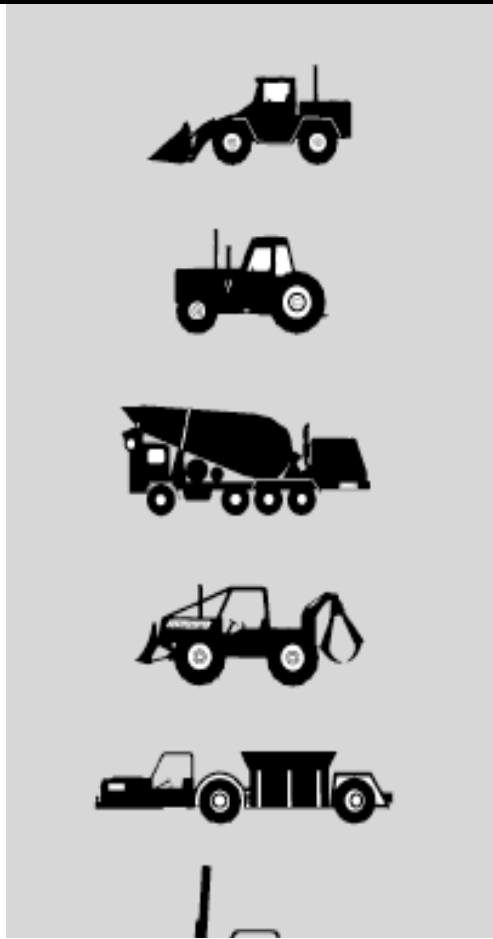


# Transmission Controller Systems Model APC200



***SPICER OFF-HIGHWAY PRODUCTS***

# APC200 TRANSMISSION CONTROLLER SYSTEMS

Dedicated to the new TE Series Spicer®, the APC200 controller system makes possible a new level of shift quality that is truly world class. To assure the smoothest possible shifts and direction reversals, the load sensing system automatically adjusts the shift strategies depending on vehicle operating conditions. The APC200 also protects against “roll-back” when shifting at low speeds on a steep incline.

Although automatic shifting is a standard feature on all APC200 applications, a manual override feature allows the operator the option of holding the transmission in any individual gear range. Available as an option, ‘kickdown’ to first gear can be fully automatic and will occur at exactly the correct timing so that shift is also smooth. Shift points and other operating parameters can be optimised with a user-friendly, PC-based, graphical parameter editor and can be permanently saved in the controller's memory.

The optional electronic controlled inching (ECI) module offers precise position control while working with the vehicle hydraulics. The inching system gives precise control over vehicle speed totally independent from the engine speed.

Total drivetrain control is achieved when the APC200 is also interfaced with the vehicle engine and brakes. Besides improved fuel efficiency, single pedal operation and transparent integration of the inching system with the hydraulics are just a few of the benefits in using the APC200. The engine can be controlled directly, or through the CAN – bus using the SAE J1939 standard.

The optimised, vehicle specific parameter-sets can be established and maintained on the PC for later use and/or end of production line customisation of the control system.

Further, advanced tools for system optimisation and troubleshooting as well as tools to support end of line programming are available.

## Controller Systems Capabilities Matrix

Function / Feature	EGS50	APC50	EGS70	APC70	APC160	APC200
Drive Train Protection	✓	✓	✓	✓	✓	✓
Speed Sensed Automatic Shift	✓	✓	✓	✓	✓	✓
Load Sensed Automatic Shift			✓	✓	✓	✓
Electronically Controlled Clutches			✓	✓		✓
Electronic Inching						✓
Hydrostatic Pump & Motor Control				✓	✓	✓
Electronically Controlled Braking					✓	✓
Engine Servo Control					✓	✓
Seering Axle Control		✓			✓	✓
Diagnostics	✓	✓	✓	✓	✓	✓
End-User Parameter Tuning	✓	✓	✓	✓	✓	✓
Integrated Shift Lever	✓		✓			
Display	8 LED	2 Digit	8 LED	2 Digit	4 Digit	4 Digit
Analog Control			✓	✓	✓	✓
CAN Network Integration			2.0A	2.0A	2.0B	2.0B
ASAE J/1939 Compliant					✓	✓
Sealing	IP66	IP65	IP66	IP65/66	IP66	IP66

### APPLICATION POLICY

Capability ratings, features and specifications vary depending upon the model type of service. Application approvals must be obtained from Spicer Off-Highway Products Division. We reserve the right to change or modify our product specifications, configurations, or dimensions at any time without notice.



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