Axle disassembling/assembling **STEERING** ●WHEEL CAP WRENCH Wheel removal **•ALUMINUM WHEEL CENTER CAP WRENCH** 1)Wheel cap P.217 removal **OIMPACT WHEEL NUT SOCKET CROSS RIM OTHER TOOLS** ②Wheel nut **WRENCH** FOR IMPACT WRENCH **WRENCH** removal **OLOCK NUT CHISEL OSOCKET OTHER TOOLS** Hub nut removal P.205 Disc caliper SOCKET **OTHER TOOLS** removal OFFSET **OSPINNER** Tie-rod separation TIE-ROD END BALL JOINT **WRENCH SEPARATOR HANDLE SEPARATOR** P.204 P.204 Removing the axle PLASTIC HAMMER



Snap ring removal



No.	D	Т	L	▼g	#	
AS307	58.5	18.2	228	310	5	

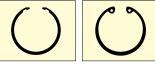
Usage

Installing and removing the snap ring used in the hubs of vehicles.

- The open range of the mouth of the snap ring pliers is min. 10mm~max. 36mm Characteristics
- Employs a non-stepped, automatic locking device. Can be locked to the desired position. The lock can be released easily from the handle.
- Only the claw can be easily replaced.
 All models, except the hole fitted snap ring type, can deal with notched type rings designed for certain models (Toyota)

Replacement parts: Pointed claws

•	•	
No.	Contents	
AS3072	Claw R/L 1,	
	Installation screws 2	
	!	



Removal/installation of the axle assy.



●Multi puller

No. AS301	▼ kg 17	
Center bolt assy	Hexagonal 2 faced 22mm width × length 280mm (M18 × 2.0)	1
Hanger	270 × 38 × 37 mm	1
Slide arm	60.5 × 30 × 20 mm	1
Arm M	φ16×105 mm	2
Hub plate	φ154 × 24 mm (Screw: M18 × 2.0, 1/2"sq. inc.)	1
Hub holder 1 assy.	ϕ 70 × 34 mm(Wing bolt (M6) inc.)	1
Hub holder 2 assy.	190/190 mm(Hexagonal adjustment bolt (M10) with hole inc.)	1
Race shaft	ϕ 55 × 114 mm(Screw: M18 × 2.0)	1
Plate (4 types)	A(ϕ 79 × 15) B(ϕ 71 × 15) C(ϕ 67 × 15) D(ϕ 60 × 15) 1 ea	ach
Hanger assy. for press	$150 \times 50 \times 25$ mm(Hexagonal bolt (M10) + washer inc.)	1
Press arm	φ16×75×35 mm	2
Hanger nut	ϕ 45 × 18mm(Screw: M18 × 2.0)	1
Race holder assy.	90 × 140 mm(Hexagonal adjustment bolt (M10) with hole inc.)	1
Plate bolt	Hexagonal 2 faced 22mm width × length 34mm (M18 × 2.0)	1
Arm L	φ16×330 mm	2
Claw	27 × 25 × 12 mm	2
M8 Bolt	Bolts with hexagonal holes (with washer) × 100 mm	2
M10 Bolt	M10 hexagonal bolt with hole for M10 (with washer) × 100 mm	2

•MULTI PULLER

All axles can be disassembled and assembled with this set.

Usage

 An exclusive tool designed for vehicle axle assembling/disassembling, steering wheel diffcompanion flange mission bearing & gear removal, and also a range of bearing & gear removal.

Axle	Dismantling and fitting hubs and knuckles
	Dismantling and fitting the bearing race
	Dismantling and fitting of wheel bearings
Steering	Removing the steering wheel
Differential	Removing the companion flange
Transmission	Removing bearings and gears
Others	Removing various types of bearings and gears

Application

- Mainly used for the axles of light to normal FF vehicles
- Applicable for steering wheels, diff-companion flanges, transmission bearings and gears in light to normal

Maximum weight when in use	19,600 N (2 t)
Hub bolts	4~5 Holes
Wheel bearing diameter	φ64~ φ84
Bearing race diameter	φ47~ φ63
Hub holder 1	φ68~84 mm
Hub holder 2	φ76~106 mm

Characteristics

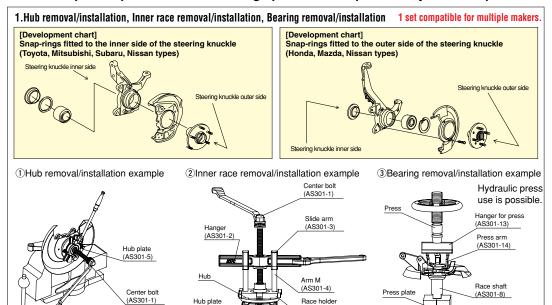
- . The axle can be dismantled and refitted using 1 set.
- Is applicable for hub bearings that are attached to either the inner or outer sides
- A hydraulic press can be used making operations both easy and fast.
- . The removal/installation of the arms is carried out by a one-touch set ball type system.

 The center bolt is fitted with a bearing, which makes for
- a light drive torque
- Is applicable to FR and 4WD rear vehicles, as well as · Has a varied use on the steering wheel, differential
- companion flange, transmission bearing and gearing, as well as the axle.
- . Is possible for use on the removal of other bearings and gearing from other devices because of interchangeable

Replacement parts are available.

Check with your dealer for details.

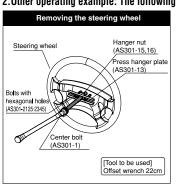
●Ex. Multi puller operation: The following operations are possible by the multi puller.

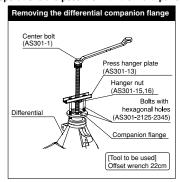


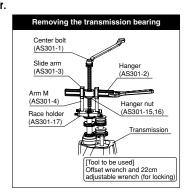
Removal/installation of the axle assy.

2.Other operating example: The following operations are possible with the multi puller.

(AS301-5)







Replacement parts

Center bolt assy.	No. AS301-1
	Quantity 1
(11111111111111111111111111111111111111	M18 × 2 screws, Full length : 280mm, Hexagonal 2-faced width: 22mm
Hanger	No. AS301-2
	Quantity 1
	270 × 38 × 37mm
Slide arm	No. AS301-3
	Quantity 2
	61 × 30 × 20mm
Arm M	No. AS301-4
	Quantity 2
	φ 16 × 105mm
Hub plate	No. AS301-5
LZ.	Quantity 1
FØ5	Insertion angle 1/2"sq. M18 × 2Screw, \$\phi\$154 × 24mm
Hub holder 1 assy.	No. AS301-6
	Quantity 1
	φ 70 × 34mm, Wing bolt M6 included
Hub holder 2 assy.	No. AS301-7
7	Quantity 1
	190 × 190mm, M10 hex hole bolt (hex nut) included

Race shaft	No. AS301-8	Press arm	No. AS301-14
	Quantity 1		Quantity 2
	M18 × 2 Screw, \$\phi 55 × 114mm	₽	16 × 75 × 35mm
Plate A	No. AS301-9	Hanger nut	No. AS301-15
	Quantity 1		Quantity 1
	φ79×15		M18 × 2 Screw, φ45 × 18mm
Plate B	No. AS301-10	Hex hole bolt	No. AS301-16
	Quantity 1	for the hanger nut	Quantity 2
	φ71 × 15		M5 × 10mm
Plate C	No. AS301-11	Race holder assy.	No. AS301-17
	Quantity 1	-1	Quantity 1
(2)	φ67×15		90 × 140mm, M10 hex hole bolt (hex nut) included
Plate D	No. AS301-12	Plate bolt	No. AS301-18
	Quantity 1		Quantity 1
	φ 60 × 15mm		M18 × 2 screws, Full length: 34mm, Hexagonal 2-faced width: 22mm
Hanger assy.	No. AS301-13	Arm L	No. AS301-19
for pressing	Quantity 1		Quantity 2
	150 × 64 × 31 mm, M10 hex bolt (washer) included		φ 16 × 330mm
		Claw assy.	No. AS301-20
			Quantity 2
			27 × 25 × 12mm

Bolt set for M8	No. AS301-2125		
	Quantity 2		
	M8 hex hole bolt full length 100mm		
Bolt set for M10	No. AS301-2345		
	Quantity 2		
	M10 hex hole bolt full length 100mm		

The equipping of the axle assy. to the chassis

•IMPACT WRENCH

●WHEEL NUT **SOCKET FOR** IMPACT WRENCH **OTHER TOOLS**

TORQUE WRENCH **SET FOR THE WHEEL** NUT

Attaching the wheel



1) Attaching the wheel nut (2) Checking torque