



RemoteTech®

Taking your products to greater heights.

RemoteTech® is a complete vehicle management system that is incorporated on all new Hoist products. RemoteTech® provides superior serviceability, the ability to customize vehicle functionality, maintenance safeguards, vehicle monitoring and automated customer support. The RemoteTech® management system is composed of a main logic controller, wireless communication system, record keeping database, multiple component sensors and vehicle controlling devices.

A review of component sensors and controlling devices used throughout the vehicle offers a better understanding of the numerous benefits of the RemoteTech® system. Although dependent on the application and model of liftruck, typical component sensors include the following: filter differential pressure, operator control, engine, transmission, hydraulic pressure, and vehicle impact. Typical controlling devices include the following: hydraulic valves, electric solenoids, engine throttle solenoid, transmission shifting solenoids, electric motors, warning lights and operator alarms.

RemoteTech® improves vehicle serviceability by allowing a trained mechanic to plug a laptop computer into the main logic controller to monitor the state of all vehicle sensors and controlling devices. For example, if the lift of the vehicle is not working properly, then a mechanic would be able to check the input signal from the lift joystick as well as the output signal to the lift valve in order to determine which component has failed. This manner of troubleshooting can be applied throughout the entire vehicle. Through the use of the wireless communication system, this type of troubleshooting can also be performed remotely by a Hoist associate, decreasing servicing costs and minimizing vehicle downtime.

Vehicle functionality can be improved by customizing vehicle controls to meet the specific needs of the operator. For example, joystick function can be programmed to match the operator's preference. This includes function speeds (e.g. lift, lower, tilt, etc.), acceleration profiles, time-delays and safety lock-outs. Other vehicle parameters which can be programmed

Manage your Fleet

RemoteTech® is an extremely effective feature for managing your fleet. Engine hours, service intervals and vehicle overloads can all be remotely monitored. Find out which liftrucks in your fleet are being used the most, which need to be serviced soon and which are being improperly operated. The next generation of RemoteTech®, slated for release in January 2007, will feature operator key code capabilities limiting access to specific users and identifying individual operator usage.

include vehicle speed, gear lock-out and transmission shift points.

The RemoteTech® system ensures that the vehicle is properly maintained. Sensors monitor critical components and indicate when they need to be replaced. In the event a filter (e.g. air, transmission, hydraulic) is plugged, an indicator in the operator's area will be activated. Additionally, a sensor will notify the logic controller to automatically send an email alerting the customer.

By monitoring critical parameters, RemoteTech® helps prevent vehicle component damage. For example, if the coolant temperature of the engine exceeds an unsafe level, an indicator in the operator's area will be activated and the logic controller

will automatically send an email alerting the customer. Other parameters monitored by the logic controller include the following: oil pressure, engine boost pressure, air inlet temperature, barometric pressure, battery charge, fuel temperature, engine rpm, transmission temperature and transmission pressure. In addition to guarding against vehicle component damage, the logic controller also monitors the vehicle for impact and overload occurrences. In the event the vehicle is overloaded or sustains a large impact; the logic controller can automatically send an email to the operator's supervisor notifying them of the incident.

RemoteTech® allows Hoist to provide superior customer service to the end user through the use of the onboard wireless communication system. This system allows Hoist associates to monitor and troubleshoot the vehicle remotely. Immediate email alerts of component failures are directed to Hoist resulting in superior parts support. End users are also automatically notified of failed components. The database of all recorded vehicle occurrences allows Hoist to make necessary adjustments to resolve the issue. For instance, if the data reveals that the end user is changing the air filter too frequently because of a change in environment conditions then Hoist may be able to recommend a better air filter for the application.



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