-3



LEGEND: A=ADDED W=WAS D=DELETED R=REVISED				
REV	DESCRIPTION	DATE	DR.	APPR.
A	RELEASE FOR PRODUCTION	09/02/2010	LN	MB

 SYSTEMS CO., INC.			
TITLE: SCOUT B, CASE & PANEL SUPPORT POWER SUPPLY HOOKUP			
DRAWN BY: LEE NORRIS	DATE: 09/02/2010	MATERIAL: N/A	
CHK'D BY:	DATE:	JOB# N/A	
PL0T: 11x17 (1:6)	SCALE: 5/8"=1"	DRAWING NO. A588-4	REV: A

9.0 LIMITED WARRANTY

WHAT IS COVERED

N-CON Systems, Co. Inc. warrants that the product you have purchased will be free of defects in materials and workmanship.

FOR HOW LONG

This warranty covers all defects that you bring to the attention of N-CON Systems within ONE YEAR FROM DATE OF PURCHASE.

WHAT N-CON SYSTEMS WILL DO

If your N-CON product is defective we will repair or replace it and will ship it back (UPS Ground) to you free of charge. If UPS Blue or RED air is required, you will be charged the difference between air service and ground service to the same destination.

HOW TO GET SERVICE

Please call 1-800-932-6266 to OBTAIN RETURN AUTHORIZATION. You must return your N-CON product within one year of the date of purchase, shipping prepaid, to our factory at this address:

N-CON Systems Company, Inc. (Mail & Purchase Orders: P.O. Box 809)

Warranty Repair Service

180 North Street

Crawford, GA 30630

In any correspondence with us, or if you send part, but not all the product, please include both Model and Serial # of the product.

WHAT THIS WARRANTY DOES NOT COVER

Your rights and remedies are specifically limited to those set forth in this warranty. N-CON Systems disclaims any and all implied warranties including those of mercantability or fitness for a specific purpose. N-CON Systems shall not be liable for any special, incidental, or consequential damages. In no event shall N-CON Systems liability to you exceed the purchase of your N-CON product.