

STRALIS

REPAIR MANUAL

MECHANICAL

ELECTRIC / ELECTRONIC

IVECO



This publication describes the characteristics, the data, the correct methodology of the repairs that can be made on each individual component of the vehicle.

By complying with the instructions supplied and using the specific tools it is possible to perform any repair intervention correctly, within the specified time frames, while protecting the technicians against incidents.

Before starting any repair work, make sure that all accident prevention devices are ready at hand.

Check and wear the protective personal equipment provided for by the safety standards: goggles, helmet, gloves, shoes.

Check the efficiency of all processing, lifting and transport tools before using them.

The data contained in this publication might fail to reflect the latest changes which the Manufacturer may introduce at any time, for technical or sales purposes, or to meet the requirements of local legislation.

Copy, even partial, of text and drawings is forbidden.

Publication Edited by:
IVECO S.p.A.
T.C.O. - B.U. Customer Service
Lungo Stura Lazio, 15/19
10156 Torino (Italy)

Printed **603.43.671** - 1st Ed. 2001

Produced by:



B.U. TECHNICAL PUBLISHING
C.so Svizzera, 185
10149 Torino (Italy)

SPECIAL REMARKS

The workshop manuals for mechanical parts have been divided into Sections, each of which has a number and its relevant contents are indicated in the General Specifications. Each section features a main Unit (e.g. engine, gears etc.).

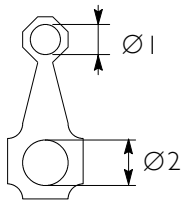
The subjects usually dealt with in each section are:

Technical data table, Driving torques, Equipment, Diagnostic, Removal and Fitting in place, Repair operations.

Where possible, the same sequence of procedures has been followed for easy reference.

Diagrams and symbols have been widely used to give a clearer and more immediate illustration of the subject being dealt with, (see next page) instead of giving descriptions of some operations or procedures.

Example



Ø 1 = housing for connecting rod small end bush

Ø 2 = housing for connecting rod bearings

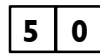


Tighten to torque
Tighten to torque +
angular value

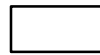
Furthermore, within each section, every heading or sub-heading concerning the operations to be carried out is preceded by a six digit number. This number is the Product Code that is to be found in the repair operation described in the REPAIR TIMES CHARTS and in the FAULT CODES.

For quick reference the indication of how to read this code is described below (see the Repair time charts also).

Product Code:



PRODUCT



UNIT



SUB-ASSEMBLY
COMPONENT

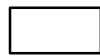
Example:

Product 50 = Frame;

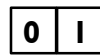
Product 52 = Axles;

Product 53 = Gears etc.

Unit Code:



PRODUCT



UNIT



SUB-ASSEMBLY
COMPONENT

Figures three and four identify the ASSEMBLY within the PRODUCT

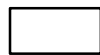
Example:

Product 50 = Frame;

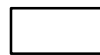
Unit 01 = Chassis;

Unit 02 = Bumpers etc .

Sub-assembly Code:



PRODUCT



UNIT



SUB-ASSEMBLY
COMPONENT



















Example:
















Product 50 = Frame;

Unit 01 = Chassis;

Sub-assembly 40 = Chassis cross members etc.

Graphs and symbols

	Removal Disconnection
	Refitting Connection
	Removal Disassembly
	Fitting in place Assembly
	Tighten to torque
	Tighten to torque + angle value
	Press or caulk
	Regulation Adjustment
	Warning Note
	Visual inspection Fitting position check
	Measurement Value to find Check
	Equipment
	Surface for machining Machine finish
	Interference Strained assembly
	Thickness Clearance
	Lubrication Damp Grease
	Sealant Adhesive
	Air bleeding

	Intake
	Exhaust
	Operation
ϱ	Compression ratio
	Tolerance Weight difference
	Rolling torque
	Replacement Original spare parts
	Rotation
	Angle Angular value
	Preload
	Number of revolutions
	Temperature
	Pressure
$>$	Oversized Higher than.... Maximum, peak
$<$	Undersized Less than.... Minimum
	Selection Classes Oversizing
	Temperature < 0° Cold Winter
	Temperature > 0° Hot Summer

STRALIS

Print 603.43.671 – 1st edition
Base – September 2001

UPDATE DATA

Section	Description	Page	Revision date
1	General	5, 6, 7, 8, 9, 11, 12, 13 1, 8, 9, 10/1÷10/4, 11÷13	Revi April 2002 Revi November 2003
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3	Clutch	4, 5, 6, 16 13	Revi April 2002 Revi November 2003
4	Gearbox	1, 81, 84, 126÷166, 169÷198 1, 7, 12÷15, 17, 24, 25, 33, 35, 36, 39, 43, 45, 50, 51, 53, 63, 72÷74, 77, 79, 81, 83÷85, 132÷134, 138, 142, 143, 145÷147, 149, 151, 152, 155, 161, 162, 164, 165, 167, 169, 171, 172, 175, 177÷179, 183, 199÷204	Revi April 2002 Revi November 2003
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14	Scheduled maintenance	1÷18 1, 3, 4, 7, 13, 15÷17	Revi April 2002 Revi November 2003
15	Electric/electronic system	complete	2nd Ed. Base - November 2003

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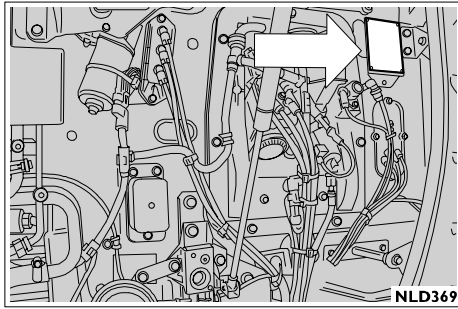
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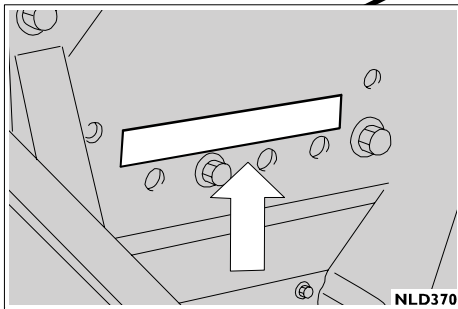
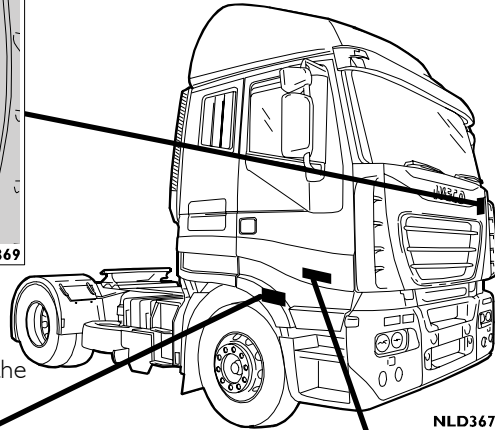
VEHICLE IDENTIFICATION DATA

The type and number of engine, type and number of chassis and manufacturer's plate comprise the vehicle identification data.



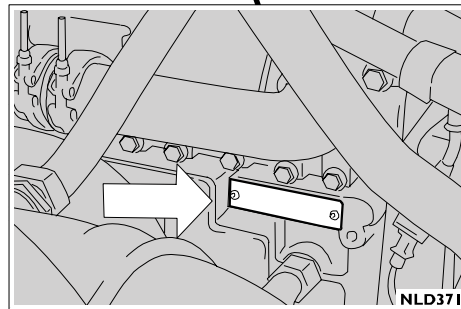
Manufacturer's plate

To identify the vehicle in accordance with the E.E.C. directive (under the front radiator cowling).



Chassis frame

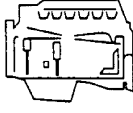
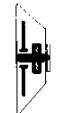
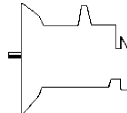
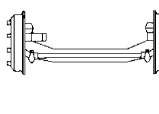
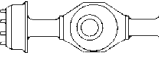



Punching (front on right side member of chassis frame).



Engine

Plate on the left rear side of the crankcase

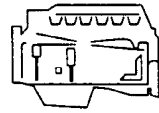
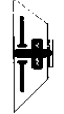
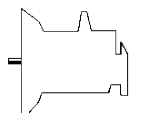

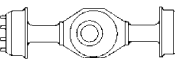



COMPOSITION OF MODELS

		CHASSIS CABS - 4x2 MODELS											
ASSEMBLIES		AS 190 S 40/P	AS 190 S 40/FP-CM	AS 190 S 40/FP-GV	AS 190 S 43/P	AS 190 S 43/FP-CM	AS 190 S 43/FP-GV	AS 190 S 44/P	AS 190 S 44/FP-CM	AS 190 S 44/FP-GV	AS 190 S 48/P	AS 190 S 48/FP-CM	AS 190 S 48/FP-GV
	F3AE0681B (400 CV)	○	○	○									
	F3AE0681D (430 CV)				○	○	○						
	F3BE0681C (440 CV)							○	○	○			
	F3BE0681E (480 CV)										○	○	○
	F3BE0681A (540 CV)												
	Single disc 17"	○	○	○	○	○	○	○	○	○	○	○	○
	ZF 16S 181 O.D.							○			○		○
	ZF 16S 181 D.D.	○	○	○	○	○	○						
	ZF 16S 221 D.D.							○	○		○	○	
	EuroTronic Automated 12 AS 2301 D.D.	○	○	○	○	○	○						
	EuroTronic Automated 16 AS 2601 O.D.							○		○	○		○
EuroTronic Automated 16 AS 2601 D.D.							○	○		○	○		
	FRONT AXLE: 5876/4 (F 8021)	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	5876/5 (F 8021)	●	●	●	●	●	●	●	●	●	●	●	●
	5876 (F 8021)*												
	ADDED AXLE:												
	Steering central 5876/2 (F 8021)												
	Rigid rear 55080/D1 (N 8071) - 55080/T1 (N 8071)*												
	Rigid rear 56082/D1 (N 9171) - 56082/T1 (N 9171)*												
Steering rear 57080/D1 (N 8072) - 57080/T1 (N 8072)*													
	MERITOR U 177 E	○	○	○	○	○	○	○	○	○	○	○	○
	MERITOR MS 13-175	○	○	○	○	○	○	○	○	○	○	○	○
	MERITOR RT 160 E - RT160E/I												
	ZF 8098	○	○	○	○	○	○	○	○	○	○	○	○
	FRONT MECHANICAL Parabolic	○			○			○			○		
	PNEUMATIC Front		◇	□		◇	□		◇	□		◇	□
	Rear	○	○	○	○	○	○	○	○	○	○	○	○
	Added axle												

- ⊗ = With brake calliper assembly at 57° without parking brake
- = With brake calliper assembly at 0° with parking brake
- ◇ = With longitudinal and transversal bars
- = With parabolic leaf springs
- * = With drum brakes

- T = 4x2 tractor
- TX = 6x2 C tractor (central added axle cannot be lifted)
- TY = 6x2 P tractor (rear added axle can be lifted)
- TN = 6x2 vehicles with mechanical rear suspensions and raisable rigid rear added axle
- TZ = 6x4 tractor (bogie rear axle)
- P = 4x2 – 6x2P – 6x2C vehicles with air suspension on rear axle and 6x2P vehicles with rigid rear axle that can be lifted with single wheels
- PT = 6x2P vehicles with air suspension on rear axle and rigid rear added axle that can be lifted with twin wheels
- PS = 6x2P vehicles with air suspension on rear axle and on steering rear added axle that can be lifted with single wheels
- FP = 4x2 – 6x4 – 6x2P – 6x2C vehicles with front and rear air suspensions
- FS = 6x2P vehicles with front and rear air suspensions, steering rear added axle can be lifted with single wheels
- 4x2 = Vehicles with two axles with rear driving axle
- 6x2P = Vehicles with three axles with rear driving axle and rear added third axle that can be lifted
- 6x2C = Vehicles with three axles with rear driving axle and central added third axle that cannot be lifted
- 6x4 = Vehicles with three axles with two rear driving axles (in tandem)
- CM = Movable Boxes
- GV = High Volumes
- HC = High Cube
- HM = Heavy Mission
- LT = Tractor with lowered chassis frame
- CT = Chassis cab with lowered chassis frame
- RR = Rough Roads

COMPOSITION OF MODELS

		CHASSIS CABS – 6x4 MODELS			
ASSEMBLIES		AS 260 S 44 Z/P-HM	AS 260 S 48 Z/P-HM	AS 260 S 54 Z/P-HM	
	F3AE068 I B (400 CV)				
	F3AE068 I D (430 CV)				
	F3BE068 I C (440 CV)	○			
	F3BE068 I E (480 CV)		○		
	F3BE068 I A (540 CV)			○	
	Single disc 17"	○	○	○	
	ZF 16S 181 O.D.				
	ZF 16S 181 D.D.				
	ZF 16S 221 D.D.	○	○	○	
	EuroTronic Automated 12 AS 2301 D.D.				
	EuroTronic Automated 16 AS 2601 O.D.			○	
	EuroTronic Automated 16 AS 2601 D.D.	○	○		
	FRONT AXLE:	5876/4 (F 8021)	○	○	○
		5876/5 (F 8021)	●	●	●
		5876 (F 8021)*	*	*	*
	ADDED AXLE:				
	Steering central	5876/2 (F 8021)			
	Rigid rear	55080/D1 (N 8071) - 55080/T1 (N 8071)*			
	Rigid rear	56082/D1 (N 9171) - 56082/T1 (N 9171)*			
	Steering rear	57080/D1 (N 8072) - 57080/T1 (N 8072)*			
	MERITOR U 177 E				
	MERITOR MS 13-175				
	MERITOR RT 160E - RT 160 E1	○	○	○	
	ZF 8098	○	○	○	
	FRONT MECHANICAL	Parabolic	○	○	○
	PNEUMATIC	Front			
		Rear	○	○	○
		Added axle			

○ = With brake calliper assembly at 57° without parking brake * = With drum brakes
 ● = With brake calliper assembly at 0° with parking brake

- T = 4x2 tractor
- TX = 6x2 C tractor (central added axle cannot be lifted)
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- TN = 6x2 vehicles with mechanical rear suspensions and raisable rigid rear added axle
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COMPOSITION OF MODELS

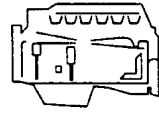
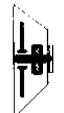
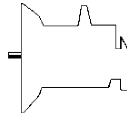
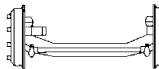
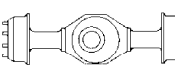
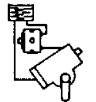

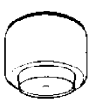
TRACTORS - 4x2 MODELS

ASSEMBLIES		AS 440 S 40 T/P	AS 440 S 40 T/P-RR	AS 440 S 40 T/FP-LT	AS 440 S 40 T/P-HR	AS 440 S 43 T/P	AS 440 S 43 T/P-RR	AS 440 S 43 T/FP-LT	AS 440 S 43 T/P-HR	AS 440S 44 T/P	AS 440S 44 T/P-RR	AS 440 S 44T/FP-LT	AS 440 S 48 T/P	AS 440 S 48 T/P-RR	AS 440 S 48 T/FP-LT	AS 440 S 48 T/P-HR	AS 440 S 54 T/P	AS 440 S 54 T/P-RR	AS 440 S 54 T/FP-LT	AS 440 S 54 T/P-HR	
	F3AE0681B (400 CV)	○	○	○	○																
	F3AE0681D (430 CV)					○	○	○	○												
	F3BE0681C (440 CV)									○	○	○									
	F3BE0681E (480 CV)												○	○	○	○					
	F3BE0681A (540 CV)																○	○	○	○	○
	Single disc 17"	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	ZF 16S 181 O.D.									○		○	○		○						
	ZF 16S 181 D.D.	○	○	○		○	○	○													
	ZF 16S 221 D.D.									○	○		○	○					○		
	EuroTronic Automated 12 AS 2301 D.D.	○	○	○		○	○	○													
	EuroTronic Automated 12 AS 2301 O.D.				○				○							○					○
	EuroTronic Automated 16 AS 2601 O.D.									○	○		○		○		○		○		○
	EuroTronic Automated 16 AS 2601 D.D.									○	○		○	○							
	FRONT AXLE: 5876/4 (F 8021)	⊗	⊗	⊗		⊗	⊗	⊗		⊗	⊗	⊗	⊗	⊗	⊗		⊗	⊗	⊗		
	5876/5 (F 8021)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	5876 (F 8021)*				○				○							○					○
	ADDED AXLE: Steering central 5876/2 (F 8021)																				
	Rigid rear 55080/D1 (N 8071) - 55080/T1 (N 8071)*																				
	Rigid rear 56082/D1 (N 9171) - 56082/T1 (N 9171)*																				
	Steering rear 57080/D1 (N 8072) - 57080/T1 (N 8072)*																				
	MERITOR U 177 E	○	○	○		○	○	○		○	○	○	○	○	○		○	○	○		
	MERITOR MS 13-175	○	○	○		○	○	○		○	○	○	○	○	○		○	○	○		
	MERITOR RT 160E - RT 160 E I																				
	451391 HR				○				○							○					○
	ZF 8098	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	FRONT MECHANICAL Parabolic	○	○		○	○	○		○	○		○	○		○	○		○		○	
	PNEUMATIC Front			□				□				□			□					○	
	PNEUMATIC Rear	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	PNEUMATIC Added axle																				

- T = 4x2 tractor
- TX = 6x2 C tractor (central added axle cannot be lifted)
- TY = 6x2 P tractor (rear added axle can be lifted)
- TN = 6x2 vehicles with mechanical rear suspensions and raisable rigid rear added axle
- Z = 6x4 tractor (bogie rear axle)
- P = 4x2 – 6x2P – 6x2C vehicles with air suspension on rear axle and 6x2P vehicles with rigid rear axle that can be lifted with single wheels
- PT = 6x2P vehicles with air suspension on rear axle and rigid rear added axle that can be lifted with twin wheels
- PS = 6x2P vehicles with air suspension on rear axle and steering rear added axle that can be lifted with single wheels
- FP = 4x2 – 6x4 – 6x2P – 6x2C vehicles with front and rear air suspensions
- FS = 6x2P vehicles with front and rear air suspensions, steering rear added axle can be lifted with single wheels
- 4x2 = Vehicles with two axles with rear driving axle
- 6x2P = Vehicles with three axles with rear driving axle and rear added third axle that can be lifted
- 6x2C = Vehicles with three axles with rear driving axle and central added third axle that cannot be lifted
- 6x4 = Vehicles with three axles with two rear driving axles (in tandem)
- CM = Movable Boxes
- GV = High Volumes
- HC = High Cube
- HM = Heavy Mission
- LT = Tractor with lowered chassis frame
- CT = Chassis cab with lowered chassis frame
- RR = Rough Roads
- HR = Hub Reduction (ponte a doppia riduzione)

○ = With brake calliper assembly at 57° without parking brake □ = With parabolic leaf springs
 ● = With brake calliper assembly at 0° with parking brake * = With drum brakes

COMPOSITION OF MODELS

TRACTORS - MODELS		6x2 C					6x4				
		AS 400 S 40 TX/P	AS 400 S 43/TX/FP	AS 400 S 44 TX/P	AS 400 S 48 TX/P	AS 400 S 54 TX/FP	AS 440 S 44 TZ/P-HM	AS 440 S 48 TZ/P-HM	AS 440 S 54 TZ/P-HM		
	F3AE0681B (400 CV)	○									
	F3AE0681D (430 CV)		○								
	F3BE0681C (440 CV)			○			○				
	F3BE0681E (480 CV)				○			○			
	F3BE0681A (540 CV)					○			○		
	Single disc 17"	○	○	○	○	○	○	○	○		
	ZF 16S 181 O.D.										
	ZF 16S 181 D.D.	○	○								
	ZF 16S 221 D.D.			○	○		○	○			
	EuroTronic Automated 12 AS 2301 D.D.	○	○								
	EuroTronic Automated 16 AS 2601 O.D.					○			○		
EuroTronic Automated 16 AS 2601 D.D.			○	○		○	○				
	FRONT AXLE:	5876/4 (F 8021)		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
		5876/5 (F 8021)		●	●	●	●	●	●	●	●
		5876 (F 8021)*									
	ADDED AXLE:										
	Steering central	5876/2 (F 8021)		○	○	○	○	○			
	Rigid rear	55080/D1 (N 8071) - 55080/T1 (N 8071)*									
Rigid rear	56082/D1 (N 9171) - 56082/T1 (N 9171)*										
Steering rear	57080/D1 (N 8072) - 57080/T1 (N 8072)*										
	MERITOR U 177 E	○	○	○	○	○					
	MERITOR MS 13-175	○	○	○	○	○					
	MERITOR RT 160E - RT 160E/I						○	○	○		
	ZF 8098	○	○	○	○	○	○	○	○	○	
	FRONT MECHANICAL	Parabolic		○		○	○		○	○	○
	PNEUMATIC	Front			□			□			
		Rear		○	○	○	○	○	○	○	○
		Added axle		□	□	□	□	□			

○ = With brake calliper assembly at 57° without parking brake □ = With parabolic leaf springs
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- LT = Tractor with lowered chassis frame
- CT = Chassis cab with lowered chassis frame
- RR = Rough Roads

P.I.C. NUMBER CODING

CAB LIVEABILITY



- A**
- A**
- A**
- B**
- B**
- C**
- C**
- D**

L = Stralis AS (Active Space)

TOTAL WEIGHT ON GROUND - AXLES CONFIGURATION



- A**
- A**
- A**
- B**
- B**
- C**
- C**
- D**

- A** = 4x2T; 18-20 ton.
- B** = 6x2C; 26 ton.
- C** = 6x2P; 26 ton.
- D** = 4x2; 19-20 ton.
- E** = 6x2P; 19-20 ton.
- G** = 4x2T; 18-20 ton.
- H** = 6x2C; 26 ton.
- J** = 6x2P; 26 ton.
- K** = 4x2; 19-20 ton.
- L** = 6x2P; 26 ton.
- M** = 6x4T; 26 ton.
- N** = 6x4; 26 ton.

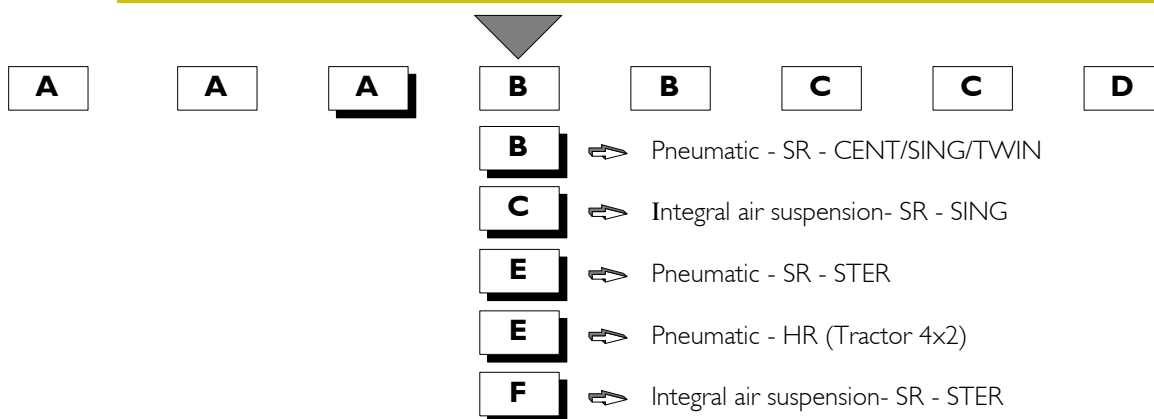
ENGINE



- A**
- A**
- A**
- B**
- B**
- C**
- C**
- D**

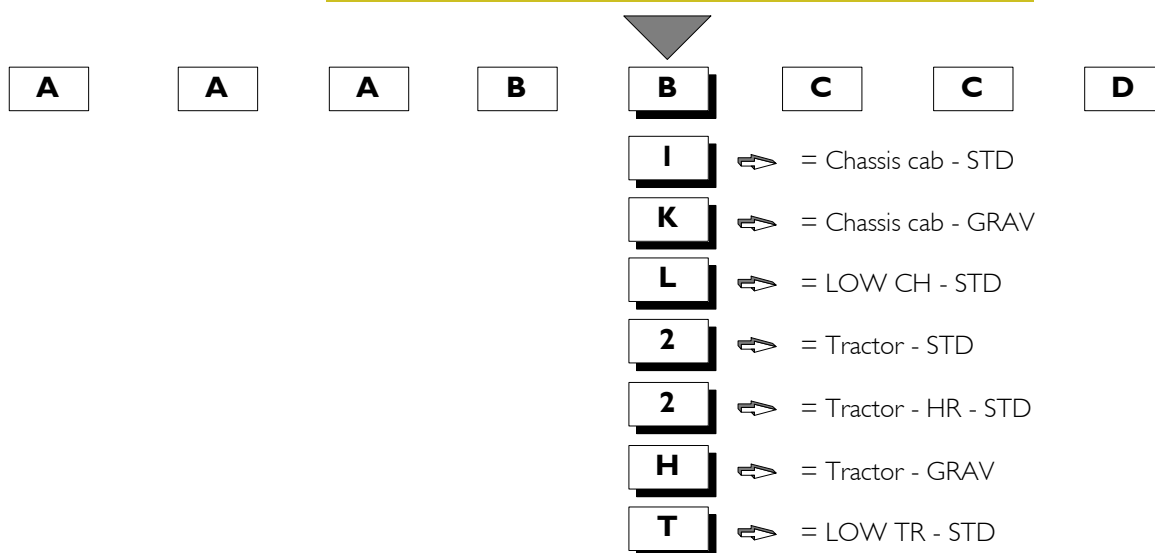
- L** E 400
- K** E 430
- N** E 440
- P** E 480
- R** E 540

SUSPENSION TYPE - REAR AXLE TYPE - TYPE OF ADDITIONAL AXLE



- TWIN = Twin rear wheels
- CENT = Middle axle (6x2C vehicles)
- SING = Added axle with rear single wheels
- STER = Added axle with rear steering single wheels
- HR = Double reduction rear axle
- SR = Simple reduction rear axle

VERSION COMBINATION - USE



- Cartran = Car transport
- LOW TR = Lowered tractor
- STD = Standard use
- GRAV = Heavy duty use
- LOW CH = Lowered chassis cab