

# Auto Shift Controller ASC - 206 (Standard)

## Product Description

The Autoshift controller is an electrical control system, specially designed for use on forklift trucks with internal combustion engines.

Its primary purpose is to prevent the operator from operating the truck outside of the design parameters, e.g. selecting the reverse gear when traveling in excess of 6.0 km/h ( 3.73mph ) in a forward direction, and vice versa.

The Autoshift controller is mounted on a convenient position away from excessive heat sources and retrofits into the truck's electrical system. An inductive speed sensor is mounted on the transmission case where it will pick up a pulse from a gear tooth pattern. This pulse is used to monitor the truck in motion and its travel speed. To enable the system to change gears smoothly, the shift points for offset speed are adjustable.

An operator no longer has to change gears with his hands, therefore he can be more productive.

The Autoshift controller prevents strain and abuse to the transmission by changing gears up and down automatically. It also prevents damage to the half shaft, excessive tyre wear and heat to the transmission.

## Features

- 1. 2 - speed auto shift control
- 2. Prevent downshifting at high speed
- 3. Inhibit selecting direction at high speed outside of the design parameters.



## Adjustments

SW1 ( Low-High Shift Point )		SW2 ( Direction Inhibit Point )	
NOTCH	Vehicle Speed	NOTCH	Vehicle Speed
0	2.5 km/h (1.55 mph)	0	3.3 km/h (2.05 mph)
1	3.0 km/h (1.86 mph)	1	3.6 km/h (2.24 mph)
2	3.5 km/h (2.17 mph)	2	3.9 km/h (2.42 mph)
3	4.0 km/h (2.49 mph)	3	4.2 km/h (2.61 mph)
4	4.5 km/h (2.80 mph)	4	4.5 km/h (2.80 mph)
5	5.0 km/h (3.11 mph)	5	4.8 km/h (2.98 mph)
6	5.5 km/h (3.42 mph)	6	5.1 km/h (3.17 mph)
7	6.0 km/h (3.73 mph)	7	5.4 km/h (3.36 mph)
8	6.5 km/h (4.04 mph)	8	5.7 km/h (3.54 mph)
9	7.0 km/h (4.35 mph)	9	6.0 km/h (3.73 mph)



Adjustment Switch

## Low-High Shift Point (SW1)

ASC-206 allows you to set the 2 speed Auto Gear Shift Point, the maximum travel speed at which the Auto Shift Controller up-shift or down-shift the transmission automatically according to the vehicle speed. For adjustment of 2 speed Auto Gear Shift speed, the SW1 switch is used on the printed circuit board.

For example if SW1 put to 5<sup>th</sup> notch, the 2 Speed Auto Gear Shift speed will be 5.0 km/h(3.11 mph), which is factory setting value as a default.

## Direction Inhibit Point (SW2)

Auto Shift allows you to set the Direction Inhibit Speed, the maximum travel speed at which the transmission can be reversed. For adjustment of direction inhibit speed, the SW2 switch is used on the printed circuit board.

For example SW2 is put to 7<sup>th</sup> notch, the Direction Inhibit Speed will be 5.4 km/h (3.36 mph), which is factory setting value as a default.