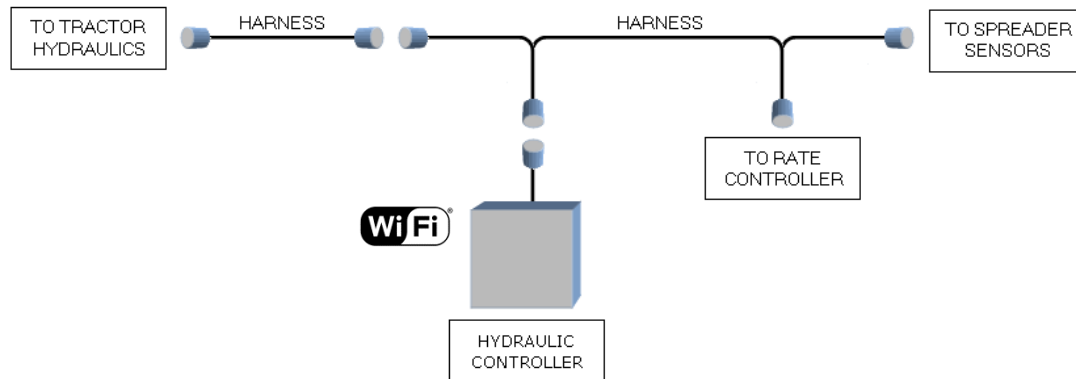


RATEX AUTO HYDRAULICS – CAB REAR CONNECT

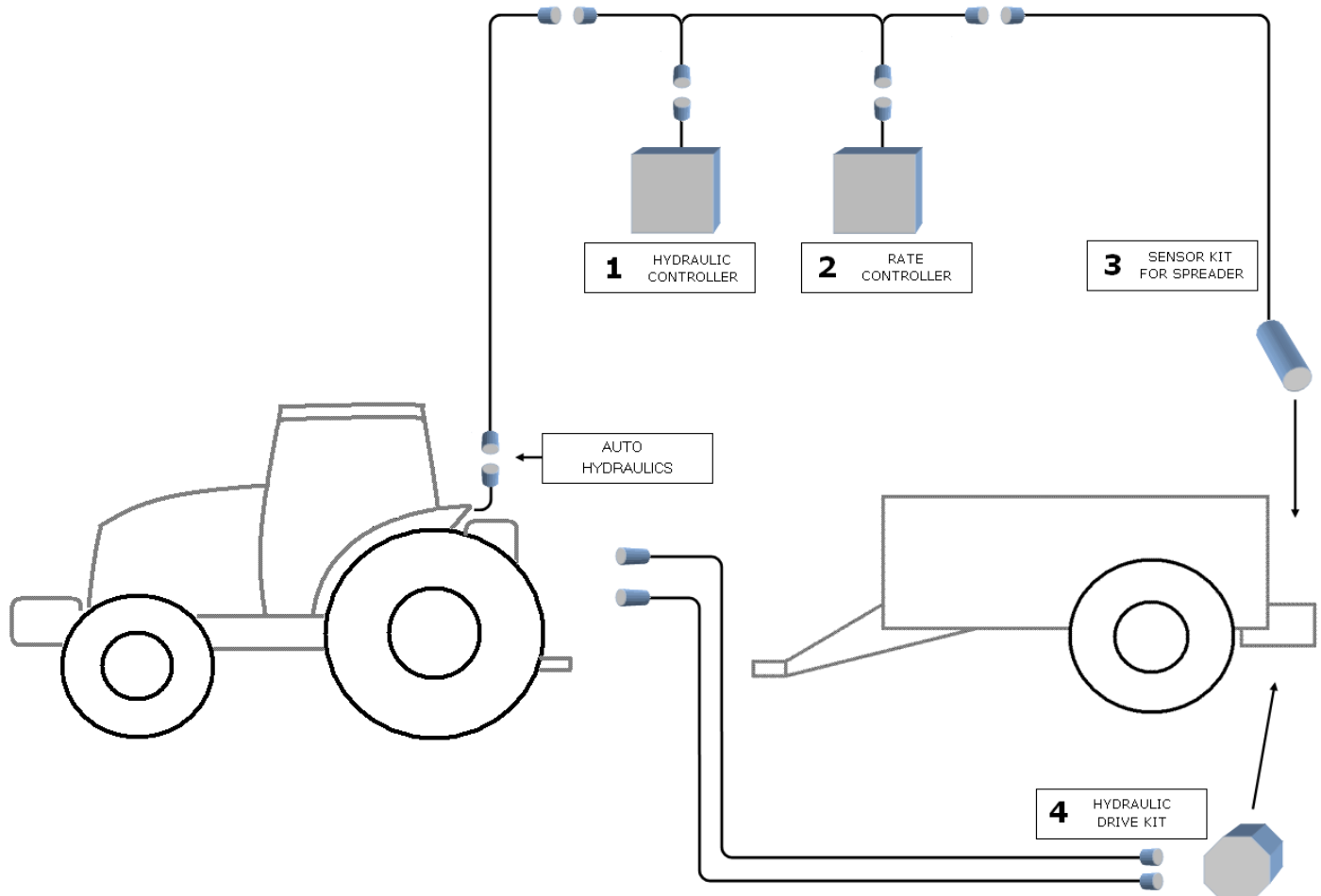
KIT COMPONENTS

- Hydraulic Controller
- Wiring harness



OVERVIEW

- Allows your existing rate controller to take command of the tractor hydraulics
- Hydraulic controller has internal WIFI for settings and status info
- Basic install shown below
- Controllers can be mounted on the Tractor or on the Spreader



INSTALL AND CONNECT TO TRACTOR

- Key off
- Mount the controllers on the tractor or spreader
- Connect the harness to both controllers and the spreader sensors
- Connect the harness to the Auto Hydraulics Connector at the rear of the cab, shown below



AUTO
CONNECTOR

HYDRAULIC HOOKUP

- Connect belt hoses to remote number 3
- Connect spinner hoses to remote number 1
- Set the max hydraulic flow to 70% for the remotes
- Pushing the levers forward will manually run the belt or spinners

RATEX SETUP

The controller has an internal WIFI webserver. You can use any phone/tablet/laptop to setup the controller. Controllers are setup before shipping, you don't need to do this procedure.

- Tractor key on
- Search for WIFI hotspots on your mobile device
- Connect to the WIFI point called TRACTOR
- Open your web browser and access the website <http://tractor.com>
- Follow the instructions on the screen

TRACTOR HYDRAULICS

- This system uses the AUTO Hydraulic function in your tractor
- Some information is in your Operators Manual (see Remote Hydraulic Auto Mode)
- Some tractors require a switch to be installed in the armrest, shown below



- The AUTO Hydraulic function must be enabled on the tractor
- Below is an example from a legacy model
- The setup is similar for most tractors

1. Key off
2. Press the PROG button, do not release it
3. Key on
4. Wait 5 seconds
5. Release PROG button
6. Cornerpost shows CONFIG MENU
7. Select AUX/HITCH/PTO option from the list
8. Select EHR from the list (Electronic Hyd Controller)
9. Select AUX SETUP from the list
10. Set the SCRPR option to: 2 LASER
11. Select EXIT

- This will display AUTO 1 3 at the top of the display
- The armrest switch will set remote 1 and 3 to AUTO/MANUAL

NOTE

When the tractor is not moving, some models will disable the AUTO function (the belt and spinners will not run automatically). You can still use the levers in MANUAL mode to operate the remotes



RATE CONTROLLER SETUP EXAMPLE

- Enter all the required bin and product settings
- Select valve type as PWM CLOSE
- Enter settings shown below
- The CONTROL VALVE CALIBRATION number below should be fine-tuned for best performance

PWM Settings

Control Valve Calibration **2511**

Coil Frequency **122**

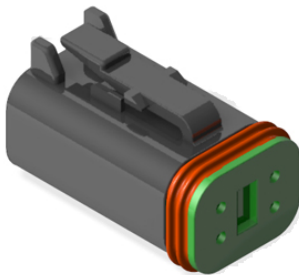
High Limit **255**

Low Limit **5**

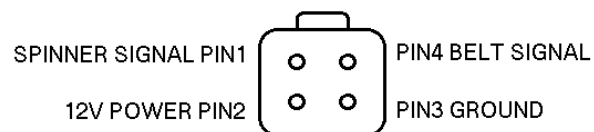
Calibrate PWM Limits

WIRING INFORMATION

- Standard harnesses are wired for PWM Positive inputs
- The Ratex hydraulic controller should be set to PWM
- PWM wiring from Rate controller:
Red=12volt, Black=Ground, Yellow=PWM Belt, White=PWM Spinners
- Optional REG or Servo Valve wiring from Rate controller:
Red=12volt, Black=Ground, Brown=Master on/off, Yellow=Increase, White=Decrease
- 4Pin deutsch connector below goes to the sensors on the spreader



LOOKING AT FEMALE PINS



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