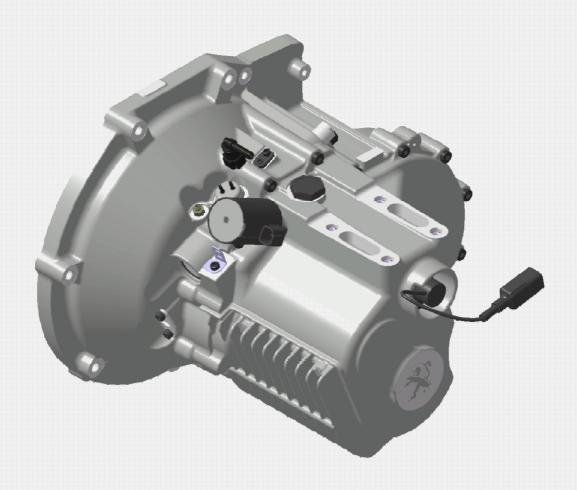


## PEUGEOT 208 R2

# Gearbox - STR2PSA30133 / STR2PSA30233

## **TECHNICAL SPECIFICATIONS**



### For more details, please contact:

Plant adress:

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# PEUGEOT 208 R2 STR2 Gearbox 1- Glossary



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## PEUGEOT 208 R2 STR2 Gearbox 2- Main features



## 1 - GENERAL DETAILS

The sequential gearbox **SADEV STR2** is composed of 5 front speeds plus a reverse one. Weight of the equipped gearbox is 36 kg.

It is equipped of self locking differential composed by friction discs and ramp press plates.

Command of the clutch is hydraulic and integrated to the gearbox.

Gearing potentiometer is furnished with the gearbox. Reverse gear locking is electric (there is no reverse gear locking cable).

## 2 - RATIO CHART

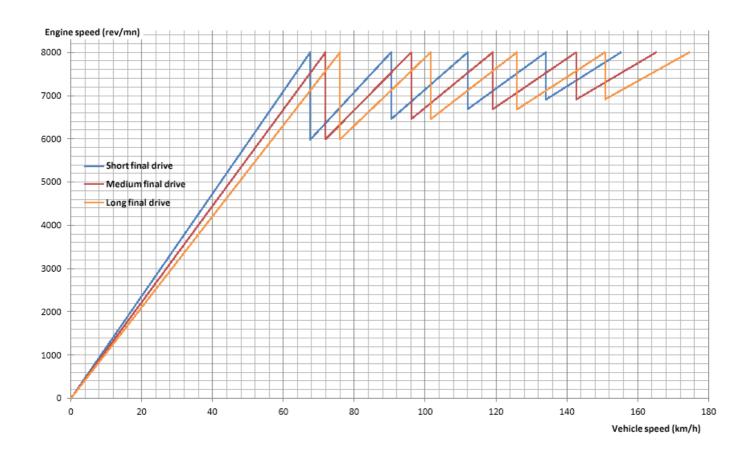
Ratio chart is homologated by Peugeot Sport.

	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>
Primary shaft	13	16	17	19	22
Secondary shaft	38	35	30	28	28

Reverse gear		
Primary shaft	13	
ldler	19	
Secondary shaft	35	

	Final drive				
	Medium final drive (First fit)Short final drive (option)Long final drive (option)				
Part number	CPL13549050031	CPL12539050031	CPL14559050011		
Secondary shaft	13	12	14		
Final drive	54	53	55		
Bolts	(x8) Bolts CHC M10x20 pas 125				





### 3 - DIFFERENTIAL SET-UP

The differential is a self locking differential with 6 friction discs and ramp plates working asymmetrically at driving and at braking.

Preload is realized by helical springs.

	Ramp plates						
Part number	F9050320	F9050321	F9050322	F9050423	F9050324		
Version	1 (First fit)	2	3	4	5		
Driving ramp angle	35°	30°	30°	45°	45°		
Braking ramp angle	65°	65°	85°	65°	90°		

The gearbox is delivered with a preload adjusted to 13.5 DaN.m for a working preload (after running in and hot) of 10 DaN.m.



NB .Running-in of the differential (50 kilometres) will decrease the preload to about 15%

**NB**. Preload measured under cold conditions (workshop) is about 15 % higher than the one measured under hot conditions.

NB. If the measure of the preload in less than 8 DaN.m, a check-up of the differential is required

## PEUGEOT 208 R2 STR2 Gearbox 2- Main features



## 4- LUBRICATION

Quantity: 1,3 Litre

Recommended oil: TOTAL H50168B

1 <sup>st</sup> oil change	Oil change frequency	Quality Viscosity
After the first 50km	After every races	Type 75w90

To change oil gearbox:

Remove magnet oil drain plug (B) and clean it.



### **SPECIAL PRECAUTIONS**

No additives should be added to the oil. The resulted consequences are not in any circumstances covered by the SADEV supplier.

When topping up the gearbox oil, do not mix any other oil with that already into the gearbox.

All opened bottles must be closed after use to prevent the introduction of water or dirt.

### **WASHING UNDER PRESSURE**

When the gearbox is removed, seal all openings correctly to prevent the introduction of water into the gearbox.

## PEUGEOT 208 R2 STR2 Gearbox 2- Main features



### 5 - GEARING POTENTIOMETER

The potentiometer is adjusted in our company :  $1V \pm 0.01 \ V$  on neutral. This value can be checked on the dashboard

## 6 - GEAR SHIFTING

Shifting is manual.

**GRID: R-N-1-2-3-4-5** 

TRAVEL OF SELECTRO AXLE : de la MAR à la 5ème : +/- 18mm

## 7- SPARE PARTS

Some parts can be purchased and assembled separately:

Part number	Description
F0089056	Gearing potentiometer
F90504361	Reverse gear locking system
PSA225754	Shifting sensor
F90506141	Slave cylinder
F90506101	Release bearing



# 3 - SPECIAL TOOLS

Part number	Description
FOUT9050020	Special tool for unlocking reverse system
FOUT0085017	Clutch plate centring pin
(x2) F1404705	Preload tool

# PEUGEOT 208 R2 STR2 Gearbox 4- Servicing



## 1- SERVICE PLANNING

This planning is based on SADEV experience and on results of development sessions of STR 208 R2. It can be modified depending races feedback and future development sessions.

PART	ACTION	FREQUENCY
Primary shafts bearings	Change	2000 km special stage
Secondary shaft bearings	Change	2000 km special stage
Différentiel bearings	Change	2000 km special stage
Barrel bearings	Change	2000 km special stage
Reverse idle gear bearing	Change	2000 km special stage
Selector spring (selector, dual pin pusher, indexor)	Change	2000 km special stage
Forks	Check-up	1000 km special stage
FOIKS	Change if necessary	2000 km special stage
Dianet gear and hovel gear	Check-up	1000 km special stage
Planet gear and bevel gear	Change if necessary	2000 km special stage
Slave cylinder seals	Change	1000 km of special stage or if leaks
Drain plug seal	Change	Every drain
Magnet plug seal	Clean	Every drain
Final drive	Check-up	1000 km of special stage
Fillal drive	Change if necessary	2000 km of special stage
Cooks / Dog rings	Check-up	1000 km of special stage
Gears / Dog rings	Change if necessary	2000 km of special stage
Differential	Change differential spring if preload is lower than 8 m.kg	Check-up of preload by customer
	Change  Change  Change  Change  Change  Check-up  Change if necessary  Change if necessary  Change if necessary  Change if necessary  Iter seals  Change  Change if necessary  Change differential spring if preload is lower	2000 km of special stage

## 2- REBUILD KITS DETAILS

SADEV suggest 2 rebuild kits:

KIT	DESCRIPTION	FREQUENCY
KITREVSTR2PS1	Light servicing + check the primary and secondary shaft (gears and bearing) + check the selector + check the differential + change of seals	Every 1000 km of SS
KITREVSTR2PS2	Full servicing + KITREVSTRPS1 (cf above) + change the bearings (primary, secondary, differential, barrel) +change gears of final drive, dog ring (if damaged) +change bolts and screws +differential (pack core disc / friction disc / spring)	End of season or 1000 km after light servicing

# PEUGEOT 208 R2 STR2 Gearbox 4- Servicing



## Detail of the control kit: KITREVSTR2PS1

Part number	DESCRIPTION	Qty	Allocation
0206011	Ø24x36x7 Double lip seal	1	Housing
0206066	Ø42x58x10 Double lip seal	2	Housing
0201290	Ø1.5x10 O'ring	1	Housing
5002018	Drain plug seal	1	Housing
0205099	Ø20x30x5 DI O'ring	1	Housing
0599044	14.2x22x1 Copper washer	1	Housing
0601020	Ø18 Outer circlip	1	Housing
9999941	200x3.6 mm Black clamp	1	Housing
0299073	Fuel filler cap	1	Housing
0601057	AS30 Outer circlip	1	Primary line
0601057	AS30 Outer circlip	1	Secondary line
0602072	Ø88 Inner circlip	1	Differential
0301466	M10x20 thick 125 Cl12.9 Chc Bolt	8	Differential
0602010	Ø29 Inner circlip	1	Selector
0201068	Ø2.4x24.5 O'ring	1	Selector
0201017	Ø2.5x10 O'ring	1	Selector
0211013	EPDM Ø52x1.5 O'ring	1	Clutch bearing
0211012	EPDM Ø2.62x55.25 O'ring	2	Clutch bearing
0299061	EPDM 52x47.5x3 Outer seal	1	Clutch bearing
0299062	EPDM 40x44.5x3 Inner seal	1	Clutch bearing
9907052	SW32 Snap ring	1	Clutch bearing

# Detail of the complete kit: KITREVSTR2PS2

Part number	DESCRIPTION	Qty	Allocation
KITREVSTR2PS1	Overhaul ki t1	1	
0105061	K20x24x17 Needle bearing	1	Housing
9907074	BR58 Stop ring	1	Housing
0101144	60/32 Bearing	1	Housing
0101062	6205 Bearing	2	Primary line
0103002	NJ206 Bearing	1	Secondary line
0101062	6205 Bearing	1	Secondary line
0105015	K35x40x17 Needle bearing	5	Secondary line
F9050307	Circlips of differential	1	Differential
0101054	AB-12458S03 Bearing	2	Differential
0101004	6004 Bearing	2	Selector
0801027	Control spring	1	Selector
0801046	Indexing spring	1	Selector
0801026	Spring for dual pin rock	1	Selector

# PEUGEOT 208 R2 STR2 Gearbox 4- Servicing



### 3- GEARBOX SERVICING

#### Notes:

- No intervention are allowed outside SADEV workshop. Gearboxes servicing will be done only in our workshop by our employees.
- Gearboxes are delivered leaded and numbered.
- The absence of lead 'SADEV' imposes a careful attitude in the event of minor or major problem to us, and applies to complete reserve of our share if necessary. Peugeot Sport will be advise in case of non-leaded gearbox.

### Procedure of SADEV gearbox servicing:

- 1. Send the customer parts rebuilding document by email to Peugeot Sport (<u>peugeotsport-racingshop@peugeot.com</u>) and SADEV (<u>sadev@sadev-tm.com</u>)
- 2. Forward the gearbox and its rebuilding card to SADEV workshop
- 3. Approve the estimate presented by Peugeot Sport (this document is send by SADEV to Peugeot Sport)
- 4. APPROXIMATELY 2 TO 3 WEEKS OF DELIVERY TIME MUST BE CONSIDERED, IN GENERAL

We must receive the complete product as described below:

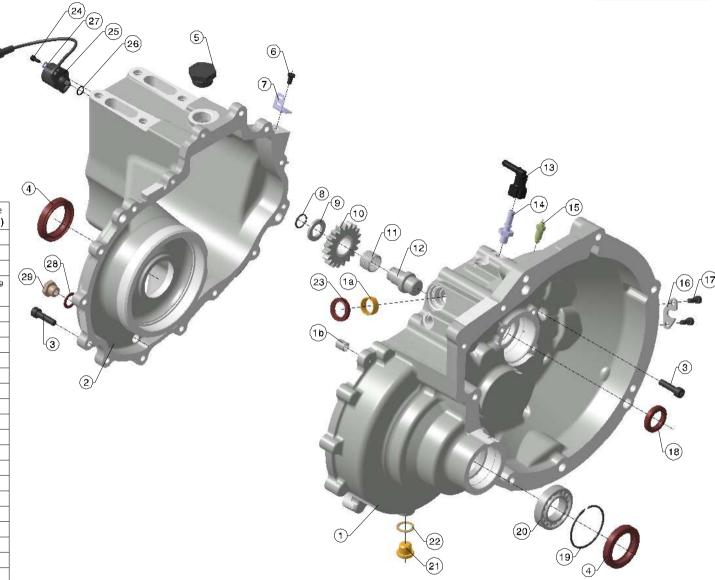
- Slave cylinder and release bearing in place
- Gearing potentiometer, shifting sensor and reverse gear locking system in place
- Gearbox drained and cleaned
- Drain plug and its seal in place
- A rebuilding card specifying the kilometres of the special stage and connection since the last service

The absence of element and the ask for spare parts or not must be specified on the rebuilding card. In case of lack of information or doubt, the gearbox will be send back reequipped with billing.

As every mechanical part which is dedicated for racing, there is not warranty at all from our side.

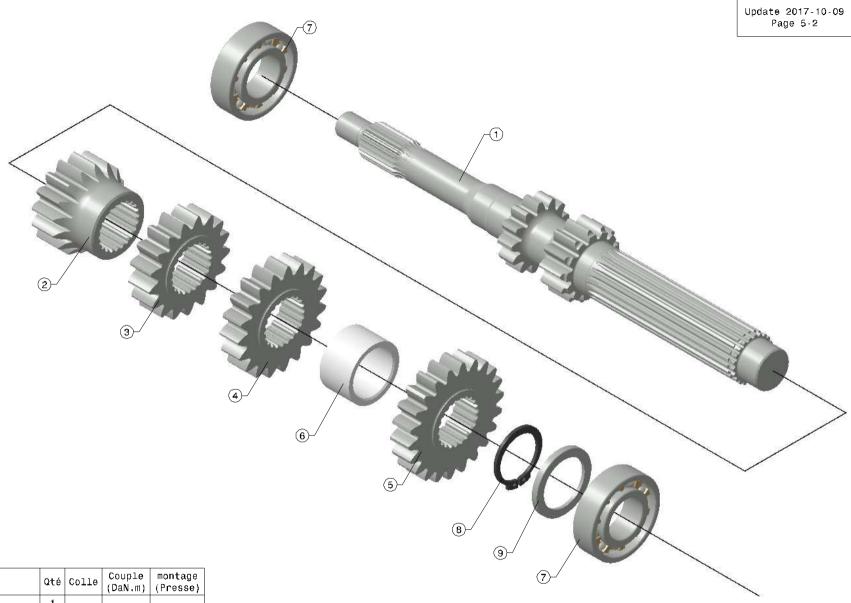
#### 1- Housing

Part number   Description   Qty   Give   (Date   F14080011   Clutch housing assembly   1   1202028   a   PAP2010P10 Bushing   1   648   F0077229   b   Center pin Ø12x15   2   2   2   F14080031   Main housing assembly   1   Cassette hot depending the vers   3   0301532   M8x25   Cl12.9   ZN   Chc   bolt   15   222   2   2   4   0206066   DL   42x58x10   Viton   lip   seal   2   5   9999999   Fuel   filler   cap   1     6   0308048   M6x8   ZN   Bhc   bolt   1   7   F9050003   Support   cable   shifter   1   8   0601020   Ø18   Outer   circlip   1   9   F9019509   reverse   bushing   1   1   1   1   1   1   1   1   1	
No.   Part number   Description   Qty   Give   (Date   F14080011   Clutch housing assembly   1   1   1   1   1   1   1   1   1	
1 1202028 a PAP2010P10 Bushing	^que .N.m)
F0077229 b Center pin Ø12x15 2  F14080031 Main housing assembly 1 Cassette he depending the vers 3 0301532 M8x25 Cl12.9 ZN Chc bolt 15 222 2 4 0206066 DL 42x58x10 Viton lip seal 2 5 9999999 Fuel filler cap 1 6 0308048 M6x8 ZN Bhc bolt 1 7 F9050003 Support cable shifter 1 8 0601020 Ø18 Outer circlip 1 9 F9019509 reverse bushing 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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4       0206066       DL 42x58x10 Viton lip seal       2         5       9999999       Fuel filler cap       1         6       0308048       M6x8 ZN Bhc bolt       1         7       F9050003       Support cable shifter       1         8       0601020       Ø18 Outer circlip       1         9       F9019509       reverse bushing       1         10       F9050004       Reverse gear evo       1         11       0105061       Bearing K20x24x17       1         12       F9019516       Reverse gear shaft       1       648         13       9999683       Quick fitting adaptator       1       577       1         14       F9022106       Quick fitting       1       577       1         15       5010002       UNF 3/8 Bleed screw       1       1         16       F9050001       Clamp       1       1         17       0301477       M6x16 Cl12.9 ZN Chc bolt       2       222       1         18       0206011       DL 24x36x7 O'ring       1       1         19       9907074       SB58 Snap ring       1       1         20       0101144       60/32 Bearing </td <td></td>	
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12       F9019516       Reverse gear shaft       1       648         13       9999683       Quick fitting adaptator       1         14       F9022106       Quick fitting       1       577       1         15       5010002       UNF 3/8 Bleed screw       1       1         16       F9050001       Clamp       1       1         17       0301477       M6x16 Cl12.9 ZN Chc bolt       2       222       1         18       0206011       DL 24x36x7 O'ring       1       1         19       9907074       SB58 Snap ring       1       1         20       0101144       60/32 Bearing       1       648         21       F1402058       Drain plug       1       1         22       5002018       Drain plug seal       1       1	
13       9999683       Quick fitting adaptator       1         14       F9022106       Quick fitting       1       577       1         15       5010002       UNF 3/8 Bleed screw       1       1         16       F9050001       Clamp       1       1         17       0301477       M6x16 Cl12.9 ZN Chc bolt       2       222       1         18       0206011       DL 24x36x7 O'ring       1       1         19       9907074       SB58 Snap ring       1       1         20       0101144       60/32 Bearing       1       648         21       F1402058       Drain plug       1         22       5002018       Drain plug seal       1	
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17     0301477     M6x16 Cl12.9 ZN Chc bolt     2     222     1       18     0206011     DL 24x36x7 O'ring     1       19     9907074     SB58 Snap ring     1       20     0101144     60/32 Bearing     1       21     F1402058     Drain plug     1       22     5002018     Drain plug seal     1	
18     0206011     DL 24x36x7 0'ring     1       19     9907074     SB58 Snap ring     1       20     0101144     60/32 Bearing     1     648       21     F1402058     Drain plug     1       22     5002018     Drain plug seal     1	
19     9907074     SB58 Snap ring     1       20     0101144     60/32 Bearing     1     648       21     F1402058     Drain plug     1       22     5002018     Drain plug seal     1	. 5
20     0101144     60/32 Bearing     1     648       21     F1402058     Drain plug     1       22     5002018     Drain plug seal     1	
21     F1402058     Drain plug     1       22     5002018     Drain plug seal     1	
22 5002018 Drain plug seal 1	
23 0205099 DL 20x30x5 0'ring 1	
24 0301425 M4x12 Cl10.9 ZN Chc bolt 2	
25 F0089056 Potentiometer 1	
26 0201290 Ø1.5x10 O'ring 1	
27 0502023 M4 washer 2	
28 0599044 Ø14.2x22x1 Copper washer 1	
29 F0001026 Plug 1 577	





#### 2 -Primary shaft



N°	Référence	Description	Qté	Colle	Couple (DaN.m)	montage (Presse)
1	J <b>7</b> 59050M01605F	Ratio de 1st (13x38)	1			
2	I <b>7</b> 517M1635605F	Ratio 2nd (16x35)	1			х
3	C7517M1730605F	Ratio 3rd (17x30)	1			х
4	C7515M1928605F	Ratio 4th (19x28)	1			х
5	C7515M2228605F	Ratio 5th (22x28)	1			х
6	F9050101	Shim de 1st	1			
7	0101062	Bearing 6205	2	648		
8	0601057	Circlip AS30	1			
9	F9050220	Retaining washer "circlips"	1			



#### 3 -Secondary shaft

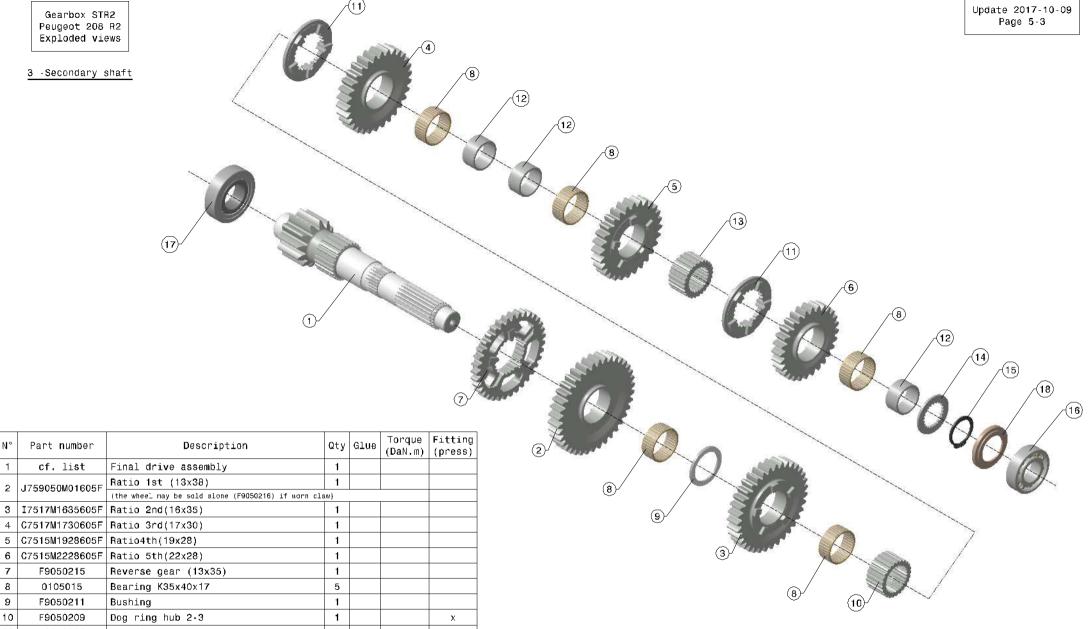
Part number

cf. list

J759050M01605F

F9050215

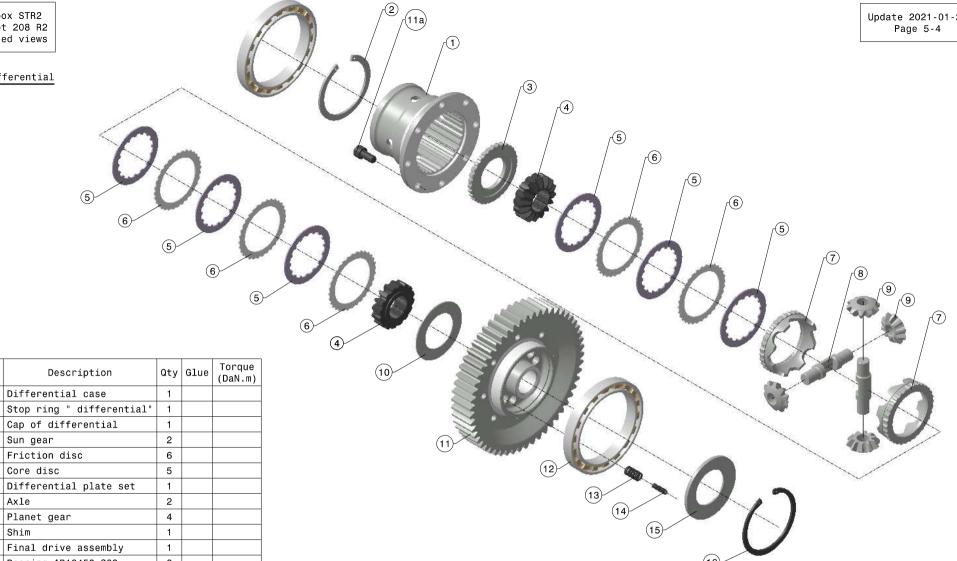
F9050211



	9						(.9)			
F9050209	Dog ring hub 2-3	1		×						
F9050201	Dog ring	2								
F9050206	Plain ring gauge	3		х	Ν°	Part number	Description	Qtyé	Glue	Torque (DaN.m)
F9050202	Dog ring hub	1		×						(Dalv.III)
F9050204	Washer	1		х	1 (standard	CPL13549050031	Final drive assembly evo 2017 (13x54)	1		
0601057	Circlip AS30	1								
0101062	Bearing 6205	1	648		1 (option)	CPL12539050031	Final drive assembly evo 2017(12x53)			
0103002	Bearing NJ206	1	648		. (,			1		
F9050221	Retaining washer "secondary circlip"	1			1 (antion)	OBI 14550050011	Final drive accombly (14vEE)			
					1 (option)	CPL14559050011	Final drive assembly (14x55)	1		

### 4 - Differential

Part number



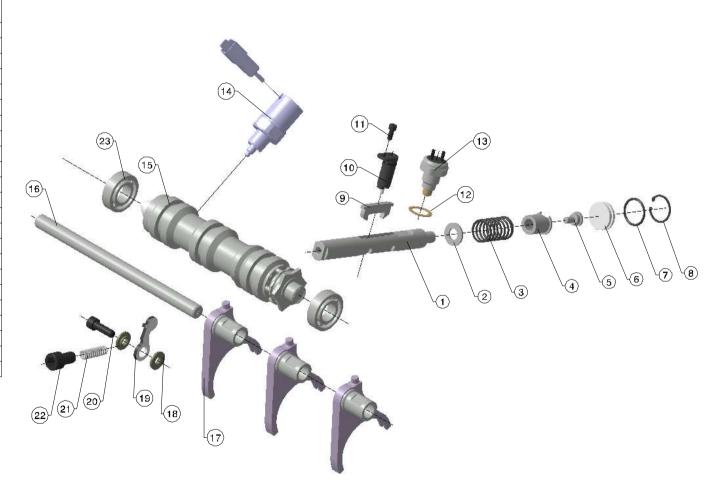
1	F9050300	Differential case	1		
2	F9050307	Stop ring " differential"	1		
3	F9050306	Cap of differential	1		
4	F9050309	Sun gear	2		
5	F1910308	Friction disc	6		
6	F1910309	Core disc	5		
7	cf. liste	Differential plate set	1		
8	F0085911	Axle	2		
9	F1401006	Planet gear	4		
10	F9050304	Shim	1		
11	cf. liste	Final drive assembly	1		
12	0101054	Bearing AB12458-S03	2		
13	0801101	Spring "big"	12		
14	0801102	Spring " small"	3		
15	F9050302	Preload plate "spring"	1		
16	0602072	J88 Inner circlip	1		
10	0002072	000 Timer CITCIIP	_ '_		

Ν°	Part number	Description	Qty	Glue	Torque (DaN.m)
7 (standard)	F9050320	Differential plate set 35/65	1		
7 (option)	F9050321	Differential plate set 30/65	1		
7 (option)	F9050322	Differential plate set 30/85	1		
7 (option)	F9050323	Differential plate set 45/65	1		
7 (option)	F9050324	Differential plate set 45/90	1		

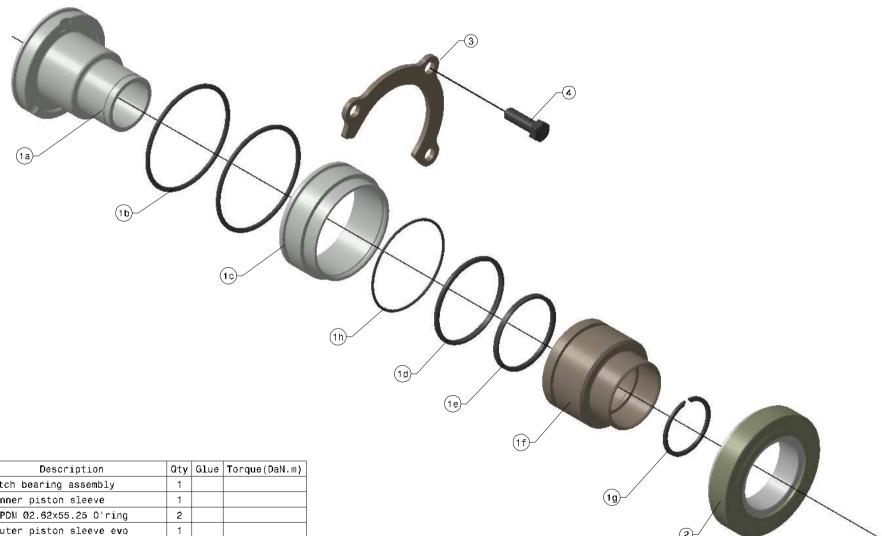
N°	Sales Description				Torque (DaN.m)
11 (standard)	CPL13549050031	Final drive asembly evo 2017(13x54)	1		
	a 0301466	M10x20 pas 125 Cl12.9 Chc bolt	8	648	9
11 (option)	CPL12539050031	Final drive asembly evo 2017(12x53)	1		
	a 0301466	M10x20 pas 125 Cl12.9 Chc bolt	8	648	9
11 (option)	CPL14559050011	Final drive assembly(14x55)	1		
	a 0301466	M10x20 pas 125 Cl12.9 Chc bolt	8	648	9

### 5 - Selector

N°	Part number	Description	Qty	G1ue	Torque (DaN.m)
1	F9050400	Selector axle	1		,
2	F0059049	Thurst washer	1		
3	0801027	Spring	1		
4	F0059022	Shoulder bushing	1		
5	F0059021	Shoulder screw	1	248	2.2
6	F9050401	Plug	1		
7	0201068	Ø2.4x24.5 O'ring	1		
8	0602010	Ø29 Inner circlip	1		
9	F0059040	Dual pin rock	1		
10	F90041281	Complete dual pin rock pusher	1		
11	0301514	M5x12 Cl12.9 ZN Chc bolt	1	222	
12	F9050417-1	Set of shim poweshift	1		
13	PSA225754	Light switch PSA	1	<b>5</b> 77	4
14	F90504361	Complete coll reverse gear	1	577	
15	F90504021	Barrel assembly	1		
16	F9050416	Fork axle	1		
17	F9050413	Fork assembly	3		
18	F9050408	Shoulder bushing "indexor"	2		
19	F9050407	indexor rocker	1		
20	0301169	M8x25 Cl12.9 Chc bolt	1	243	2.5
21	0801046	Spring	1		
22	0301451	M12x20 Cl10.9 Chc bolt	1	577	4
23	0101004	Bearing 6004	2		



### 6 - Clutch bearing



N	° Part number		Description	Qty	Glue	Torque(DaN.m)
	F90506148	C.	lutch bearing assembly	1		
	F9050614	а	Inner piston sleeve	1		
	0211012	b	EPDM 02.62x55.25 0'ring	2		
	F9050616	С	Outer piston sleeve evo	1		
1	0299061	d	EPDM Ø52x47.5x3 Inner O'ring	1		
	0299062	е	EPDM Ø40x44.5x3 Inner O'ring	1		
	F9050617	f	Piston	1		
	9907052	g	SW32 Snap ring	1		
	0211013	h	EPDM 01.5x52 O'ring	1		
2	F90506101	В	earing	1		
3	F9050603	Re	etaining plate	1		
4	0305109	M.	7x20 Cl10.9 ZN Th bolt	3	222	2.2

# PEUGEOT 208 R2 STR2 Gearbox 5- Contacts



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# **CUSTOMER PARTS REBUILDING**

Send this doc by e-mail:	peugeots	sport-racingshop@	)peugeot.com	
Delivery address:	SADEV 6 rue des 85110 St F FRANCE	Grand'Montains Prouant		
Customer Code				
Delivery address				
Rollcage number				
Vehicle Type				
Quotation before w	ork:	YES	□ №	
General data:				
Date of request				
Dispatch date to Peugeot	Sport			
Deadline requested				
Requests:				
Job requested				
Problem(s)				
Names and number of part	ts			



# GEARBOX REBUILDING CARD

Type of gearbox	N° of gearbox	1	Date
STR2PSA10133 (PEUGEOT 208 R2)		of gearbox housing)	
Team		Delivery adress	
Work requested			
Deadline requested		Next race	
	Tes	st	Race
Special stage			
Connection			
Total			
Type of oil used			
Comments			

This document must be send for servicing with the gearbox