Dear modelling enthusiast!

We are glad that you have decided on one of the precious **WEDICO** truck models! For the manufacture of individual parts WEDICO uses durable materials of high quality - rarely to find in these days. This guarantees durability and enjoyment of your model for years to come.

If you should ever require replacement parts, please get in touch with your dealer or directly with WEDICO. For order purpose it is important using not only those EDP-numbers mentioned within the general parts list but also indicating the necessary details concerning colour, quantity and exact term of the spares required. Please note that any type of spares for this wheel-loader model can be supplied only if you have returned to us the registration card included with this kit.

Enjoy the assembly!

Your WEDICO-Team

Tip: The make-up of this instruction allows putting together your own booklet if you wish so. For this purpose you have to fold and stick the pages as follows:

- 1. Turn round the first page with the English text facing downwards, and lay the next page on top of the first, with the English text facing upwards.
- 2. Glue the two pages together at the left outer edge (e.g. using adhesive tip) and fold the top page across to the left (with the fold vertically in the middle).
- 3. Lay the next page on top of the previous one with the English text facing upwards, stick the left outer edges and fold over to the left again as before. Similarly add remaining pages.
- 4. Finally glue together all pages at the inner edges, too, and fold the original page over as a cover, sticking it firmly at the left hand edge.

Technical description

Measuremer	312 mm	
(bucket	Width 2	211 mm
at bottom	Height 2	250 mm
position)	Track (tread) 1	58 mm
. ,	Weight (Static model)	5.3 kg
	Weight (Driving model)	7.7 kg

Finish Extremely hard epoxy powder coating; original Caterpillar colour. Excellent base when repaint-

ing for special purposes.

Superstructure

All superstructure components made are made from aluminium sheet panels, or from aluminium die-cast of 1.5 to 2.5mm thickness. Main frame made from 6mm thick aluminium sheet plane. The bumper is made from zinc die-cast. Fastening components made of stainless steel. Cab including true-to-original trim.

True-to-original tyres made of soft rubber with reproduction of original tread pattern. Front and rear wheels run in the same track. Pendulous rear axle, and rigid front axle fixed to the front carriage.

Nearly all of the individual parts are screwed. This kit model may be dismounted and reassembled again.

Drive

WEDICO-Bühler electric motor, rated 12 volts, 7-seament collector, Idling speed 6000 rpm. Torque 5 Ncm (approx. 500 pcm) at 4000 rpm. Power drawn under load at maximum torque approx. 3A. Current drawing at idle running with connected gear and two differentials approx.

3-speed gearbox "All-Wheel" 3-speed gearbox with long-time greasing, helical gearing technique, 14 ball bearings, gear wheels and housing made from metal.

Reduction ratio 12:1 / 6:1 / 3:1.

Drive train

Front and rear driving axles are made from metal, including partially lockable differentials. Gearbox manufactured as planetary construc-

tion; reduction ratio 15:1.

Stainless steel drive shaft with cardan joints between gear and front axle differential; also, cardan joints between gear and rear axle differ-

Hydraulics

Hydraulic valves provided for the functions of lifting and lowering of the boom, dumping and lifting of the bucket as well as steering to the

right and left-hand side.

Multiplex MS-X2 for the gear. commended Graupner GR C2081 for the hydraulics.

eWEDICO ASSEMBLY INSTRUCTION

Wheel-loader Caterpillar 966G Series II

Art.-No. 3100

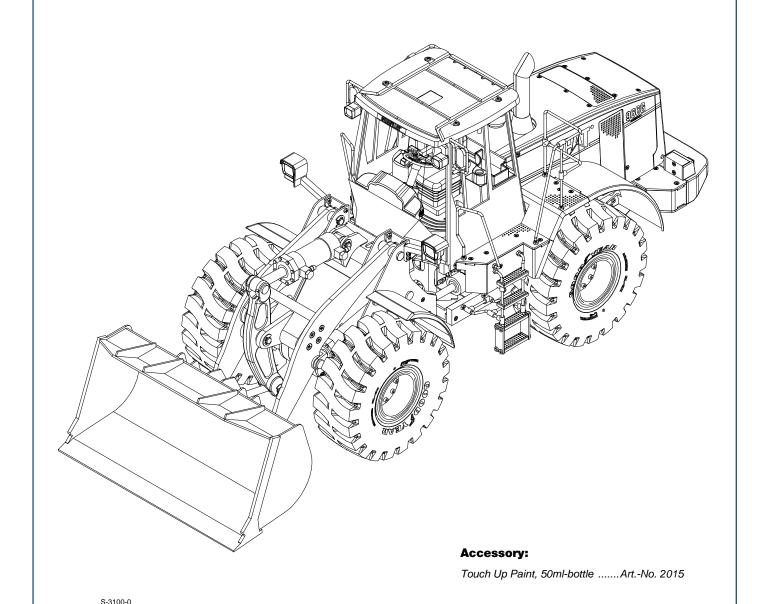
Options:

Set of Hydraulics, Art.-No. 3101 including the hydraulic pump plus oil filter.

3-fold control valve incl. the electrics,

hoses plus small parts, and one bottle of oil.

Set of Electrics, Art.-No. 3102 including the electrical system, all-wheel 3 speed gearbox, electric motor 12V, NiMh battery pack 12V, 2.7 Ah, speed controller incl. the sound module plus loudspeaker.



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3100-es.DOC / CAT 17.08.2006

Wheel-loader Caterpillar 966G Series II Overview of screws and parts list

General notes

Please follow the steps of assembly accordingly to the instructions. Each single assembly step is described and illustrated, and furthermore does the parts lists indicate the required components for the actual construc

tion step. Carefully observe the notes explaining the various steps of assembly and use only those parts which are provided. This will insure a correct result of assembly.

For easier identification of different screws

identified by comparing the proportion.

Additionally, on the right side of this page you find a complete list including each single item. Some of the small parts are packed in a higher In order to join those components not to be number of pieces than necessary.

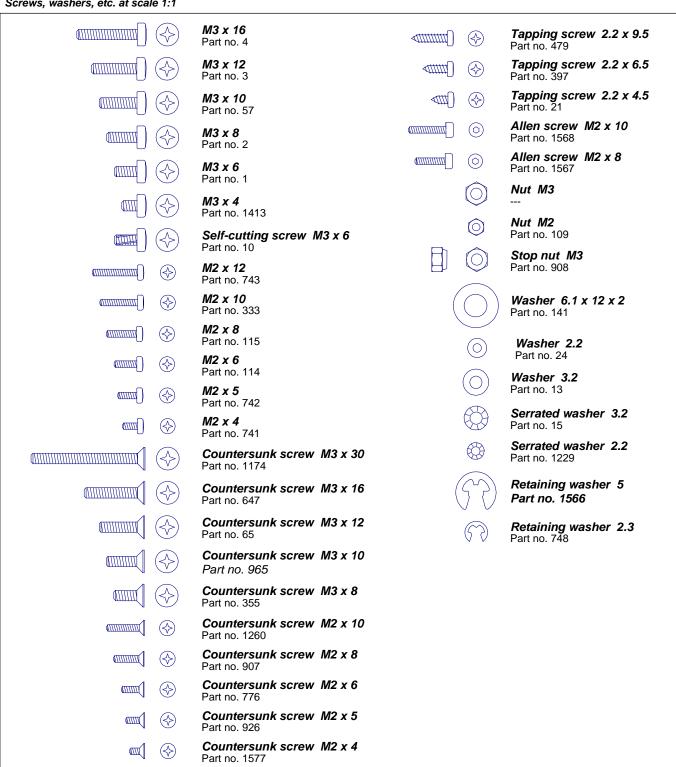
M3 hex nuts are not provided with an identification number. It is the static model version only which is generally shown in the illustration. Components shown in the illustration but making part of the accessory sets of either and washers, on this page we are adding an the Hydraulics or the Electrics, are specially illustration of the *most important parts at* <u>marked by broken lines and provided with</u> original scale. Not illustrated parts are to be special notes. The illustrations do not always

include all the before-hand mounted parts if these are not belonging to the actual assembly

screwed, use a customary all-purpose glue.

For screws to be screwed directly into plastic parts: Before you start mounting the plastic components, first cut the necessary threadings with help of the screw provided for this

Screws, washers, etc. at scale 1:1



0 1	NI.	A		embly	NI-	A	EDD No.	01:-	NI.	A	EDD N
Qty.	No.	Assembly part	EDP-No.	Qty.	No.	Assembly part	EDP-No.	Qty.	No.	Assembly part	EDP-No
26				1		Ventilation grid, hood, -rh		1	1503	Plate for turning knuckle,	
2	2	Screw M3 x 8		1		Ventilation grid, hood, -lh				yellow	. 29990
8	3	Screw M3 x 12		1	1447	Squeezing device, -rh	29622	1	1504	Side plate, outside, -lh-,	
2	10	Self-cutting screw M3 x 6.	20222	1	1448	Squeezing device, -lh	29624			yellow	. 29992
4	13	Washer 3.2	20046	1	1449	Hood, upper part, yellow	29926	1	1505	Side plate, outside, -rh-,	
4	15	Serrated washer 3.2	20054	1	1450	Ventilation grid, hood, top.	29628			yellow	29994
3	21	Tapping screw 2.2 x 4.5		1		Carrier, exhaust equipmen		2	1506	Carrier for side plates,	
2		Washer 2.2				+ air filter, yellow		_	.000	yellow	29996
2	57	Screw M3 x 10		1	1452	Base for exhaust		2	1507	Fender, front, yellow	
12	_	Counters. screw M3 x 12.		1		Exhaust half, -rh		1		•	
						,		-		Joint bolt Ø6 x 21.6	30036
195	109	Nut M2		1		Exhaust half, -lh		2	1509	Support for steering	00000
24		Screw M2 x 6		1		Air filter half, -rh		_		cylinder, front, yellow	. 30000
8		Screw M2 x 8		1		Air filter half, -lh	29640	1	1510	Floor plate, front carriage,	
6		Washer 6.1 x 12 x 2 (PA).		1	1457	Mounting plate,				yellow	. 30002
7	333	Screw M2 x 10	26902			hydraulics/electrics		1	1511	Cross member, front	
8	355	Counters. screw M3 x 8	20030	1	1458	Hinge shaft for hood	29646			carriage, bottom, yellow	30004
9	397	Tapping screw 2.2 x 6.5	23690	1	1461	Ladder bow, rear, black	29930	1	1512	Lamp support, front, -lh	
4		Tapping screw 2.2 x 9.5		4	1462	Step with lateral holes	29654	1		Lamp support, front, -rh	
2		Mirror foil		1		Ladder frame, front, -rh		2		Lamp housing, front	
4		Counters, screw M3 x 16.		2		Ladder frame, rear		2		Lamp frame, front	
38	-	Screw M2 x 4	-	4		Step with top holes		2			
22				1						Lens, front, small	
		Screw M2 x 5				Step with fixing links	29002	2		Lens, front, big	. 29//0
12		Screw M2 x 12		4	146/	Side metal sheet for	00000	2	1518	Cable cover,	
6		Retaining washer 2.3				steps, black				lamp support, front	
12		Counters. screw M2 x 6		4		T-piece, closed		2	1519	Plate for bulb wire, yellow.	. 30006
8	907	Counters. screw M2 x 8	26688	1	1469	Ladder frame, front, -lh	29668	1	1520	Cover for centre unit,	
2	908	Stop nut M3	30568	1	1470	Step with top + lateral				front carriage, yellow	30008
77		Counters. screw M2 x 5				holes	. 29670	4	1521	Bearing bush, bucket arm.	
1		Allen wrench 1.5		2	1471	Supporting frame		3		Joint bolt Ø6x15.1mm	
8				2		Step		3			29100
18						_ :		3	1525	Bearing socket, turning	00700
-		Counters. screw M2 x 10.		12	1473			_		knuckle top	
1		Frame -lh-, yellow		2		Handrail, rear		2	1524	Joint bolt Ø6 x 22.8	. 30038
1		Frame -rh-, yellow	. 29886	2	1475	Railing post	29680	4	1525	Joint bolt Ø4 x 12.7	29786
1	1416	Floor plate, hind carriage,		1	1476	Railing frame, -lh	29682	1	1526	Cab floor, top	29788
		yellow	29888	2	1477	Centre frame	29684	1	1527	Base for seat	
1	1417	Base for floor plate, yellow	29890	1	1478	Railing frame, -rh	29686	i	1528	Armrest	
1		Front plate, hind carriage,		1		Handrail, front, -lh		1	1529	Seat	
•		yellow	29892	1		Stepboard, -lh-, yellow		' l			
1	1/10	Cross member, hind	20002	1	1481	Fender, rear, -lh-, yellow		1		Seat upholstery	
•	1413	carriage, centre, yellow .	20804	1			29900	1	1531	Dashboard	
4	1420		29094	'	1402	Protection plate for ladder,	20060	1		Tilting control lever	
1	1420	Cross member, hind	00000		4 400	-lh-, yellow		1	1533	Lifting control lever	. 29802
_		carriage, top, yellow	29896	1		Handrail, front, -rh		1	1534	Wrist rest	. 29804
2	1421	Support for steering		1	1484	Stepboard, -rh-, yellow	29970	1	1535	Steering wheel	29806
		cylinder, rear, yellow	29898	1	1485	Fender, rear, -rh-, yellow	29972	1	1536	Cab floor, bottom	
2	1423	Carrier for cab and		1		Protection plate for ladder,		1		Glass cab	
		entrances, yellow	29900			-rh-, yellow	29974	1		Metal cab	
4	1424			1	1487	Tank housing, yellow		1			
1		Bumper, yellow		1	1488	Tank side, inside, yellow		1	1539	Rear mirror, -rh	
1		Support f. box, -rh-, yellow		1	1489			1	1540	Rear mirror, -lh	
						Cover for tank tube		1	1541	Lamp support, cab, -rh	
1		Housing f. box, -rh-, yellow		1				1		Lamp support, cab, -lh	
1		Cover for box, -rh-, yellow	29908	1	1491	Bucket, yellow		2	1543	Lamp frame, cab	. 29822
1		Support f. box, -lh-, yellow	29910	1		Central beam, yellow		2	1544	Cable cover,	
1		Housing f. box, -lh-, yellow	29912	1	1493	Connecting rod, yellow	30016			lamp support/cab	29824
1	1431	Support for ladder,		2	1494	Joint bolt Ø6 x 20.8	29718	2	1545	Lens, cab	
		rear, -rh-, yellow	29914	2	1495	Joint bolt Ø6 x 18.5		1		Roof, cab, yellow	
1	1432	Cover for support, yellow		2		Bucket arm, yellow		2		Pivot bearing	
1		Lamp support, rear -lh		1		Central carrier,	5550			•	
1		Lamp housing, rear -lh		'	1431		30010	1	1553	Rear axle diff, CAT	
				_	1 100	bucket arm, yellow		1	1554	Front axle diff, CAT	
1		Lamp support, rear -rh		5	1498		29/26	2		Lifting cylinder, yellow	
1		Lamp housing, rear -rh		1	1499	Central unit, front carriage,		1	1556	Tilting cylinder, yellow	. 29870
4		Lens, rear, small				yellow	29982	2	1557	Steering cylinder, yellow	. 29872
2	1438	Lens, rear, big	29534	1	1500	Side plate, inside, -lh-,		8		Rim, CAT, yellow	
1	1439	Battery box	29918			yellow	. 29984	4	1559	Bushing for rim	
2		Support f. batt. box, yellow		1	1501	Side plate, inside, -rh-,		4	1561	Tyre "Goodyear"	
1		Hood, side, -rh-, yellow		' '	1301		20096				
1		Hood, side, -Ih, yellow			1500	yellow	29900	15		Retaining washer 5	
•				1	1502	Support for tilting cylinder,	0000	40	1568	Allen screw M2 x 10	
1		Cover, radiator grille Radiator grille				yellow	29988	8	1577	Counters. screw M2 x 4	
1			11 11-7 1-		i			1		Decal CATERPILLAR	29934

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1 Assembly of the hind carriage

1.1 Mounting the centre frame

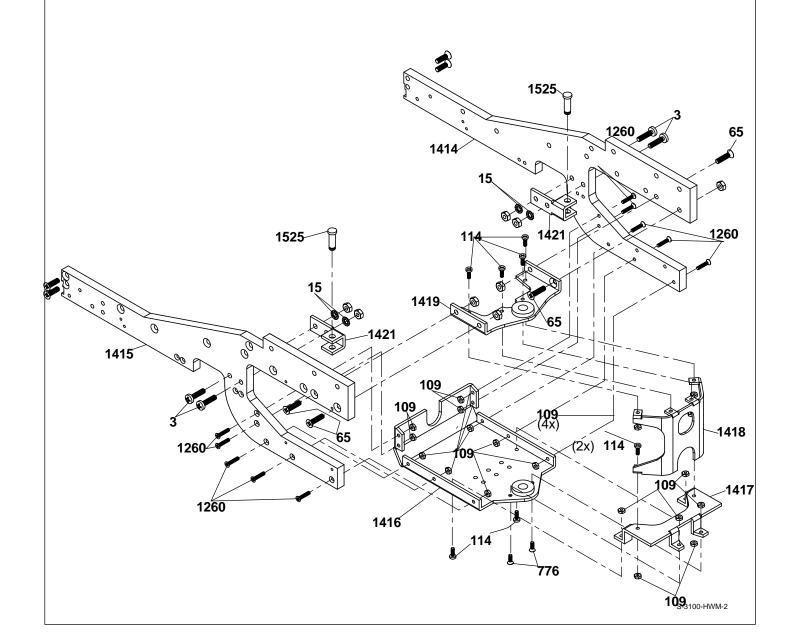
Start by fixing the floor plate 1416: use each five countersunk screws 1260 and nuts 109 to fix it to the left-hand frame side 1414 and to the right-hand frame side 1415. With screws 114 and nuts 109 attach now the front plate 1418 onto the base 1417, and afterwards the base itself onto the floor plate; for this purpose use screws 114, countersunk screws 776 and nuts 109.

Fix the centre cross member 1419 as follows: With screws 114 and nuts 109 onto the front panel, and with countersunk screws 65 and nuts M3 onto the left- and right-hand

Insert one each joint bolt 1525 to the supports 1421 (serving for the steering cylinders). Afterwards use screws 3 and serrated washers 15 to fix the supports onto the inner side of the frame (see drawing).

Assembly step 1.1

Qty.	No.	Assembly part	
8		Nut M3	
4	3	Screw M3 x 12	
4	15	Serrated washer 3.2	
4	65	Countersunk screw M3 x 12	
20	109	Nut M2	
8	114	Screw M2 x 6	
2	776	Countersunk screw M2 x 6	
10	1260	Countersunk screw M2 x 10	
1	1414	Frame -lh-	
1	1415	Frame -rh-	
1	1416	Floor plate, hind carriage	
1	1417	Base for floor plate	
1	1418	Front plate, hind carriage	
1	1419	Cross member, hind carriage, centre	
2	1421	Support for steering cylinder, rear	
2	1525	Joint bolt Ø4 x 12.7	



1525 M 1:1

Assembly step 1.2

Qty.	No.	Assembly part
4	741	Screw M2 x 4
4	926	Countersunk screw M2 x 5
1	1425	Bumper
1	1433	Lamp support, rear -lh-
1		Lamp housing, rear -lh-
1		Lamp support, rear -rh-
1	1436	Lamp housing, rear -rh-
4	1437	Lens, rear, small
2		Lens, rear, big
6	1562	* Bulb 5V

* included in Art. 3102

741 1435 1438 1425 S-3100-HWH-1

1.2 Mounting the lamps onto the bumper

→ When installing the Set of Electrics, Art.-No. 3102: First insert the bulbs 1562 into the lamp supports. For this purpose carefully bend the wire behind the bulb lens by 90 degrees. Test the bulb function before you start embedding the cable itself. Please be careful not to squeeze the bulb wires as this may cause a short circuit.

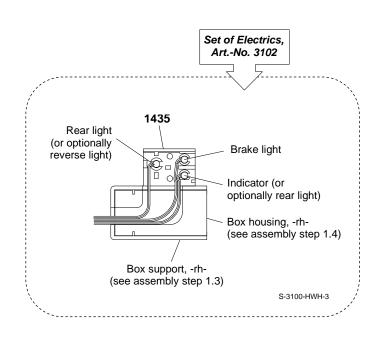
.....

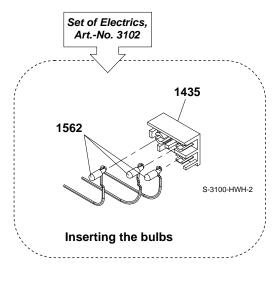
Please decide yourself which way of bulb connection you will prefer. If you have selected the version which includes the indicators, each blink pulse has to be given via the remote control equipment.

Dye the lamp lenses as preferred, either in red, or in orange colour; for this purpose you may use for instance a so-called "Permanent

At their upper side, the big lamp lenses 1438 show a small sparing to match the upper bushing inside the lamp housing. When inserting the lenses please pay attention to their correct position. Now, start equipping the right-hand lamp housing 1436 and the left lamp housing 1434 with the big lamp lenses and the small lamp lenses 1437; use a bit of glue to fix the lenses onto the housing.

With screws 741 mount then the lamp housings onto the bumper 1425. Behind the lamp housings set the lamp supports: lamp support 1433 to the left-hand side, lamp support **1435** to the right-hand side. Fix the supports using screws 926.





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Assembly step 1.4

Qty. No. Assembly part

333 Screw M2 x 10

1 1427 Housing for box, -rh-

1 1430 Housing for box, -lh-

1 1431 Support for ladder, rear, -rh-

1 1428 Cover for box, -rh-

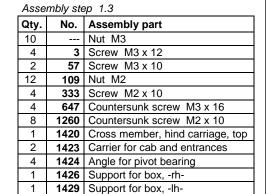
3 **109** Nut M2

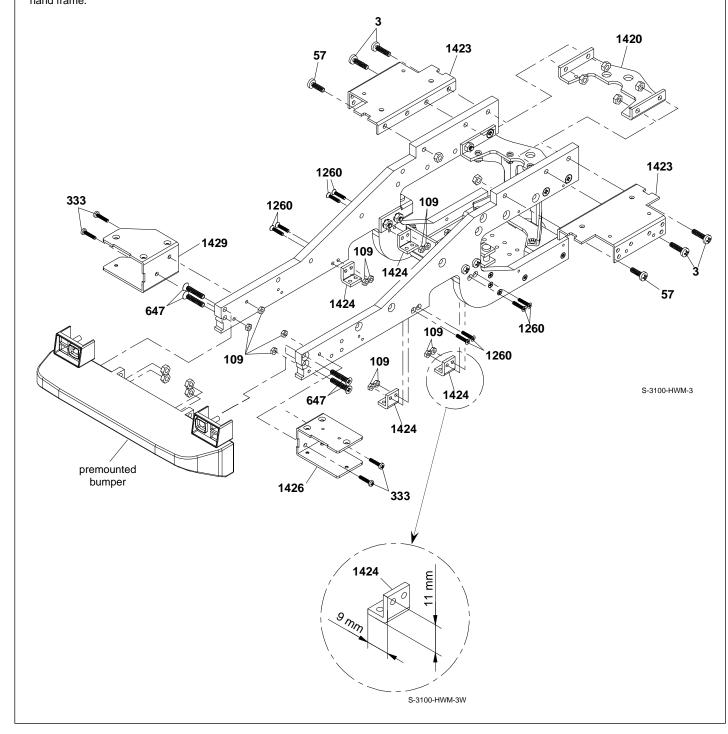
1.3 Components belonging to the centre frame

Along with both carriers provided for the cab and the entrances 1423, mount the upper crossmember 1420 between both frames. For this purpose use screws 3 and nuts M3. Additionally fix the carriers for the cab and entrances with each one screw 57 and nut M3 onto the frame. Now, mount the angles for the pivot bearings 1424 with countersunk screws 1260 and nuts 109 onto the inner

Fix the premounted bumper with countersunk screws 647 and nuts M3 onto the rear of the

Finally use screws 333 and nuts 109 to fix the box support 1426 to the right-hand frame, and then the box support 1429 to the lefthand frame.



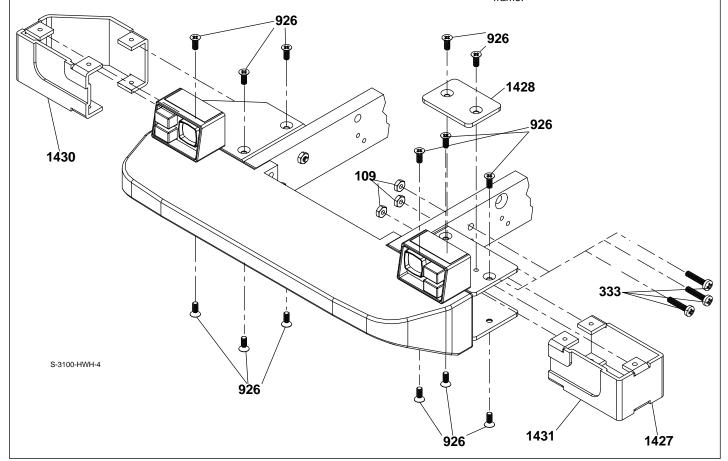


1.4 Components belonging to the rear frame

14 926 Countersunk screw M2 x 5

On the right-hand side, slide the box housing 1427 into the premounted support, and fix it from top and from underneath using each three countersunk screws 926. Over that mount then the box cover 1428, using exactly the same screws. Again, with countersunk screws 926 add now the box housing 1430 to the left-hand side.

For the later attachment of the ladder to the rear right-hand side, mount the support 1431 using screws 333 and nuts 109 onto the



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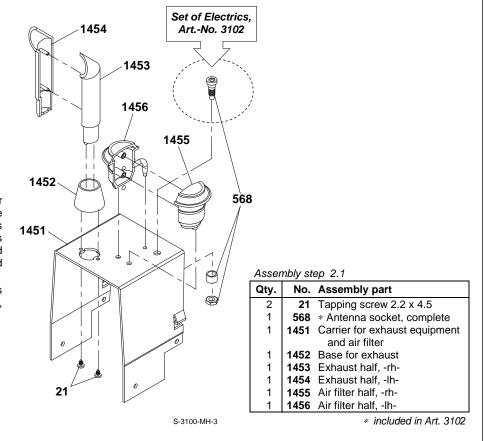
1 Pre-Assembly of the motor hood

2.1 Carrier for exhaust equipment and air-filter

→ When installing the Set of Electrics. Art.-No. 3102: Affix the components for the antenna socket 568 as shown in the illustration. Please note that the antenna cable from the remote control : receiver will have to be soldered to the antenna socket.

With tapping screws 21 first fix the base for exhaust 1452 onto the carrier 1451. Use glue to connect the base for exhaust as well as both exhaust halves 1453 and 1454. For this purpose fit both exhaust halves together and press them into the base for exhaust placed on the exhaust carrier.

Also, use glue to join both airfilter halves 1455 and 1456: Fit one half into the other, and add them with glue to the carrier.



1577

2.2 Side parts of the hood

Use countersunk screws 926 and nuts 109 for the attachment of the following parts: Onto the right-hand hood side 1441 add the right-hand ventilation grid 1445; onto the lefthand hood side 1442 add the left-hand ventilation grid 1446. Use countersunk screws 1577 and nuts 109 then to fix the squeezing devices 1447 and 1448, each with it's sloped side to fit the front edge of both motor hood sides.

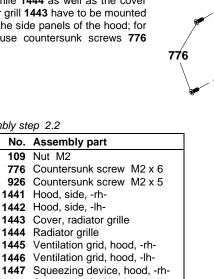
The radiator grille 1444 as well as the cover for the radiator grill 1443 have to be mounted together onto the side panels of the hood; for this purpose use countersunk screws 776 and nuts 109.

Assembly step 2.2

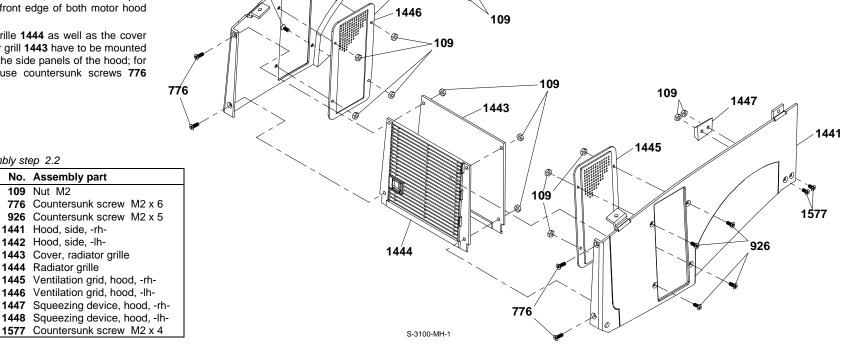
Qty. No. Assembly part **109** Nut M2

> 1441 Hood, side, -rh-1442 Hood, side, -lh-

1444 Radiator grille



926



Wheel-loader CATERPILLAR 966G Series II

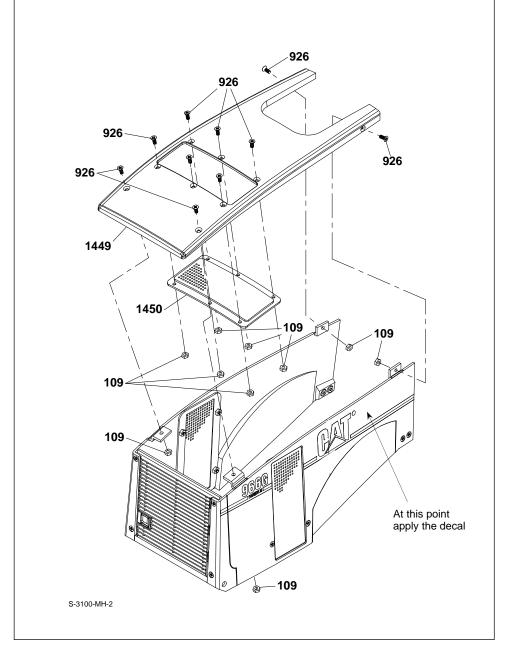
Assembly step 2.3 Qty. No. Assembly part

109 Nut M2 926 Countersunk screw M2 x 5 **1449** Hood, upper part 1450 Ventilation grid, hood, top
--- Decal CATERPILLAR

2.3 Upper part of the motor hood

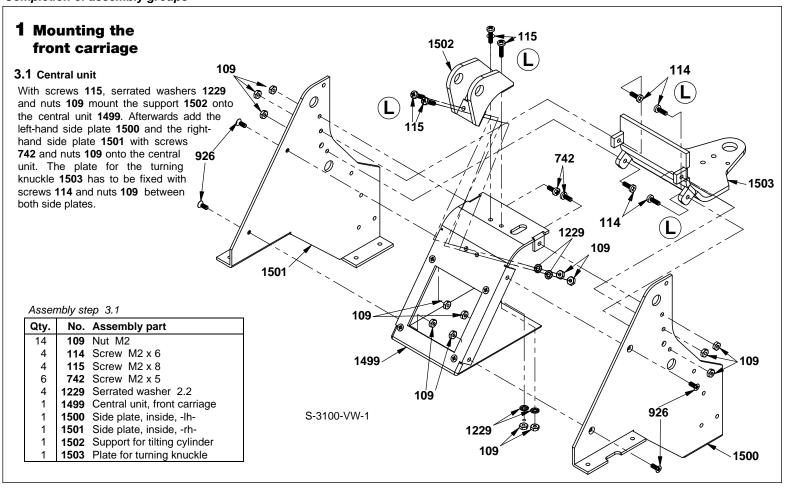
Use countersunk screws 926 and nuts 109 to fix the upper ventilation grid 1450 underneath the upper part of the motor hood 1449. Afterwards set the upper part onto the side panels and fix it with countersunk screws 926 and nuts 109.

Now, on the right and left-hand hood side apply the decoration stripes. Afterwards, in order to leave the ventilation grids free, cut out that area which is still covering the grids.



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Wheel-loader CATERPILLAR 966G Series II



109

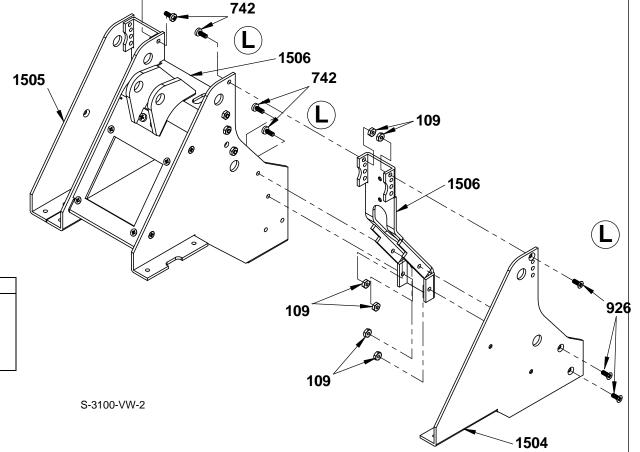
3.2 Outer plates for

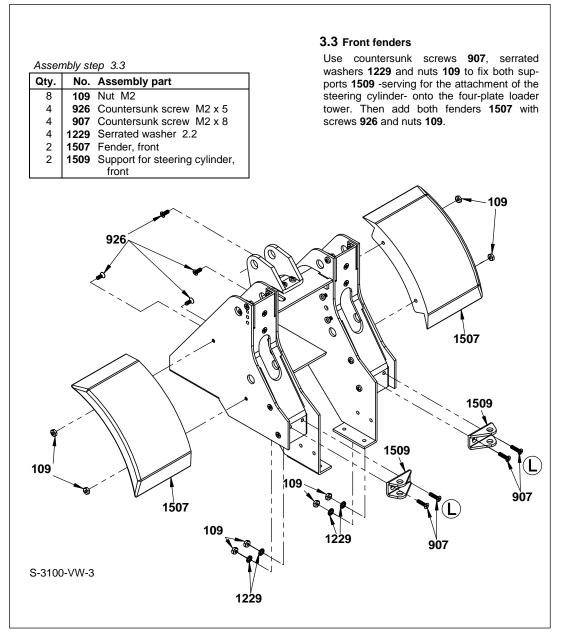
the four-plate loader tower

Note: For reasons of a better overview, the illustration shows the screwed connections on the left-hand side only. Attachment of the parts on the right-hand side has to be done similarly.

With screws **742** and nuts **109** mount each one carrier **1506** onto the inner side plates. Mount the outer side plate **1504** onto the lefthand side, and the outer side plate **1505** onto the right-hand side; for this purpose use countersunk screws **926** and nuts **109**.

Assembly step 3.2					
Qty.	No.	Assembly part			
12	109	Nut M2			
6	742	Screw M2 x 5			
6	926	Countersunk screw M2 x 5			
1	1504	Side plate, outside, -lh-			
1	1505	Side plate, outside, -rh-			
2	1506	Carrier for side plates			





Note!

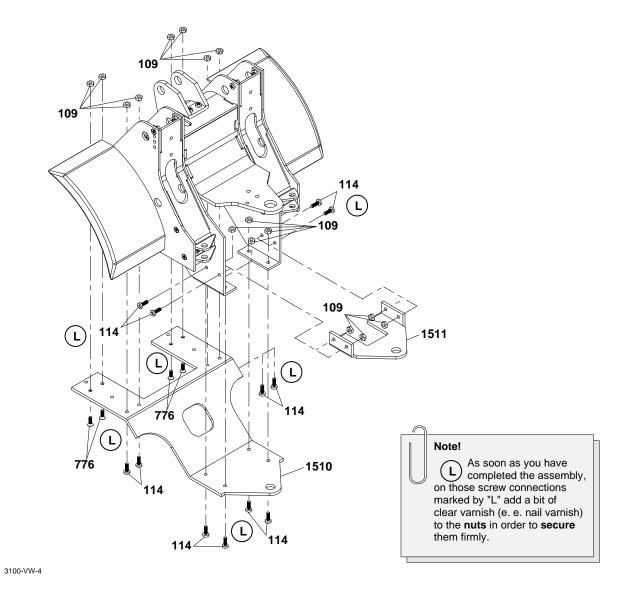
As soon as you have completed the assembly, on those screw connections marked by "L" add a bit of clear varnish (e. e. nail varnish) to the **nuts** in order to **secure** them firmly.

3.4 Floor of the front carriage

As shown in the drawing, fix the floor plate 1510 with screws 114, countersunk screws 776 and nuts 109 underneath the four-plate loader tower. Fix the crossmember 1511 between the inner side plates with screws 114 and nuts 109.

Assembly step 3.4

		•
Qty.	No.	Assembly part
16	109	Nut M2
12		Screw M2 x 6
4	776	Countersunk screw M2 x 6
1	1510	Floor plate, front carriage Cross member, front carriage,
1	1511	Cross member, front carriage,
		bottom

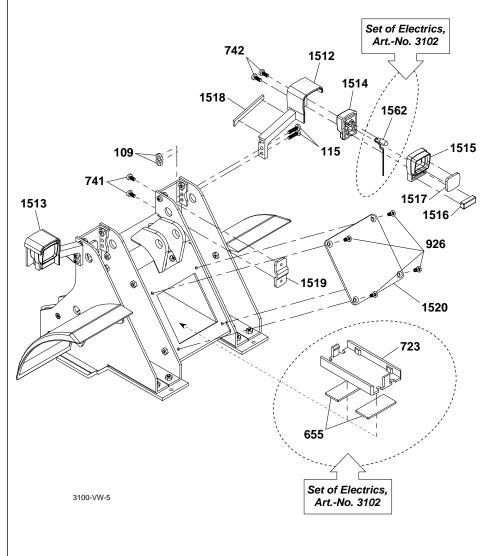


Wheel-loader CATERPILLAR 966G Series II

Assembly step3.5

Qty.	No.	Assembly part	
4	109	Nut M2	
4	115	Screw M2 x 8	
2	655	* Adhesive pad, double-sided	
1		* PCB support, small	
4		Screw M2 x 4	
4	742	Screw M2 x 5	
4	926	Countersunk screw M2 x 5	
1	1512	Lamp support, front, -lh-	
1	1513	Lamp support, front, -rh	
2	1514	Lamp housing, front	
2	1515	Lamp frame, front	
2 2	1516	Lens, front, small	
2	1517	Lens, front, big	
2	1518	Cable cover, lamp support,	
		front	
2	1519	Plate for bulb wire	
1	1520	Cover for centre unit,	
		front carriage	
2	1562	* Bulb 5V	

* included in Art. 3102



3.5 Front lamps

If you wish so, prior to the assembly dye the small lamp lenses **1516** in orange colour. Equip one lamp frame **1515** with one small lamp lens and one bigger lamp lens **1517**; use a bit of glue to fix them.

With screws **742** attach one lamp housing **1514** onto the left-hand lamp support **1512**.

→ When installing the Set of Electrics, Art.-No. 3102: The lamp supports include a cable channel, and the fourplate loader tower offers special holes provided for the bulb wires to be led: through to the circuit board. Insert the bulbs 1562 into the lamp housings. Before you lead the bulb wire into the inside of the four-plate loader tower, fix the complete lamp support onto the front carriage (as shown at the bottom). The plates 1519 -serving for the attachment of the bulb wires- are fixed with screws 741. Be careful and make sure that the bulb wires are not squeezed as this would cause a short circuit.

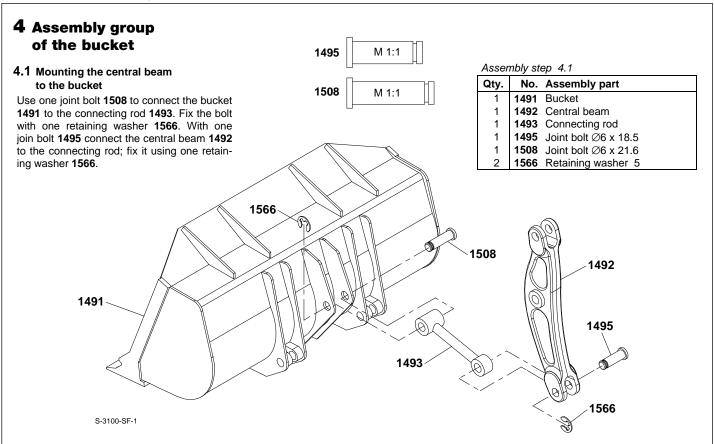
Now press the lamp frame previously equipped with the lenses into the lamp housing. Fix the complete lamp support with screws 115 and nuts 109 onto the front carriage. Close the cable channel inside the lamp support using one cable cover 1518.

Similarly, add the right lamp support **1513** onto the right-hand side of the four-plate loader tower using the same assembly parts.

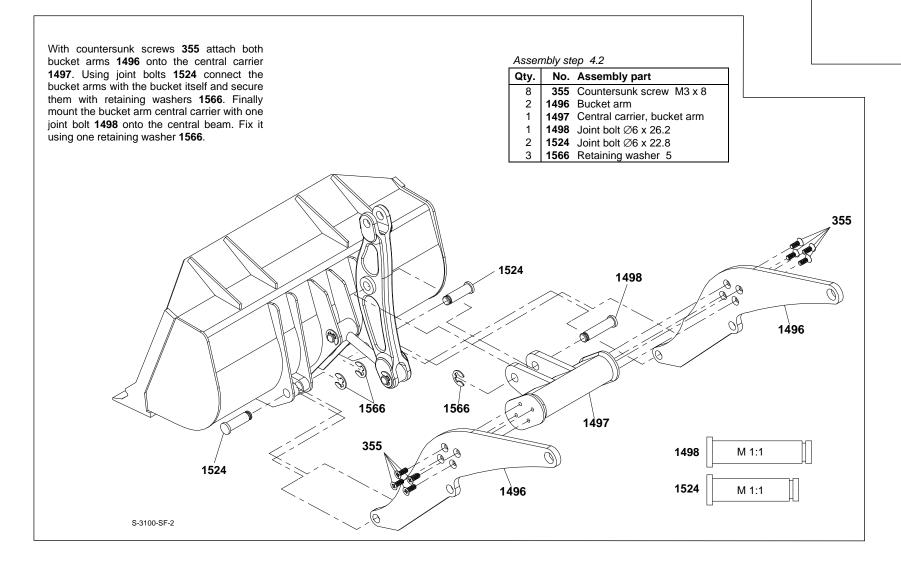
→ When installing the Set of Electrics, Art.-No. 3102: With two adhesive pads 655 attach the PCB support 723 -serving for the rear lighting board- as shown into the four-plate loader tower.

With countersunk screws **926** add the cover **1520** onto the central unit (if applicable, after the installation of the Electrical System).

3100-es7.DOC / CAT Page **7**



4.2 Bucket arms



right-hand side Assembly step 5.1 5.1 Pro-assembly of the la

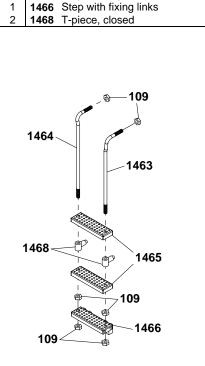
5.1 Pre-assembly of the ladder for the right-hand side

5 Fittings for the

For the later attachment of the ladder to the hind carriage, turn each one nut **109** onto the upper ends of the ladder frames **1463** and **1464**. Turn the nuts for several times up and down until they become easy to add.

Now, slide the following parts -one by oneonto the frame units: one step **1465** (with holes on top), each one T-piece **1468**, a second step **1465**, each one nut **109**, one step **1466** (with fixing links), and each one further nut **109**.

When mounting the unit to the hind carriage (see assembly step 12.4) slide the steps into place and fix them using either the securing nuts or glue.



Qty. No. Assembly part

109 Nut M2

M 1:1

S-3100-HWR-1b

1463 Ladder frame, front, -rh-

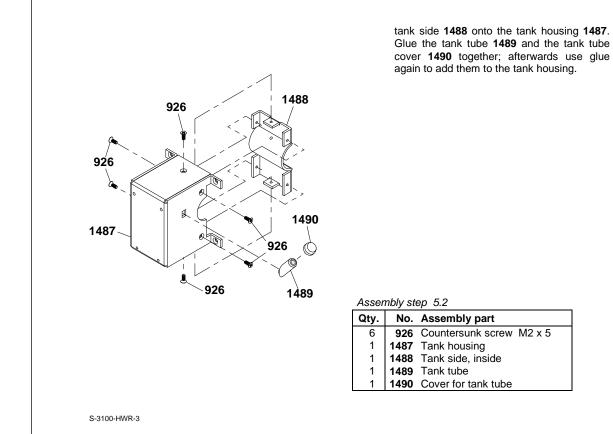
1464 Ladder frame, rear

1465 Step with top holes

5.2 Pre-assembly of the tank housing

S-3100-HWR-1

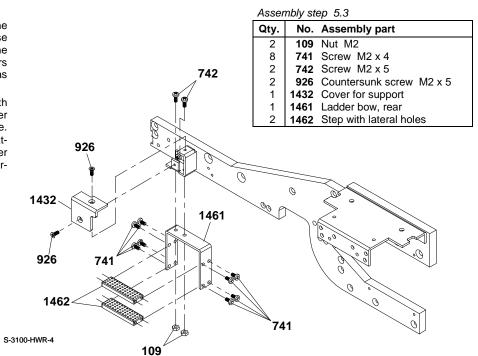
With countersunk screws 926, add the inner



5.3 Mounting the rear ladder

<u>Note:</u> For reasons of a better overview, the illustration shows a few parts only of those components you have already mounted: the right-hand side frame along with the carriers provided for the cab and entrance, as well as the support for the rear ladder.

Start by fixing the ladder bow 1461 with screws 742 and nuts 109 onto the ladder support previously mounted onto the frame. Afterwards attach both steps 1462 (with lateral holes) with screws 741 onto the ladder bow. Now fix the cover 1432 using countersunk screws 926.



Assembly step 5.4

No. Assembly part

741 Screw M2 x 4

109 Nut M2

Qty.

13

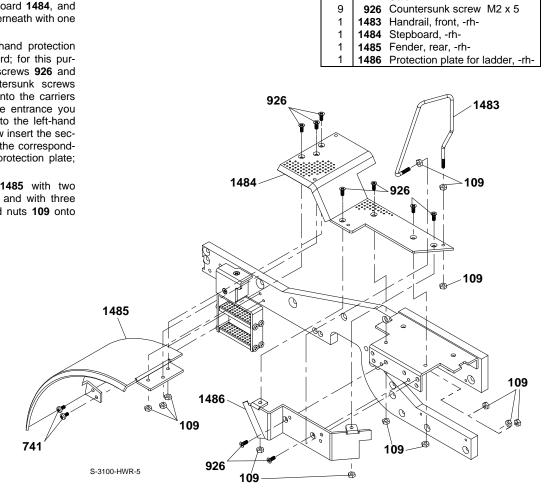
For the attachment to the step and the protection plate, turn each one nut **109** onto the thread ends of the right handrail **1483**. Then set the vertical end into the corresponding hole on the right-hand stepboard **1484**, and secure the handrail from underneath with one further put **109**

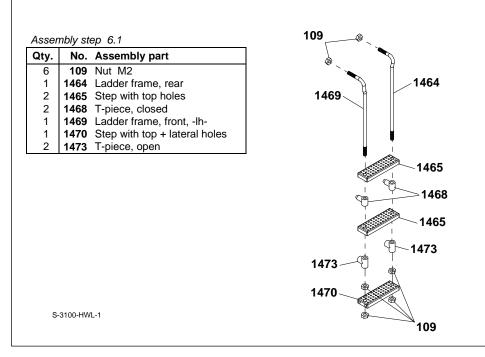
5.4 Right-hand stepboard

with attached components

Afterwards mount the right-hand protection plate 1486 onto the stepboard; for this purpose use two countersunk screws 926 and nuts 109. The same countersunk screws serve to attach both parts onto the carriers provided for the cab and the entrance you previously have mounted onto the left-hand side of the hind carriage. Now insert the second end of the handrail into the corresponding hole on stepboard and protection plate; secure it with one nut 109.

Fix the right-hand fender 1485 with two screws 741 onto the frame, and with three countersunk screws 926 and nuts 109 onto the stepboard.



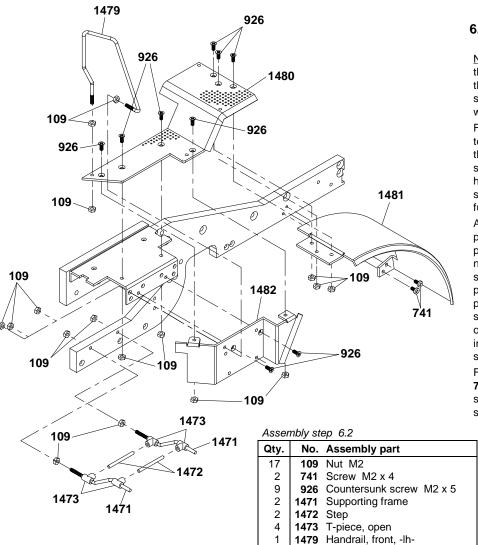


4 Fittings for the left-hand side

6.1 Pre-assembly of the ladder for the left-hand side

For the later attachment of the ladder to the hind carriage, turn each one nut **109** onto the upper ends of the ladder frames **1464** and **1469**. Turn the nuts for several times up and down until they become easy to add.

Now, slide the following parts -one by oneonto the frame units: one step 1465 (with holes on top), each one T-piece 1468, a second step 1465, each one T-piece 1473, each one nut 109, one step 1470 (with holes on top and on the side), and each one further nut 109. When mounting the unit to the hind carriage (see assembly step 12.6) slide the steps into place and fix them using either the securing nuts or glue.



S-3100-HWL-2

1480 Stepboard, -lh-

1481 Fender, rear, -lh-

1482 Protection plate for ladder, -lh-

6.2 Left-hand stepboard with attached components

Note: For reasons of a better overview, of those premounted components belonging to the hind carriage it is just the left-hand frame side and the carrier for cab and entrance which are included with the illustration.

For the attachment to the step and the protection plate, turn each one nut **109** onto the thread ends of the left handrail **1479**. Then set the vertical end into the corresponding hole on the left-hand stepboard **1480**, and secure the handrail from underneath with one further nut **109**.

Afterwards mount the left-hand protection plate 1482 onto the stepboard; for this purpose use two countersunk screws 926 and nuts 109. The same countersunk screws serve to attach both parts onto the carriers provided for the cab and the entrance you previously have mounted onto the left-hand side of the hind carriage. Now insert the second end of the handrail into the corresponding hole on stepboard and protection plate; secure it with one nut 109.

Fix the left-hand fender 1481 with two screws 741 onto the frame, and with three countersunk screws 926 and nuts 109 onto the stepboard.

Fix the left-hand fender **1481** with two screws **741** onto the frame, and with three countersunk screws **926** and nuts **109** onto the stepboard.

Use the steps **1472** to connect both supporting frames, and set the supporting frames into the holes therefore provided on the chassis; fix them from the rear with one further nut **109**. If one of these parts remains loosely (e.g. steps), please use a bit of glue to fix them properly.

3100-es9.DOC / CAT Page **9**

4 Installation of the gearbox and the motor, both belonging to the Set of Electrics, Art.-No. 3102

7.1 Assembly of motor and operating servo to the gearbox

→ When installing the Set of Electrics, Art.-No. 3102:

Remove the white motor pinion (14) teeth) from the shaft of the motor 1175 and replace it by the 12-teeth brass motor pinion 1164. Using a threaded pin 1171 which is pressed onto the flattening on the shaft, the pinion will be fixed onto the shaft (appropriate Allen wrench 1172 is included in the kit : 3100).

Set the cover plate 1547 in front of the gearbox rear side 1552; with three screws 1174 now fix the motor onto the proper gear unit.

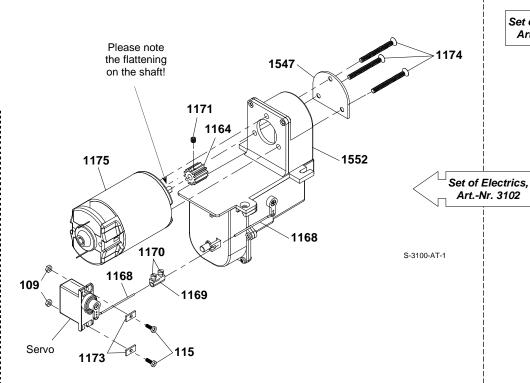
Before you start mounting the servo lever onto the servo, use your RC equipment or a servo tester to set the servo into position "Zero" (= middle of the lever way).

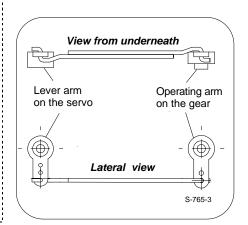
Accordingly to the illustration, hang both slide rods 1168 with the bent hook on one side into the operating arm of the gear unit, and on the other side into the lever arm of the servo. Then connect both slide rods with the binder 1169 along with both screws 1170 as follows: Use screws 115, U-plates 1173 and nuts 109 to attach the servo onto those metal noses provided for the later attachment of the gear unit.

Note serving for the operation of the All-wheel gearbox: The gearbox should never be operated when the wheel loader is in motion! The reduction ratios are as follows:

1. Gear 12:1 (Operating lever front) 2. Gear 6:1 (Operating lever centre) 3. Gear 3:1 ((Operating lever rear)

22





2	109 * Nut M2				
2	115 * Screw M2 x 8				
1	1164 * Motor pinion, brass,				
	with12 teeth				
2	1168 * Slide rod				
1	1169 * Binder for slide rod				
2	170 * Screw M2.6 x 5				
1	1171 * Threaded pin M3 x 3				
2	1173 * U-plate 2				
3	1174 * Countersunk screw M3 x 30				

1175 * Bühler motor

Qty. No. Assembly part

Assembly step 7.1

* included in Art. 3102

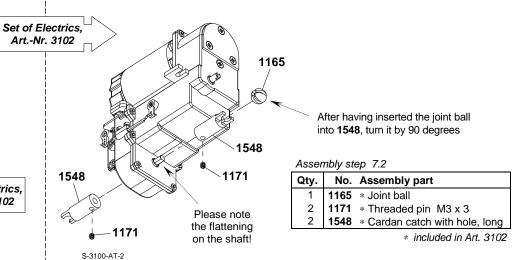
incl. 14 teeth pinion

1547 * Cover plate for gearbox, CAT

1552 * All-wheel gearbox, mounted,

Fitting types of servos

Miniature servos are offered by several manufacturers. As



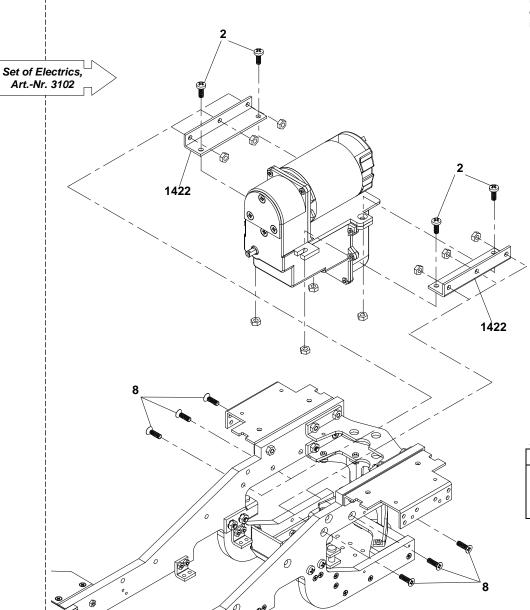
7.2 Assembly of the cardan catch to the gearbox

→ When installing the Set of Electrics, Art.-No. 3102: Pin each one cardan catch 1548 onto both ends of the drive shaft belonging to the gearbox. Using a threaded pin 1171 which is pressed : onto the flattening on the shaft, the pinion will be fixed onto the shaft. Afterwards insert one joint ball 1165 onto the rear cardan catch, and then turn the ball by 90 degrees.

7.3 Installation of the gearbox

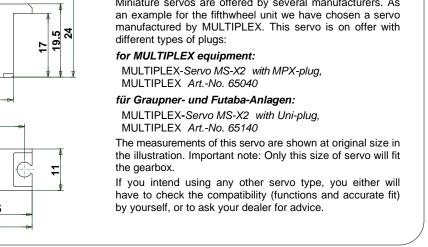
Note: For reasons of a better overview, the lateral fittings of the hind carriage you previously have mounted are not included with the

→ When installing the Set of Electrics, Art.-No. 3102: First remove the countersunk screws at the rear of the gearbox. With screws 2 and nuts M3 mount then both carriers 1422 onto the top of the gearbox sides. Along with the gearbox, set the carriers into the hind ! carriage; fix the carriers with countersunk screws 8 and nuts M3 onto the inner sides of the frame.



Assembly step 7.3				
Qty.	No.	Assembly part		
10		* Nut M3		
4	2	* Screw M3 x 8		
6	8	* Countersunk screw	M3 x 10	
2	1422	* Carrier for gearbox,	CAT	
* included in Art 3102				

S-3100-AT-3



S-3100-EMO-1

4 Connection of hind carriage to front carriage plus installation of the differentials

8.1 Rear axle differential

Note: For reasons of a better overview, the lateral fittings of the hind carriage you previously have mounted are not included with the illustration.

Attention! When installing the rear-axle differential 1553 please make sure that the sense of rotation will match the one of the front-axle differential. If necessary rotate the rear-axle differential through 180° (upside down).

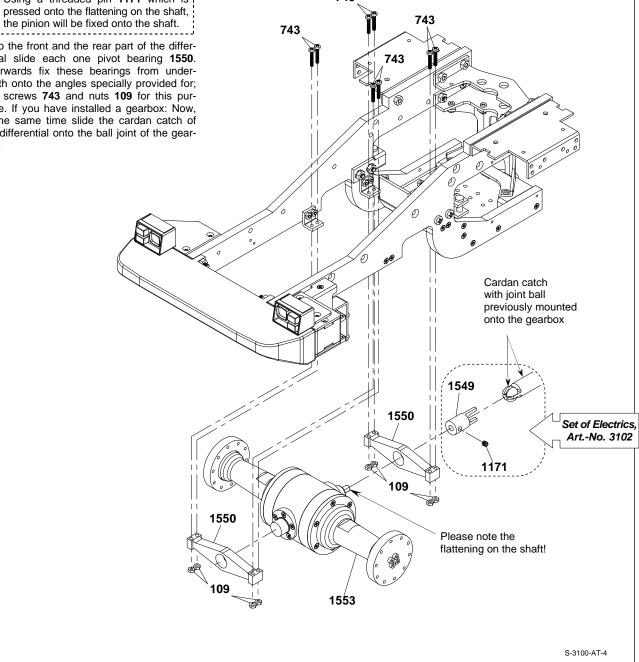
→ When installing the Set of Electrics, Art.-No. 3102: Once you have slid a pivot bearing 1550 onto the front part of the differential, pin one cardan catch 1549 onto the end of the drive shaft. Using a threaded pin 1171 which is pressed onto the flattening on the shaft,

Onto the front and the rear part of the differential slide each one pivot bearing 1550. Afterwards fix these bearings from underneath onto the angles specially provided for; use screws 743 and nuts 109 for this purpose. If you have installed a gearbox: Now, at the same time slide the cardan catch of the differential onto the ball joint of the gearbox.

Assembly step 8.1

	recomment of the				
Qty.	No.	Assembly part			
8		Nut M2			
8	743	Screw M2 x 12			
1	1171	* Threaded pin M3 x 3			
1	1549	* Cardan catch with hole, rear			
2	1550	Pivot bearing			
1	1553	Rear axle differential, CAT			

* included in Art. 3102



8.2 Turning knuckle Into the hole on the upper plate of the front carriage press from both sides each one bearing socket 1523. Use one joint bolt 1494 and one retaining washer 1566 to fix this unit 1494 M 1:1 Assembly step 8.2 at the top between the crossmembers of the Qty. No. Assembly part hind carriage. **1494** Joint bolt Ø6 x 20.8 M 1:1 1522 From top press a further bearing socket 1523 **1522** Joint bolt Ø6 x 15.1 into the floor of the hind carriage. In order to 1566 Retaining washer 5 connect the floor plate of the hind carriage with the floor of the front carriage use the joint bolt 1522 and one retaining washer 1566. Axle of turning knuckle

3100-es11.DOC / CAT

8.3 Front axle differential

Note: For reasons of a better overview, the complete hind carriage is not included with the illustration.

→ When installing the Set of Electrics, Art.-No. 3102: Put that cardan catch with hole 1166 onto the gear shaft of the front-axle differential 1554. Using a threaded pin 1171 which is pressed onto the flattening on the shaft, the pinion will be fixed onto the shaft.

As shown in the illustration, press the joint ball 1165 onto the cardan catch on the differential, and afterwards turn the ball laterally by 90 degrees. From top, now set the cardan catch with inner hex head 1167 into place. Similarly equip the cardan catch on the gearbox by one joint ball 1165 and one cardan catch with inner hexagon socket 1167.

Important! The joint ball centre on the gearbox has to lay along the same line with the axle of the turning knuckle. Adjust the cardan catch on the gearbox accordingly!

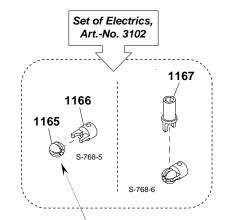
Insert the drive shaft **1551** into the cardan catches of the gearbox and the differential.

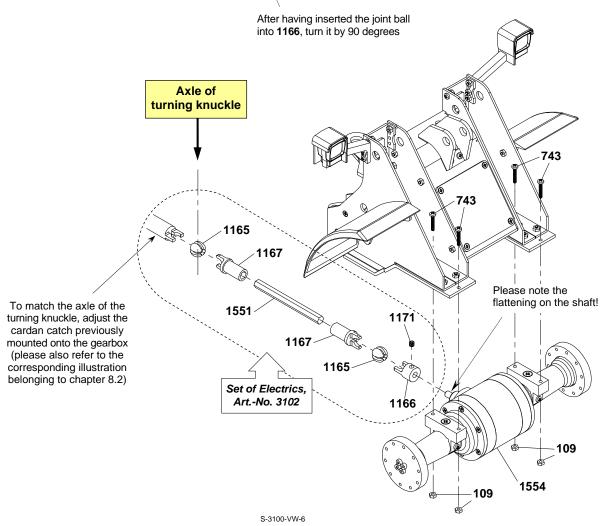
Mount the differential with screws **743** and nuts **109** underneath the front carriage.

Assembly step 8.3

	-	•
Qty.	No.	Assembly part
4	109	Nut M2
4		Screw M2 x 12
2	1165	* Joint ball
1	1166	* Cardan catch with hole
2	1167	* Cardan catch with inner
		hexagon
1		* Threaded pin M3 x 3
1	1551	* Drive shaft 58mm, CAT
1	1554	Front axle differential CAT

* included in Art. 3102





4 Installation of the hydraulic cylinder

9.1 Installing both cylinder types, for lifting and for tilting purposes

Note: For reasons of a better overview, the complete hind carriage is not included with the drawing. The illustration shows the installation of the right-hand lifting cylinder only. Add the left-hand lifting cylinder by similar way.

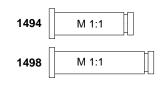
→ When installing the Set of Hydraulics,

Art.-No. 3101: Please consider that the connections and embeddings of the hoses belonging to the Hydraulics have to be executed in parallel to the attachment of the cylinders and the components of the Set of Hydraulics (see chapter 10, too). Before you continue the assembly, it is necessary carefully to read the instructions of the Hydraulic Set.

There are openings in the central unit and in the carriers for the side plates of the front carriage as well as in the front plate of the hind carriage; these openings serve exactly to lead the hoses through. Prior to the installation of the cylinders, remove the existing short hoses fixed between the nipples. Of those hoses supplied with this kit, cut fitting pieces to length and use them ! to connect the nipples of the cylinder pairs. The nipples of the steering cylinders (chapter 9.2) need to be connected crosswise! The hose connections will be cut through once you have finished : the installation of the cylinders. Cut then the hose pieces to length and insert a T-piece. Don't forget to add the retaining bushings! Mount the connecting hoses to the rear towards the control valve block; for this purpose, please consider enough length for embedding - the kit includes sufficient hose material.

With each one joint bolt **1498** and one retaining washer **1566** fix the lifting cylinders **1555** at the bottom between the side plates of the four-plate loader tower.

Attach the tilting cylinder **1556** with one joint ball **1494** and one retaining washer **1566** onto the support therefore provided; add on each side one washer **141** between support and tilting cylinder.



141 Washer 6.1 x 12 x 2 (PA)

1494 Joint bolt ∅6 x 20.8

1498 Joint bolt ∅6 x 26.2

1566 Retaining washer 5

1556 Tilting cylinder

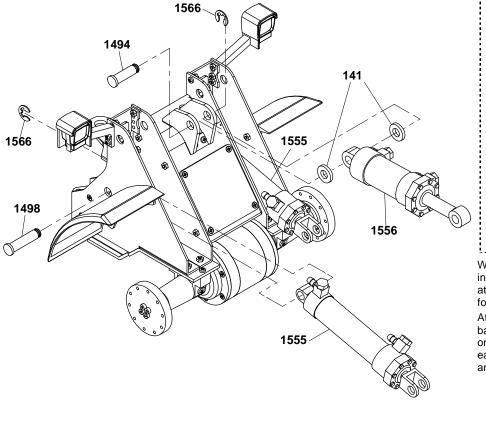
1555 Lifting cylinder, -rh-/-lh-

Assembly step 9.1

S-3100-VW-7

2

Qty. No. Assembly part



3100-es12.DOC / CAT Page **12**

9.2 Installation of the steering cylinder

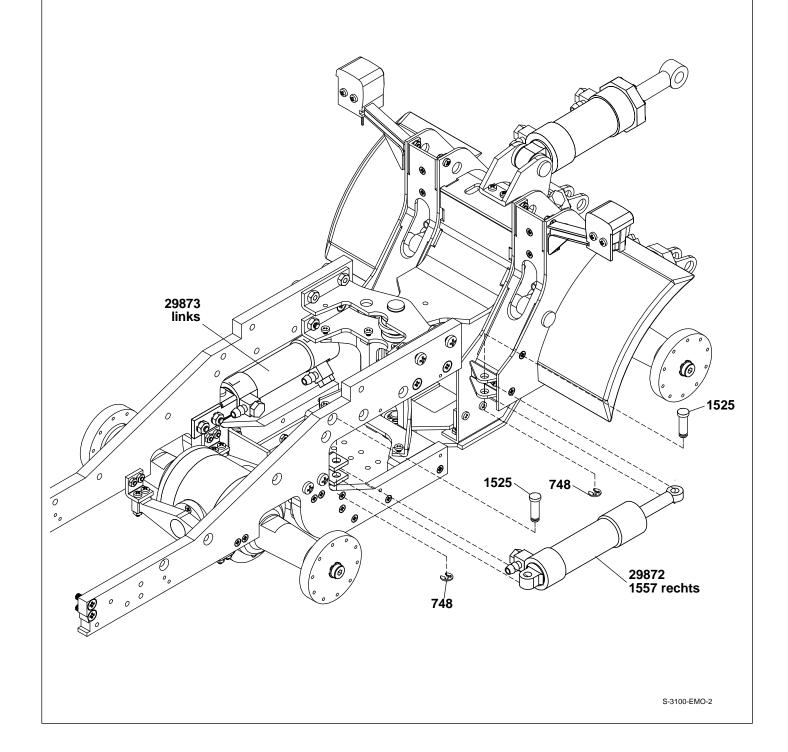
Note: In order to get a better overview, the lateral fittings of the hind carriage are not included with the drawing. The illustration shows the installation of the right-hand side steering cylinder only; fix the steering cylinder for the left-hand side similarly.

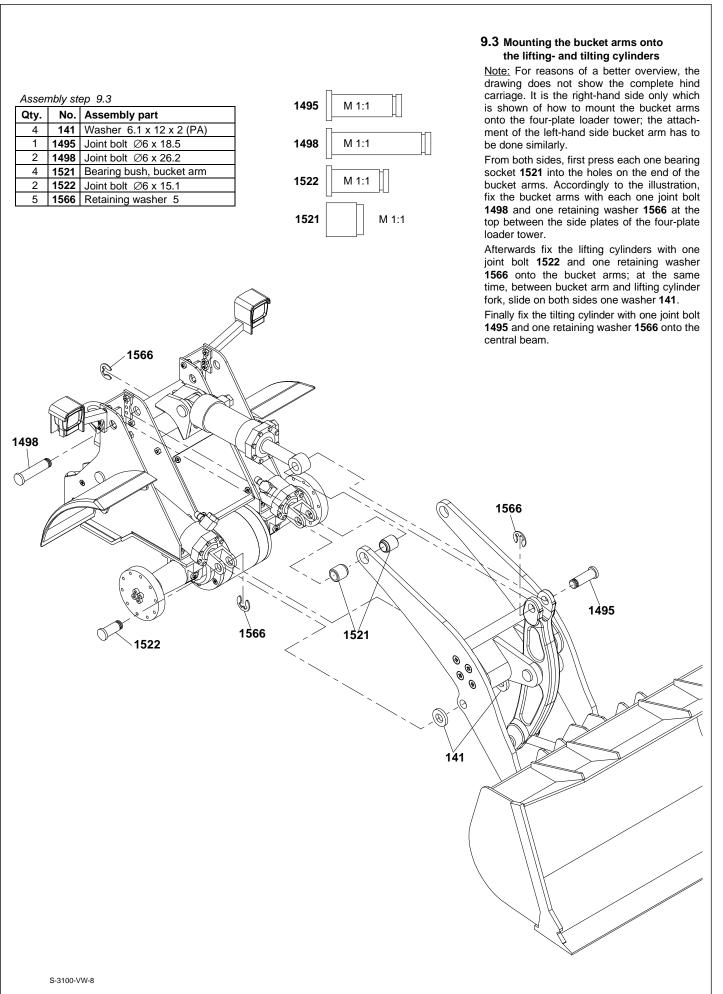
Press the joint bolt 1525 (added previously to the right-hand side support on the hind carriage) topwards; to this bolt add the steering cylinder 1557 with one retaining washer 748. Also, using joint bolt 1525 and retaining washer 748 attach the sliding rod of the steering cylinder to the right-hand side support of the front carriage. Assembly step 9.2

	M 1:1	
ш		

1525

Qty.	No.	Assembly part	
2	115	* Screw M2 x 8	
4	748	Retaining washer 2.3	
		Joint bolt Ø4 x 12.7	
2	1557	Steering cylinder	





3100-es13.DOC / CAT

10 Mounting the components belonging to the Set of Hydraulics, Art.-Nr. 3101

10.1 Preparation of the servos provided for the operation of the hydraulic cylinders

→ When installing the Set of Hydraulics, Art.-No. 3101:

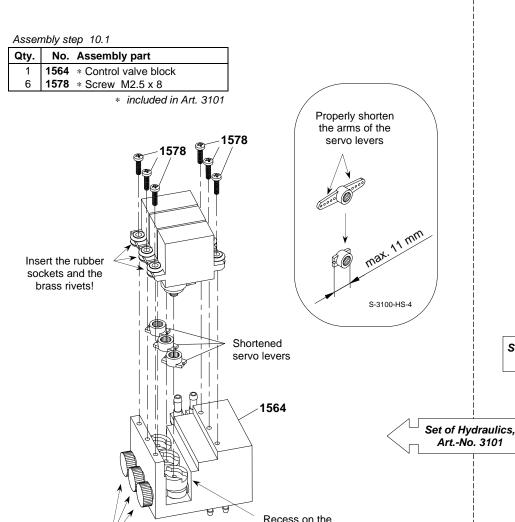
Attention! The three eccenters of the valve control block **1564** are supplied as adjusted to "Zero" and fixed with knurled screws. Make sure not to misadjust these knurled screws!

Carefully shorten the arms of the servo levers (supplied with the servos). Clean the cut edges. Then insert the shortened servo levers into the recesses on the control eccenters.

Connect the servos to the receiver of your RC equipment, and start your transmitter up. Now set the precise adjustment of your RC unit to "zero"; the servos get automatically adjusted to "zero", too.

Now insert the rubber sockets and brass rivets (supplied with the servos) into the fixing holes therefore provided on the proper servos. Afterwards set the servos into the servo levers, and fix the units onto the control valve block with screws 1578.

Finally remove the knurled screws from the valve control block, <u>but keep the screws!</u>



control eccenter

S-3100-HS-5

1457 Set of Hydraulics, Art.-No. 3101 1563

10.2 Attachment of the hydraulic pump and the valve control block

→ When installing the Set of Hydraulics, Art.-No. 3101:

Following the illustration, mount the fixing angle **1459** onto the mounting plate **1457**; for this purpose use screw **2**, countersunk screw **355**, serrated washers **15** and nuts M3. Fix the hydraulic pump **1563** with screws **1** underneath the mounting plate.

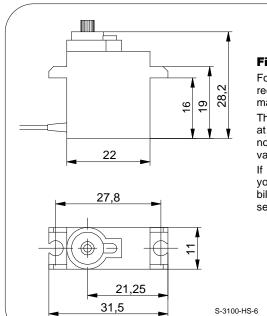
Those hoses from the cylinders you previously have mounted inside the wheel-loader, now connect them to the nipples on the control valve block. Before you start cutting the hoses to length, please take into consideration that for maintenance purpose the mounting plate -along with the components belonging to the hydraulic set fixed hereto- will need to be drawn out of the hind carriage.

Use screws 1 to attach the valve control block along with the servos onto the fixing angle. Afterwards mount those hose connections still missing between the components of the hydraulic set.

Assembly step 10.2

		•
Qty.	No.	Assembly part
2		* Nut M3
4	1	* Screw M3 x 6
1	2	* Screw M3 x 8
2	7	* Countersunk screw M3 x 6
2	15	* Serrated washer 3.2
1	355	* Countersunk screw M3 x 8
(1)	1457	Mounting plate for
		hydraulics/electrics
1	1459	* Fixing angle, valve block
1	1563	* Hydraulic pump 12V

* included in Art. 3101



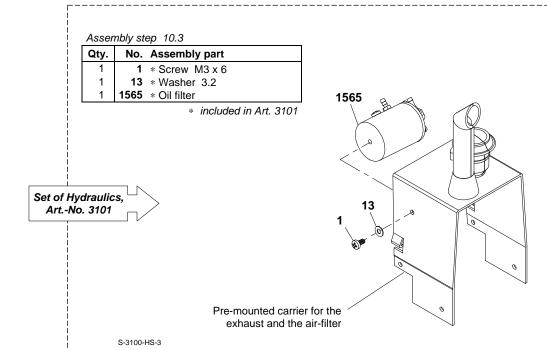
Fitting types of servos

Do <u>not misadjust</u> the knurled screws!

For the operation of the hydraulics, we recommend the servo S 3107 NANO made my the manufacturer robbe.

The measurements of this servo are shown at original size in the illustration. Important note: Only this size of servo will fit the valve control block.

If you intend using any other servo type, you either will have to check the compatibility (functions and accurate fit) by yourself, or to ask your dealer for advice.



10.3 Attachment of the oil filter

→ When installing the Set of Hydraulics, Art.-No. 3101: Attach the oil filter 1565 with screw 1 and washer 13 onto the inner side of the carrier provided for the exhaust and the air-filter.

NOTE: Prior to the installation of the single components belonging to the Set of Electrics, we recommend to fill the hydraulic system with oil, and (using either your RC equipment, or a servo tester) afterwards to check all functions of the cylinders; they probably will have to be re-adjusted. For this purpose provisionally fix both items the carrier provided for the exhaust and the airfilter as well as the mounting plate- onto the hind carriage.

10 Mounting the components of the Set of Electrics. Art.-Nr. 3102

→ When installing the Set of Electrics, Art.-No. 3102:

Onto the fixing angle 1460 attach the following components belonging to the electrical system: the charging socket, the switch panel and the On/Off switch for the Hydraulics. Mount the fixing angle with screws 1413 onto the mounting plate for the Hydraulics/ Electrics.

Add the voltage regulator using screw 2, insulating socket, insulating strip and nut M3 as shown in the illustration. Fix the PCB support 723 with two adhesive pads 655.

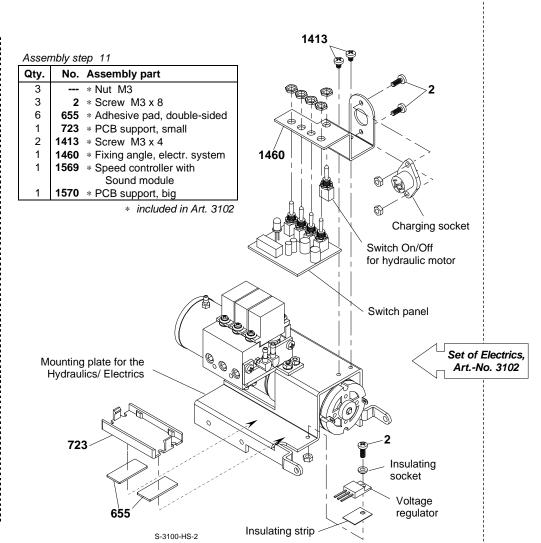
NOTE: The two drawings below are showing those components which have to be attached on one hand underneath the carrier for the exhaust and the airfilter, and on the other hand onto the mounting plate for the Hydraulics/ Electrics.

Use two adhesive pads 655 to fix the PCB support 1570 to the right-hand side of the inner wall of the carrier provided for the exhaust and the air-filter. The control board for steering (without special PCB support) has to be placed below.

With two adhesive pads 655 add the receiver of your RC equipment onto the mounting plate for Hydraulics/Electrics.

Set the speed controller 1569 in angled position onto the left-hand inner wall of the carrier provided for the exhaust and the air-filter. At this place the speed controller becomes fixed in clamping position between the carrier and the hydraulic pump.

11



View from the rear of the left-hand side View from the rear of the right-hand side Carrier for the exhaust and the air-filter Receiver of the RC equipment (not included with the kit) **(** Support 1570 for 1569 central board Mounting plate for Support 723 for Hydraulics/Electrics rear lighting board S-3100-FA-1 S-3100-FA-2

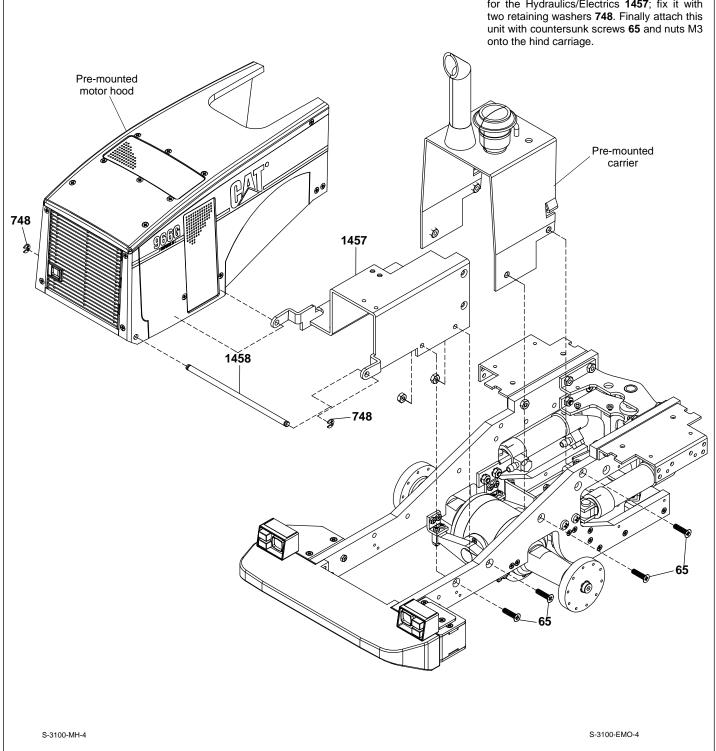
Completion of the hind carriage

12.1 Mounting the motor hood

NOTE: In order to get a better overview, the lateral fittings of the hind carriage as well as the complete front carriage are not shown in this drawing. The attachment with screws is shown for the right-hand side only; similarly attach the parts on the left-hand side.

First attach the pre-mounted carrier (assembly step 2.1) onto the hind carriage; for this purpose use countersunk screws 65 and nuts M3.

Slide the hinge shaft 1458 through the lateral holes on the pre-mounted motor hood, as well as through the mounting plate provided for the Hydraulics/Electrics 1457; fix it with



Assembly step 12.1

Qty. No. Assembly part

65 Countersunk screw M3 x 12

hydraulics/electrics

748 Retaining washer 2.3

1457 Mounting plate for

1458 Hinge shaft for hood

4 **20040** Nut M3

Wheel-loader CATERPILLAR 966G Series II

12.2 Battery box

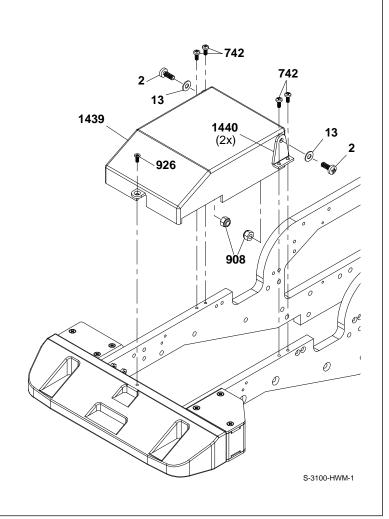
NOTE: In order to get a better overview, the illustration shows both lateral frames, and the bumper along with the attached boxes only, but not all of those premounted components belonging to the hind carriage.

The battery box is tiltable and has to be attached underneath the hind carriage. Both supports **1440** will have to be fixed onto the sides of the battery box **1439**; for this purpose use each one screw **2**, washer **13** and stop nut **908**. Do not tighten the stop nuts: the battery box needs a certain play between both supports.

Fix the supports on the battery box to the frames using screws **742**, while the bracket of the battery box has to be fixed to the bumper with countersunk screw **926**.

Assembly step 12.2

Assembly step 12.2			
Qty.	No.	Assembly part	
2	2	Screw M3 x 8	
2	13	Washer 3.2	
4	742	Screw M2 x 5	
2	908	Stop nut M3	
1	926	Countersunk screw M2 x 5	
1	1439	Battery box	
2	1440	Support for battery box	



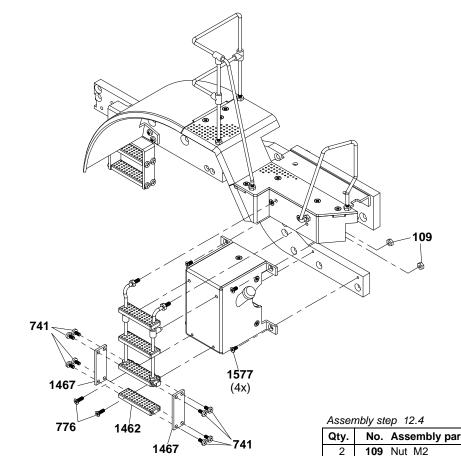
12.3 Mounting the handrail onto the right-hand side

Note: For reasons of a better overview, of those components already premounted the illustration includes the stepboard and the fender only.

Once you have slid one T-piece 1473 onto the right-hand railing frame 1478 (see drawing), add each one nut 109 onto the thread end of the railing frame, the railing post 1475 as well as onto the handrail 1474. Again: Turn the nuts for several times up and down until they become easy to add.

Use each one further nut **109** to fix the three parts onto the stepboard. Now tighten the nuts! As shown in the illustration, finally slide two T-pieces onto the railing post, insert the centre frame **1477**; use glue to fix all components properly.

Asser		ep 12.3	
Qty.	No.	Assembly part	
6		Nut M2	1478
3		T-piece, open	
1	1474	Handrail, rear	
1	1475	Railing post	***
1		Centre frame	1473
1	1478	Railing frame, -rh-	
			1475
			109
		,	
			109
		S-3100-HWR-2	



S-3100-HWR-6

12.4 Attachment of the tank housing and the ladder onto the right-hand side

Note: For reasons of a better overview, of those components for the hind carriage you already have premounted, the drawing shows the following items only: the right-hand frame and the carrier for cab and entrance along with the attached parts.

Start by fixing the pre-mounted tank housing with countersunk screws **1577** onto the right-hand frame side.

Insert the upper thread ends of the ladder into the upper holes of the protection plate on the hind carriage which are provided therefore; then insert the T-pieces into the upper holes on the tank housing. Now, that ladder step equipped with the fixing links has to be fixed onto the lower holes on the tank housing; use countersunk screws 776 for this purpose. With each one further nut 109 fix the ladder from the inside onto the protection plate. Should one of these parts remain loosely, please use a bit of glue to fix it properly.

As shown in the illustration, fix both side plates 1467 and the step 1462 (with lateral holes) with screws 741 onto the bottom of the ladder unit.

 Qty.
 No.
 Assembly part

 2
 109
 Nut M2

 8
 741
 Screw M2 x 4

 2
 776
 Countersunk screw M2 x 6

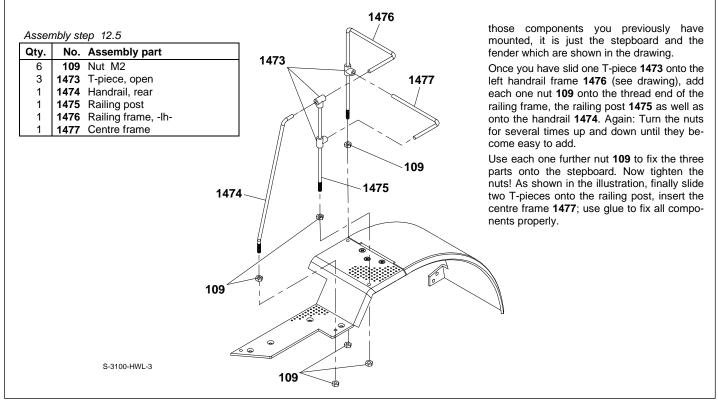
 1
 1462
 Step with lateral holes

 2
 1467
 Side metal sheet for steps

 4
 1577
 Countersunk screw M2 x 4

12.5 Mounting the handrail onto the left-hand side

Note: For reasons of a better overview, of



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12.6 Fixing the ladder onto the left-hand side

Note: For reasons of a better overview, of those components for the hind carriage you already have premounted, the drawing shows the following items only: the left-hand frame and the carrier for cab and entrance along with the attached parts.

Insert the upper thread ends of the ladder into the upper holes therefore provided, and the upper T-pieces into the corresponding lower holes on the protection plate. Press the lower T-pieces onto the ends of the supporting ladder. With each one further nut 109 fix the ladder from the inside onto the protection plate. Should one of these parts remain loosely, please use a bit of glue to fix it properly.

As shown in the illustration, fix both side plates 1467 and the step 1462 (with lateral holes) with screws 741 onto the bottom of the ladder unit.

Asser	nblv ste	step 12.6	
Qty.		. Assembly part	
2		Nut M2	
8		Screw M2 x 4	
1	1462	2 Step with lateral holes	A CONTRACTOR OF THE CONTRACTOR
2	1467	7 Side metal sheet for steps	
		741	741 1467 1462 1467 S-3100-HWL-4

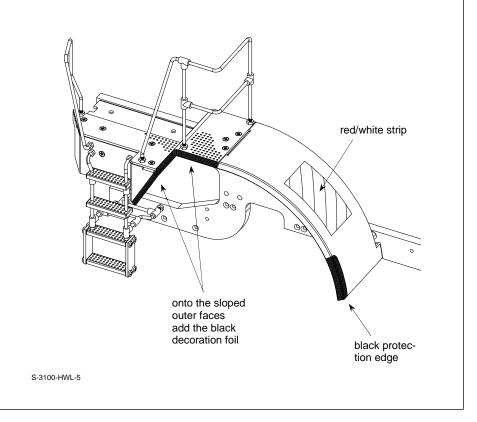
12.7 Application of the decals

Note: For reasons of a better overview, of those components for the hind carriage you already have premounted, the drawing includes the following items only: the left-hand frame and the carrier for cab and entrance along with the attached parts.

Add black stripes to the sloped outer faces on the step plate and the protection plate. The sufficient width of the stripes allow to draw it inwards by approx. 2mm to 3 mm over the side edge of the panels.

Similarly equip the rear fender at the outside bottom with a black protection edge. Accordingly to the drawing add a fitting red/white stripe, cut to size (approx. 57mm of length).

In the same sense, add the decals to the right-hand wheel-loader side which is not included with the drawing.



Qty. No. Assembly part **1172** Allen wrench 1.5 8 1558 Rim, CAT Note! 1559 Bushing for rim As soon as you have completed the assembly, (1560) Rim adapter CAT (already (4) mounted to the diffs) on those screw connections 1561 Tyre "Goodyear" marked by "L" add a bit of (16) (1567) Allen screw M2 x 8 (already clear varnish (e. e. nail varnish) mounted to the diffs) to the screw heads in order to **1568** Allen screw M2 x 10 secure them firmly.

Assembly step 13

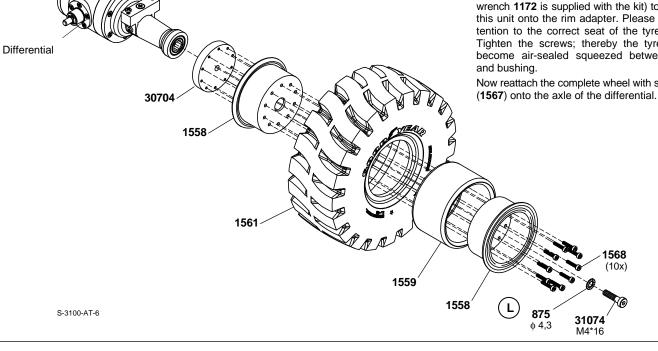
13 Mounting the wheels

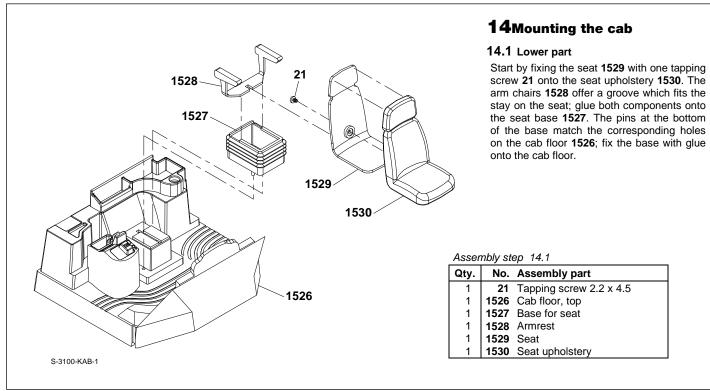
For reasons of security (the ball bearing sitting behind is not fixed), we supply the rim adapters (1560) already fixed to the differentials. First, dismount each of these rim adapters.

NOTE: Both tyre depths are not exactly symmetrical (difference of approx. 2 mm). During the mounting, please make sure that the outwards facing tyre sides are identical.

In order to start the wheel assembly, slide one bushing 1559 into the tyre; position it that way that both tyre walls will sit exactly centrally on the bushing. Afterwards press each one rim 1558 into both tyre sides. Now, both tyre walls lay between rim and bushing. Use ten screws 1568 (appropriate Allen wrench 1172 is supplied with the kit) to mount this unit onto the rim adapter. Please pay attention to the correct seat of the tyre walls. Tighten the screws; thereby the tyre walls become air-sealed squeezed between rim

Now reattach the complete wheel with screws





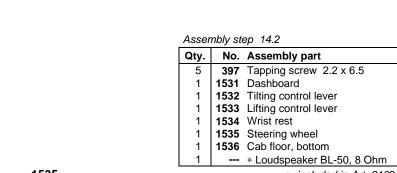
14.2 Operator controls

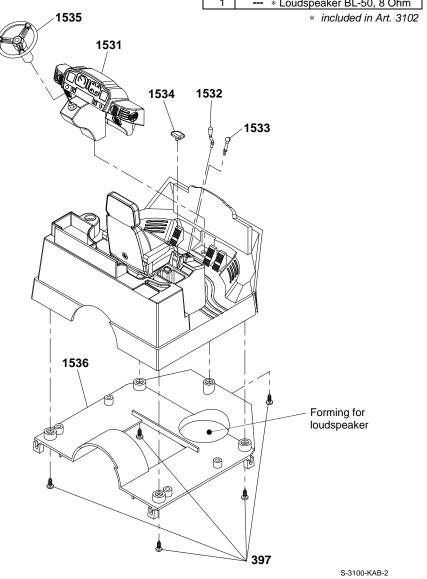
The steering rod belonging to the steering wheel 1535 offers a groove which fits a corresponding stay on the centre part of the dashboard 1531. This serves for the exact positioning of both parts.

Now glue the following parts together: the steering wheel onto the dashboard, the dashboard itself onto the fore vertical flattering on the cab floor, then the tilting control lever 1532, the lifting control lever 1533, and the wrist rest 1534 onto the control lever console on the right-hand side of the seat.

→ When installing the Set of Electrics, Art.-No. 3102: Both, the upper and lower cab floor parts include a forming ! which serves to catch the loudspeaker.

Finally, with tapping screws 397 fix the lower cab floor 1536 underneath the upper cab floor.



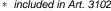


Wheel-loader CATERPILLAR 966G Series II

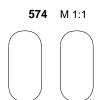
Assembly step 14.3

Qty.	No. Assembly part		
2	10	Self-cutting screw M3 x 6	
2	13	Washer 3.2	
4	479	Tapping screw 2.2 x 9.5	
2 2 4 2 2	574	Mirror foil	
2	741	Screw M2 x 4	
1	1537	Glass cab	
1	1538	Metal cab	
1	1539	Rear mirror, -rh-	
1	1540	Rear mirror, -lh-	
1	1541	Lamp support, cab, -rh-	
1	1542	Lamp support, cab, -lh-	
2	1543	Lamp frame, cab	
2 2	1544	Cable cover, lamp support/cab	
2	1545	Lens, cab	
1	1546	Roof, cab	
2	1562	* Bulb 5V	
·		* included in Art. 3102	

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14.3 Cab unit with lamps, mirrors and roof

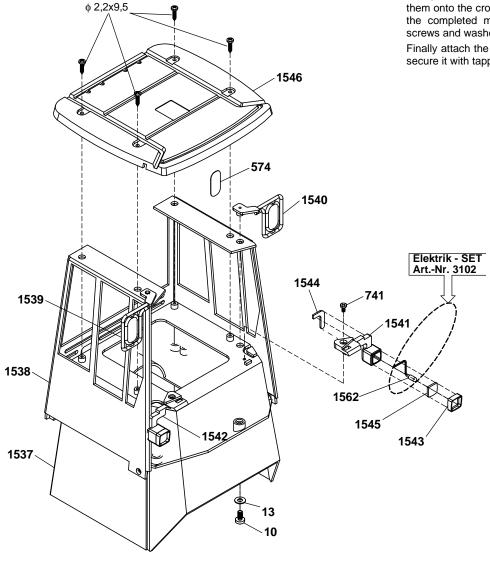
→ When installing the Set of Electrics, Art.-No. 3102: First insert the bulbs 1562 into the lamp supports 1562. The lamp supports include a cable channel, and the operator cab offers special grooves provided for the bulb wires to be led through to the circuit board. Please be careful not to squeeze the bulb wires as this may cause a short circuit.

From the rear, insert one lamp lens 1545 into the lamp frame 1543; fix both parts with glue onto the right-hand lamp support 1541. Use one cover 1544 to close the cable channel and fix the cover with a bit of glue. Set the lamp support correctly onto the glass cab 1537 and fix it with one screw 741.

Now, use the same parts similarly to mount the left-hand lamp support 1542.

Slide the metal cab 1538 over the glass cab. Before you start adding the rear mirrors 1539 and 1540, with self-cutting screws 10 carefully cut the necessary threads into the holes. Then, cut the mirror foils 574 to size and glue them onto the crowned side of the mirrors; fix the completed mirrors with the self-cutting screws and washers 13 onto the cab.

Finally attach the roof 1546 onto the cab and secure it with tapping screws 397.



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14.4 Attachment of the cab to pre-mounted cab floor Use countersunk screws **907** and nuts **109** to fix the complete cab onto the pre-mounted cab floor. 907 Pre-mounted cab 907

Pre-mounted cab floor

S-3100-KAB-4

Asser	nhlv st	ep 14.4		
Qty.		Assembly part		109
4	109	Nut M2		1
4	907	Countersunk scre	w M2 x 8	

Assembly step 14.5 Qty. No. Assembly part 4 479 Tapping screw 2.2 x 9.5 or Ø2,2 x 12	14.5 Attachment of the cab to the hind carriage First glue the Caterpillar logo to each of the front and rear roof sides. On the carriers between the step boards, the complete cab unit will be positioned. The seat is correct as soon as the unit is no longer moveable. From underneath, fix the cab with tapping screws 479.
To the front and to the rear side of the roof add each the Caterpillar logo	
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