

**Conflict Types**

**The Conflict Type describes a conflict situation which can result in an accident.**






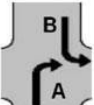

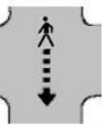



In Germany, the Conflict Type (also called „Unfalltyp“ or Type of Accident) is i.a. used by the police for the codification of road traffic accidents.

The conflict type is a generic description, including intended trajectories of involved road users, as well as infrastructure elements. It is not necessarily ODD-specific. E.g. a longitudinal traffic conflict, like 602, can be observed on highways as well as on rural roads.

The conflict types specified in this document, can describe the great majority of all conflict situations, preceding any road traffic accident.







































The catalogue of conflict types can therefore be used to deliver a sound basis for the functional scenario repository.

### Symbols

	Vehicle (driving)		non involved Vehicle (driving)
	Vehicle (loss of control)		non involved Vehicle (parked)
	Vehicle (parked)		Label of Participant A and B (necessary for mapping of the participants in the database)
	standing Vehicle (in traffic)		Pedestrian
	stopping Vehicle (traffic jam)		Bicycle
<b>W</b>	Vehicle have to wait / stop		Sight Obstruction

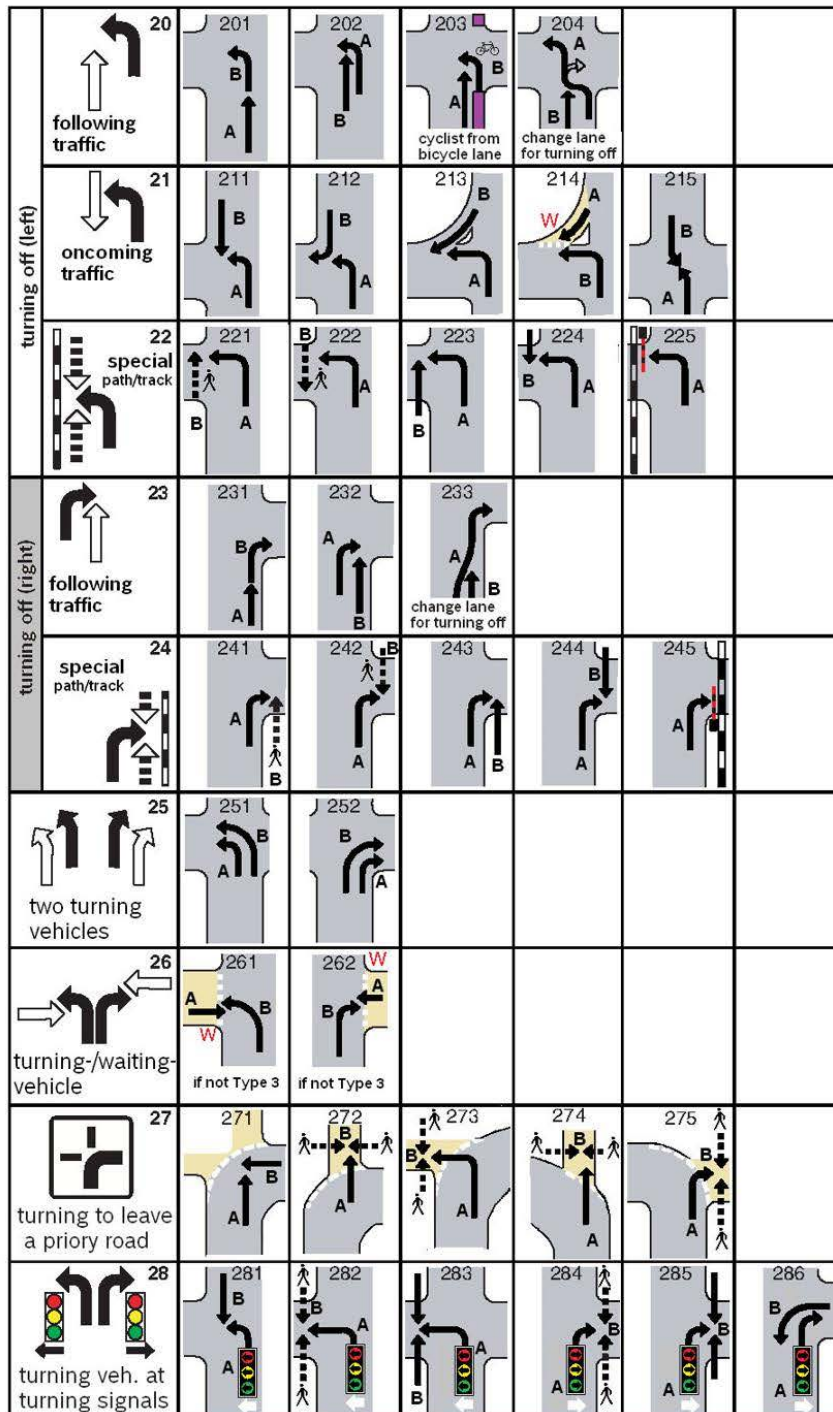
## Right-hand traffic

### Type 1: Loss of control

without other influence	10	101	102	103	104
					
	<b>curve</b>	bend to left	bend to right	bend to left overtaking	bend to right overtaking
	11	111	112	113	114
					
	<b>turning priority rd.</b>			overtaking	overtaking
	12	121	122	123	
					
	<b>when turning or entering</b>				
	13	131	132	133	134
					
<b>swaying road</b>			overtaking	overtaking	
14	141	142			
					
<b>straight</b>		overtaking			
... with influence of:	15	151	152	153	
					
	<b>incline decline</b>				
	16	161	162	163	
					
<b>traffic island</b>					
17	171	172	173		
					
<b>road narrowing</b>					
18	181	182	183		
					
<b>bumpy road</b>					

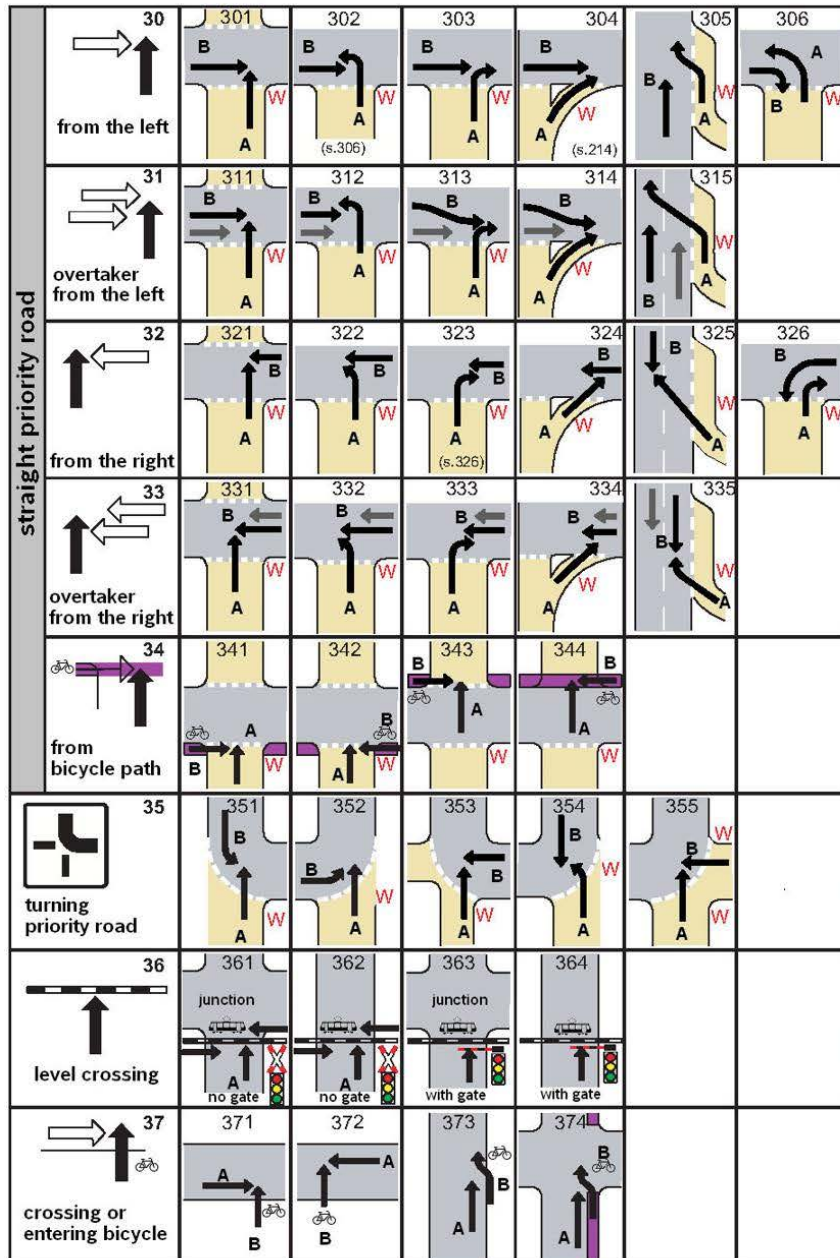
## Right-hand traffic

### Type 2: Turning off



## Right-hand traffic

### Type 3: Turning in / crossing



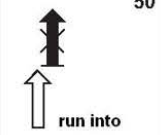
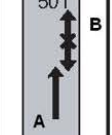
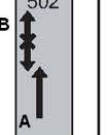

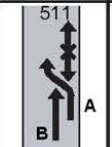
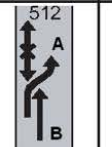
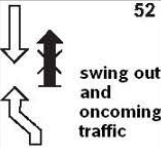
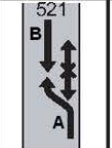

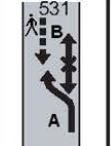
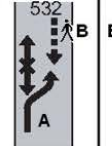
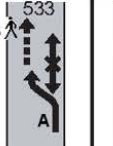
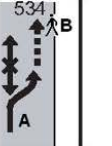
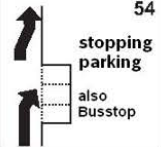
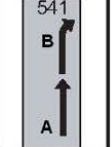
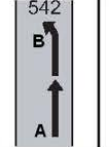
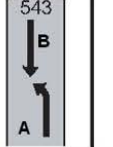

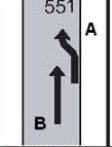
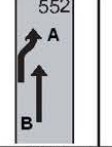
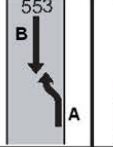
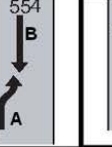

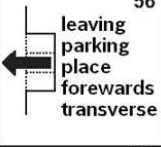
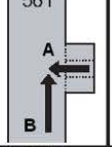
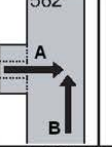
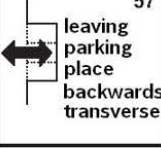
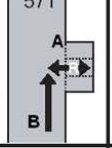
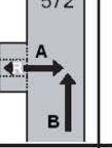
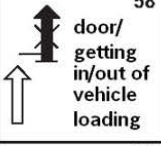
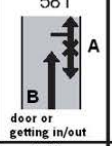
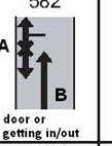
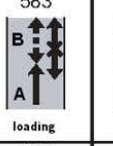
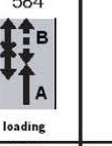
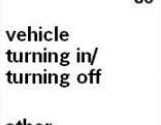
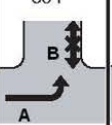
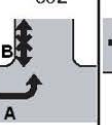
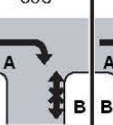

## Right-hand traffic

### Type 4: Pedestrian Crossing road

on road	no junction	40	401	402	403	404	405		
		from left							
		without sight obstruction							
	from left	41	411	412	413	414			
	with sight obstruction					tree, fence ...			
from right	42	421	422	423	424				
without or with sight obstruction					sight obstruction	sight obstruction			
before junction	from left	43	431	432	433	434	435	436	
	without sight obstruction								
	from left	44	441	442	443	444			
	with sight obstruction					tree, fence ...			
	from right	45	451	452	453	454	455		
	without or with sight obstruction								
behind junction	from left	46	461	462	463	464	465		
	without or with sight obstruction						sight obstruction		
from right	47	471	472	473					
without or with sight obstruction									
turning priority road	48	481	482	483	484				
at junctions: diagonal cross or getting on/off trams	49	491	492	493	494				

## Right-hand traffic

### Type 5: Stationary Traffic

50  run into	501 	502 			
51  swing out and following traffic	511 	512 			
52  swing out and oncoming traffic	521 				
53  swing out and pedestrian	531 	532 	533 	534 	
54  stopping parking also Busstop	541 	542 	543 		
55  driveway/ leaving a parking pl./ lateral	551 	552 	553 	554 	555 
56  leaving parking place forwards transverse	561 	562 			
57  leaving parking place backwards transverse	571 	572 			
58  door/ getting in/out of vehicle loading	581  door or getting in/out	582  door or getting in/out	583  loading	584  loading	
59  vehicle turning in/ turning off  other	591 	592 	593 	594 	

## Right-hand traffic

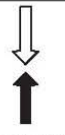





































### Type 6: Longitudinal Traffic

Vehicle in front ...	60	601	602	603	604		
	↑ vehicle driving in front	B ↑ A ↑	B ↑ A ↑	B ↑ A ↑	B ↑ A ↑		
	61	611	612	613	614		
	↑ ↑ traffic jam	↑ ↑ traffic jam B ↑ A ↑	↑ ↑ traffic jam B ↑ A ↑	↑ ↑ traffic jam B ↑ A ↑	↑ ↑ traffic jam B ↑ A ↑		
	62	621	622	623	624		
	↑ ↑ non priority vehicle	↑ ↑ B ↑ A ↑ W	↑ ↑ B ↑ A ↑ W	↑ ↑ traffic lights B ↑ A ↑	↑ ↑ level crossing B ↑ A ↑		
	63	631	632	633	634	635	
	↑ ↙ lane change to left because...	↑ ↑ B ↑ A ↑ vehicle in front	↑ ↑ B ↑ A ↑ traffic jam	↑ ↑ B ↑ A ↑ end of lane	↑ ↑ B ↑ A ↑ turning lane	↑ ↑ B ↑ A ↑ after overtaking on right lane	
64	641	642	643	644	645	646	
↑ ↘ lane change to right because...	↑ ↑ B ↑ A ↑ vehicle in front	↑ ↑ B ↑ A ↑ traffic jam	↑ ↑ B ↑ A ↑ end of lane	↑ ↑ B ↑ A ↑ turning lane	↑ ↑ B ↑ A ↑ after overtaking on oppos. lane	↑ ↑ B ↑ A ↑ after overtaking on lane in same direction	
65	651	652					
↑ ↑ driving side by side	↑ ↑ A ↑ B ↑	↑ ↑ A ↑ B ↑ after overtaking on oppos. lane					
66	661	662	663	664			
↓ ↑ overtaking oncoming traffic	↓ ↑ B ↑ A ↑	↓ ↑ B ↑ A ↑	↓ ↑ B ↑ A ↑	↓ ↑ B ↑ A ↑			
67	671	672	673	674	675		
↑ ↑ Pedestrian	↑ ↑ B ↑ A ↑	↑ ↑ B ↑ A ↑	↑ ↑ B ↑ A ↑	↑ ↑ B ↑ A ↑	↑ ↑ B ↑ A ↑ Pedestrian sitting/standing (no direction)		
68	681	682	683	684	685	686	
↓ ↑ head-on encounter	↓ ↑ A ↑ B ↑	↓ ↑ B ↑ A ↑	↓ ↑ B ↑ A ↑	↓ ↑ A ↑ B ↑	↓ ↑ A ↑ B ↑ gap	↓ ↑ B ↑ A ↑	



## Right-hand traffic

### Type 7: Others

 70 parking vehicle	 701	 702	 703 at car park			
 71 backing up	 711 driving	 712 rolling	 713	 714 backing out	 715 backing out	 716 rolling without driver
 72 u-turn	 721	 722	 723	 724	 725	 726
 73 not fixed object	 731 load	 732 other				
 74 broken down vehicle	 741 accident	 742 break down				
 75 animal	 751 wild animal	 752 unattended domestic anim.	 753 attended domestic anim.			
 76 sudden physical disability	 761 falling asleep	 762 dizzy spell	 763 other (no alcohol)			
 77 sudden vehicle damage	 771 tyre	 772 windshield	 773 brakes	 774 steering	 775 other damage	

## Left-hand traffic

### Type 1: Loss of control

without other influence	10		101		102		103		104		
	curve		bend to right	bend to left	overtaking	bend to right	bend to left	overtaking			
	11		111		112		113		114		
	turning priority rd.				overtaking	bend to right	bend to left	overtaking			
	12		121		122		123				
	when turning or entering										
	13		131		132		133		134		
	swaying road				overtaking	overtaking					
	14		141		142						
	straight				overtaking						
	... with influence of:	15		151		152		153			
		incline decline									
		16		161		162		163			
		traffic island									
17		171		172		173					
road narrowing											
18		181		182		183					
bumpy road											

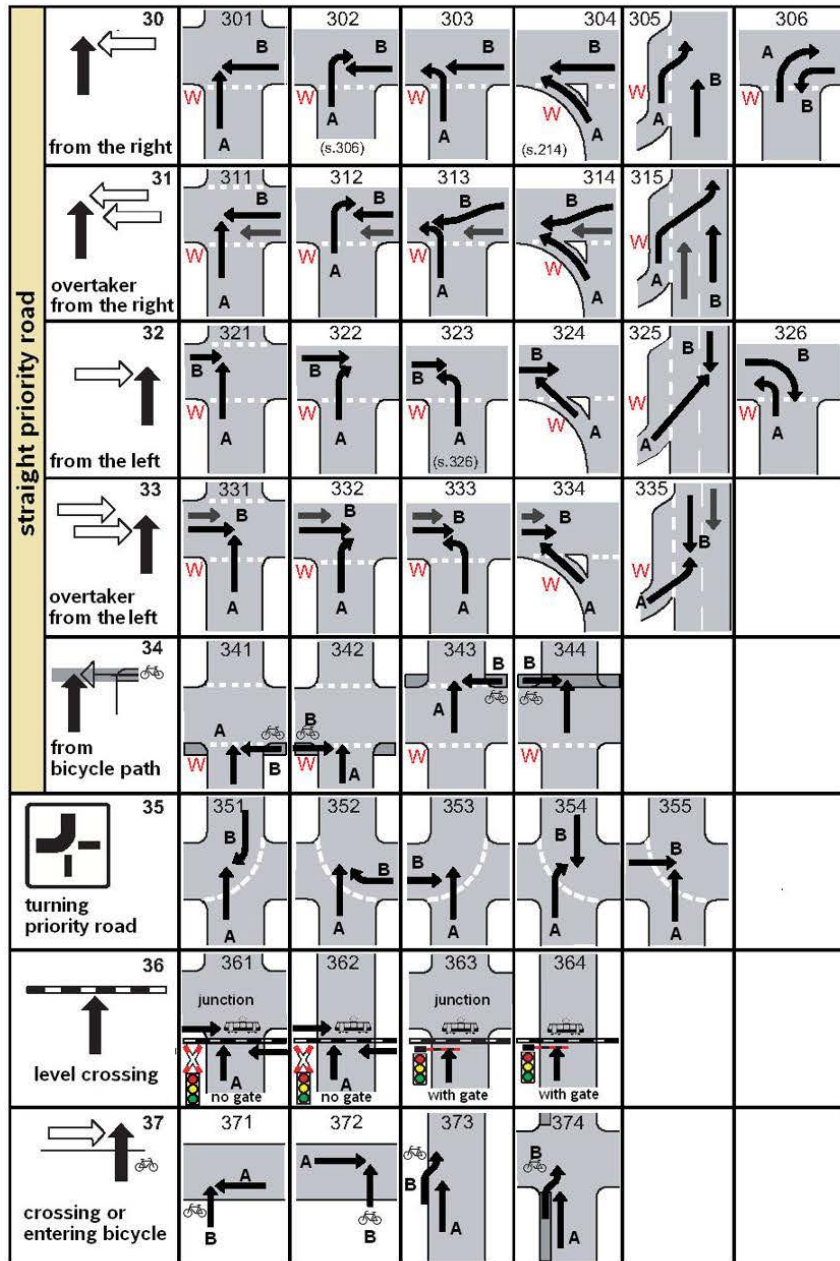
## Left-hand traffic

### Type 2: Turning off

following traffic	20	201	202	203	204		
	21	211	212	213	214	215	
turning off (right)	22	221	222	223	224	225	
following traffic	23	231	232	233			
special path/track	24	241	242	243	244	245	
two turning vehicles	25	251	252				
turning-/waiting-vehicle	26	261	262				
turning to leave a priority road	27	271	272	273	274	275	
turning veh. at turning signals	28	281	282	283	284	285	286

### Left-hand traffic

#### Type 3: Turning in / c/crossing



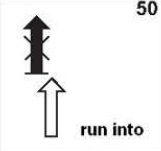
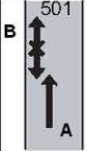


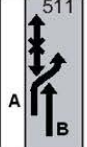

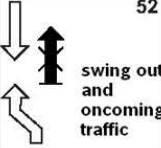
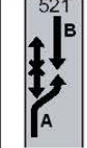
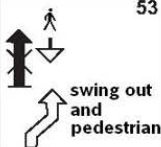


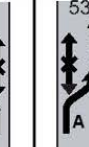

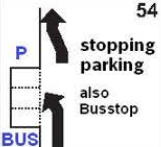
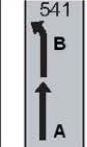
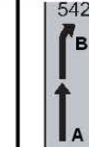


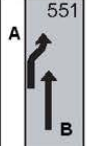
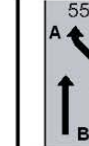

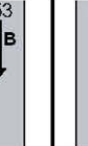
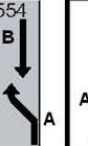
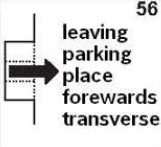
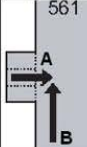
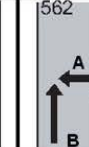
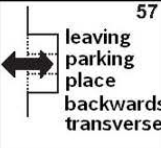
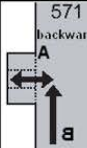
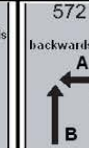
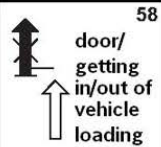
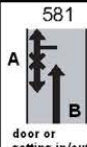
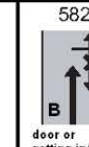
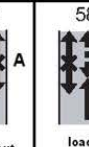
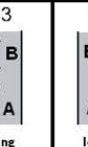
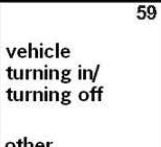
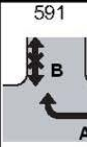

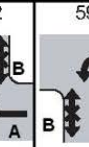

## Left-hand traffic

### Type 4: Pedestrian crossing road

on road	no junction	40	401	402	403	404	405		
		from right							
		without sight obstruction							
		with sight obstruction					tree, fence ...		
before junction	from right	43	431	432	433	434	435	436	
		without sight obstruction							
behind junction	from left	44	441	442	443	444			
		without or with sight obstruction							
at junctions:	diagonal cross or getting on/off trams	45	451	452	453	454	455		
		without or with sight obstruction							
turning priority road	at junctions:	46	461	462	463	464	465		
		without or with sight obstruction							
diagonal cross or getting on/off trams	at junctions:	47	471	472	473				
		without or with sight obstruction							
turning priority road	at junctions:	48	481	482	483	484			
		without or with sight obstruction							
diagonal cross or getting on/off trams	at junctions:	49	491	492	493	494			
		without or with sight obstruction							

**Left-hand traffic**

**Type 5: Stationary traffic**

 <p>50 run into</p>	 <p>501</p>	 <p>502</p>			
 <p>51 swing out and following traffic</p>	 <p>511</p>	 <p>512</p>			
 <p>52 swing out and oncoming traffic</p>	 <p>521</p>				
 <p>53 swing out and pedestrian</p>	 <p>531</p>	 <p>532</p>	 <p>533</p>	 <p>534</p>	
 <p>54 stopping parking also Busstop</p>	 <p>541</p>	 <p>542</p>	 <p>543</p>		
 <p>55 driveway/leaving a parking pl./lateral</p>	 <p>551</p>	 <p>552</p>	 <p>553</p>	 <p>554</p>	 <p>555</p>
 <p>56 leaving parking place forwards transverse</p>	 <p>561</p>	 <p>562</p>			
 <p>57 leaving parking place backwards transverse</p>	 <p>571 backwards</p>	 <p>572 backwards</p>			
 <p>58 door/getting in/out of vehicle loading</p>	 <p>581 door or getting in/out</p>	 <p>582 door or getting in/out</p>	 <p>583 loading</p>	 <p>584 loading</p>	
 <p>59 vehicle turning in/turning off other</p>	 <p>591</p>	 <p>592</p>	 <p>593</p>	 <p>594</p>	






































## Left-hand traffic

### Type 6: Longitudinal traffic

Vehicle in front ...	60	601	602	603	604		
	vehicle driving in front	B A	B A	B A	B A		
	61	611	612	613	614		
	traffic jam	traffic jam B A	traffic jam B A	traffic jam B A	traffic jam B A		
	62	621	622	623	624		
	non priority vehicle	W B A	W B A	traffic lights B A	level crossing B A		
	63	631	632	633	634	635	
	lane change to right because...	vehicle in front A B	traffic jam A B	end of lane A B	turning lane A B	after overtaking on left lane A B	
64	641	642	643	644	645	646	
lane change to left because...	vehicle in front A B	traffic jam A B	end of lane A B	turning lane A B	after overtaking on oppo. lane B A	after overtaking on lane in same direction B A	
65	651	652					
driving side by side	B A	after overtaking on oppo. lane B A					
66	661	662	663	664			
overtaking oncoming traffic	B A	B A	B A	B A			
67	671	672	673	674	675		
Pedestrian	B A	B A	B A	B A	Pedestrian sitting/standing (no direction) B A		
68	681	682	683	684	685	686	
head-on encounter	A B	B A	B A	B A	gap B A	B A	

**Left-hand traffic**

**Type 7: Other**

 <p>70 parking vehicle</p>	 <p>701</p>	 <p>702</p>	 <p>703 at car park</p>			
 <p>71 backing up</p>	 <p>711 driving</p>	 <p>712 rolling</p>	 <p>713 backing out</p>	 <p>714 backing out</p>	 <p>715 backing out</p>	 <p>716 rolling without driver</p>
 <p>72 u-turn</p>	 <p>721</p>	 <p>722</p>	 <p>723</p>	 <p>724</p>	 <p>725</p>	 <p>726</p>
 <p>73 not fixed object</p>	 <p>731 load</p>	 <p>732 other</p>				
 <p>74 broken down vehicle</p>	 <p>741 accident</p>	 <p>742 break down</p>				
 <p>75 animal</p>	 <p>751 wild animal</p>	 <p>752 unattended domestic anim.</p>	 <p>753 attended domestic anim.</p>			
 <p>76 sudden physical disability</p>	 <p>761 falling asleep</p>	 <p>762 dizzy spell</p>	<p>763 other (no alcohol)</p>			
 <p>77 sudden vehicle damage</p>	 <p>771 tyre</p>	 <p>772 windshield</p>	 <p>773 brakes</p>	 <p>774 steering</p>	 <p>775 other damage</p>	