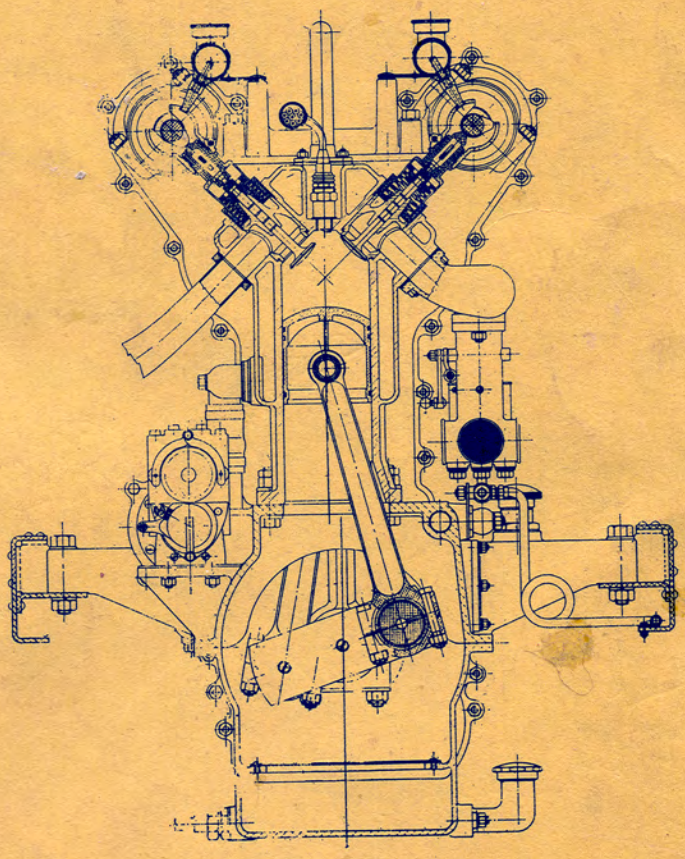
1 of 35.

RACING SINCE 1911

alfa romeo



GRAND PRIX ENGINE

PERFORMANCE OPTIONS

www.Duettoinfo.com For free distribution1 of 35.

ISSUE 2, 1968 $1.50

FOR YOUR INFORMATION

In this catalog we have attempted to list major components commonly referred to as performance options. Please note that these items are not necessarily approved by some racing organizations. We have listed what is available and it is up to you to interpret your own racing organization's permissible replacements or options.

Many of these parts are standard production while some are special production. Due to the great degree of interchangeability we suggest that you refer to the various parts catalogs covering the GIULIA series. Smaller details such as nuts, bolts, and other hardware are not shown here. They can be found in the related catalog. All of the items shown are normally stocked in both A.R.I. parts centers.

Not shown are the many parts which are allowable under "open" or "free" option rules. Usually these items are available on the open market.

Alfa Romeo does not imply nor offer any warranty where series production cars are modified in any way. Cars and parts modified, altered, or used on other models are used at the owner's risk. The contents of this catalog do not imply that these modifications are sanctioned by Alfa Romeo or her subsidiaries.

Federal and State agencies have enacted legislation concerning vehicle safety and motor vehicle air pollution emissions. Certifications of these standards are void by virtue of any related modifications. While these standards are oriented towards the vehicle manufacturer, the owner should keep in mind their purpose. Therefore Alfa Romeo cannot recommend modification to cars used on public highways. This catalog's purpose is only a collection of items of interest to the race car owner whose vehicle application is for track use only.

The Alfa Romeo Grand Prix engine is rather interesting from an evolutionary standpoint.

Features of this race developed unit included a twin magneto ignition firing two spark plugs per cylinder. Four valves for each cylinder were actuated by twin overhead camshafts running in ball bearings. Lubrication was by the dry sump system with the oil tank attached to the underside of the crankcase. A multiple disc clutch connected the engine to a four speed gearbox.

While the output of this 4.5 liter, 4 cylinder giant was only 102 HP @3000 RPM it was advanced for its time. It was built in 1914.

Other items of historical interest appear throughout these pages.

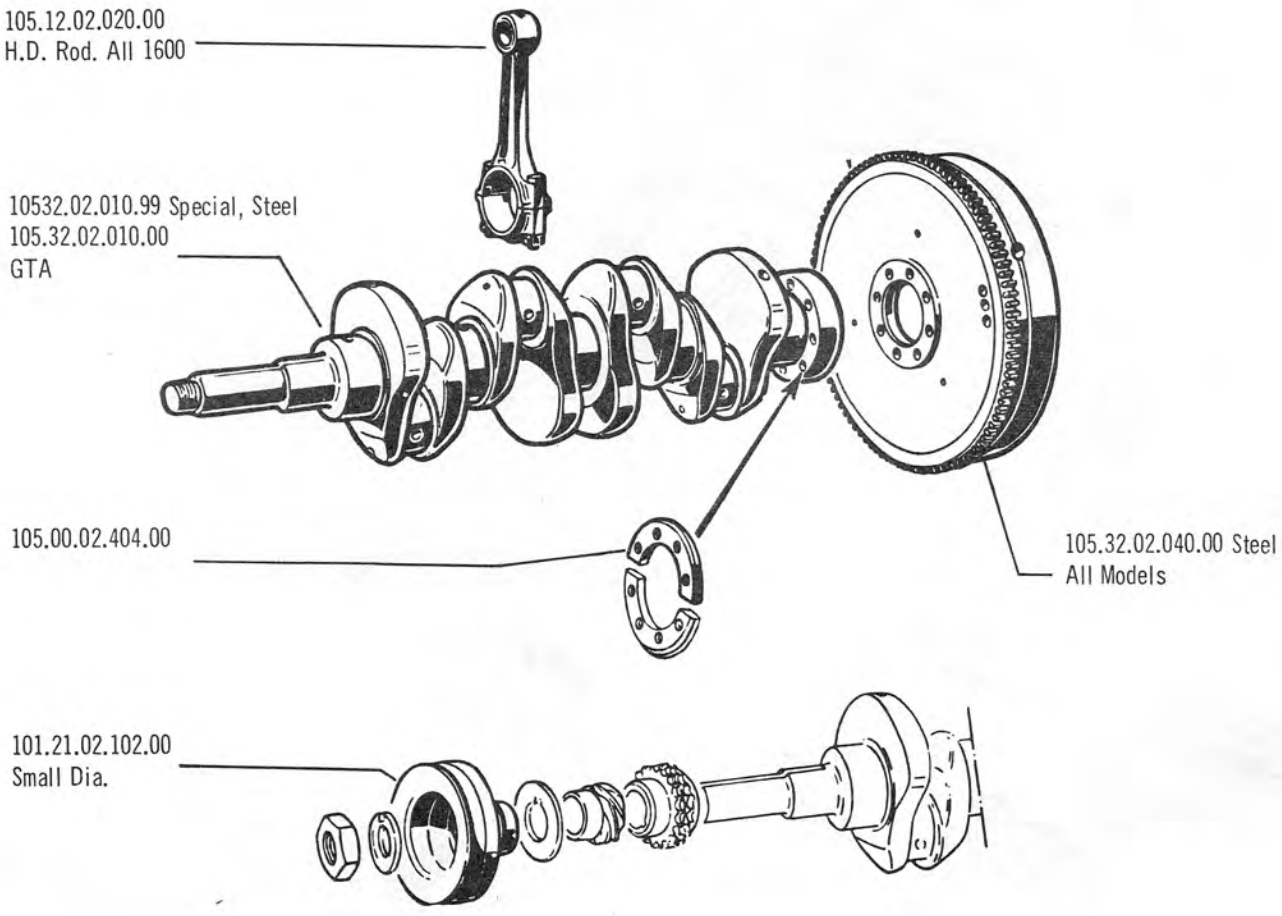
MR. ART CORREIA
(202) - 824 - ~~6408~~ 4949
E69.037

MOTOR

	(A)
10121.02.030.01	Veloce 9.7
10532.02.030.00	Twin plug Std.
10511.02.300.07	Racing single plug 11.0
10532.02.300.99	Racing GTA-3 Ring-Hi Dome
10532.02.300.98	" " 2 Ring 11.5
10532.02.300.97	" " 3 Ring 10.7
653.18001	" 1300 2 Ring



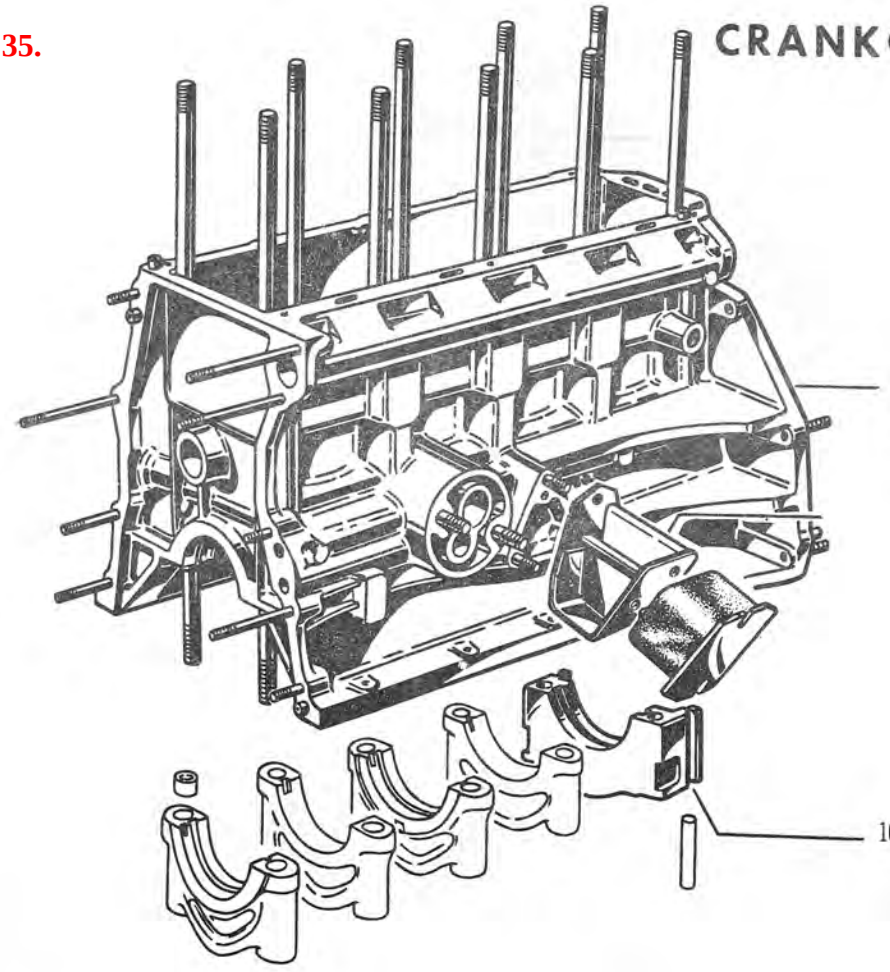
(A)



SPECIAL PISTON RINGS FOR RACING PISTONS

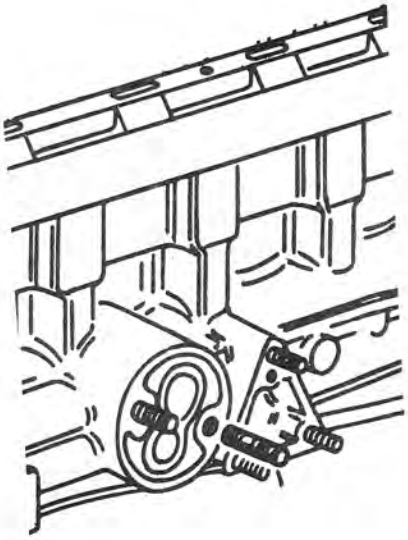
RING SET NO.	FOR PISTON NO.	BORGO NO.	INSIDE SKIRT	
10511.02.300.07R	10511.02.300.07	5076	78 mm	Single Plug
10532.02.300.99R	10532.02.300.99	5238	78 mm	Twin Plug
10532.02.300.98R	10532.02.300.98	5240	78.7 mm	" "
10532.02.300.99R	10532.02.300.97	5152	78 mm	" "
	653.18001	2460		1300 Junior

CRANKCASE



105.00.01.010.05 late, reinforced, all 1600
10532.01.010.99 special, prepared for GTA
10506.01.010.05 std, 1300 GT Junior

105.00.01.107.02 reinf. main cap, late 1600



Oil cooler adapter studs
#2100.05299 10 x 70 mm



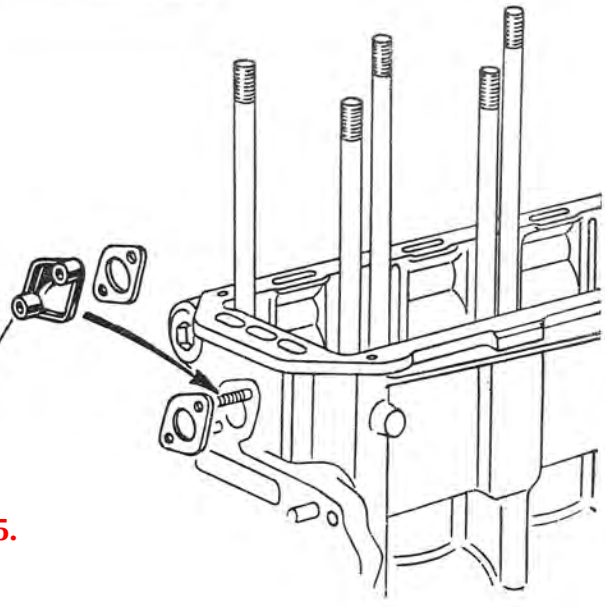
Cooler adapter for
vertical filters.

105.16.01.014.00

All Giulietta, Giulia
engines

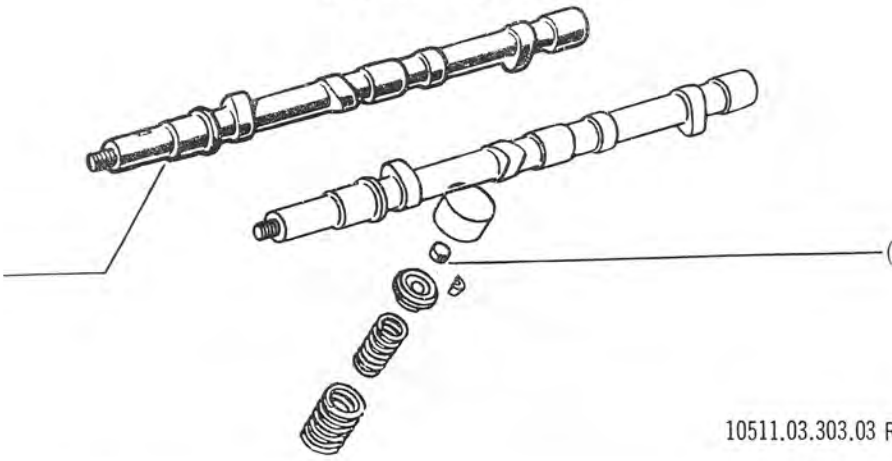
2340.32038

2370.31676



105.02.01.197.02
all models

CAMSHAFTS



10511.03.303.03 Racing. All single plugs.

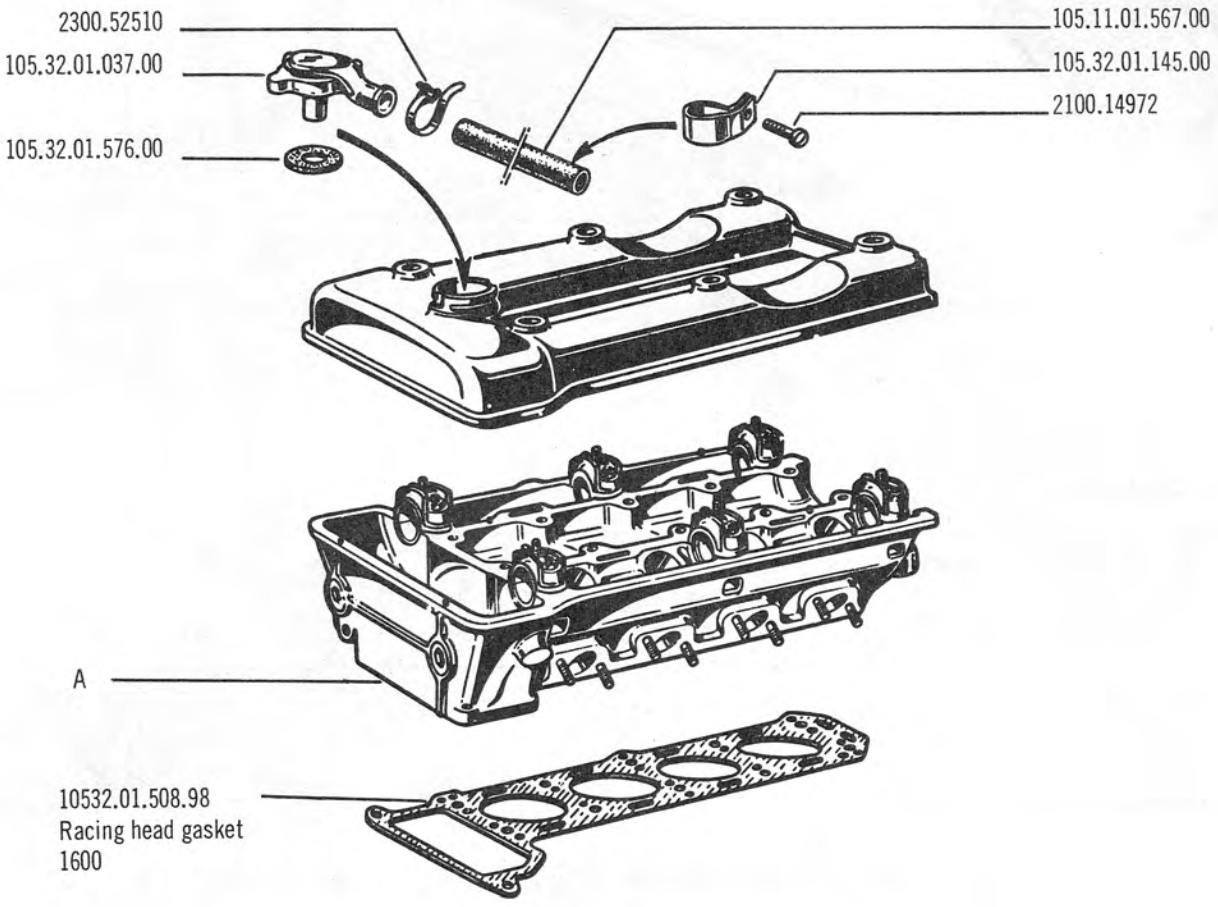
Catalog No.	Description		Qty
101.21.03.200.00	CAMSHAFT, Veloce Sports	1600; 1300 Junior	2
10121.03.200.01	" Racing only, Single Plug	"	2
10532.03.200.99	" " " Twin Plug	GTA	2

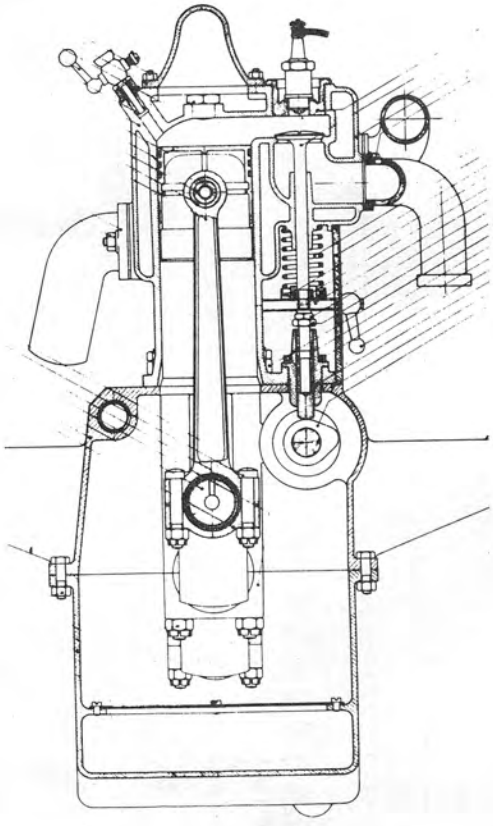
(1) SHIM, valve clearance adjusting

105.00.03.307.00 - 3.500 mm thick	101.20.03.307.02 - 2.750 mm thick	101.10.03.307.20 - 2.000 mm thick
01 - 3.475 " "	03 - 2.725 " "	21 - 1.975 " "
02 - 3.450 " "	04 - 2.700 " "	22 - 1.950 " "
03 - 3.425 " "	05 - 2.675 " "	23 - 1.925 " "
04 - 3.400 " "	06 - 2.650 " "	24 - 1.900 " "
05 - 3.375 " "	07 - 2.625 " "	25 - 1.875 " "
06 - 3.350 " "	08 - 2.600 " "	26 - 1.850 " "
07 - 3.325 " "	09 - 2.575 " "	27 - 1.825 " "
08 - 3.300 " "	10 - 2.550 " "	28 - 1.800 " "
09 - 3.275 " "	11 - 2.525 " "	29 - 1.775 " "
10 - 3.250 " "	101.10.03.307.00 - 2.500 " "	30 - 1.750 " "
11 - 3.225 " "	01 - 2.475 " "	31 - 1.725 " "
12 - 3.200 " "	02 - 2.450 " "	32 - 1.700 " "
13 - 3.175 " "	03 - 2.425 " "	33 - 1.676 " "
14 - 3.150 " "	04 - 2.400 " "	34 - 1.650 " "
15 - 3.125 " "	05 - 2.375 " "	35 - 1.625 " "
16 - 3.100 " "	06 - 2.350 " "	36 - 1.600 " "
17 - 3.075 " "	07 - 2.325 " "	37 - 1.575 " "
18 - 3.050 " "	08 - 2.300 " "	38 - 1.550 " "
19 - 3.025 " "	09 - 2.275 " "	39 - 1.525 " "
20 - 3.000 " "	10 - 2.250 " "	40 - 1.500 " "
21 - 2.975 " "	11 - 2.225 " "	41 - 1.475 " "
22 - 2.950 " "	12 - 2.200 " "	42 - 1.450 " "
23 - 2.925 " "	13 - 2.175 " "	43 - 1.425 " "
24 - 2.900 " "	14 - 2.150 " "	44 - 1.400 " "
25 - 2.875 " "	15 - 2.125 " "	45 - 1.375 " "
26 - 2.850 " "	16 - 2.100 " "	46 - 1.350 " "
27 - 2.825 " "	17 - 2.075 " "	47 - 1.325 " "
101.20.03.307.00 - 2.800 " "	18 - 2.050 " "	48 - 1.300 " "
01 - 2.775 " "	19 - 2.025 " "	

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CYLINDER HEAD





A	10516.01.053.00	Single plug head,	prepared
	10532.01.053.00	Twin " "	production
	10532.01.053.99	" " "	prepared
	10530.01.053.00	1300 Junior,	production
	10530.01.053.99	" "	prepared
	10532.06.405.00	FIA oil catch tank, all models	

1910 Series A 12HP

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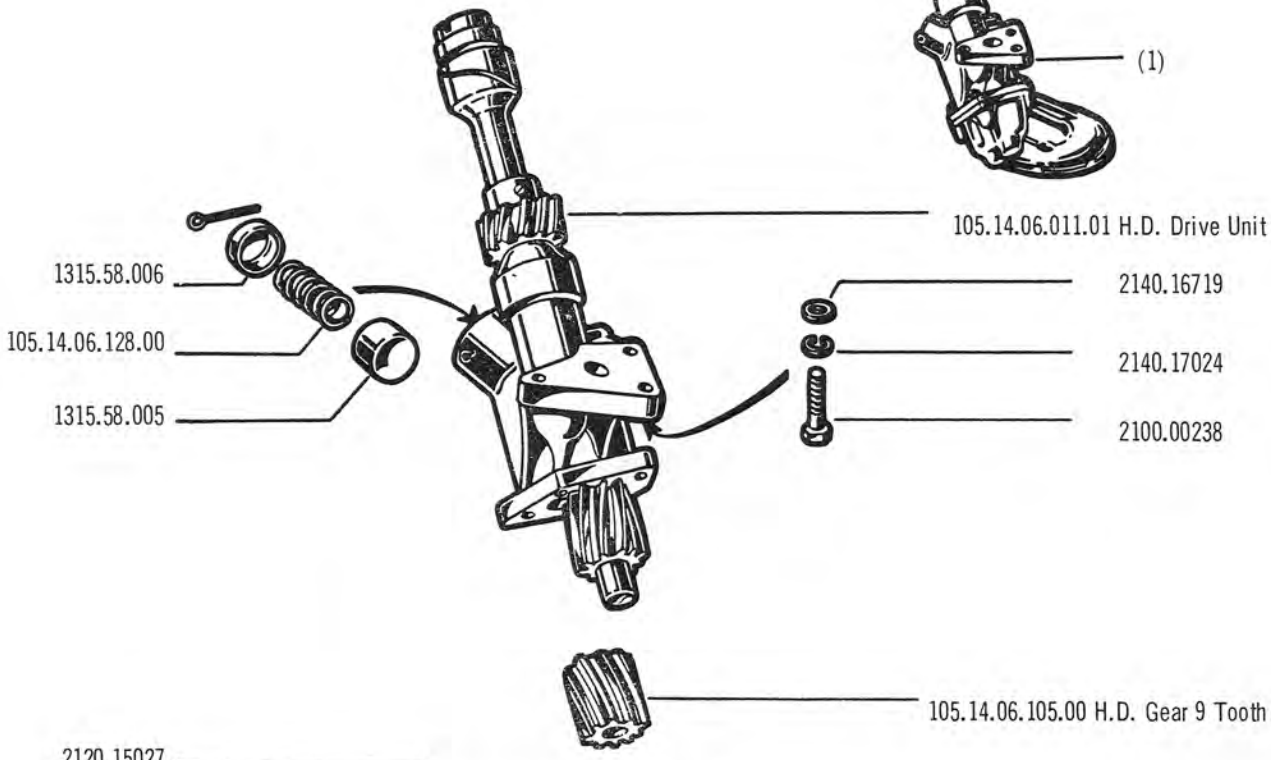
OIL PUMP

(1) Pump, H.D. 10514.06.013.00 18 mm deep*
Pump, H.D. 10514.06.013.01 28 mm deep*
Pump, H.D. 10121.06.013.00 type 121 engines
Pump, H.D. 10532.06.013.01 type 532 engines GTA

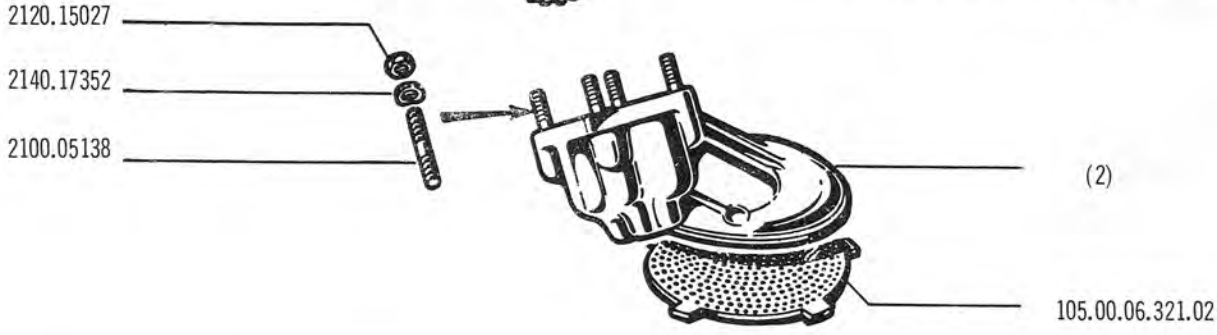
*Engines std. late prod. type 502,514 & similar and 1300 Junior



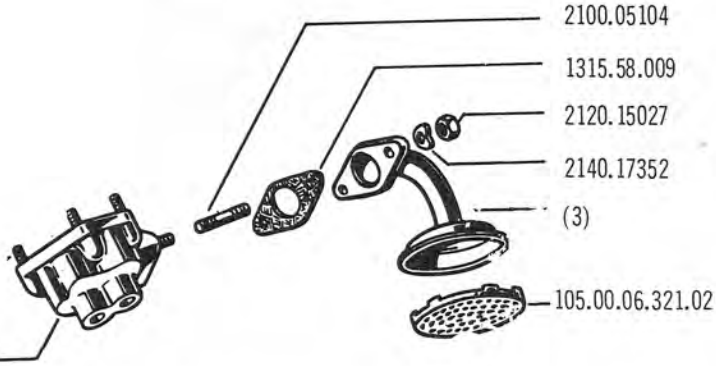
(1)



105.14.06.105.00 H.D. Gear 9 Tooth



(2) Pickup, 10514.06.010.00 For 18 mm*
Pickup, 10514.06.010.02 For 28 mm*
Pickup, 10121.06.010.01 Type 121 engines

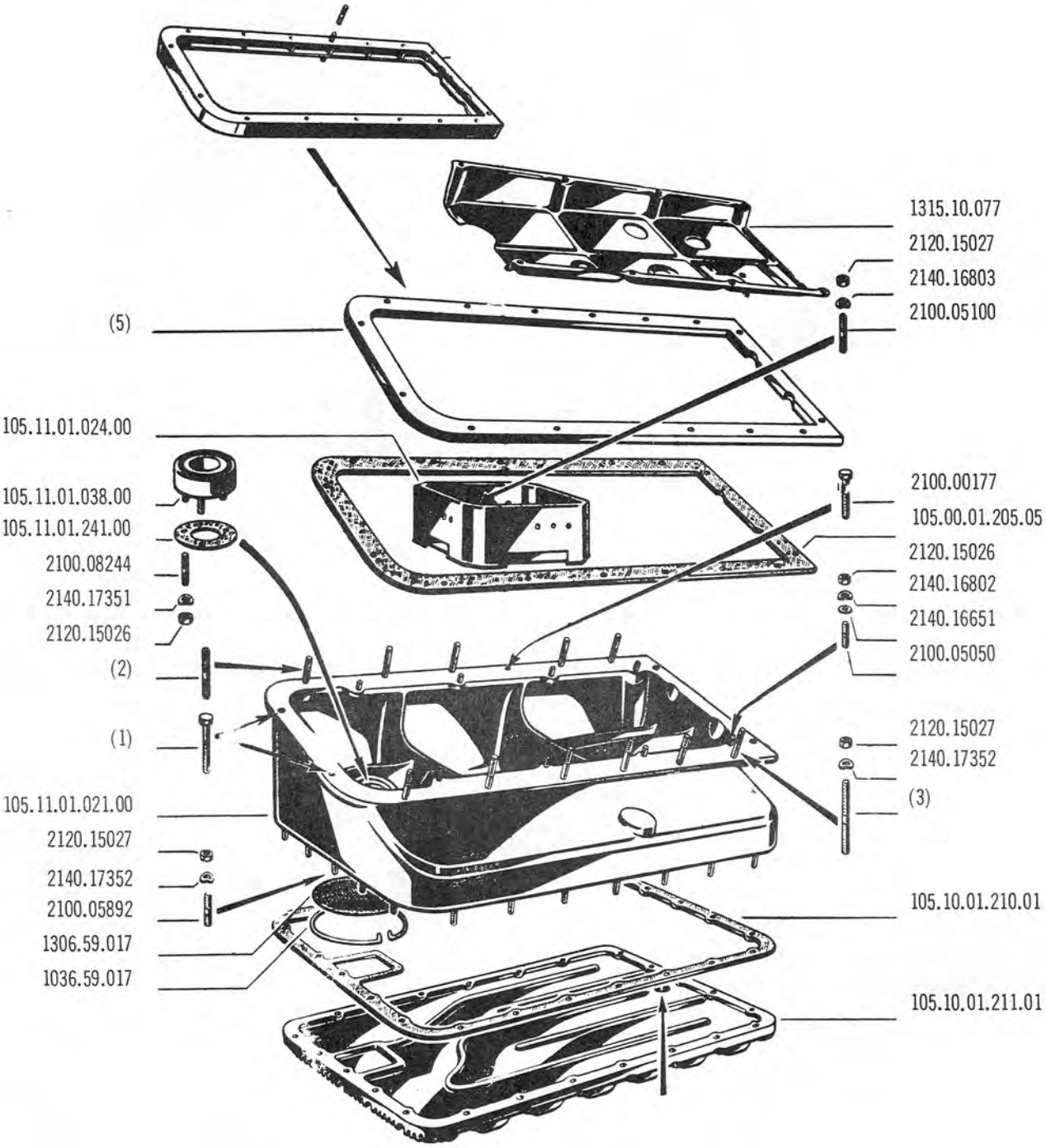


101.29.06.010.00
Interchanges with (2) above

(3) Pickup, 10532.06.310.00 GTA Std.
Pickup, 10532.06.310.03 Longer for deep pan bottom, can be used on other 105 cars if deep pan bottom is ued with pump edition 10121.06.010.00

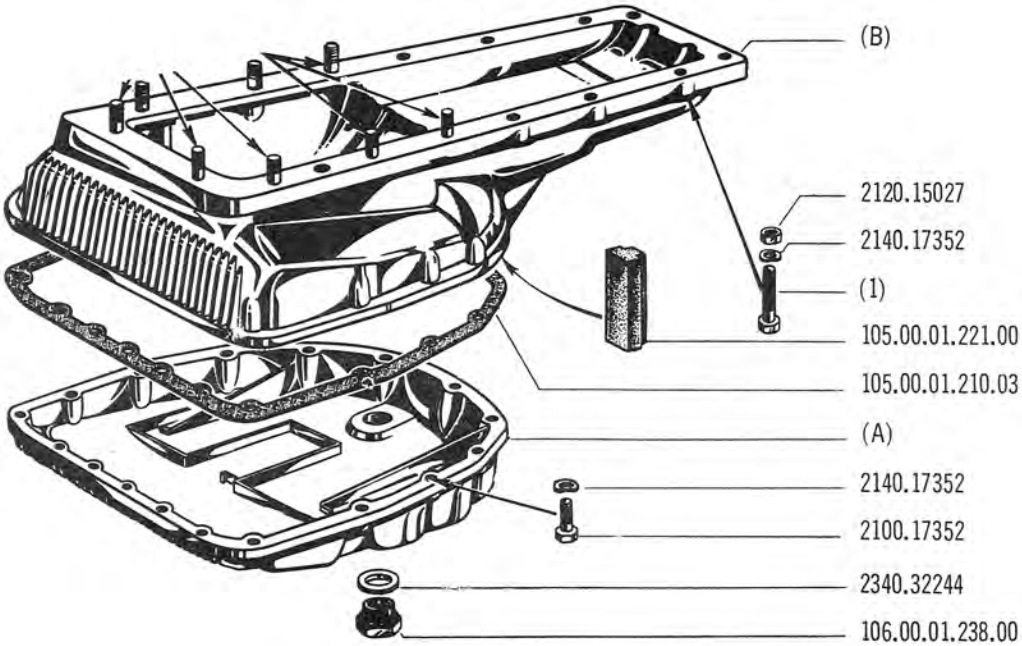
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SUMP SYSTEM TZ ONLY



5 10511.01.039.01 Thick pan spacer for incr. capacity.

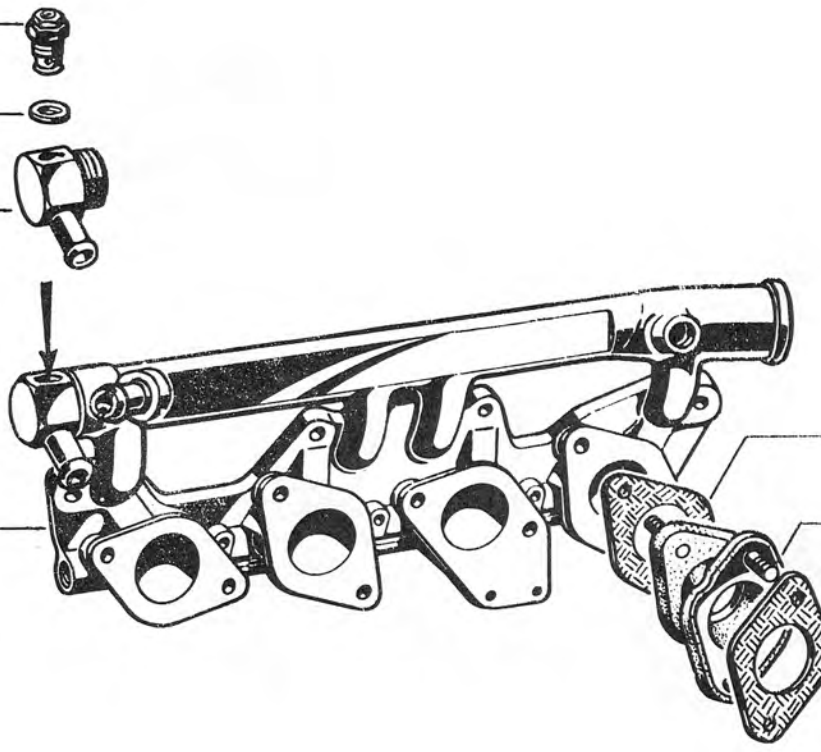
OIL PANS



(A) Pan Bottom, Std.	10514.01.211.00	Fits all wide pans, 28 mm
Pan Bottom, Std. depth in mag.	10532.01.211.00	Fits all wide pans, 28 mm
Pan Bottom, Std. racing, deep in mag.	10532.01.211.02	Fits all wide pans, 28 mm
Pan Bottom, Std. Type 121	10120.01.211.00	Long narrow Veloce Type for SR.
(B) Pan, Std.	10500.01.021.06	all 105 cars
Pan, Std. mag. GTA	10532.01.021.01	Fits all engines in 105 cars
Pan, Std, Type 121	10121.01.021.00	Long narrow Veloce Type for SR.
Baffle between crank & pan	10532.01.026.00	not shown, GTA
Baffle between crank & pan	1315.10.077	Std. on Type 121
Trap, box with gates for pan	1315.10.736	Std. on Type 121
FIA oil catch tank, 1 L. (not illustrated)	10532.06.405.00	all models

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INDUCTION

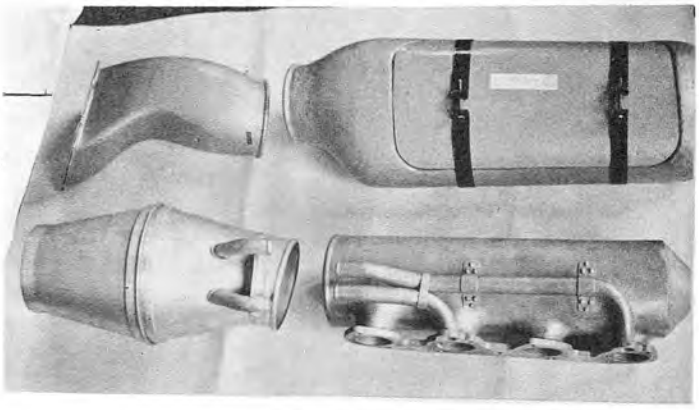


For
45 DCOE

Inlets

10532.08.205.00
all 105 cars
Incl. 1300 Junior

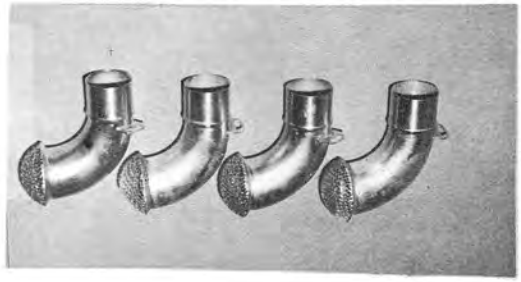
10510.08.010.00
72, Formula, SR.



Dynamic Air Boxes

10532.08.204.00
all 105 cars, prod, SR.
Incl. 1300 Junior

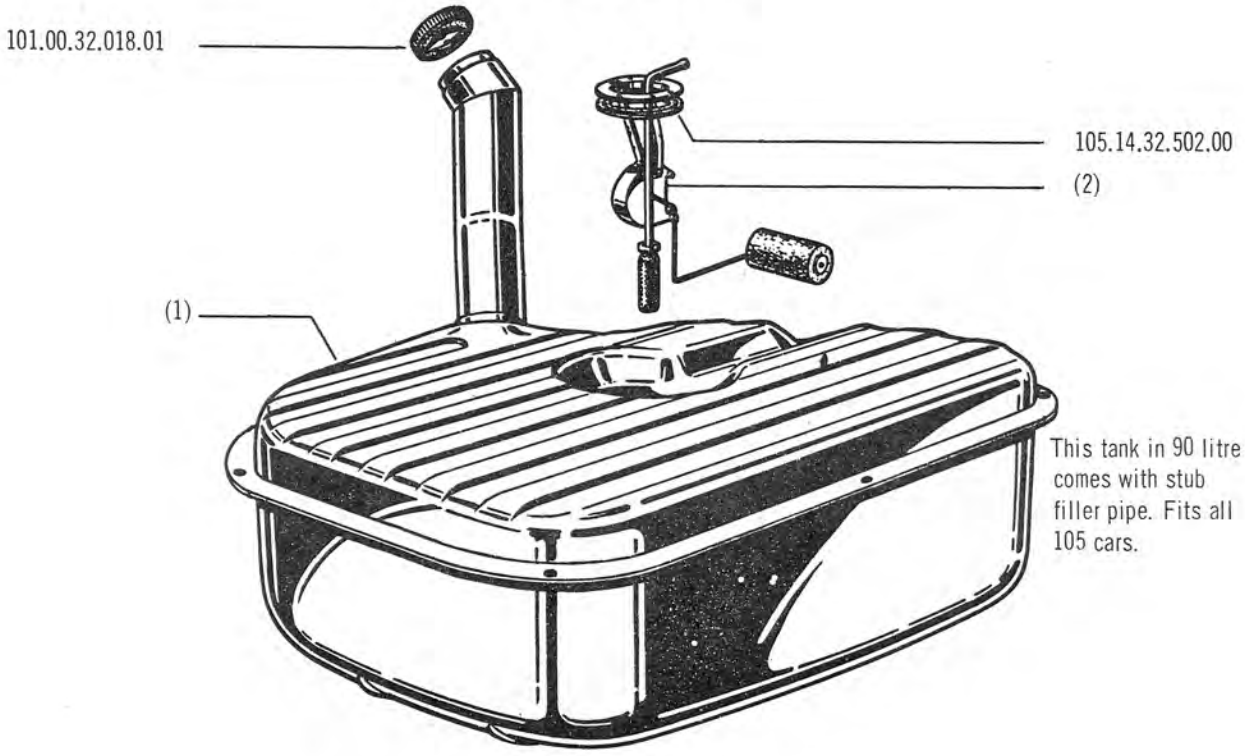
10510.08.108.00
Tz, Formula, SR.



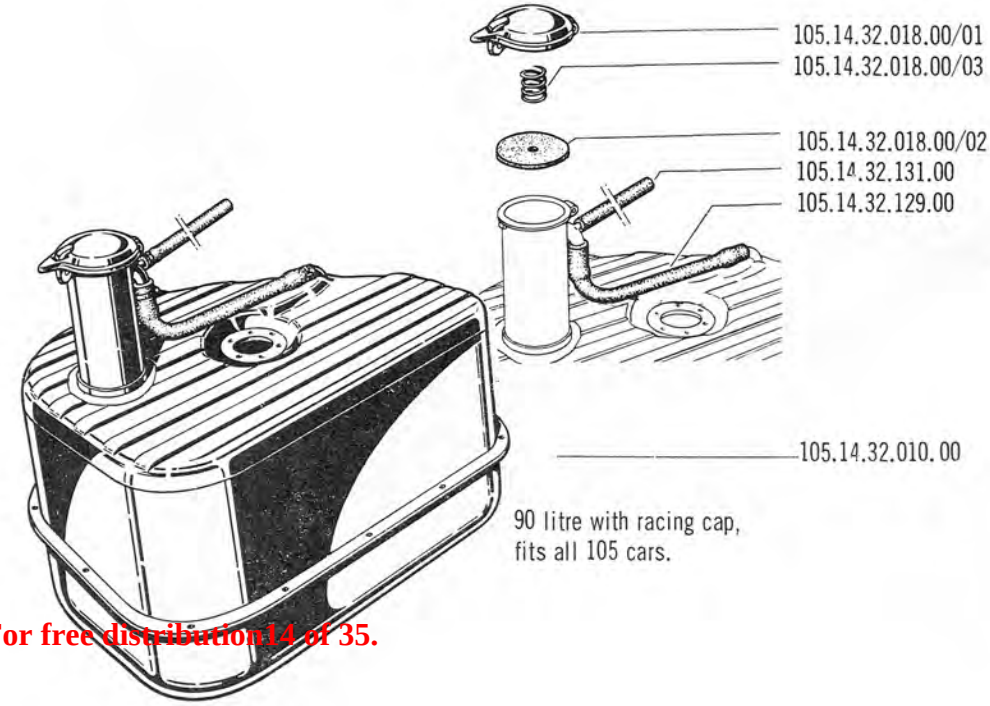
652.08.001

Curved horns for 45 DCOE only, used inside
Air Box # 10532.08.204.00

FUEL SYSTEM



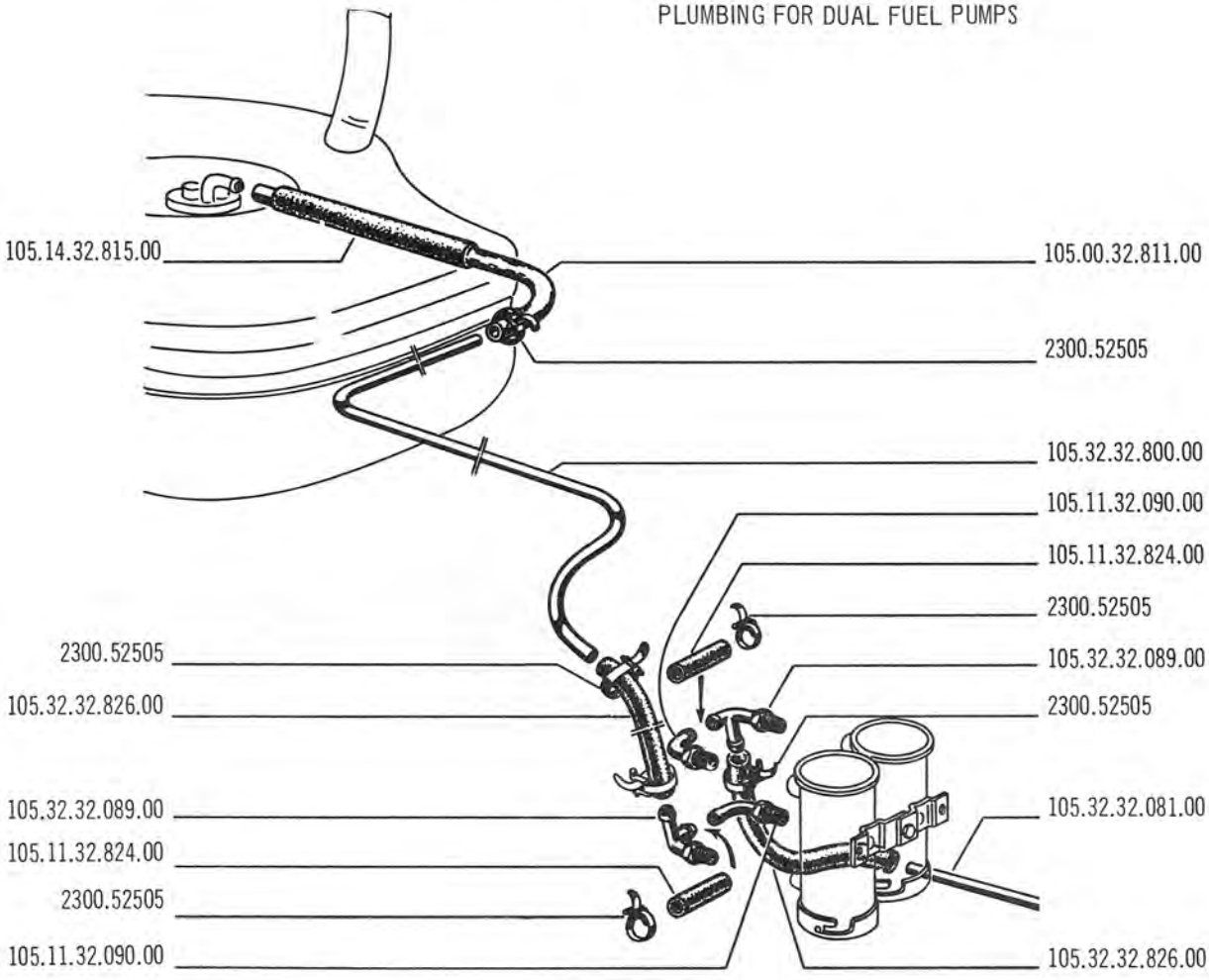
		TANK, fuel:
1	105.02.32.010.00	- 46 liter
	105.32.32.010.00	- 90 liter, optional extra
		INDICATOR, fuel level:
2	105.00.32.050.01	- Borletti make 46 lts tank
	105.00.32.050.03	- Jaeger make
	105.14.32.050.00	- Borletti make - 90 lts tank
	101.00.32.018.01	PLUG, fuel filler
	105.14.32.502.00	GASKET, level indicator flange
	105.32.32.837.00	Reinforcement for tank bottom, oversize tank
	105.32.32.010.04	60 liter tank, optional
	105.32.32.018.04	Filler cap for 60 L. tank

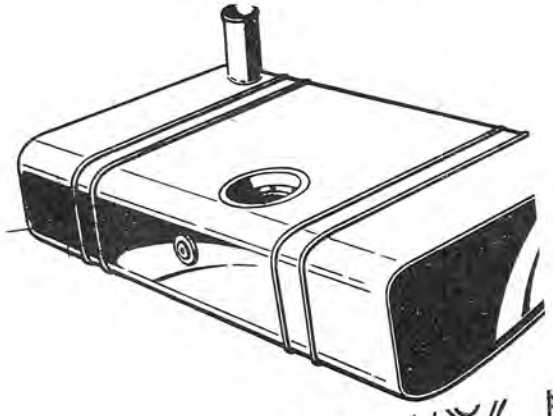


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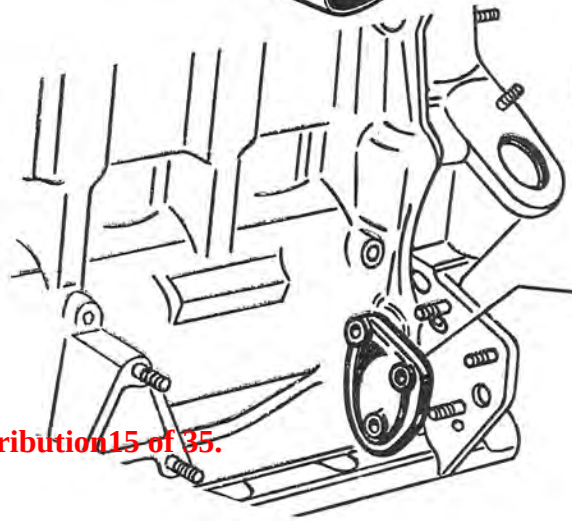
FUEL SYSTEM

PLUMBING FOR DUAL FUEL PUMPS





1365.85.722 Spiders, Sprint, SS
90 Litre, 101 type cars
1600, Giulietta

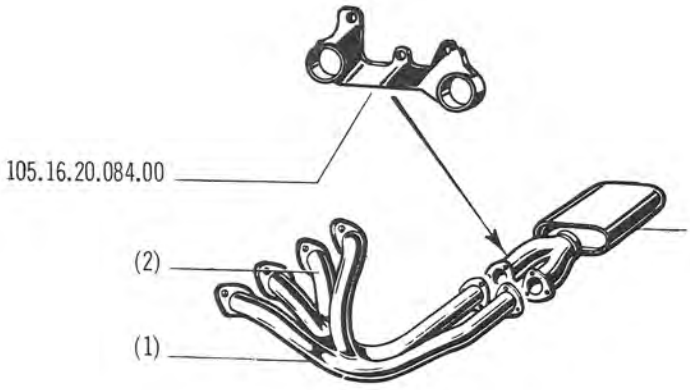


Blank Plate
for mechanical pump.
All engines.

101.06.01.315.00

EXHAUST SYSTEM

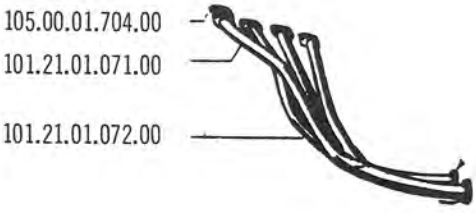
For 105 chassis only, Incl. 1300 Junior oversize manifolds, tapered tubing



1 10516.01.071.00

2 10516.01.072.00

10516.30.009.00 collector
10516.30.009.01 collector
105 chassis



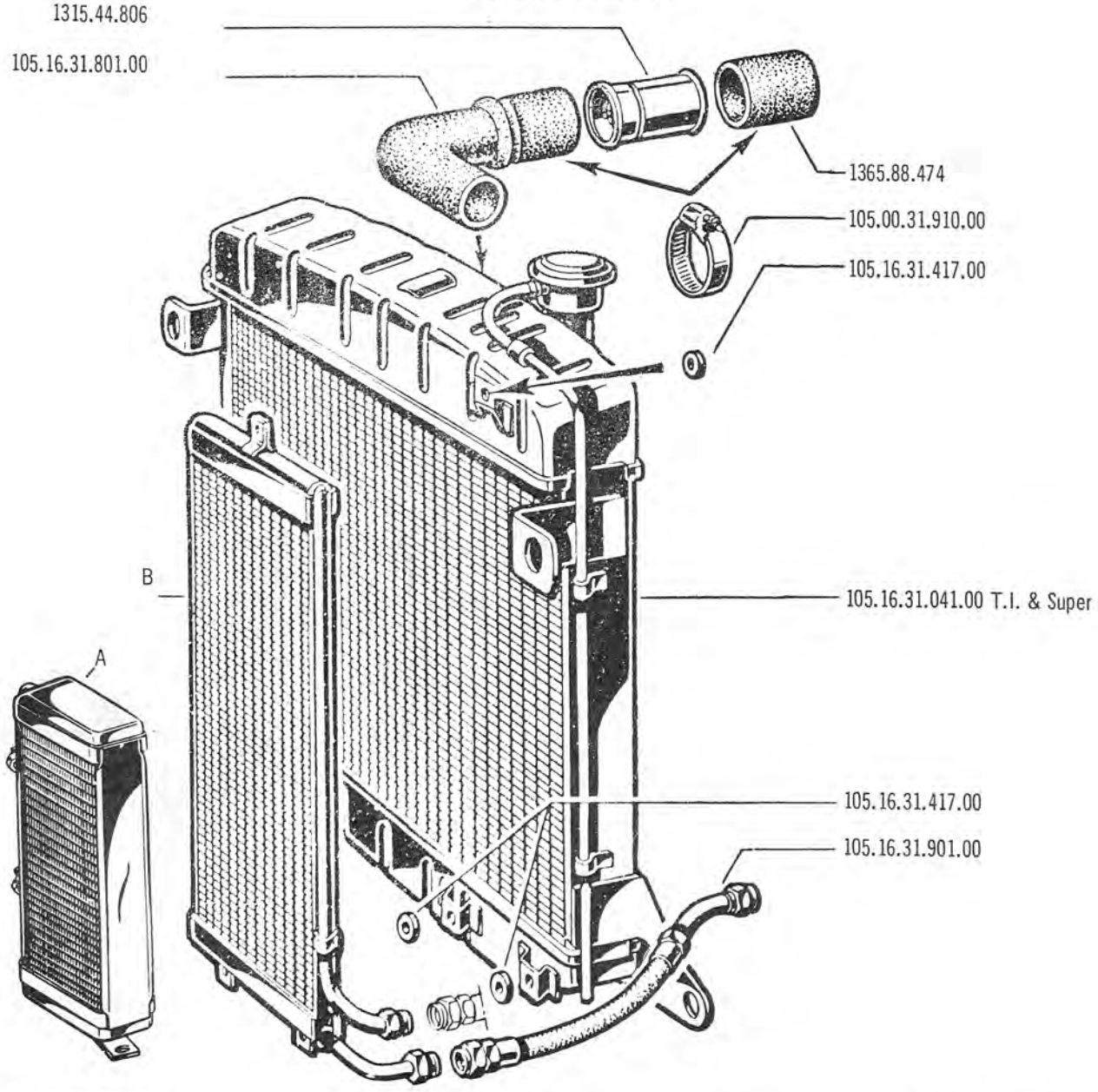
tubing manifolds for 101.23 and 101.12

Special "sebring" front exhaust pipes available on request. These use 60 mm pipe with fan shaped side exit

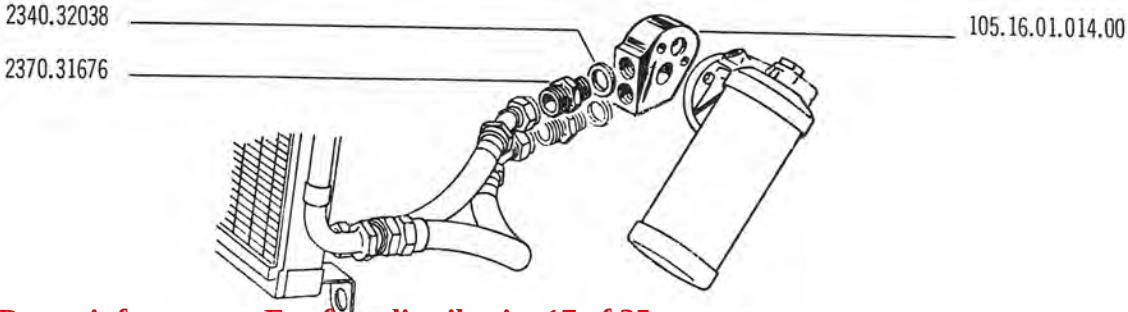
For all 105 Models 777.704.3000



COOLING

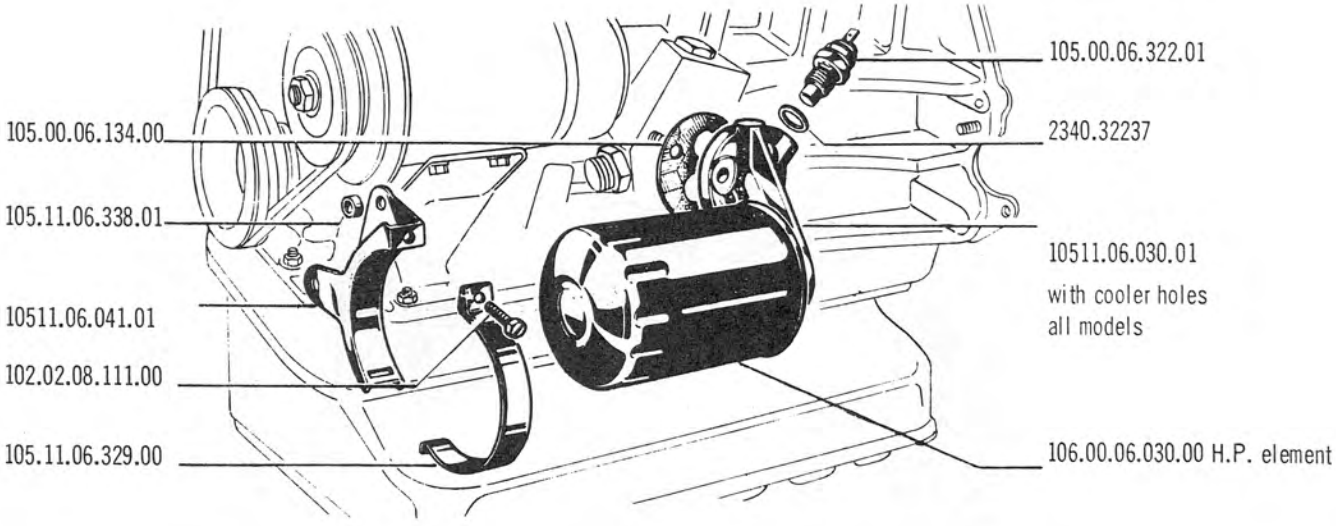


A	10121.31.045.00	oil cooler	all Spiders, SS, Sprints 101's
	10511.31.045.00	oil cooler	TZ only
B	10516.31.045.00	oil cooler	GT, TI, GTC & 105's
	10532.31.045.00	oil cooler	GTA only, supports in car



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COOLING



The above configuration is recommended for TZ, SR, and Formula cars where the vertical filter adapter cannot be used.

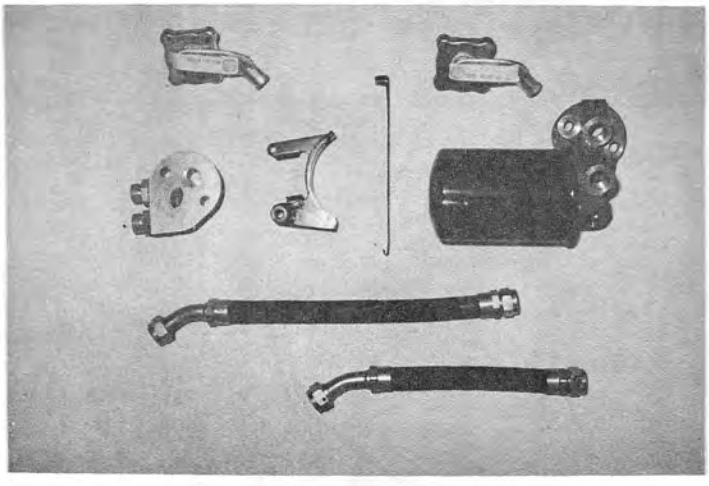


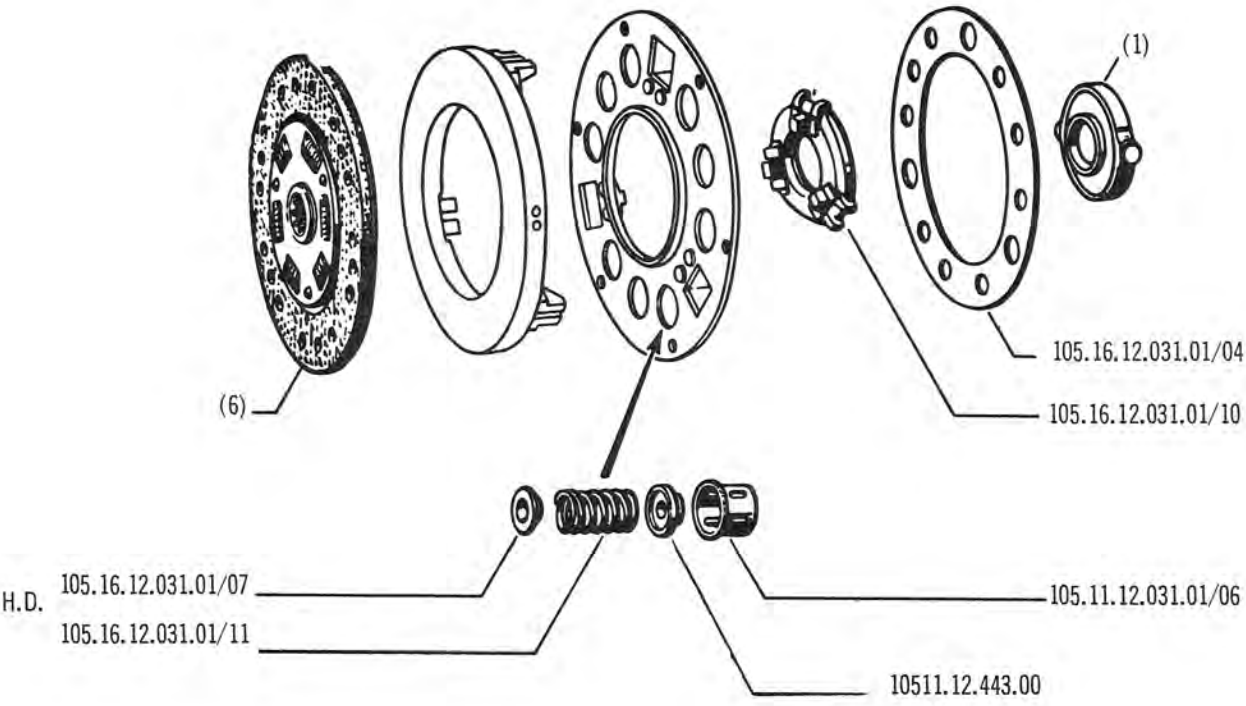
Photo Left:

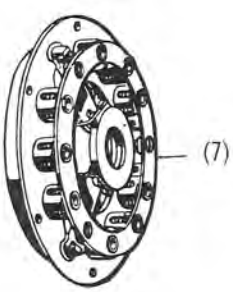
To clarify oil cooler adapter sketches,

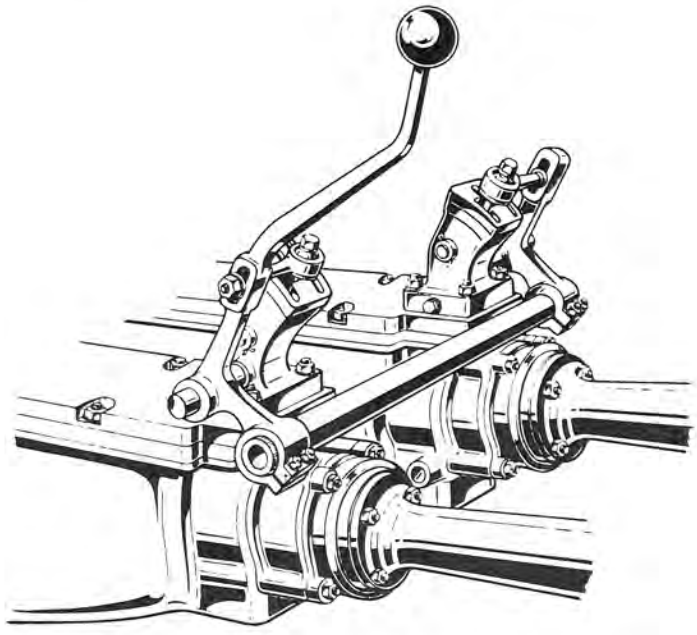
HOSE	LENGTH	FITTINGS
10516.31.417.00	L. = 40 cm	1 Straight end + 1 end 30°
10511.31.417.03	L. = 63 cm	2 right angle ends
10532.31.417.00	L. = 23 cm	1 Straight end + 1 end 30°

CLUTCH

(1) Special release bearing	10532.12.042.00	racing, fibre ring
Special fibre facing	10511.12.312.00	to convert std. bearing
(6) Lightweight racing disc	10511.12.032.02	
Heavy duty rallye disc	10516.12.032.01	





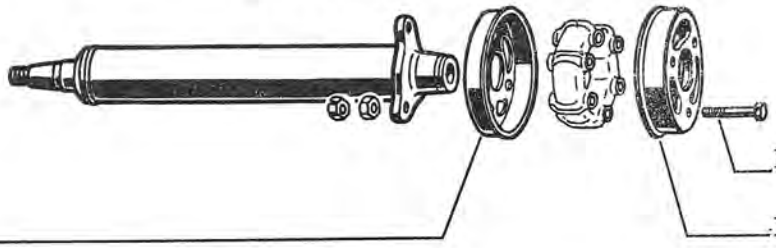


Twin Gearbox Shift Linkage 1931 Type A

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(7) Lightweight racing assy.	10511.12.034.02	all Guila Series
Heavy duty rallye assy.	10515.12.035.00	all Guila Series

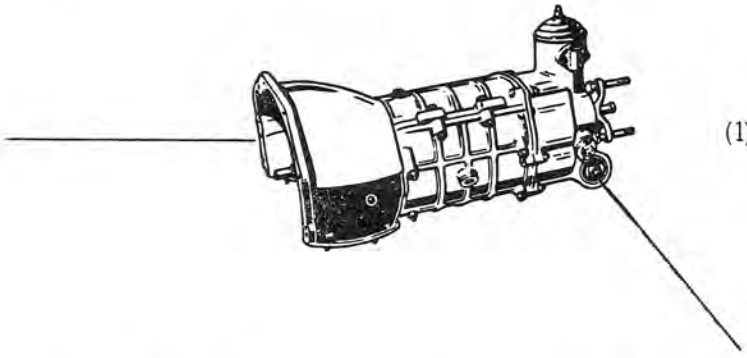
POWER TRAIN



105.32.15.306.00

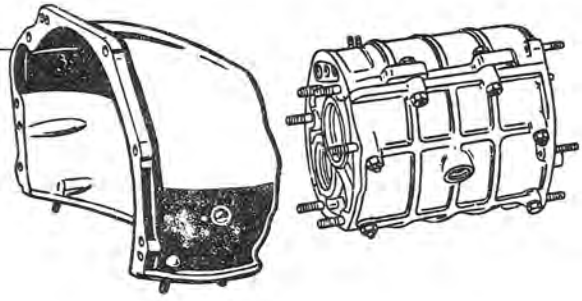
105.16.15.032.01

105.16.15.032.02



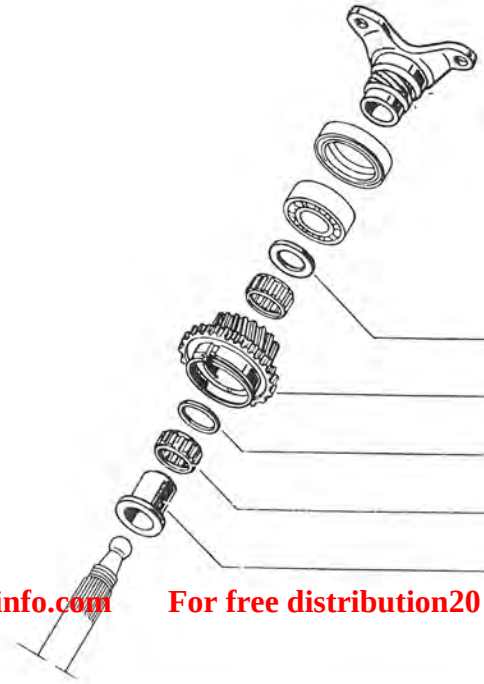
(1) Special gear boxes available on special order. Prices on request.

1365.15402 Rear Mount.



105.32.13.012.00
Lightweight
bell housing

10532.13.067.00 Lightweight gear lever



Ⅴ Gear Roller Conversion order parts shown. Select Ⅴ gear from gearbox optional ratio chart or list.

All 5 speed boxes

102.00.13.303.00

Ⅴ

105.16.13.315.00

105.16.13.302.00

105.16.13.304.01

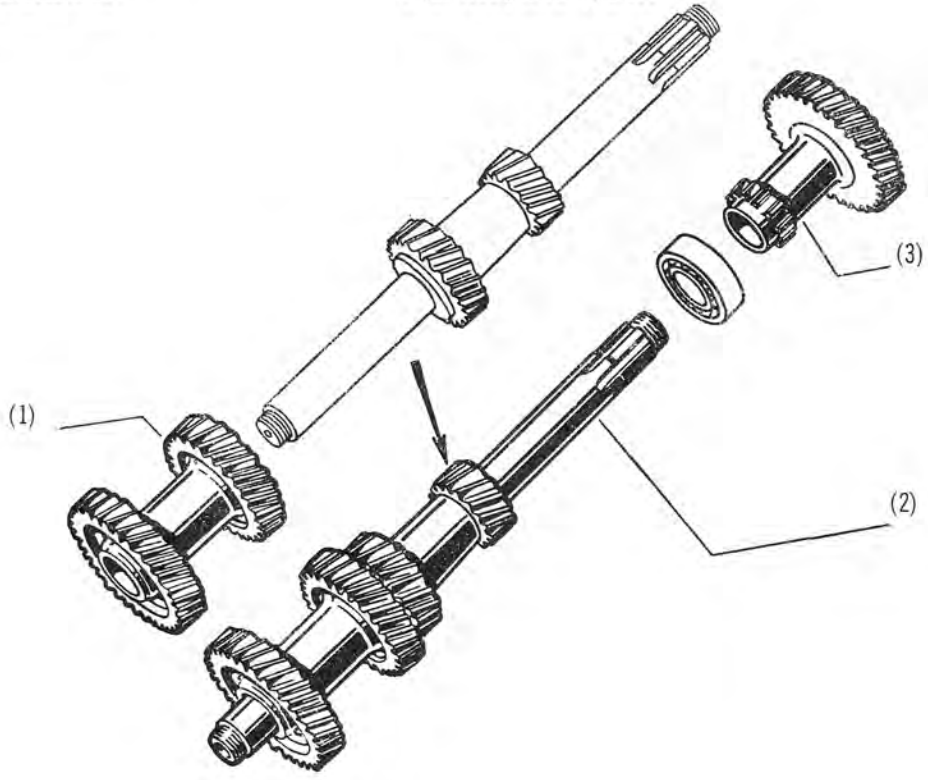
www.Duettoinfo.com For free distribution20 of 35.

GEARBOX

(7) GEARS, I SPEED (PG. 17)		RATIO
10500.13.027.00	38 teeth, std.	3.30
10516.13.027.00	35 teeth, close	2.54
10532.13.027.01	35 teeth, close lightweight	2.54
10532.13.027.02	34 teeth, short, lightweight	2.33
10532.13.027.03	36 teeth, inter, lightweight	2.76

(8) GEARS, V SPEED (PG. 17)		
10200.13.031.02	20 teeth, std.	.79
10516.13.031.01	21 teeth, close, roller	.85
10511.13.031.00	21 teeth, close, roller	.88
10511.13.031.01	20 teeth, inter, roller	.82

(1) CLUSTER GEARS, PARTIAL, GEARS III & IV	
10500.13.206.00	30,26 teeth, std. with moly snycho.
10532.13.206.01	30,27 teeth, lightweight, close
10511.13.206.00	30,27 teeth, lightweight, roller V
10500.13.206.00	30,26 teeth, std.
10511.13.206.01	30,26 teeth, lightweight, inter., roller V
10516.13.206.00	30,27 teeth, roller V, close

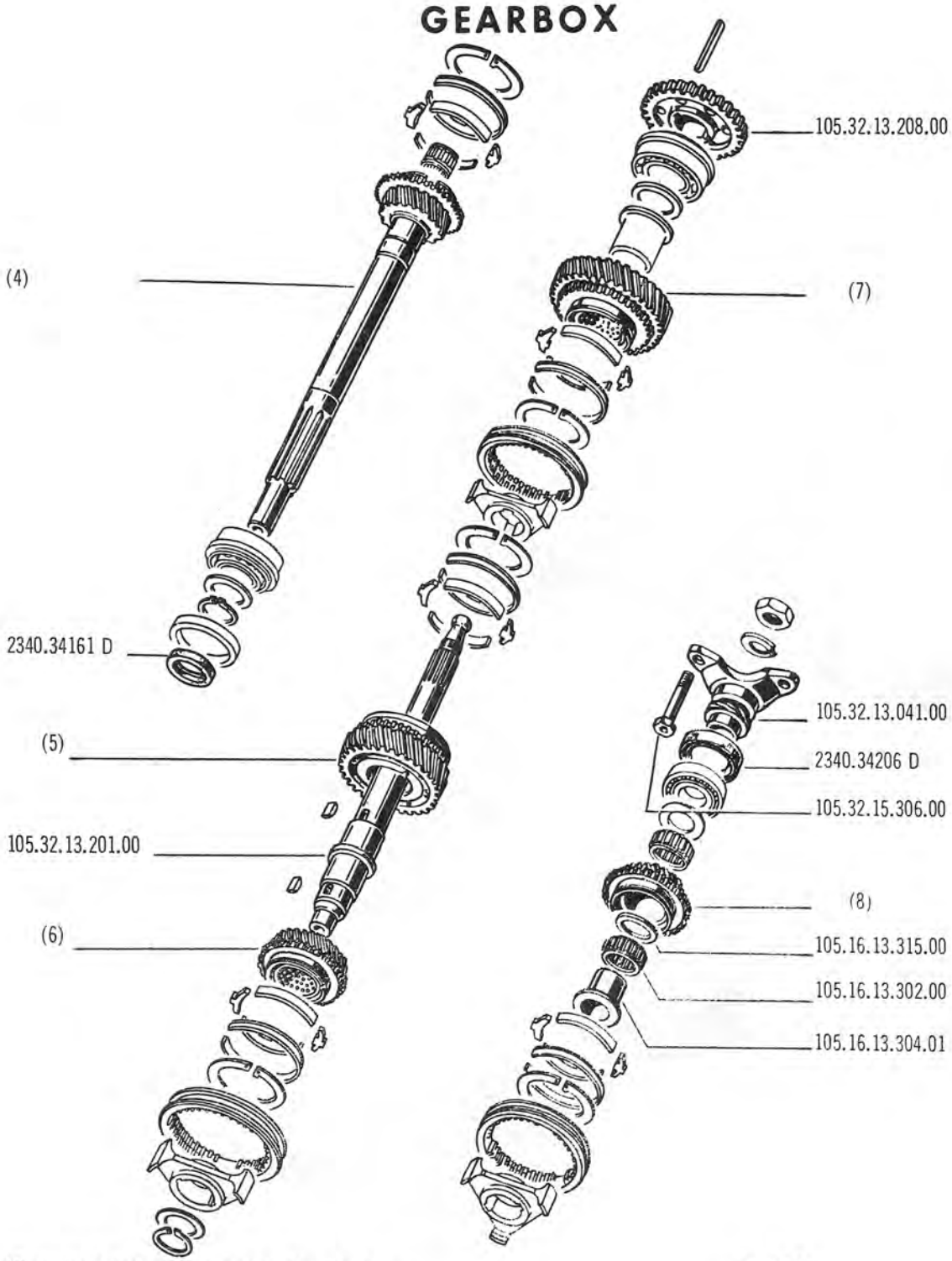


(2) CLUSTER GEARS, ASSEMBLED, GEARS I, II, III, IV	
10502.13.028.00	30,26,21,15 teeth std
10516.13.028.00	30,27,23,18 teeth close, roller V
10532.13.028.01	30,27,23,18 teeth lightweight, close, roller V
10511.13.028.00	30,27,24,19 teeth lightweight, short, roller V
10511.13.028.01	30,26,22,17 teeth lightweight, inter., roller V

(3) CLUSTER GEAR, REV. AND V	
10200.13.301.01	33 teeth, std
10516.13.301.00	32 teeth, close
10532.13.301.01	32 teeth, lightweight, roller V, close
10511.13.301.00	31 teeth, lightweight, roller V, short
10511.13.301.01	32 teeth, lightweight, roller V, inter.

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GEARBOX



		RATIO
(4) MAIN DRIVES, DIRECT, IV GEAR		
105.00.13.021.00	23 teeth, Std.	
10532.13.021.00	23 teeth, Lightweight	
(5) GEARS, II SPEED		
10500.13.025.00	32 teeth, Std.	1.98
10516.13.025.00	30 teeth, Close	1.70–1.78
10532.13.025.01	30 teeth, Close Lightweight	1.70
10511.13.025.00	29 teeth, Short, Lightweight	1.57
10511.13.025.01	30 teeth, Inter., Lightweight	1.70–1.78
(6) GEARS, III SPEED		
10500.13.023.00	27 teeth, Std.	1.35
10516.13.023.00	26 teeth, Close	1.26
10516.13.023.01	26 teeth, Close Lightweight	1.26
10511.13.023.00	25 teeth, Short, Lightweight	1.21
10511.13.023.01	27 teeth, Inter., Lightweight	

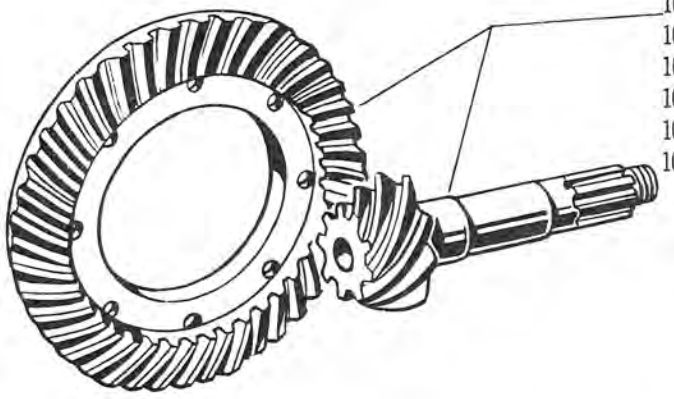
www.Duettoinfo.com For free distribution22 of 35.

DIFFERENTIAL

Complete rear axle unit available on special order with auto lock differential and/or any listed gear ratio. Prices on request.



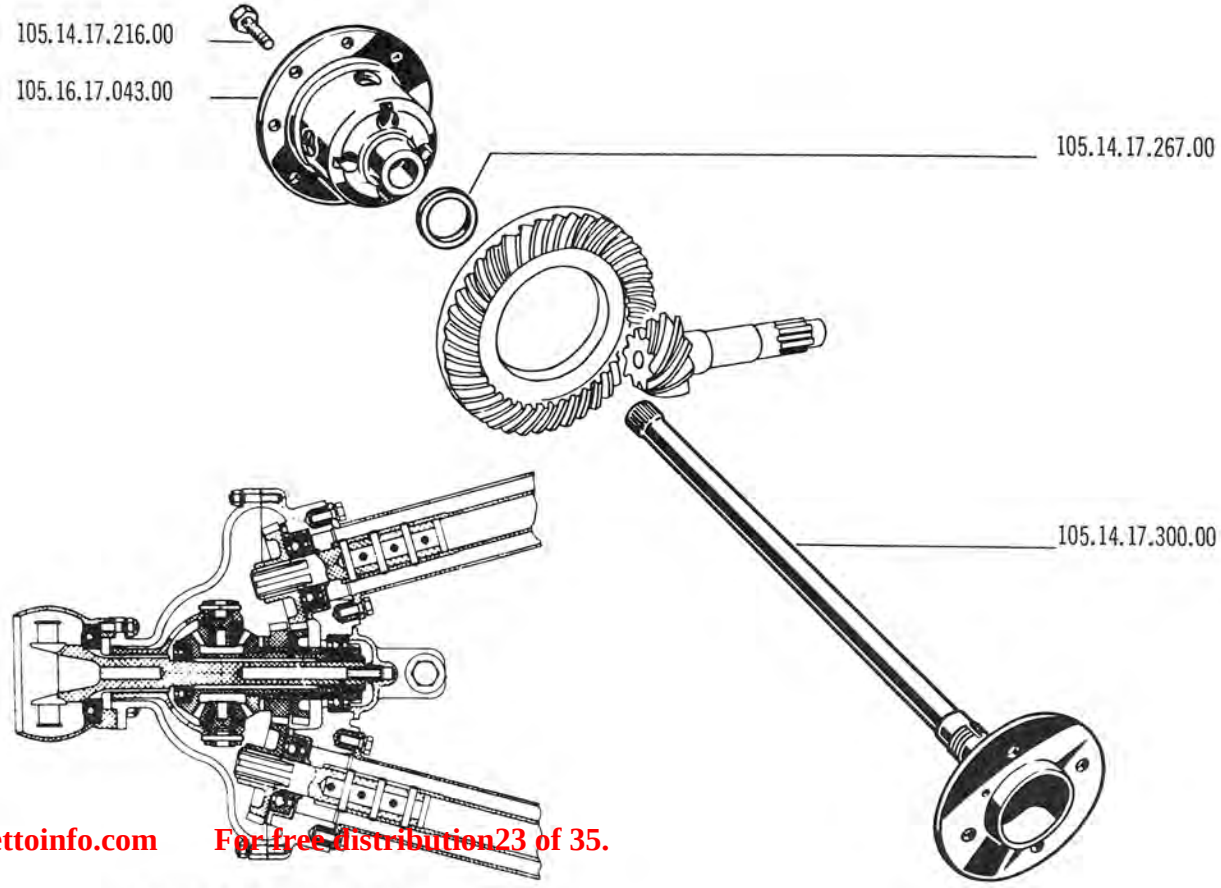
GEARSETS FOR 1600 REAR AXLER



		PINION	RING
10502.17.021.01	5.12	8	41
10500.17.021.03	4.56	9	41
10516.17.021.01	4.78	9	43
10514.17.021.01	4.10	10	41
10516.17.021.00	3.73	11	41
10532.17.021.00	4.56	9	41*
.01	4.78	9	43*
.02	4.10	10	41*
.03	5.85	7	41*
.04	5.37	8	43*
.05	3.91	11	43*

* Lightweight Ring & Hollow Pinion Racing Sets

Auto Lock Differential For All 1600 Rear Axles
Parts Necessary To Install Are Shown

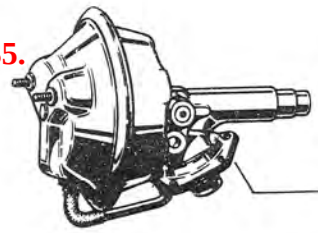


Differential 1932 Type B (P3)

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BRAKES—WHEELS

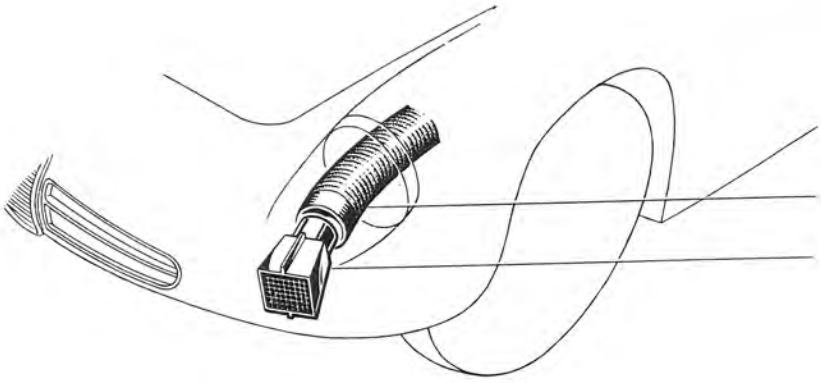


Servo for 105 Cars

105.14.45.022.02



DS II Pad Sets
for all Models



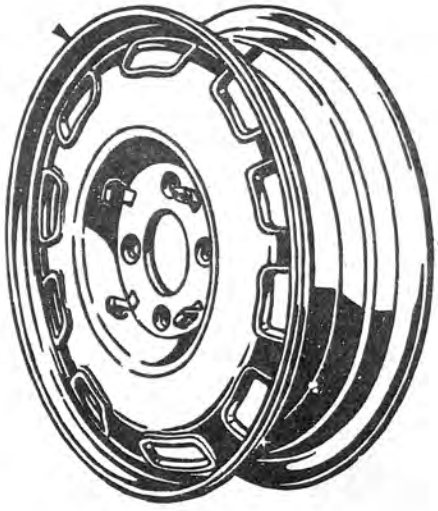
10532.54.167.99 Complete kit for 105 Cars

101.26.57.115.00 Hose 101 Cars

101.26.54.167.00 Inlet 101 Cars



10532.28.010.99 Alum 2 Pc. 7 x 14 Bolt on



CAMPAGNOLO WHEELS

10516.28.010.00	Mag. 4½ x 15 bolton
10510.28.010.04	Mag. 5 x 15 bolton
10516.28.010.02	Mag. 5½ x 15 bolton
10510.28.010.05	Mag. 6 x 15 bolton
10511.28.010.02	Mag. 5 x 15 knock on
10511.28.010.03	Mag. 5½ x 15 knock on

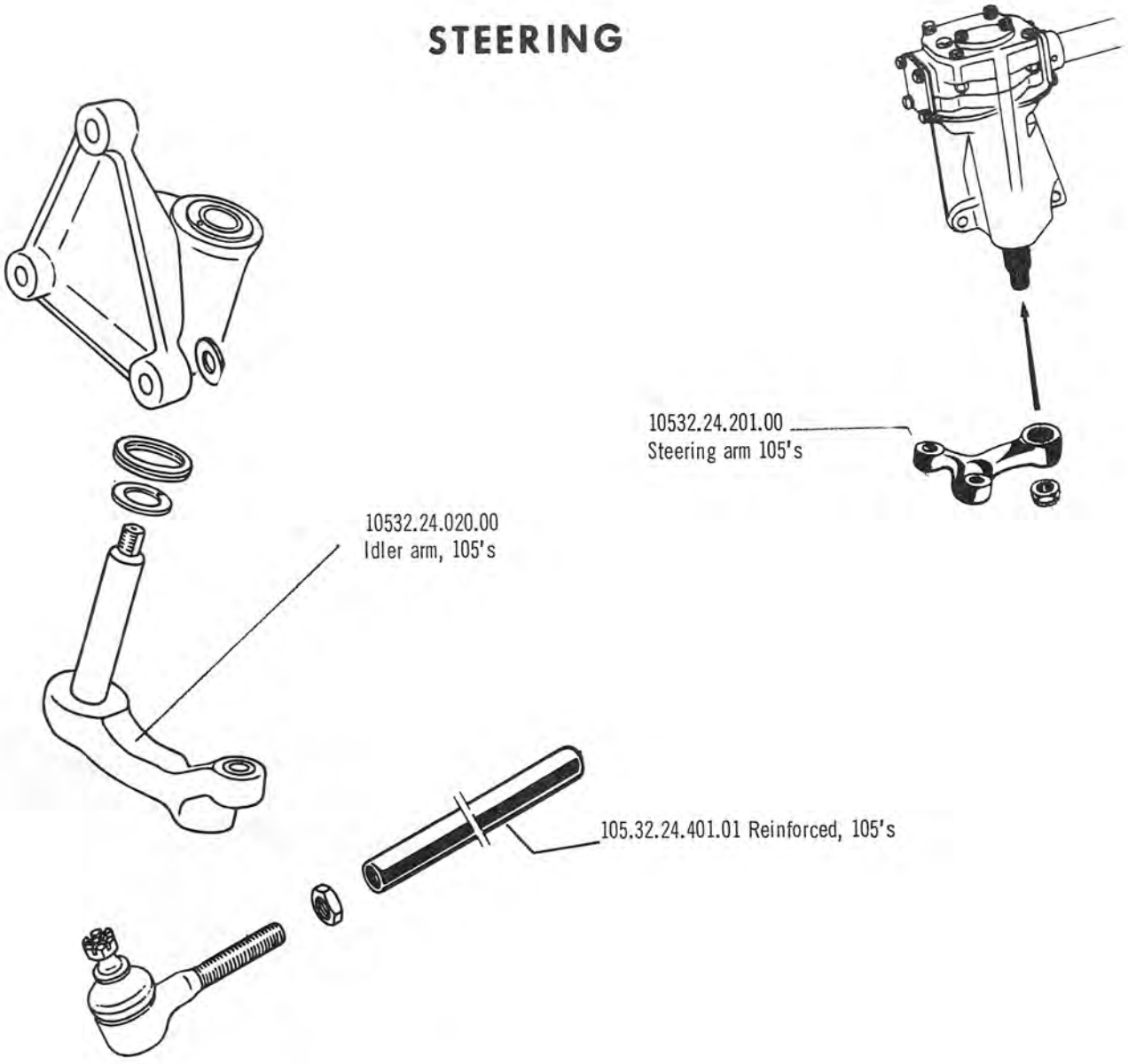


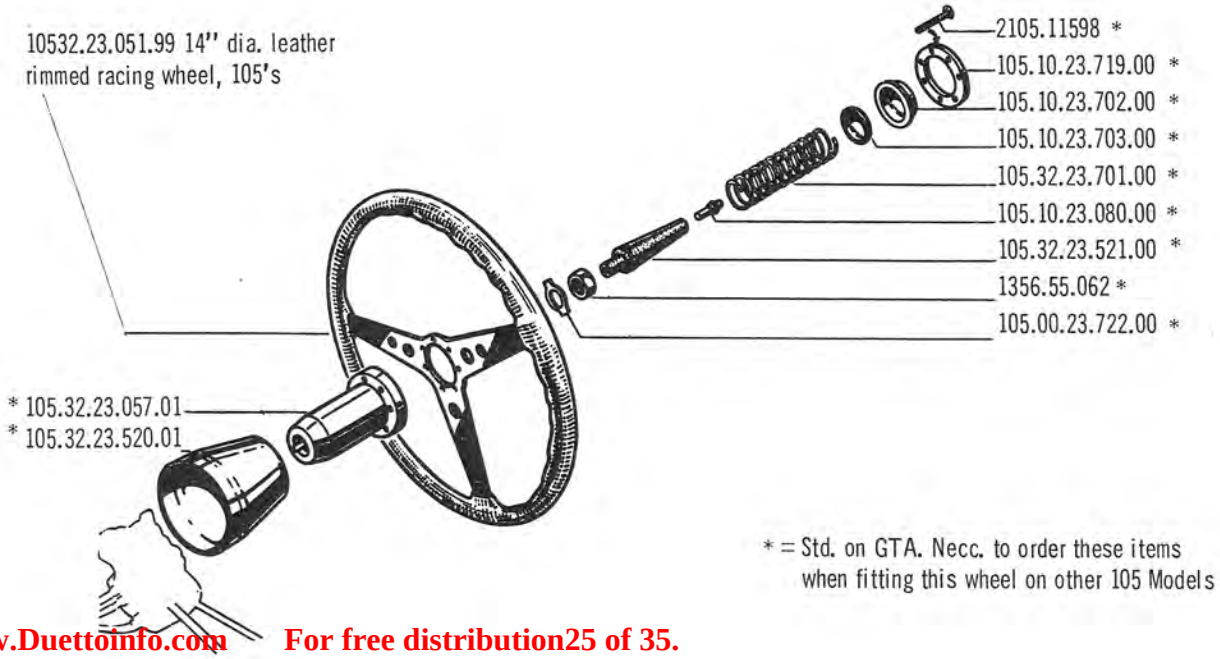
10532.28.010.01	Mag. 6 x 14 bolton
10532.28.010.02	Mag. 6½ x 14 bolton
10532.28.010.03	Mag. 7 x 14 bolton

1365.53.052 Wheel spacers 5 mm thick

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STEERING

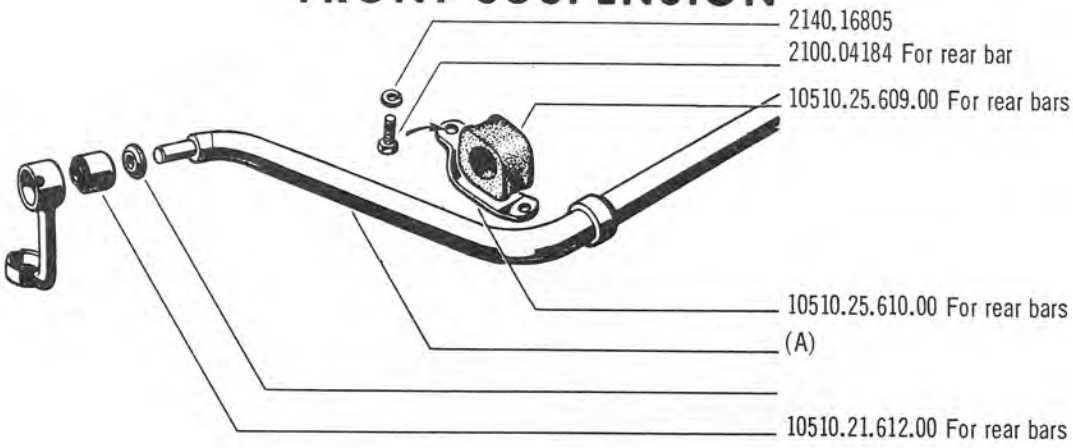




* = Std. on GTA. Necc. to order these items when fitting this wheel on other 105 Models

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FRONT SUSPENSION



(A) Stabilizer Bar, FNT	10500.21.505.00	24 mm STD. on 105, racing for GTA
Stabilizer Bar, FNT	10126.21.060.00	racing For 101 cars
Stabilizer Bar, Rear	10532.25.600.00	16 mm
Stabilizer Bar, Rear	.01	14 mm
Stabilizer Bar, Rear	.02	18 mm
Stabilizer Bar, Rear	.03	20 mm

(1) Links, Rear, 105 cars

10532.25.608.00

FRONT

105.32.21.505.00 Std. GTA
105.32.21.505.01 GTA racing
10516.21.505.01 Other 105
10126.21.505.00 All 101



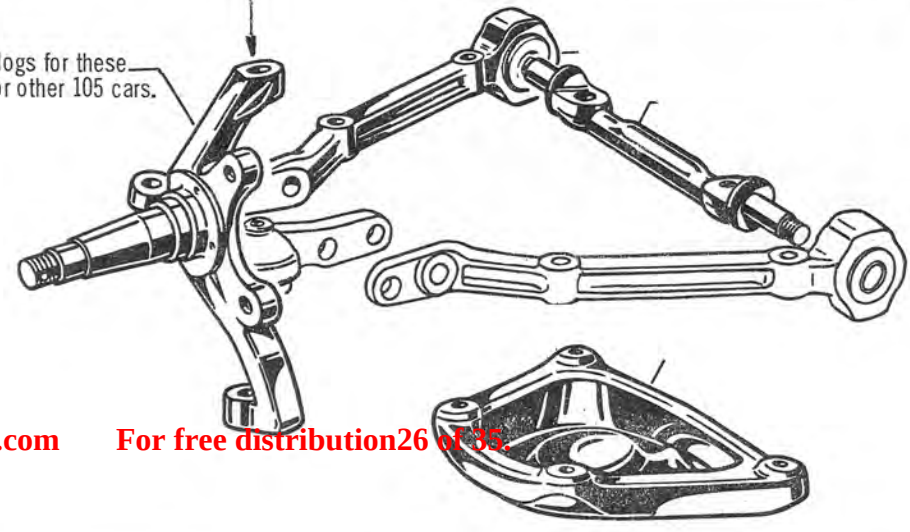
10532.21.118.00 Knuckle Extension Fits on here. See CAS for details

105.32.21.050.00 GTA
10532.21.050.01 racing

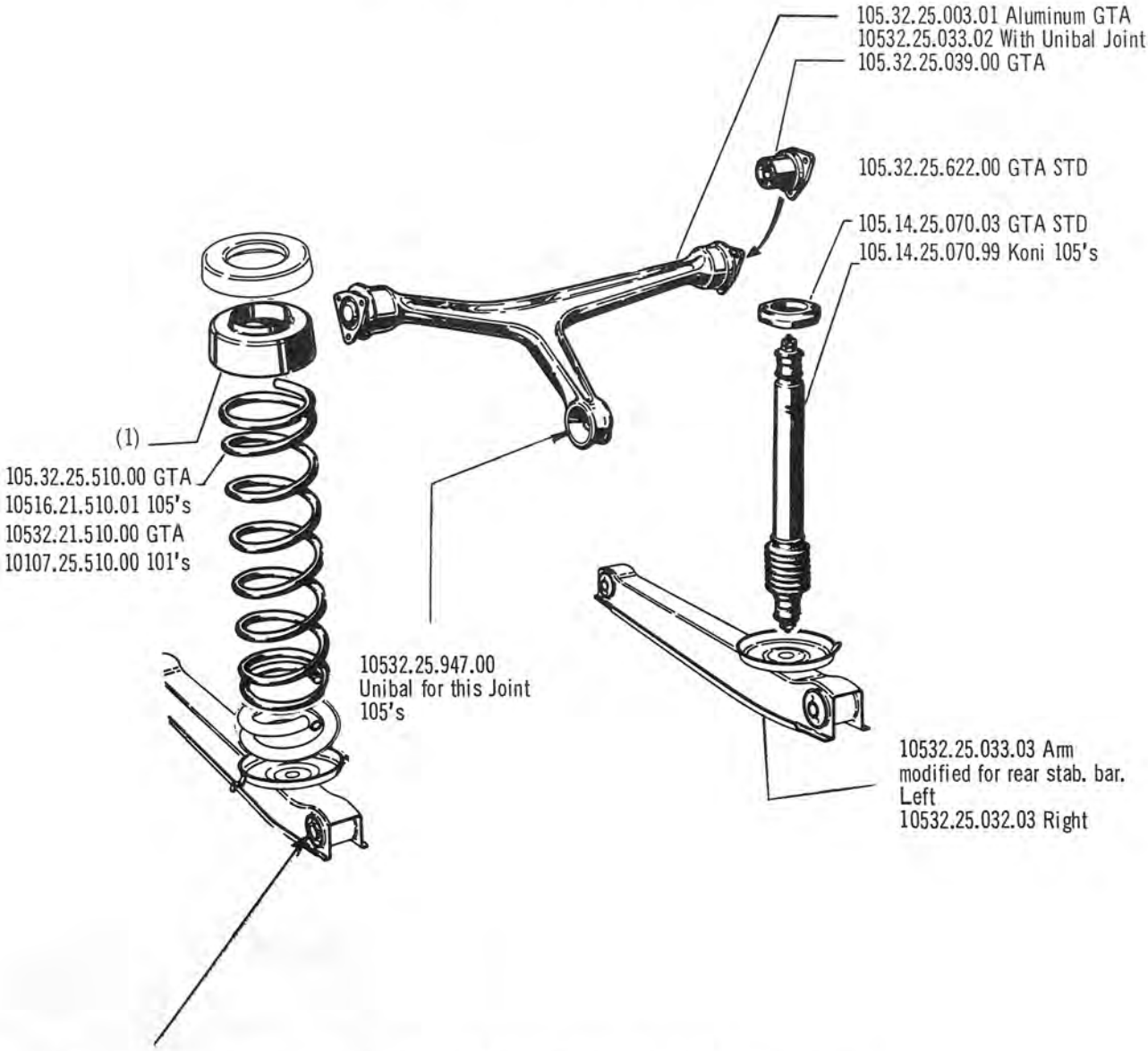


See Catalogs for Thicknesses Available

See GTA catalogs for these & Hub parts for other 105 cars.



REAR SUSPENSION



These Silentbloks replaced by spherical ball bearings, fore and aft, 105's only parts required are:

2 pcs "Unibal" bearings	SS16
2 pcs "Unibal" bearings	SS14
4 pcs Rubber mounting spacer	651.39.007
4 pcs Rubber mounting spacer	651.39.006
2 pcs Spacer for bearing	651.39.003
2 pcs Spacer for bearing	651.39.001
4 pcs Compression cones, small	651.39.002
4 pcs Compression cones, Large	651.39.004
4 pcs Cinclip, "Unibal" retainer	AA44i
4 pcs Cinclip, "Unibal" retainer	AA36i
2 pcs Cinclip, "Unibal" retainer	AA38i

See Suspension Section of C.A.S. for complete details for all 105's

REAR SUSPENSION

Special Parts for Special Rear Axle Locating System "CRB", Provides Lateral Axle Location and Lowers Rear Roll Center. Commonly Called "Sliding Block", 1St Series.

(not illustrated, see CAS Suspension Section)

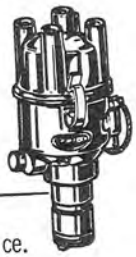
10532.25.800.00	Chassis crossmember
10532.25.801.00	Chassis crossmember pivot bolt
10532.25.802.00	Vee Truss
10532.25.803.00	Guide
10532.25.804.00	Cover for Guide opening
10532.25.805.00	Guide Thrust plates (2)
10532.25.806.00	Plate reinforcing
10532.25.807.00	Lockwasher for diff. stud
10532.25.808.00	Spacer
10532.25.809.00	Bronze sliding block
10532.25.810.00	Boots for "Unibal" joints (2)
10532.25.812.00	Screws for crossmember (6)
10532.25.813.00	Washer
10532.25.814.00	Reinforcement plate
10532.25.815.00	"Unibal" joint for torque rod (2)
10532.25.816.00	Stud in differential end (651.20.007)
10532.25.044.00	Torque rod
10532.25.088.00	Guide support, upper
2120.20074	Torque rod nuts, (2)

PHOTO RIGHT

Shows complete 2nd type of diff. housing complete. You can use this housing No. 10532.17.107.99 or modify your own using the parts above 10532.17.807.00, and 816.00

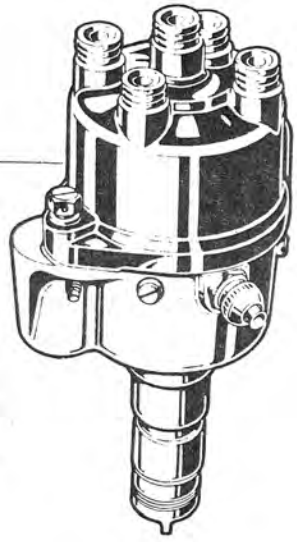


ELECTRICS

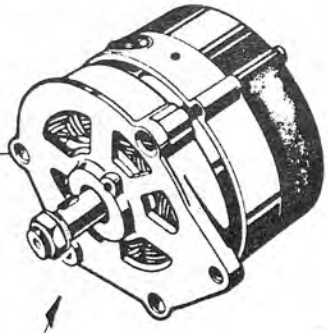


101.21.05.011.00
Std. Veloce Unit for Use in 105 cars without vacuum advance. Can be prepared

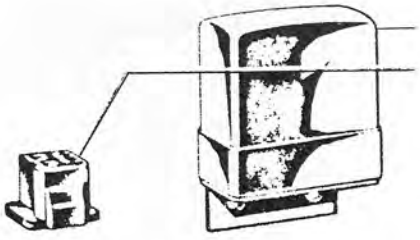
10502.05.011.01 For 1300 Junior, Marelli



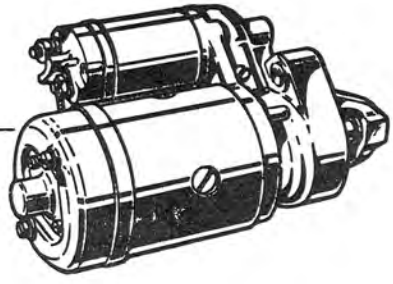
10511.05.011.00 For 105's
Single plug types. Bosch ZVB waterproof racing unit



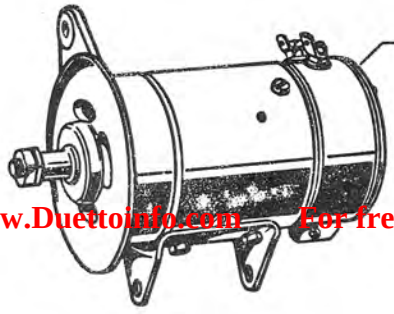
Alternator
106.00.05.061.00
All models



105.36.65.028.00 Regulator
105.36.65.170.00 Connector



105.32.05.030.01
Lightweight Prepared

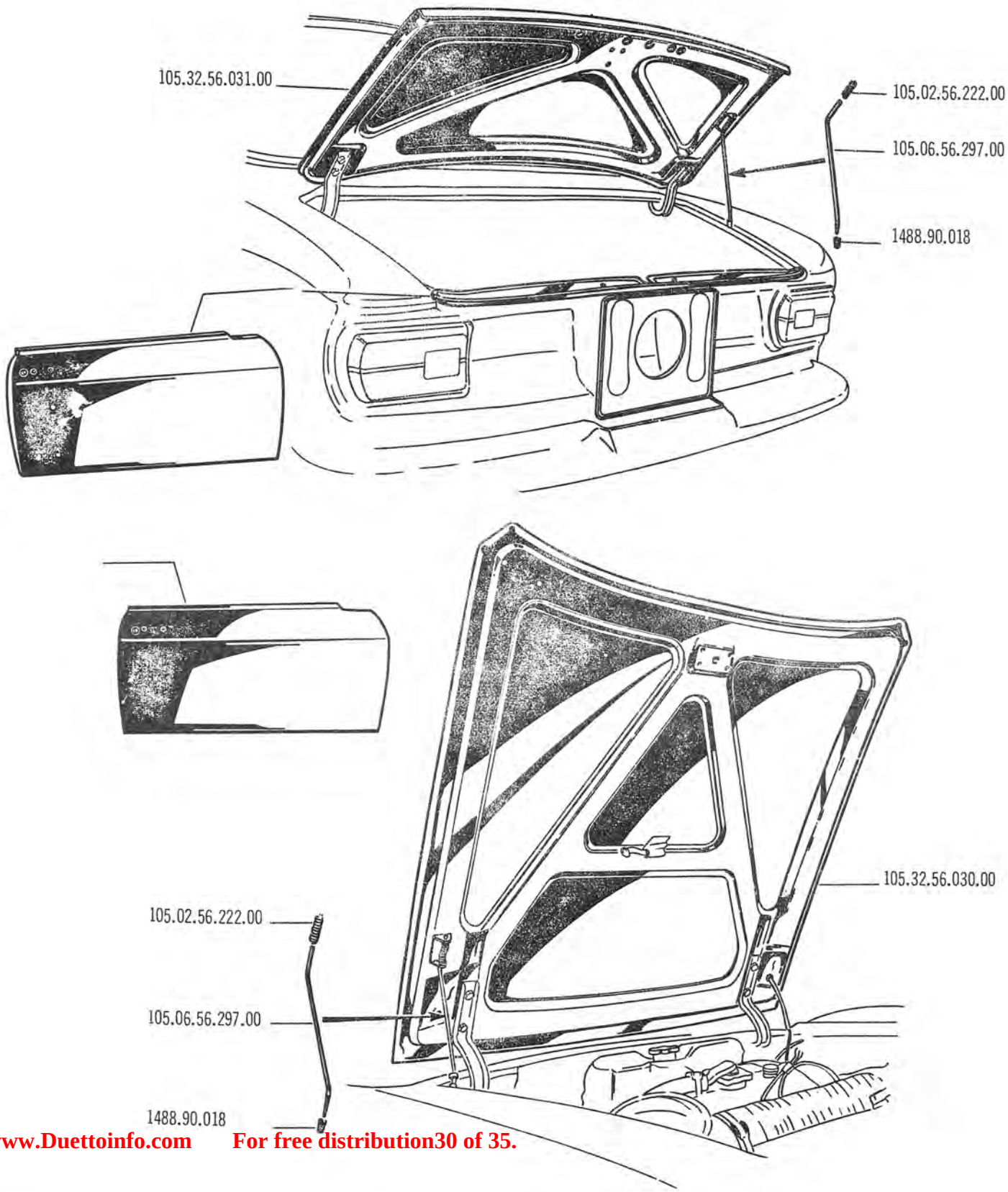


105.32.05.050.00
Lightweight, Prepared

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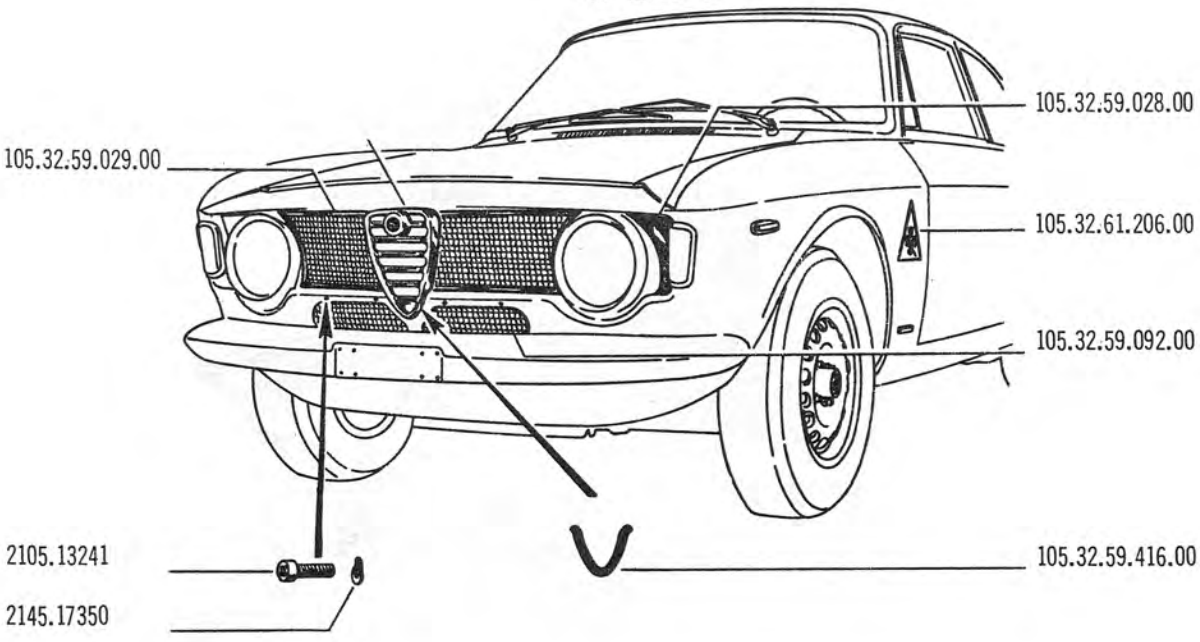
BODY

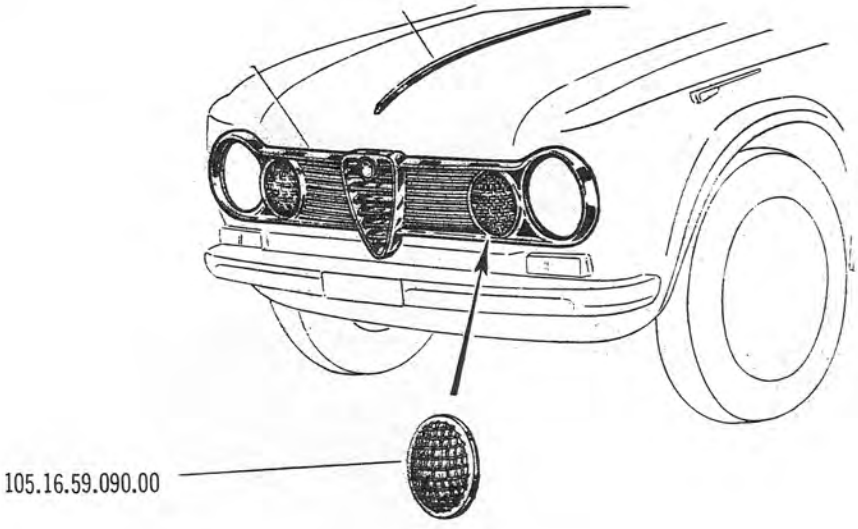
ALUMINUM GTA BODY PANELS
FOR GT, GTC, GTV, JUNIOR



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BODY





Screens can be used for cooling air on T.I and Super Sedans.



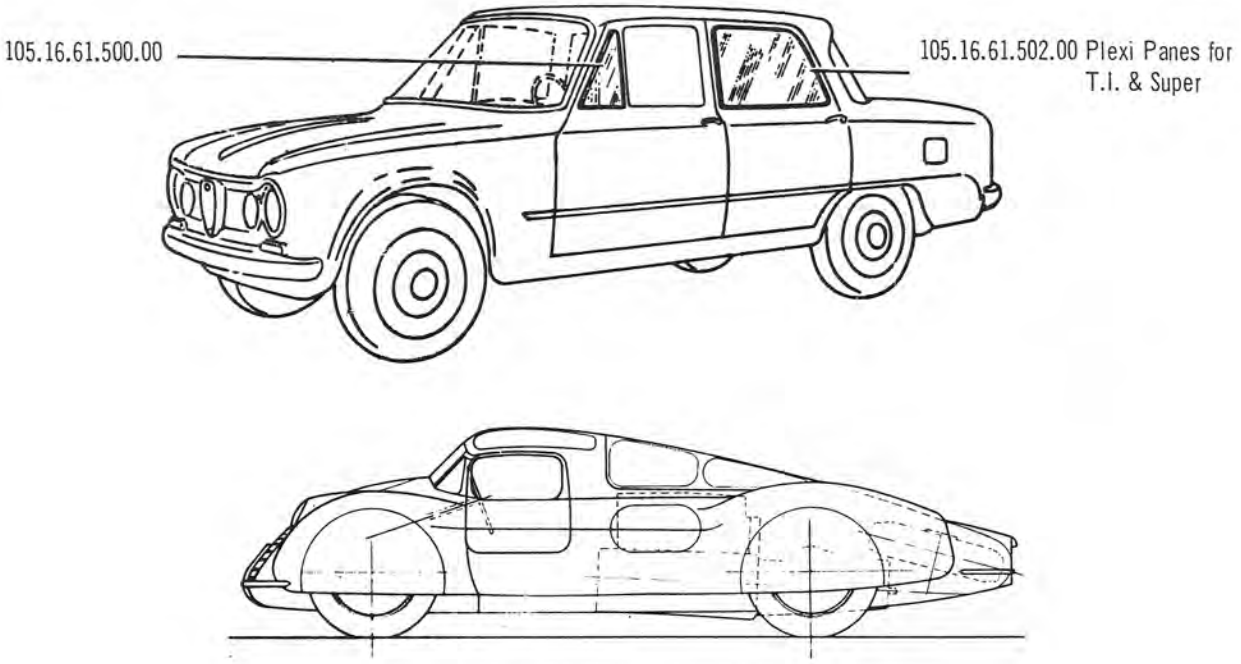
Rear Fender Extensions for GTA
Fastens with 22 rivets. Increases rear overall width to 61.5" at section thru rear wheels.

Part No.'s 10532.54.004.00 Left
10532.54.005.00 Right

F.I.A. Homol. 1395 D/V July 1, 1967 Group 2

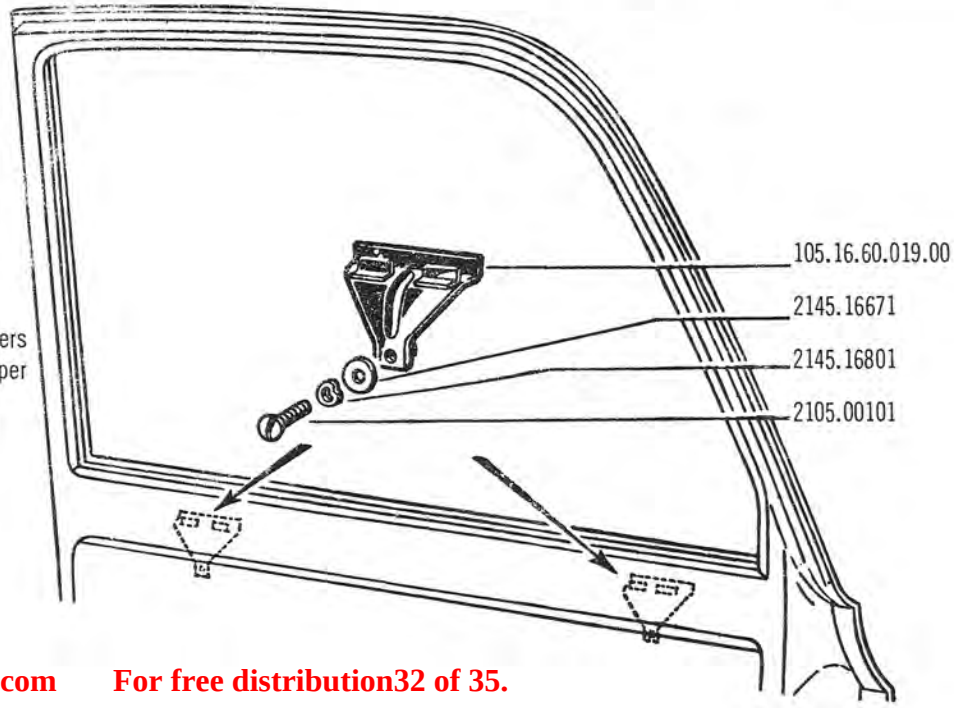
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BODY

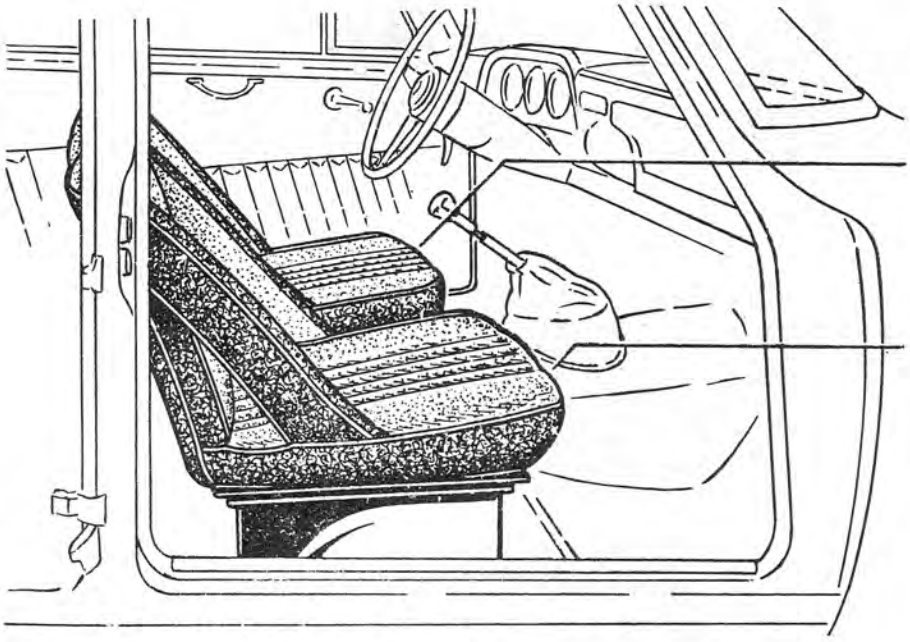


1941 TYPE 163 (PROTOTYPE)

1	105.32.61.502.10	PLEXIGLAS, door window	Original on GTA, can be used on GT, GTV
	105.32.61.508.10	WEATHERSTRIP, door window	
		PANE, vent window:	
	105.32.61.051.00	– L.H.	
2	105.32.61.052.00	– R.H.	
	105.32.61.503.00	PLEXIGLAS, quarter windwo	



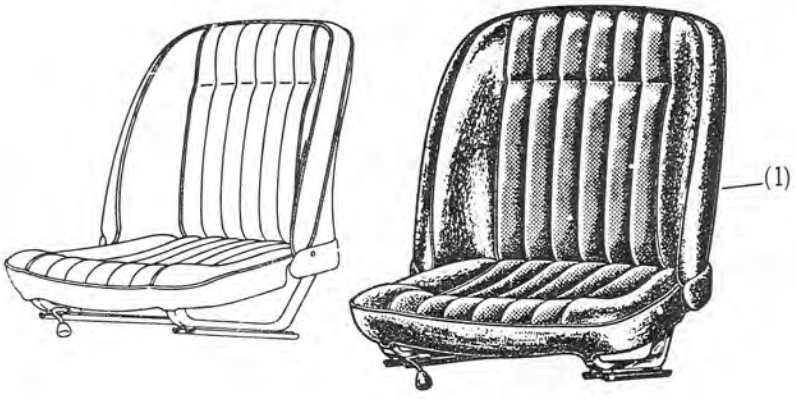
BODY



T.I. Super Seats, Cloth Price on Request

105.16.58.001.00

105.16.58.002.00



(1)

SEATS GTA

Available in STD, GTA Type or in racing version with lightweight shells & wrapa-round.
Prices on request.

OTHER BODY ITEMS

10532.08.205.00 Air Inlet scoop for dynamic air box, GTA, GT, GTV

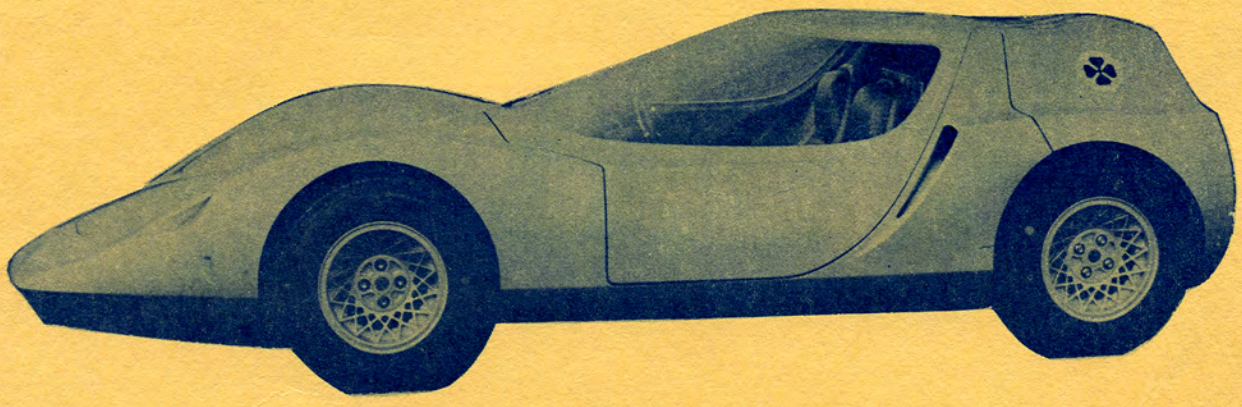
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THIS CATALOG IS APPLICABLE TO THE FOLLOWING GIULIA SERIES, MODELS 101 & 105. MODEL NO'S ARE LOCATED ON METAL FIREWALL MODEL I.D. PLATE.

MODEL NO.	MODEL NAME	NOTE
101.12	GIULIA SPRINT 1600	
101.18	GIULIA SPIDER VELOCE	
101.23	GIULIA SPIDER	
101.21	GIULIA S.S.	
105.02	GIULIA SPRINT GT	
105.02A	GIULIA SPRINT GTA	
105.03	GIULIA SPIDER DUETTO	
105.06	GIULIA 1300	1.
105.08	GIULIA T.I.	
105.11	GIULIA T.Z.	
105.14	GIULIA T.I.	
105.16	GIULIA T.I. SUPER	
105.26	GIULIA SUPER	
105.30	GIULIA 1300 G.T. JUNIOR	1.
105.32	GIULIA SPRINT GTA	
105.33	TYPE 33 SPORTS	
105.36	GIULIA SPRINT GTV	
105.39	GIULIA 1300 T.I.	1.
	GIULIETTA SERIES	2.

1. USES SAME CHASSIS PARTS AS ITS 1600 COUNTERPART, 105 MODELS

2. LATE SERIES GIULIETTA 101 MODELS CAN USE SAME CHASSIS PARTS AS 1600 101 MODELS



1966 OSSI PROTOTYPE

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