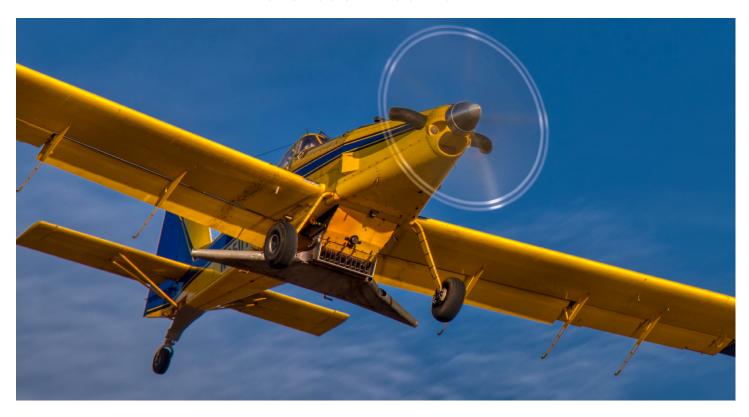


DRY INSTALLATION GUIDE

875-0387-200 Rev B



Overview: This installation guide lists all the parts in the IntelliFlow 2 (IF2) dry kits and instructions on installing the IF2 components, associated cables, and switches.

Read this manual thoroughly before beginning the installation. If you have any questions, contact your local dealer or Satloc Customer Service.



PRODUCT DESCRIPTION AND DETAILS

With the IntelliFlow 2[™] (IF2) control system on board, the installed GPS, working with IF2, automatically controls application rates. This produces an accurate constant application rate or a variable rate based on prescription maps (PMAPs) and/or 3rd party software. The required application rates can be pilot selected, or PMAPs can be created using Satloc MapStar® desktop software.

Enter desired rates through the GPS interface, and the IF2 system will regulate and maintain selected rates. Once installed, the Falcon Pro[™] or G4[™] GPS controls the IntelliFlow 2[™] system settings. Spray rates and dry gate openings are automatically controlled with an accurate constant application rate or a variable rate based on application selections or prescription maps (PMAPs) in the GPS system. Fine-tune applications through the rate bump feature for more precise applications.

Satloc Falcon Pro and Satloc G4 will switch between liquid and dry settings with ease. Control your Transland Hydraulic 5", 7.5", or 10" gate system inside Falcon Pro or Satloc G4 and IntelliFlow 2[™] connections. The IntelliFlow 2[™] control system comes with a controller, associated cabling, and required unlocks.

Dry Application Features Include:

Liquid and Dry control options

Regulate and maintain selected rates

Fine tune application with rate bump

Linear or rotary encoder support

5", 7.5", or 10" Gates

Constant or variable rate applications

Gate increments of 1/32"

This system sprays precise patterns using constant rate flow control, thereby reducing:

Fuel

Flying time

Application costs

Pilot fatigue

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Latest Version of the IntelliFlow 2 Dry Installation Guide

Satloc is dedicated to providing updated versions of installation guidebooks for its customers. Scan the QR code to verify you have the latest version of the IntelliFlow 2 Dry Installation Guide or click this link to ensure this is the newest version https://satloc.com/products/intelliflow-2/. Then, scroll down to the "Documentation" section.



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SAFETY INFORMATION

Read and Follow Safety Messages

- In these instructions, you may see the heading AWARNING: and/or the safety alert symbol . They indicate a hazardous situation that, if not avoided, could result in death or serious injury. The safety messages provide information to identify a hazard associated with potential injury.
- Read and understand this manual and all the warnings below before installing, operating, or performing maintenance or service. FAILURE TO DO SO MAY CAUSE IRREVERSIBLE DAMAGE TO YOUR SYSTEM.
- Keep this manual and all related safety information with the manuals for your aircraft.

AWARNING:

Plan your installation by considering the following:

- Cable lengths
- Clearance space
- Power source
- Aircraft structure
- Visibility

▲WARNING:

Consider using existing hardware and hardware locations. Avoid drilling holes that may damage other equipment (such as structural frame members, electrical cables, or fluid lines).

▲WARNING:

Do not obstruct the view of, or access to, other instruments or the flying visibility of the operator.

▲WARNING:

Do not allow anyone to operate without instruction.

AWARNING:

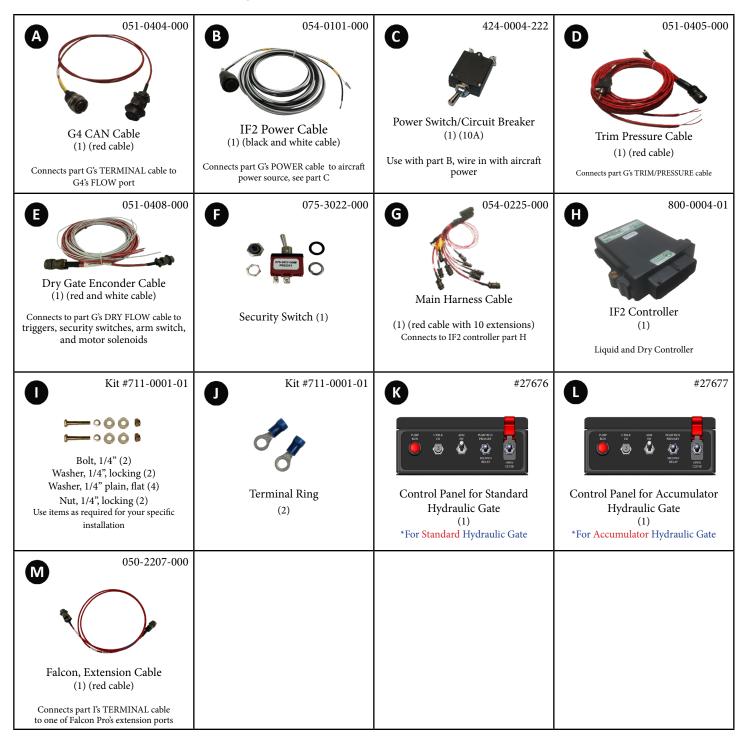
For trouble-free operation and maintenance of your IF2 system, adhere to the following recommendations.

- Avoid using IF2 in extreme environmental conditions (40-140°F is recommended operating temperature range).
- Wash the hopper/boom system thoroughly and methodically after spray sessions.

PARTS COVERED BY THIS INSTALLATION GUIDE

This guide applies to all IntelliFlow 2 dry installations for G4 and Falcon Pro and covers all IntelliFlow 2 kits. **The table** describes the parts that may be included in your installation.

Table 1: IntelliFlow 2 Dry Installation Parts



INSTALLING INTELLIFLOW 2

Controller Installation

Mount the controller in an available space on the aircraft, for example, in or around the baggage compartment. Ensure there is enough space for making connections. Access is needed behind the mounting surface to attach the nuts to the

bolts (part I). When you have selected the mounting location, use the controller as a template to mark fastener positions. Drill 1/4" holes for the fasteners and secure the controller to the aircraft using hardware (part I).

Cables and Connections for IF2 Dry Install

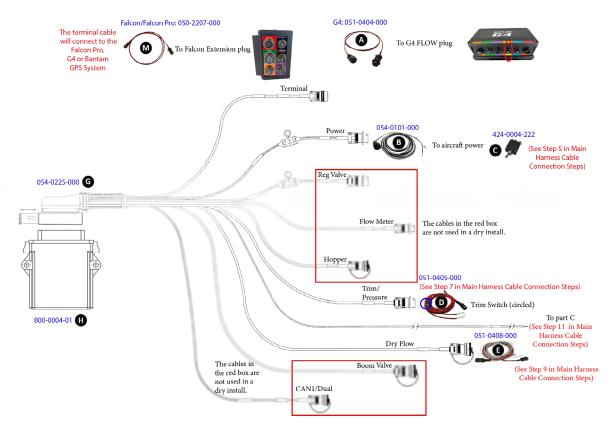


Figure 1: Display of How to Connect Cables and Parts for an IntelliFlow 2 Dry Install



- Store excess cable lengths with a minimum six-inch bend radius.
- Do not coil cables (introduces noise).
- Avoid high-temperature exposure (for example the exhaust, exhaust manifold) when routing.
- Hand tighten connections only; do not use tools (overtighten).

Main Harness Cable Connection Steps

- 1. Pull the red sliding lock on part G's interface and connect it to part H.
- 2. Push the red sliding lock until it snaps back into place.
- 3. Connect part G's TERMINAL cable to part A and the G4 FLOW port **OR** part M and one of Falcon Pro's extension ports (depending upon the use of a Falcon Pro or G4 GPS).
- 4. Connect part G's POWER cable to part B.
- 5. With part B and part C, ensure part C is a) wired into the aircraft's power supply and b) cockpit-mounted within easy reach of the pilot. (*Install per pilot's preference*.)
- 6. Connect part G's TRIM/PRESSURE cable to part D.
- 7. Ensure the trim bump switch on part D (circled in blue) is cockpit-mounted within easy reach of the pilot. (*Install per pilot's preference*.)
- 8. Connect part G's DRY FLOW cable to part E.
- 9. Connect part E's encoder cable to the plane's dry gate's encoder.
- 10. See <u>Figure 2 Dry Flow Connections Transland Standard Hydraulic Gate</u> or <u>Figure 3 Dry Flow Connections Transland Accumulator Hydraulic Gate</u> to connect Cable E to the control panel (part #27676 for standard hydraulic gate or part #27677 for accumulator hydraulic gate).
- 11. Connect the single red ignition wire of part G to +24VDC at part C for fused protection.

Dry Flow Connections for Transland Standard Hydraulic Gate

Please refer to Transland document 98607 for more details.

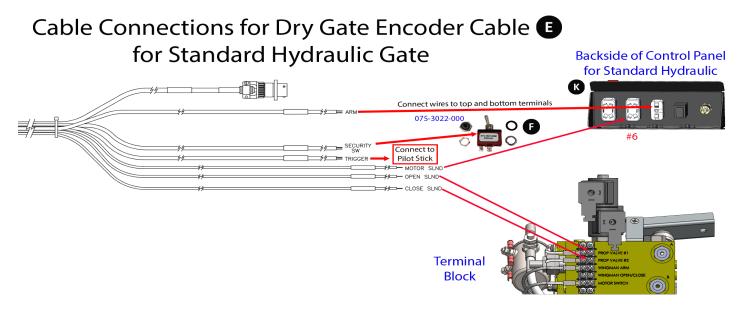


Figure 2: Display of How to Connect the Wires of Cable E for a Standard Hydraulic Gate

Terminal Block Connection Steps

- 1. Part E connects (in part) to the TERMINAL BLOCK (connections panel) at the top rear of the hydraulic power pack.
- 2. Connect part E's OPEN SLND wire to PROP VALVE #1 terminal and part E's CLOSE SLND wire to PROP VALVE #2 terminal.

Control Panel Connection Steps

- 1. Part E connects (in part) to the backside of part K.
- 2. Connect part E's MOTOR SLND wire to the #6 terminal of the primary/secondary switch on the backside of part K.
- 3. Connect part E's ARM cable to #1 and #2 terminals of ARM SWITCH on the backside of part K.

Pilot Stick Connection Steps

1. Connect part E's TRIGGER cable to the pilot stick.

Security Switch Connection Steps

1. Connect part E's SECURITY SW cable to part F.

Dry Flow Connections for Transland Accumulator Hydraulic Gate

Please refer to Transland document 98608 for more details.

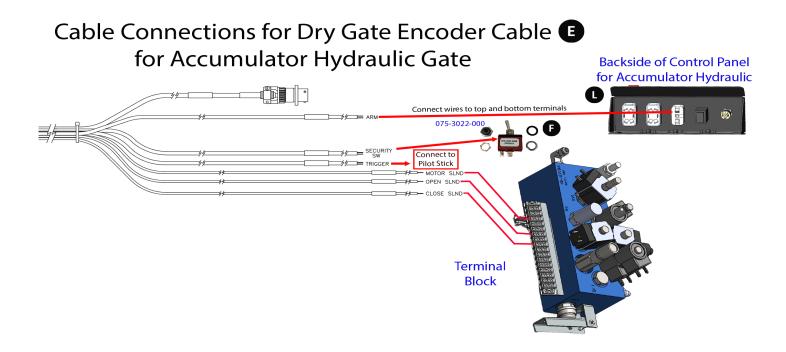


Figure 3: Display of How to Connect the Wires of Cable E for an Accumulator Hydraulic Gate

Terminal Block Connection Steps

- 1. Part E connects (in part) to the TERMINAL BLOCK (connections panel).
- 2. Connect part E's MOTOR SLND wire to the TERMINAL BLOCK #3 terminal.
- 3. Connect part E's OPEN SLND wire to PROP VALVE #6 terminal and part E's CLOSE SLND wire to PROP VALVE #8 terminal.

Control Panel Connection Steps

- 1. Part E connects (in part) to the backside of the part L.
- 2. Connect part E's ARM cables to #1 and #2 terminals of ARM SWITCH on the backside of part L.

Pilot Stick Connection Steps

1. Connect part E's TRIGGER cable to the pilot stick.

Security Switch Connection Steps

1. Connect part E's SECURITY SW wire to part F.

DRY FLOW COCKPIT CONTROLS INSTALLATION

- 1. Install the Transland part #27676 or part #27677 3-switch mounting panel.
- 2. Install part F so that mechanics/technicians on the ground can work safely around the gate.
- 3. Ensure all cockpit switches are easily accessible to the pilot (see also *Figure 1: Display of How to Connect Cables and Parts for an IntelliFlow 2 Dry Install*).

Table 2: Arm, Security, and Trigger Switches

Switch	Description/Usage
Arm	To ensure unintentional use of the trigger switch does not activate the gate, the Arm switch must be OFF until the pilot nears the work area. When ON the system is pre-energized in preparation of operation of the gate by the trigger switch.
Security	The Security switch disables the IF2 system from making any commands to the gate (it is effectively a gate isolation switch). When ON, the gate cannot be activated, ensuring that it is, for example, safe for a mechanic/technician to work on or around the gate.
Trigger	When the Arm switch is ON, and the Security switch OFF, the trigger switch activates the gate. If the operator is applying at a constant rate, he/she will press and hold the trigger switch when entering the polygon (if the trigger switch is wired to the joystick, and on a momentary switch), and release it when exiting.

Technical Support

To find an authorized dealer near you, visit www.satloc.com.

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