		Leg	islation and Type Approval Tests for Ve	hici	les	Te	st and	d Rese	earch	Auto	Cent	er Co	.(ITR
No.	Test Items	Standard NO.	Object		App	licab	ility	for ca	itego	ries o	f veh	icles	
1	Sound level ⁽¹⁾	70/157/EEC ECE 51, 59	Measurement of sound emitted and limiting value for sound level of moving vehicle and stationary vehicle.	M1 *	*	M3 *	N1 *	N2 *	N3 *	01	O2	03	04
2	Exhaust Emissions ⁽¹⁾	70/220/EEC ECE 15-04, 83 78/665/EEC	The tailpipe emissions, evaporative emissions, emissions of crankcase gases and the durability of anti-pollution devices for all motor vehicle equipped with positive- ignition engines and the tailpipe emissions and durability of anti-pollution devices from vehicles of categories M and N, equipped with compression- ignition engines.	*	*	*	*	*	*				
3	Diesel smoke	72/306/EEC ECE 24	Limitation of the emission of pollutants from the by test at steady speeds over the full- load curve and test under free acceleration and measurement of the absorption coefficient of the light by the exhaust gases emitted.(opacimetries)	*	*	*	*	*	*				
4	Diesel emissions	88/77/EEC ECE 49	Emission of gaseous and particulate pollutants from all vehicles equipped with diesel engines the concentration of HC, Co and No_x during each mode is determined from the average chart reading and the corresponding calibration data.	*	*	*	*	*	*				
5	Co ₂ emissions/fuel consumption	80/1268/EEC ECE 84	Applies to the carbon dioxide (Co_2) emissions and fuel consumption the Co_2 emissions are measured during the	*									

No.	Test Items	Standard NO.	Object		App	olicab	ility	for ca	atego	ries o	f veh	icles	
				MI	M2	МЗ	N1	N2	N3	01	O2	03	04
6	Engine power	80/1269/EEC ECE 85	Measurement of power obtained on the test bed at the end of the crankshaft or its equivalent at the corresponding engine speed with the auxiliaries. maximum value of the net power measured at the full load. power correction factors.	*	*	*	*	*	*				
7	Braking ⁽¹⁾	71/320/EEC ECE 13,	Performance prescribed for braking devices shall be based on the stopping dstance and/or mean fully developed deceleration. measuring the stopping distance in relation to the initial speed of the vehicle. measuring the response time. Energy reservoirs and source of energy. parking braking by mechanical locking. performance braking systems with Anti- lock devices. test of brake lining.	*	*	*	*	*	*	*	*	*	水
8	Steering effort	70/311/EEC ECE 79	It apples to the steering equipment and does not cover steering with a purely pneumatic, purely electric, or purely hydraulic. braking performance for vehicles using the same energy source for steering and braking, provisions for vehicles with auxiliary steering equipment, provisions for trailers having purely hydraulic steering transmissions.	*	*	*	*	*	*	*	*	*	*

		Leg	rislation and Type Approval Tests for Ve	hici							Cent		o.(ITR
No.	Test Items	Standard NO.	Object								f veh		
9	Speed limiters ⁽¹⁾	92/24/EEC	Applies to speed limitation devices with acceleration test acceptance criteria for steady speed. purpose is to limit to a specified value the maximum road speed of heavy goods and passenger carrying vehicle. This is achieved by a speed limitation whose primary function is to control the fuel feed to the engine.	MI	M2	*	NI	**	*	OI	02	03	O4
10	Speedometer and reverse gear ⁽¹⁾	75/443/EEC ECE 39	The speedometer display shall be situated in the legible both by day and night. The range of speeds indicted must be large enough to including the maximum speed given by the manufacturer for the type of vehicle.	*	*	*	*	*	*				
11	Radio interference suppression (1)	72/245/EEC ECE 10	Measurement of radio interference produced by electromagnetic compatibility of vehicles.	*	*	*	*	*	*	*	*	*	*
12	Audible warning	70/388/EEC ECE 28	The warning device shall emit a continuous sound and shall have acoustic characteristics (frequency spectrum of the sound, level of sound pressure) and mechanical characteristics.	*	*	*	*	*	*				
13	Identification of controls (1)	78/316/EEC	Applies to motor vehicles with regard to the identification of manual controls, tell- tales and indicators.	*	*	*	*	*	*				

No.	Test Items	Standard NO.	Object		App	licab	ility	for ca	atego	ries o	f vehi	icles	
1,00	2 000 2001110		S SJOOT	MI	M2	МЗ	N1	N2	N3	Ol	O2	03	04
14	Defrost/ Demist ⁽¹⁾	78/317/EEC	Applies to the 180° forward field of vision and to ensure good visibility under certain conditions by specifying the requirements for defrosting and demising systems for the windscreens.	*									
15	Wash/ wipe ⁽¹⁾	78/318/EEC	Purpose is to ensure good visibility under adverse weather condition by specifying the requirements for the wind screenwiper and windscreen-washer systems.	*									
16	Rear visibility ⁽¹⁾	71/127/EEC ECE 46	Determining the radius of curvature of the reflec determining the H point and verifying the relative positions of the R and H points. design specification and tests required for Rear-View mirrors.	*	*	*	*	*	*				
17	Forward vision ⁽¹⁾	77/649/EEC	Applies to the 180° forward field of vision of the drivers to ensure and adequate field of vision when the windscreen and other glazed surfaces the actual seat- back angle and for verifying the relative positions of the R and H points and relationship between the design seat- back angle and the actual seat- back angles.	*									

No.	Test Items	Standard NO.	Object		App	olicab	ility	for ca	atego	ries o	f veh	icles	
			U U	MI	M2	МЗ	NI	N2	N3	01	O2	03	04
18	Installation of lighting and light signaling devices ⁽¹⁾	76/756/EEC ECE 48	Measurement of the variation of dipped beam inclination as a function of load, number, arrangement, position in width in height, in length, Geometry visibility, orientation, electrical, reversing lamp Direction indicator lamp, warning signal, stop lamp, Rear registration plate lamp, front position lamp, Rear position lamp, Rear fog lamp, parking lamp, End- out line marker lamp, Rear Retro- reflector, front Retro- reflector, side mark lamps, day time Running lamp.	*	*	*	*	*	*	**	*	*	*
19	Retro reflectors ⁽¹⁾	76/757/EEC ECE 3	Shape and dimensions of retro- reflecting devices, calorimetric specifications, photometric specifications. resistance to external agents, stability in time of the optical properties, resistance to heat, colour- fastness, resistance to impact, chronological order of tests.	*	*	*	*	*	*	*	*	*	*

No.	Test Items	Standard NO.	Object		App	licab	ility	for ca	tego	ries o	f veh	icles	
				MI	M2	М3	N1	N2	N3	01	02	03	04
			Applies to the lamp used to indicate the presence and the width of the vehicle when viewed from the										
	End-outline,		rear and front. applies to the lamp used to										
20	position(side),	76/758/EEC ECE 7,91,87	vehicle that its driver is applying the services brake and lamp fitted near to the entrance outer	*	*	*	*	*	*	*	*	*	*
	marker, day time	ECE 7,91,07	edges. Characteristics of the optical system, level										
	running lamps (1)		of intensity light distribution angles, type of										
	running lamps		filament lamp, system used to reduce illumination										
			at night, colour of light emitted, photometric										
			measurements trichomatic Coordinates.										
			Intensity of light emitted, colour of light emitted,										
21	Direction	76/759/EEC	minimum angles required for light distribution in	*	*	*	*	*	*	*	*	*	*
21	indicators (1)	ECE 6	space of direction indictor lamps. Photometric										
			measurements.										
	Rear registration	76/760/EEC	Colour of light, angle of incidence, photometric										
22	plate lamps (1)	ECE 4	characteristics , minimum field of visibility of the	*	*	*	*	*	*	*	*	*	*
	place lamps	ECE 4	surface to be illuminated.										
		76/761/EEC	adequate illumination without dazzle, wattage and light- flux values colour, optical quality,										
23	Head lamps (1)	ECE 1,2,5,8,20, 37	measuring screen, stability of photometric	*	*	*	*	*	*				
			performance, cut- off line under the influence of										
			heat.										

No.	Test Items	Standard NO.	Object		App	licab	ility	for ca	tego	ries o	f veh	icles	
				Mi	M2	М3	N1	N2	N3	01	O2	03	04
24	Front fog lamps (1)	76/762/EEC ECE 19	Test for lamp used to improve the illumination of the road in case of fog, snowfall, rainstorms or dust clouds illumination and colour of light		*	*	*	*	*				
25	Rear fog lamps (1)	77/538/EEC ECE 38	Intensity of light emitted, Heat resistance, colour of light emitted, photometric measurements.		*	*	*	*	*	*	*	*	*
26	Reversing lamps (1)	77/539/EEC ECE 23	Applies for lamp to illuminate the road to the rear of the vehicle and to warn other road users that the vehicle is reversing intensity of light. Colour of light, photometric measurement.	*	*	*	*	*	*	*	*	*	*
27	Safety glass and glazing materials (1)	92/22/EEC ECE 43	Applies to safety glass and materials for glazing intended to be fitted in the form of a wind screen or other glazing or separating panels with the devices and for the dashboard. Fragmentation, mechanical strength, resistance to the environment, optical quality, resistance to chemical agents.	*	*	*	*	*	*	水	水	*	*
28	Liquid fuel tanks and rear underrun protection ⁽¹⁾ *	70/221/EEC ECE 34, 58	Fuel tank must be so as to be corrosion resistance and satisfy the leakage. the vent must be designed in such a way as to prevent any fire risks.	*	*	*	*	*	*	*	*	*	*
29	Protective steering (1)*	74/297/EEC ECE 12	The behaviour of the steering mechanism with regard to the protection of the driver in a frontal collision.	*			*						

No.	Test Items	Standard NO.	Object		App	licab	ility	for ca	tegoi	ries o	f vehi	cles	
				MI	M2	М3	N1	N2	N3	OI	02	03	04
			Strength of seat back and of its locking systems,										
		74/408/EEC	strength of seat anchorage and of seat locking										
30	Seat strength (1)*	ECE 17	systems. Resistance of locking systems to inertia	*	*	*	*	*	*				
			effects. collision test of the complete vehicle										
			against a rigid barrier.										
			Location of the effective lower belt anchorages,										
			location of the effective upper belt anchorage,										
	Seat belt	76/115/EEC	Dimensions of threaded belt acnhorage holes,										
31	anchorages (1)*	ECE 14		*	*	*	*	*	*				
	anchorages		a retractor having a pulley or strap guide at the										
			upper belt anchorage, configuration of a lap belt,										
			configuration of a special- type belt.										
			Applies to safety belts and restraint systems which										
		77/541/EEC	are designed for installation. Durability of										
32	Seat belts ⁽¹⁾ *	ECE 16	retractor mechanism locking of emergency	*	*	*	*	*	*				
32	Seat belts	ECE 10	locking retractors, dust resistance of retractor,	*	*	*		*	4.				
			strength of straps, Microslip Test, performance										
			requirement when subjected to the dynamic test.										
			Applies to device whose purpose is to limit the										
		78/932/EEC											
33	Head restraints *	ECE 17, 25	relation to his torso in order to reduce the danger	*									
			of injury, Determination of the width and height										
			of the head restraint.										

		Legi	slation and Type Approval Tests for Veh	icl				Resec					(ITR£
No.	Test Items	Standard NO.	Object					for ca					
34	Lateral protection*	89/297/EEC ECE 33,73	Vehicle shall be constructed and/ or equipped as to offer when a complete entity. effective protection to unprotected road users (pedestrians, cyclists, motor cyclist) against the risk of falling under the sides of the vehicle and being caught under the wheels.	MI	M2	M3	NI	*	*	OI	02	*	*
35	Front and rear protective/ devices protection of occupants in the case of frontal collision *	96/79/EEC ECE 33,42,94	Determination of performance criteria (neck Tension, neck shear, femur force, thorax compression, Tibia compressive force)	*									
36	Side door strength and side impact*	96/27/EEC ECE 33,95 FMVSS 214	Lateral impact behaviour of the structure and determination of performance requirements for protection of occupants in side impact crashes.	*			*						
37	Door latches and hinges ⁽¹⁾	70/387/EEC ECE 11	Doors entries and exits must be such that they can be used easily and without danger. Doors and door latches must be designed in such away that any irritating noise on closing may be avoided and opening accidentally. resistance of latches to acceleration.	*	*	*	*	*	*	*	*	*	*
38	Rear registration plate place	70/222/EEC	Space to mounting and the fixing of rear registration plates.	*	*	*	*	*	*	*	*	*	*

No.	Test Items	Standard NO.	Object		App	licab	ility	for ca	itego	ries o	f vehi	icles	
			·	MI	M2	М3	N1	N2	N3	01	02	03	04
39	Interior fitting ⁽¹⁾	74/60/EEC ECE 21	Forward interior parts below and above the level of instrument panel in front of the front seat, Roof, Rear parts of seats. determination of the materials,	*									
40	Exterior projections ⁽¹⁾	74/483/EEC ECE 26	Ornaments, Headlights, Grills and Gaps, wind screen wiper, Bumpers, wheelnuts, hub caps and luggage racks and ski racks, determining of projections and Gaps.	*									
41	External projections of cabs	92/114/EEC ECE 61	Applies to the external projections forward of the is limited to the external surface and does not apply to the exterior rear- riew mirrors.				*	*	*				
42	Plates(statutory)	76/114/EEC	All vehicle must be provide with the plate and maximum permitted laden mass. Maximum permitted road mass for each axle.	*	*	*	*	*	*	*	*	*	*
43	Wheel guards	78/549/EEC	Wheel guards must be so designed as to protect other road users, against thrown-up stones, mud, ice, snow and to reduce for those users the dangers due to contact with the moving wheels.	*									

No.	Test Items	Standard NO.	Object		App	licab	ility	for ca	tego	ries o	f vehi	icles	
			,	MI	M2	МЗ	N1	N2	N3	OI	O2	03	04
			Aim of this test is to quantify the ability of a										
			device to retain the water directed against it by a										
	Spray		series of jests. the test assembly is intended to										
44	suppression	91/226/EEC	reproduce the conditions under which the device					*	*			*	*
	systems		is to function when fitted to a vehicle as regards										
			the volume and speed of the water thrown up										
			from the ground by the tire tread .										
		92/23/EEC	Load/ speed test. tire dimensions. fitting of tiers,										
45	Tires (1)	ECE 30, 54,64		*	*	*	*	*	*	*	*	*	*
			spare tire										
			Applies to the masses and dimensions of motor										
	Masses and		vehicle. Mass of the conventional load, mass of the										
46	dimensions	92/21/EEC	load in excess, Mass of coupling device, maximum	*									
	(cars) ⁽¹⁾		static vertical load the coupling point, towable										
			mass, folding seat, masses and axle loads.										
			Vehicle length, width- height of the loading area.										
	Masses and		mass in running order, permissible maximum										
47	dimensions	97/27/EEC	laden mass, maximum mass on the axle, maximum		*	*	*	*	*	*	*	*	*
	(other than cars)		towable mass, mass distribution, authorized										
			dimensions, maneuverability.										

No.	Test Items	Standard NO.	Object		App	licab	ility	for ca	atego	ries o	f veh	icles	
			Ů	MI	M2	М3	N1	N2	N3	01	O2	03	04
48	Couplings	94/20/EEC ECE 55	Mechanical coupling devices between motor vehicles and trailers are all parts and devices on the frames, load-bearing parts of the body work and chassis.				*	*	*	*	*	*	*
49	Tachograph	85/3821/EEC	Recording equipment in Road Transport		*	*	*	*	*	*	*	*	*
50	Bus emergency exits and window retention and release	FMVSS 217	Requirements for the retention of windows other than windshields in buses and establishes operating forces, opening dimensions making in bus emergency exits.		*	*							
51	Towing hooks	77/389/EEC	Each special towing- device fitted to the vehicle must be able to withstand a tractive and compressive static force of at least half the authorized total weight of the vehicle, only without the towed load to which it is fitted.	*	*	*	*	*	*				
52	Devices to prevent the unauthorized use (anti theft and Immobilizers	74/61/EEC	A system designed to prevent unauthorized normal activation of the engine or other source of main engine power of the vehicle in combination with at least one system which: locks the steering, locks the transmission or lock the gearshift control, active and deactivate the device to prevent unauthorized use which shall include the use of the key. rotating the steering shaft relative to the device to prevent unauthorized use torque applied to the steering control, immobilizes, alarm systems.	*			*						