

## Labour time allowance chart for warranty repair work



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## 1. General information

Procedures, which are not included in this labour time allowance catalogue, must be justified and prior authorisation given by SAF-HOLLAND Service department before any repair work is carried out.

### Service Report

In the event of damage, always first complete the SAF-HOLLAND Service Report: available over the Internet:

[www.safholland.com](http://www.safholland.com)

SAF-HOLLAND Service Report must be completed fully and accurately (in particular the figures from the axle type plate, i.e. the serial number is absolutely necessary):

### Type plate

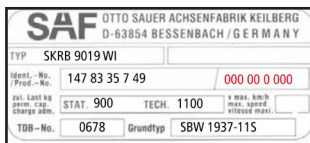


Fig. 1: Until mid-2004



Fig. 2: From mid-2004



Fig. 3: Type plate absent

All labour time allowances are continuously updated according to technical demands. The updates are available under:

[www.safholland.com](http://www.safholland.com)

### Axle types

The labour time allowance packages refer to following axle types:

#### Disc brake:

SK RB 9019 / 9022 INTEGRAL, BI9-19K, BI9-19K, BIL9-19K, SI9-19K, ZI9-19K, ZI11-19K, BI9-19W, BI9-19W, BIL9-19W, SI9-19W, ZI9-19W, BI9-22K01, BA9-22K01, BIL9-22K01, SI9-22K01, SI11-22K01, ZI9-22K01, ZI11-22K01, BI9-22W, BIL9-22W, SI9-22W, SI11-22W, ZI9-22W, ZI11-22W

#### Drum brake:

SK RS 9030 / 9037 / 9042, SK RZ 9030 / 9037 / 9042, Z9-3020, ZL9-3020, Z11-3020, ZL11-3020, S9-3718, SL9-3718, Z9-3720, ZL9-3720, Z11-3720, ZL11-3720, S9-4218, SL9-4218, S11-4220, SL11-4220, SZL11-4220, Z9-4218, ZL9-4218, Z11-4220, ZL11-4220

## 2. Warranty Claim Administration time (handling costs)

Material		Minutes
S10001	Administration time allowance for handling the warranty claim processing and the claim acceptance for SAF-HOLLAND-Service-Partner	45
S10002	Administration time allowance for handling the warranty claim processing and the claim acceptance without inspection of claimed warranty parts for SAF-HOLLAND Subsidiary / National agent	15
S10003	Administration time allowance for handling the warranty claim processing and the claim acceptance with inspection of claimed warranty parts for SAF-HOLLAND Subsidiary / National agent	30
S10010	Additional costs (must be separately quoted in the invoice)	at cost
S10011	Labour time for road side assistance	at cost
S10012	Travelling kilometers for road side assistance	at cost
S11101	Vehicle preparation time, once-only per vehicle including - Vehicle brought into work place - Vehicle secured in accordance with standard safety working practices - If necessary axle jacked up	20

## 3. Cross components labour time

Material		Minutes
S11102	Check braking effect on the brake test bench	15
S20301	1 Wheel remove and refit	10
S30302	1 Twin wheels remove and refit	15
S20304	10 wheel bolts remove, replace and refit. The hub unit is dismantled	20
S20305	1 ABS Sensor remove, replace, refit and adjust	15
S20307	1 Complete axle remove and refit - Fit brake chambers, shock absorbers, air bags and wheels - Adjust axle alignment - Adjust running clearance of pads - Fit and adjust ABS-Sensor	210
S20308	1 Axle beam remove and refit - Fit hub unit, brake discs, brake callipers, brake chambers, shock absorbers, air bags and wheels - Set axle alignment - Adjust running clearance of pads - Fit and adjust ABS-Sensor	280
S20309	1 Air bag remove, replace and refit	30
S20310	1 Shock absorber remove, replace and refit	15
S20311	1 Lift air bag remove, replace and refit	20
S20312	1 Lift arm assembly including lift air bag remove, replace and refit (incl. spring bearing assembly remove and refit)	30
S20313	HD-Bush or 3-D-bearing bush remove, replace and refit	60
S20314	Trailing arm (MODUL suspension) remove, replace and refit	80
S20315	Axle alignment check	60
S20316	Each further axle alignment check	30

Material		Minutes
S20317	1 Self-steering knuckle remove, replace and refit. The axle and brake are dismantled. Steering pivot BIL / Steering screw BILL remove and refit Bush remove, replace and refit Self-steering knuckle clean, check and grease	120
S20318	Stabilising damper for self-steering axle remove and refit	10
S20319	Locking cylinder for self-steering axle remove and refit	10
S20320	EBS / ABS memory print out diagnostics report	10

## 4. Labour time brakes

### 4.1 Disc brake

Material		Minutes
S20201	1 side Pads – remove, replace and refit - Release parking brake - Remove and refit wheel - Release brake calliper on adjuster screw - Remove pads/Refit new pads - Check brake calliper for free sliding movement - Check rubber boots - Adjust running clearance of pads	20
S20202	1 Brake calliper – remove, replace and refit - Release parking brake - Remove and refit wheel - Release brake calliper on adjuster screw - Remove and refit pads - Remove and refit brake chamber - Remove and refit new brake calliper - Adjust running clearance of pads	45
S20203	1 Hub Unit or 1 brake disc and 1 brake calliper – remove, replace and refit - Release parking brake - Remove and refit wheel - Release brake calliper on adjuster screw - Remove and refit pads - Remove and refit brake chamber - Remove and refit brake calliper - Remove and refit hub cap - Remove and refit axle nut - Remove and refit hub unit including brake disc - Disassemble and assemble hub unit and brake disc - Clean axle stub and apply fresh fitting paste - Adjust running clearance of pads - Adjust ABS-Sensor	70
S20303	1 Parking brake or standard brake chamber remove, replace and refit	10
S20306	1 Brake calliper overhaul. Brake calliper is removed from axle. - Remove, replace and refit thrust pieces, guide pins, bushes, seals and rubber boots	80

## 4.2 Drum brake

Material		Minutes
S40206	1 Hub and 1 brake drum remove and refit, with mounted wheel, inspect the brake on one side of the wheel - Release parking brake - Release brake shoes by resetting the slack adjuster - Remove and refit hub cap - Remove and refit axle nut - Remove and refit hub with brake drum and wheel - Clean axle stub and apply fresh fitting paste - Adjust the hub bearing running clearance as necessary - Adjust running clearance of brake linings	20
S40207	1 Hub, 1 brake drum, brake shoes and brake linings - remove, replace and refit - Wheel / twin wheels remove and refit - Release parking brake - Release brake shoes by resetting the slack adjuster - Remove and refit hub cap - Remove and refit axle nut - Remove and refit hub and brake drum - Remove and refit brake shoes - Remove, replace and refit brake linings - Clean brake shoes / lining mating surfaces and cover with corrosion inhibitor - Check and replace camshaft bearings as necessary (for additional labour time allowance see below) - Apply copper paste to the brake shoe anchors and cam roller journals - Remove, replace and refit brake drum from hub or machine the brake drum radius (for additional labour time allowance see below) - Replace shoe return spring and shoe retaining clamp - Machine new brake lining surface to brake drum diameter - Check, re-grease and replace hub bearing as necessary (for additional labour time allowance see below) - Clean and apply fitting paste to axle stub - Adjust the hub bearing clearance as necessary - Adjust running clearance of brake linings - Adjust ABS-Sensor	70
S40322	1 Camshaft inclusive bushing remove, replace and refit - The brake drums and shoes are dismantled - Remove and refit slack adjuster	20
S40323	1 Hub or 1 set hub bearings remove, replace and refit. The hub is dismantled.	20
S40324	1 Brake drum radius machined	10
S40325	1 Parking brake / standard brake chamber remove, replace and refit	15
S40326	1 Slack adjuster remove, replace and refit	10

## 5. Fifth wheel and slider

Material		Minutes
S81000	Top plate replacement models F...	15
S81001	Bracket replacement, stationary (ISO)	80
S81002	Bracket replacement, weightsaver mount	80
S81003	Top plate rebuilt: F17E, FW17EK	75
S81004	Top plate rebuilt: FW3510, FW3110	105
S81005	Top plate rebuilt: FW0E70	150

Material		Minutes
S81006	Lock replacement: F17E,FW17EK	30
S81007	Lock replacement:FW3510, FW3110	45
S81008	Lock replacement:FW0E70	75
S81009	Lube plate replacement	20
S81010	Air cylinder replacement:	15
S81011	Top Plate - Replacement-models SK..	15
S81012	Bracket replacement:SK-S 36.20,compl.fam.	80
S81013	Top plate rebuilt: Model SK-HD 38.36	75
S81014	Lock replacement:SK-S 36.20,compl.Fam.	30
S81015	Lock replacement:SK-HD 38.36	30
S87002	Sensor system complete replacement	90
S84000	replacement Typ SK-V 36	60
S84001	Bracket replacement,slide ILS,SK-V 20	60

## 6. Landing gear

Material		Minutes
S82000	Landing gear set replacement	120
S82001	Replacement of 1 landing leg	60
S82002	Replacement of 1 landing gear shoe	20

## 7. King pin

Material		Minutes
S83000	Kingpin replacement	20

## 8. Ball race

Material		Minuten
S85000	Ball race replacement - Air and electrical cables remove and refit - Ball race remove and refit	240



## Notes



## Customer Information

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