



# Truck Components

Eaton Light, Medium and Medium Heavy Transmissions

FS(O) -8209

- Designed for vehicles with engines up to 1250 Nm of torque.
- Rating to be used as a guide and not as an approval.
- For approval the application must conform to Form FUL-169M or complete vehicle specification must be submitted on form FUL-170.



# Eaton® Truck Components FS(O)-8209

## Specifications:

### Speeds:

9 forward (all synchronised),  
1 reverse.

### Power Take-Off openings:

Left side: two standard SAE openings,  
6 bolt short length (horizontal  
mounting)

Bottom two standard SAE openings, 6  
bolt short length (vertical mounting)

Extended countershaft PTO standard.

### PTO of gear speeds (% of engine speed):

Side (or bottom) mounded:

Left side/bottom PTO's turn at 46%  
(Overdrive 62%) of engine speed.

On the extended countershaft: 76%  
(Overdrive 103%) of engine speed.

### Speedometer:

Provision in rear bearing cover  
(standard magn. pick-up).

### Reverse light switch:

Provision in Shift bar housing for  
installation of switch.

### Neutral switch:

Provision available.

### Weight:

Incl. output coupling, low remote con-  
trol 152 kg (dry)

### Oil Capacity:

8.5 litres.

## Design features 8209:

Improved box gearing.

CBN ground range clearance.

Increased capacity planet car-  
rier Shot peened 2nd gear.

11% increase in capacity of  
layshaft taper bearings.

Non-synchronized crawler  
(synchronizer is optional)

Range change inhibitor (to  
help prevent the driver dam-  
aging the engine and trans-  
mission).

## Ratios and Steps:

### GEAR RATIOS FS(O) - 8209 SERIES

Speed	FS-8209A	FS(O)-8209A
8	1.00	0.75
7	1.34	1.00
6	1.85	1.38
5	2.48	1.86
4	3.55	2.65
3	4.77	3.55
2	6.55	4.90
1	8.81	6.59
crawler	12.64	9.45
REV	13.21	9.88

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