BOSCH

# Professional HEAVY DUTY

## GNH 18V-64 MD




**Robert Bosch Power Tools GmbH**
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GERMANY

**www.bosch-pt.com**

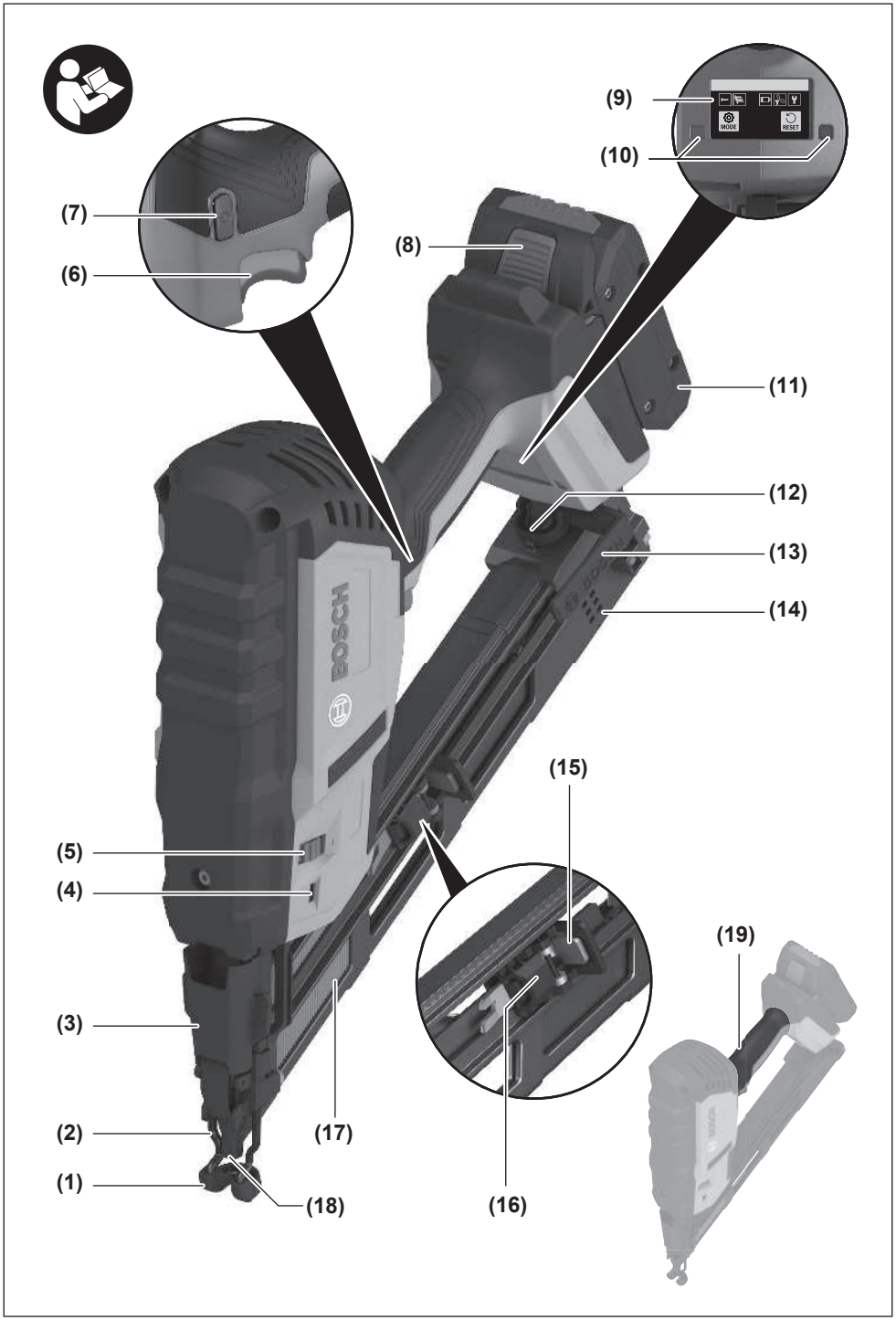
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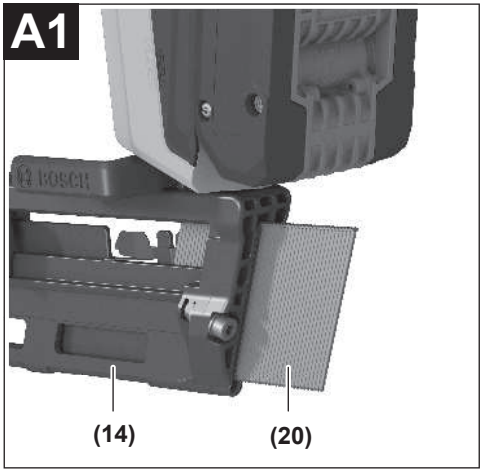
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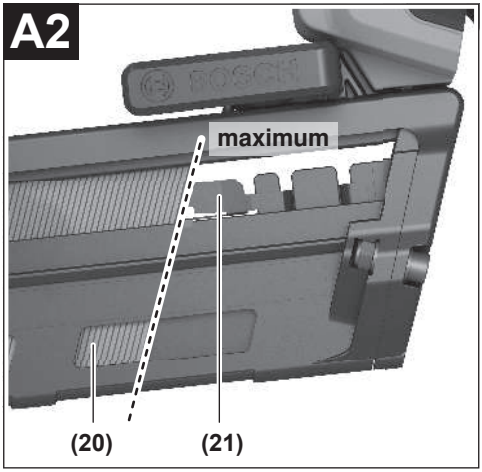
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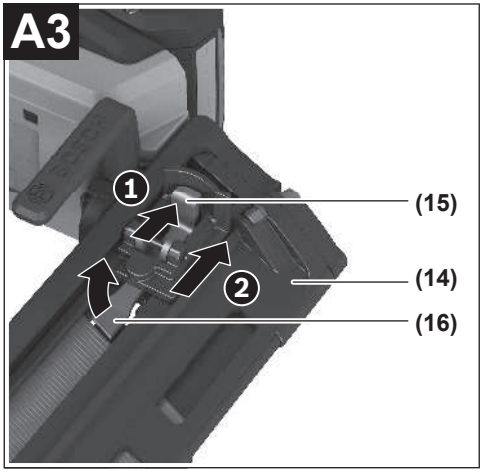
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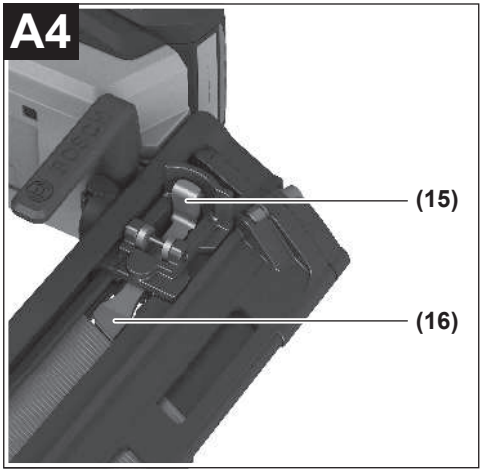
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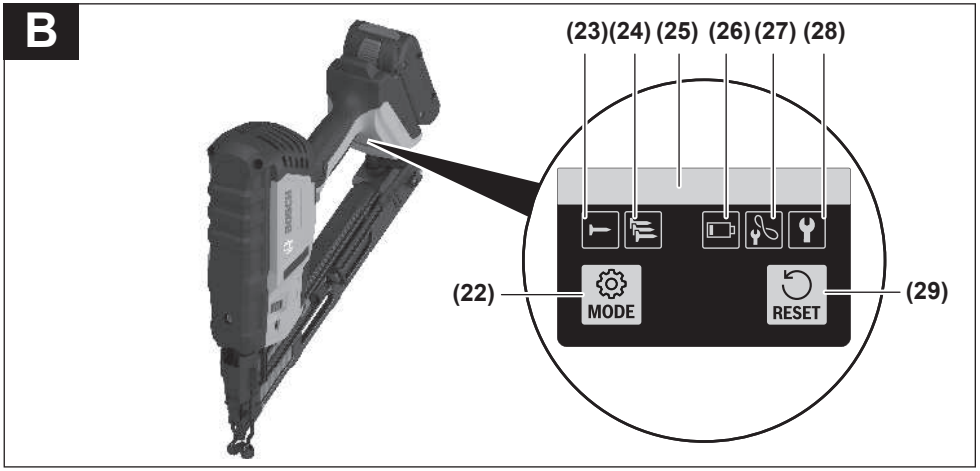

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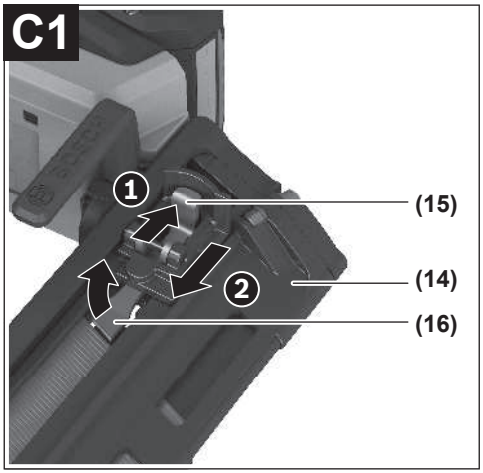

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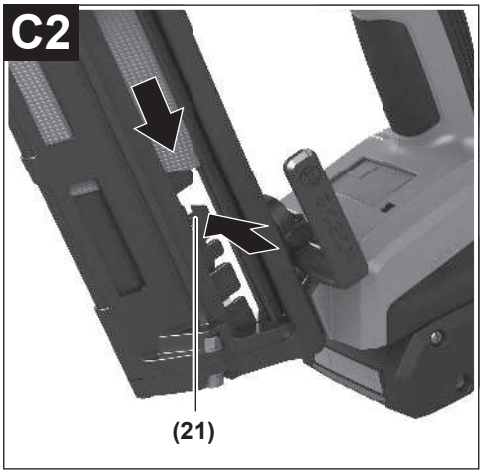

A2
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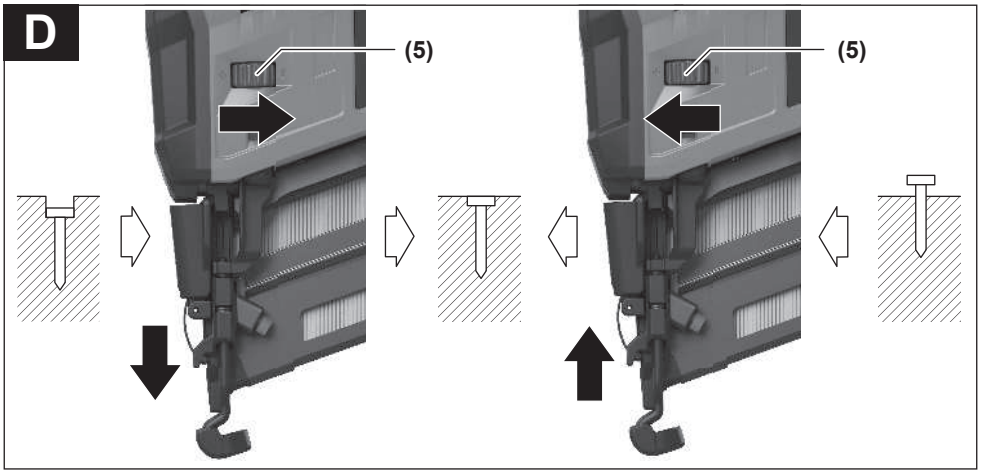

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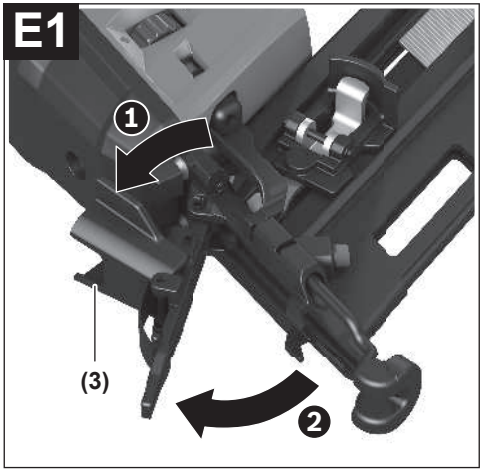

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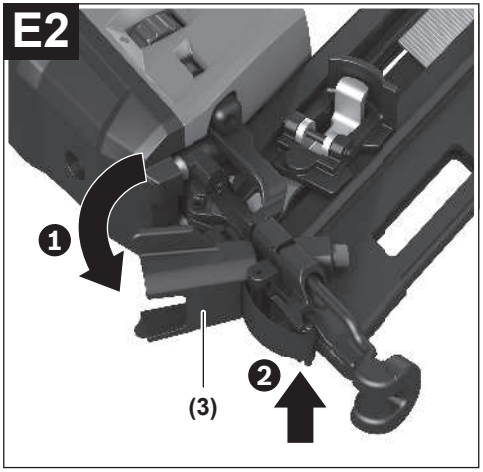

B
(23)(24)(25)(26)(27)(28)
(22)
MODE
RESET
(29)


C1
1
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2
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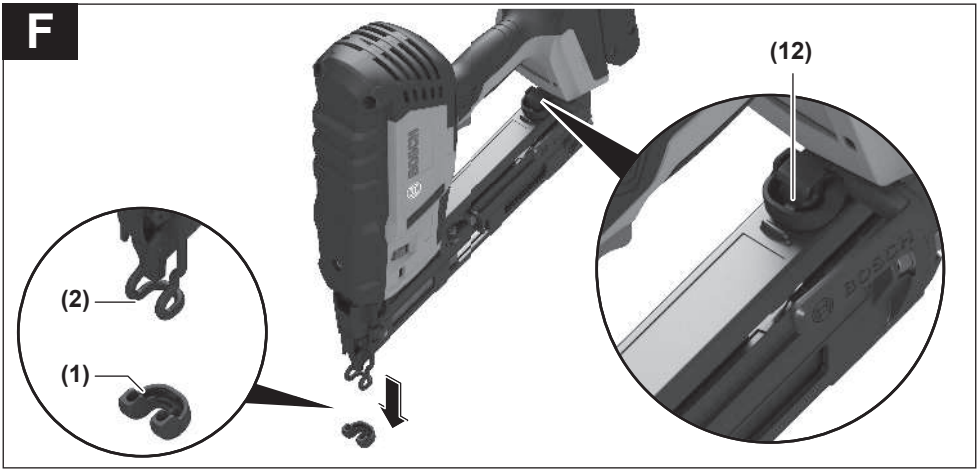

C2
(21)


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(5)
(5)


E1
1
(3)
2


E2
1
2
(3)

F



# Hrvatski

## Sigurnosne napomene

### Uobičajena sigurnosna upozorenja za električne alate

**⚠ UPOZORENJE** **Pročitajte sva sigurnosna upozorenja, upute, ilustracije i specifikacije koje se isporučuju s ovim električnim alatom.** Nepoštivanje dolje navedenih uputa može uzrokovati električni udar, požar i/ili ozbiljne ozljede.

**Sačuvajte sve napomene o sigurnosti i upute za buduću primjenu.**

Pojam „električni alat" u upozorenjima odnosi se na električne alata s priključkom na električnu mrežu (s mrežnim kabelom) i električne alate s napajanjem na akumulatorsku bateriju (bez mrežnog kabela).

**Sigurnost na radnom mjestu**

- **Održavajte radno mjesto čistim i dobro osvijetljenim.** Nered ili neosvijetljeno radno mjesto mogu uzrokovati nezgode.
- **Ne radite s električnim alatima u eksplozivnim atmosferama, primjerice onima u kojima ima zapaljivih tekućina, plinova ili prašine.** Električni alati proizvode iskre koje mogu zapaliti prašinu ili pare.
- **Tijekom upotrebe električnog alata djecu i druge osobe držite podalje od mjesta rada.** Svako odvraćanje pozornosti može uzrokovati gubitak kontrole nad uređajem.

**Električna sigurnost**

- **Električne alate držite dalje od kiše ili vlage.** Prodiranje vode u električni alat povećava opasnost od strujnog udara.

**Sigurnost ljudi**

- **Budite pažljivi, pazite što činite i postupajte oprezno dok radite s električnim alatom. Nemojte upotrebljavati alat ako ste umorni ili pod utjecajem droga, alkohola ili lijekova.** Trenutak nepažnje kod upotrebe električnog alata može uzrokovati ozbiljne ozljede.
- **Nosite osobnu zaštitnu opremu. Uvijek nosite zaštitne naočale.** Nošenje osobne zaštitne opreme, kao što je maska za prašinu, zaštitna obuća s protukliznim potplatom, zaštitna kaciga ili štitnik za sluh, ovisno od vrste i primjene električnog alata, smanjuje opasnost od ozljeda.
- **Spriječite svako nehotično uključivanje uređaja. Prije nego što ćete utaknuti utikač u utičnicu i/ili staviti komplet baterija, provjerite je li električni alat isključen.** Ako kod nošenja električnog alata imate prst na prekidaču ili se uključen uređaj priključi na električno napajanje, to može dovesti do nezgoda.
- **Prije uključivanja električnog alata uklonite alate za podešavanje ili ključ.** Alat ili ključ koji se nalazi u rotirajućem dijelu uređaja može dovesti do nezgoda.
- **Izbjegavajte neuobičajene položaje tijela. Zauzmite siguran i stabilan položaj tijela i u svakom trenutku održavajte ravnotežu.** Na taj način možete električni alat bolje kontrolirati u neočekivanim situacijama.
- **Nosite prikladnu odjeću. Ne nosite široku odjeću ni nakit. Kosu i odjeću držite dalje od pomičnih dijelova.** Široku odjeću, dugu kosu ili nakit mogu zahvatiti pomični dijelovi.
- **Ako uređaji imaju priključak za usisavače za prašinu, provjerite jesu li isti priključeni i mogu li se ispravno upotrebljavati.** Upotreba sustava za usisavanje može smanjiti mogućnost nastanka opasnih situacija koje uzrokuje prašina.
- **Nemojte postati previše bezbrižni i zanemariti sigurnosne upute zato što alat često upotrebljavate i smatrate da ste ga dobro upoznali.** Samo jedan trenutak nepažnje dovoljan je za nastanak ozbiljnih ozljeda.

**Upotreba i održavanje električnog alata**

- **Ne preopterećujte uređaj. Za svaki posao upotrebljavajte prikladan i za to predviđen električni alat.** S odgovarajućim električnim alatom posao ćete obaviti lakše, brže i sigurnije.
- **Nemojte upotrebljavati električni alat čiji je prekidač neispravan.** Električni alat koji se više ne može uključivati i isključivati opasan je i mora se popraviti.
- **Alat prije podešavanja, izmjene pribora i odlaganja isključite iz izvora napajanja i/ili izvadite komplet baterije, ako se vadi iz uređaja.** Ovim mjerama opreza izbjeći će se nehotično uključivanje električnog alata.
- **Električni alat koji ne upotrebljavate spremite izvan dosega djece. Rukovanje alatom zabranjeno je osobama koje nisu s njim upoznate ili koje nisu pročitale ove upute.** Električni alati su opasni ako s njima rade neiskusne osobe.
- **Redovno održavajte električne alate i pribor. Kontrolirajte rade li besprijekorno pomični dijelovi uređaja, jesu li zaglavljeni, polomljeni ili oštećeni tako da to ugrožava daljnju upotrebu i rad električnog alata. Prije upotrebe oštećene dijelove treba popraviti.** Loše održavani električni alati uzrok su mnogih nezgoda.
- **Rezne alate održavajte oštrim i čistim.** Pažljivo održavani rezni alati s oštrim oštricama manje će se zaglavljivati i lakše se s njima radi.
- **Električni alat, pribor, radne alate, itd. upotrebljavajte prema ovim uputama i na način kako je to propisano za određenu vrstu uređaja. Pritom uzmite u obzir radne uvjete i radove koje treba izvršiti.** Upotreba električnog alata za poslove izvan njegove predviđene upotrebe može dovesti do opasnih situacija.
- **Ručke i zahvatne površine održavajte suhima, čistima i pazite da na njih ne dospiju ulje ili mast.** Skliske ručke

i zahvatne površine onemogućuju sigurno rukovanje i alat se teško kontrolira u neočekivanim situacijama.

**Upotreba i održavanje akumulatorskih alata**

- ▶ **Akumulatorsku bateriju punite isključivo punjačima koje preporučuje proizvođač.** Ako punjač predviđen za jednu određenu vrstu kompleta baterija rabite s drugim kompletom baterija, postoji opasnost od požara.
- ▶ **Električne alate upotrebljavajte isključivo s posebnim, namjenskim kompletima baterija.** Upotreba drugih kompleta baterija može dovesti do ozljeda i opasnosti od požara.
- ▶ **Komplete baterija dok ih ne upotrebljavate držite dalje od uredskih spajalica, kovanica, ključeva, čavala, vijaka ili drugih sitnih metalnih predmeta koji bi mogli uzrokovati premošćenje kontakata.** Kratki spoj između kontakata baterije može uzrokovati opekline ili požar.
- ▶ **Kod pogrešne primjene iz baterije može isteći tekućina. Izbjegavajte kontakt s ovom tekućinom. Kod slučajnog kontakta zahvaćeno mjesto treba isprati vodom. Ako vam tekućina uđe u oči, zatražite pomoć liječnika.** Tekućina istekla iz baterije može uzrokovati nadraženost kože i opekline.
- ▶ **Ne upotrebljavajte oštećene ili izmijenjene komplete baterija ni alate.** Oštećene ili izmijenjene baterije podložne su nepredvidivom ponašanju i mogu uzrokovati požar, eksploziju ili ozljede.
- ▶ **Držite alat i komplet baterija dalje od vatre i visokih temperatura.** Izlaganje vatri ili temperaturi višoj od 130 °C može uzrokovati eksploziju.
- ▶ **Poštujte sve upute za punjenje i komplet baterija i alat ne punite pri temperaturama izvan vrijednosti koje su propisane i navedene u uputama.** Nepravilno punjenje ili punjenje pri temperaturama višim od propisanih može oštetiti bateriju i povećati opasnost od požara.

**Servisiranje**

- ▶ **Popravak električnog alata prepustite kvalificiranom osoblju ovlaštenog servisa i isključivo s originalnim rezervnim dijelovima.** Tako će biti zajamčen siguran rad s uređajem.
- ▶ **Nikada ne servisirajte oštećene komplete baterija.** Servisiranje kompleta baterija smiju obavljati isključivo proizvođači i ovlašteni serviseri.

## Sigurnosna upozorenja za pribijač

- ▶ **Uvijek pretpostavite da pribijač čavla sadrži pričvršćivače.** Neoprezno rukovanje pribijačem može dovesti do neočekivanog izbacivanja pričvršćivača i osobnih ozljeda.
- ▶ **Iskopčajte alat iz izvora napajanja kad umećete i vadite pričvršćivače, kao i dok podešavate ili zamjenjujete pribor.** Alat se može nehotično aktivirati ako je priključen u izvor napajanja, što može uzrokovati osobne ozljede.
- ▶ **Budite oprezni prilikom rukovanja pričvršćivačima, posebice kad ih umećete i vadite.** Pričvršćivači imaju oštre vrhove koji mogu prouzročiti osobne ozljede.
- ▶ **Ne usmjeravajte pribijač prema sebi ni prema drugima u svojoj blizini.** Ako se naglo i neočekivano aktivira, izbacit će pričvršćivač, što može uzrokovati osobne ozljede.
- ▶ **Držite prste podalje od okidača dok ne upotrebljavate pribijač i kad mijenjate položaj tijekom primjene.** Ako se naglo i neočekivano aktivira, izbacit će pričvršćivač, što može uzrokovati osobne ozljede.
- ▶ **Pribijač držite isključivo za izolirane prihvatne površine ako izvodite radove kod kojih bi pričvršćivač mogao zahvatiti skriveno ožičenje.** Ako pričvršćivač dođe u doticaj sa žicama pod naponom i metalni će dijelovi električnog uređaja biti pod naponom, što može uzrokovati strujni udar rukovatelja.
- ▶ **Čvrsto držite pribijač tijekom rada.** Nekontrolirani povratni zakret pribijača može uzrokovati nehotičnu aktivaciju, što može uzrokovati osobne ozljede.
- ▶ **Držite sve dijelove tijela, primjerice ruke, noge i sl., podalje od smjera iz kojeg pribijač izbacuje pričvršćivače.** Pričvršćivač može probiti radni dio i predmet iza njega, što može uzrokovati osobne ozljede.
- ▶ **Prilikom upotrebe pribijača sve dijelove tijela, primjerice ruke, noge i sl., držite podalje od područja na kojem se pričvršćivač pribija na radni dio.** Pričvršćivač može skrenuti i izaći iz radnog dijela, što može uzrokovati osobne ozljede.
- ▶ **Nemojte pokretati pribijač sve dok ne bude čvrsto postavljen na radni dio.** Ako pribijač nije u kontaktu s radnim dijelom, pričvršćivač se može odbiti od radnog dijela, što može uzrokovati osobne ozljede.
- ▶ **Nemojte upotrebljavati ovaj pribijač za pričvršćivanje električnih kabela.** Nije namijenjen za instalaciju električnih kabela i može oštetiti izolaciju električnih kabela i tako uzrokovati strujni udar ili požar.
- ▶ **Iskopčajte pribijač iz izvora napajanja ako se pričvršćivač zaglavi u pribijaču.** Prilikom uklanjanja zaglavljenog pričvršćivača pribijač se može nehotično aktivirati ako je priključen na izvor napajanja, što može uzrokovati osobne ozljede.
- ▶ **Budite oprezni prilikom uklanjanja zaglavljenog pričvršćivača.** Mehanizam može biti pod pritiskom i pričvršćivač može prinudno izaći iz alata, što može uzrokovati osobne ozljede.
- ▶ **Koristite prikladne detektore kako biste pronašli skrivene opskrbne vodove ili zatražite pomoć lokalnog distributera.** Kontakt s električnim vodovima može dovesti do požara i električnog udara. Oštećenje plinske cijevi može dovesti do eksplozije. Probijanje vodovodne cijevi uzrokuje materijalne štete.
- ▶ **U slučaju oštećenja i nestručne uporabe baterije mogu se pojaviti pare. Baterija se može zapaliti ili eksplodirati.** Dovedite svježi zrak i u slučaju poteškoća

zatražite pomoć liječnika. Pare mogu nadražiti dišne puteve.

- ▶ **Ne mijenjajte i ne otvarajte bateriju.** Postoji opasnost od kratkog spoja.
- ▶ **Baterija se može oštetiti šiljatim predmetima, kao što su npr. čavao ili odvijač, ili djelovanjem vanjske sile.** Može doći do unutrašnjeg kratkog spoja i aku-baterija može izgorjeti, razviti dim, eksplodirati ili se pregrijati.
- ▶ **Aku-bateriju koristite samo u proizvodima proizvođača.** Samo na ovaj način je aku-baterija zaštićena od opasnog preopterećenja.





**Zaštitite aku-bateriju od vrućine, npr. također od stalnog sunčevog zračenja, vatre, prljavštine, vode i vlage.** Postoji opasnost od eksplozije i kratkog spoja.



**Nosite zaštitu za uši.** Djelovanje buke može dovesti do gubitka sluha.



**Nosite zaštitne naočale.** Dijelovi koji lete uokolo mogu uzrokovati ozljede očiju.

## Opis proizvoda i radova



**Treba pročitati sve sigurnosne napomene i upute.** Propusti do kojih može doći uslijed nepridržavanja sigurnosnih napomena i uputa mogu uzrokovati električni udar, požar i/ili teške ozljede.

Pridržavajte se slika na početku uputa za uporabu.

### Namjenska uporaba

Električni alat je namijenjen za zabijanje čavala u drvo. Smiju se upotrebljavati samo elementi za pričvršćenje (čavli, spajalice itd.) koji su specificirani u tablici „Tehnički podaci“.

**Napomena:** Električni alat nije namijenjen za zabijanje čavala u metal ili beton.

Ne upotrebljavajte električni alat u načinu rada kontaktno okidanje s automatskim povratom dok radite na skeli, ljestvama ili nekoj drugoj platformi i dok je potrebna promjena radnog položaja. U tom slučaju upotrijebite samo način rada pojedinačno okidanje sa sigurnosnim redoslijedom.

### Prikazani dijelovi alata

Numeriranje prikazanih dijelova odnosi se na prikaz električnog alata na stranici sa slikama.

**(1)** Štitnik izratka
**(2)** Okidni osigurač
**(3)** Zatezna poluga za otvaranje/zatvaranje kanala za izbacivanje
**(4)** Pokazivač za namještanje graničnika dubine
**(5)** Kotačić za namještanje graničnika dubine
**(6)** Okidač
**(7)** Prekidač za uključivanje/isključivanje
**(8)** Tipka za deblokadu aku-baterije
**(9)** Korisničko sučelje
**(10)** Radno svjetlo
**(11)** Akumulator
**(12)** Spremište za spremanje štitnika izratka
**(13)** Pojasna kuka
**(14)** Spremnik
**(15)** Klizač spremnika
**(16)** Zahvatnik čavla
**(17)** Kontrolni prozorčić pokazivača dopunjavanja
**(18)** Otvor
**(19)** Ručka (izolirana površina zahvata)
**(20)** Uložak s čavlima[a)]
**(21)** Opruga spremnika

**Korisničko sučelje**

**(22)** Tipka za način rada
**(23)** Indikator pojedinačnog okidanja
**(24)** Indikator kontaktnog okidanja
**(25)** Prikaz stanja
**(26)** Pokazivač stanja napunjenosti akumulatora
**(27)** Pokazivač niskog stupnja održavanja
**(28)** Pokazivač visokog stupnja održavanja
**(29)** Tipka Reset

a) **Ovaj pribor ne spada u standardni opseg isporuke.**

### Tehnički podaci

| Akumulatorski pribijač za čavle | | GNH 18V-64 MD |
|---|---|---|
| Kataloški broj | | **3 601 D82 2..** |
| Nazivni napon | V= | 18 |
| Okidni sustavi | | |
| – Pojedinačno okidanje sa sigurnosnim redoslijedom | | ● |
| – Kontaktno okidanje s automatskim povratom | | ● |
| Element za pričvršćenje | | |
| – Tip | | Čavli s D-glavom |
| – Duljina | mm | 32–64 |
| – Promjer | mm | 1,8 |
| | ga | 15 |
| – Kut | ° | 34 |
| Maks. kapacitet spremnika | | 105 |
| Dimenzije (bez aku-baterije) | | |
| – Visina | mm | 323 |
| – Širina | mm | 95 |

| Akumulatorski pribijač za čavle | | GNH 18V-64 MD |
|---|---|---|
| – Duljina sa štitnikom izratka | mm | 385 |
| Težina[A)] | kg | 3,1 |
| Preporučena temperatura okoline pri punjenju | °C | 0 … +35 |
| Dopuštena temperatura okoline pri radu[B)C)] i kod skladištenja | °C | –20 … +50 |
| Kompatibilne aku-baterije | | GBA18V…<br>GBA 18V…<br>ProCORE18V…<br>EXPERT18V…<br>EXBA18V…<br>CORE18V… |
| Preporučene aku-baterije | | GBA 18V…<br>≥ 2,0 Ah<br>ProCORE18V…<br>≥ 4,0 Ah |
| Preporučeni punjači | | GAL18…<br>GAL 18…<br>GAL 36…<br>GAL12V/18…<br>GAL 12V/18…<br>GAX 18…<br>EXAL18… |

A) Bez aku-baterije (Težinu aku-baterije naći ćete na internetskoj stranici www.bosch-professional.com)

B) ograničeni učinak pri temperaturama < 0 °C

C) Ograničeni učinak s GBA 18V…

Vrijednosti se mogu razlikovati ovisno o proizvodu i ovise o uvjetima primjene i okoline. Dodatne informacije na www.bosch-professional.com/wac.

### Informacije o buci i vibracijama

Emisijske vrijednosti buke utvrđene sukladno **EN IEC 62841-2-16**.

Razina buke električnog alata prema ocjeni A iznosi obično: razina zvučnog tlaka **88** dB(A); razina zvučne snage **99** dB(A). Nesigurnost K = **3** dB.

**Nosite zaštitu za uši!**

Vrijednosti vibracija $a_h$ (kontinuirane vibracije), $p_F$ (ponovljene udarne vibracije) i nesigurnost K utvrđene u skladu s normom **EN IEC 62841-2-16**:

$a_h$ = **2,2** m/s$^2$ (K = **1,5** m/s$^2$), $p_F$ = **358** m/s$^2$ (K = **19** m/s$^2$)

Razina titranja koja je navedena u ovim uputama i emisijska vrijednost buke izmjerene su sukladno normiranom postupku mjerenja te se mogu koristiti za međusobnu usporedbu električnih alata. Primjerene su i za privremenu procjenu emisije titranja i buke.

Navedena razina titranja i emisijska vrijednost buke predstavljaju glavne primjene električnog alata. Ako se ustvari električni alat koristi za druge primjene s radnim alatima koji odstupaju od navedenih ili se nedovoljno održavaju, razina titranja i emisijska vrijednost buke mogu odstupati. Na taj se način može osjetno povećati emisija titranja i buke tijekom čitavog vremenskog perioda rada.

Za točnu procjenu emisija titranja i buke trebaju se uzeti u obzir i vremena, tijekom kojih je alat bio isključen ili je radio, ali se zapravo nije koristio. Na taj se način može osjetno smanjiti emisija titranja i buke tijekom čitavog vremenskog perioda rada.

Odredite dodatne sigurnosne mjere za zaštitu korisnika prije djelovanja titranja kao npr.: održavanje električnog alata i nastavaka, održavanje toplih ruku, organizacija tokova rada.

## Aku-baterija

**Bosch** prodaje akumulatorske električne alate i bez aku-baterije. Ako je aku-baterija sadržana u opsegu isporuke vašeg električnog alata, možete je izvaditi iz ambalaže.

### Punjenje aku-baterije

▶ **Koristite samo punjače navedene u tehničkim podacima.** Samo su ovi punjači prilagođeni litij-ionskoj aku-bateriji koja se koristi u vašem električnom alatu.

**Napomena:** Litij-ionske aku-baterije isporučuju se djelomično napunjene zbog međunarodnih propisa o prijevozu. Kako bi se zajamčio puni učinak aku-baterije, prije prve uporabe aku-bateriju napunite do kraja.

### Umetanje aku-baterije

Umetnite napunjenu aku-bateriju u prihvat aku-baterije sve dok se ne uglavi.

### Vađenje aku-baterije

Za vađenje aku-baterije pritisnite tipku za deblokadu aku-baterije i izvucite aku-bateriju. **Pritom ne primjenjujte silu.**

Aku-baterija ima 2 stupnja blokiranja koji trebaju spriječiti da aku-baterija ispadne kod nehotičnog pritiska na tipku za deblokadu aku-baterije. Čim se aku-baterija stavi u električni alat, ona će se pomoću opruge zadržati u određenom položaju.

### Pokazivač stanja napunjenosti aku-baterije

Napomena: Svaki tip aku-baterije nema pokazivač stanja napunjenosti.

Tri zelena LED pokazivača stanja napunjenosti aku-baterije pokazuju stanje napunjenosti aku-baterije. Upit o stanju napunjenosti iz sigurnosnih razloga moguć je samo u stanju mirovanja električnog alata.

Pritisnite tipku za prikaz stanja napunjenosti ⓞⓝ ili za prikaz stanja napunjenosti. To je također moguće i kod izvađene aku-baterije.

Ako nakon pritiska na tipku za prikaz stanja napunjenosti ne svijetli LED, aku-baterija je neispravna i mora se zamijeniti.

Stanje napunjenosti aku-baterije prikazuje se i na korisničkom sučelju (vidi „Prikazi stanja“, Stranica 12).

**Tip aku-baterije GBA 18V... | GBA18V...**



| LED | Kapacitet |
|---|---|
| Stalno svijetli 3 × zelena | 60–100 % |
| Stalno svijetli 2 × zelena | 30–60 % |
| Stalno svijetli 1 × zelena | 5–30 % |
| Treperi 1 × zelena | 0–5 % |

**Tip aku baterije ProCORE18V... | EXPERT18V... | EXBA18V... | CORE18V...**



| LED | Kapacitet |
|---|---|
| Stalno svijetli 5 × zelena | 80–100 % |
| Stalno svijetli 4 × zelena | 60–80 % |
| Stalno svijetli 3 × zelena | 40–60 % |
| Stalno svijetli 2 × zelena | 20–40 % |
| Stalno svijetli 1 × zelena | 5–20 % |
| Treperi 1 × zelena | 0–5 % |

### Detekcija rizika od kvara aku-baterije

**EXPERT18V... | EXBA18V...**

LED diode pokazivača stanja napunjenosti aku-baterije mogu osim stanja napunjenosti aku-baterije pokazati rizik od kvara aku-baterije.

Za aktiviranje funkcije pritisnite i držite pritisnutu tipku za prikaz stanja napunjenosti 3 sekunde. Treperenje pokazivača stanja napunjenosti aku-baterije signalizira analizu aku-baterije. Rezultat će se pokazati na pokazivaču stanja napunjenosti aku-baterije.



**1 LED:** Aku-baterija ima veliki rizik od kvara. Snaga i vrijeme rada mogu biti već smanjeni. Preporučuje se zamjena aku-baterije.



**5 LED**: Aku-baterija je u dobrom stanju s malim rizikom od kvara.

**Vodite računa o sljedećem:** Procjena rizika od kvara aku-baterije funkcionira u dvije faze i nudi pojednostavljenu procjenu stanja. Aku-baterija je ocijenjena u dobrom stanju ili ima povećan rizik od kvara. Ne prikazuje se postotak stanja aku-baterije.

### Napomene za optimalno rukovanje aku-baterijom

Zaštitite aku-bateriju od vlage i vode.

Aku-bateriju čuvajte samo u prostoriji u kojoj je raspon temperature od –20 °C do 50 °C. Npr. aku-bateriju ljeti na ostavljajte u automobilu.

Otvore za hlađenje aku-baterije redovito čistite mekim, čistim i suhim kistom.

Bitno skraćenje vremena rada nakon punjenja pokazuje da je aku-baterija istrošena i da je treba zamijeniti.

Pridržavajte se uputa za zbrinjavanje u otpad.

## Montaža

▶ **Prije svih radova na električnom alatu (npr. održavanje, zamjena alata, itd.) aku-bateriju treba izvaditi iz električnog alata.** Kod nehotičnog aktiviranja prekidača za uključivanje/isključivanje postoji opasnost od ozljeda.

### Punjenje spremnika (pogledajte slike A1–A4)

▶ **Izvadite aku-bateriju prije namještanja alata, zamjene pribora ili odlaganja električnog alata.** Ove mjere opreza sprječavaju nehotično pokretanje električnog alata.

**Koristite samo originalan Bosch pribor.** Precizni dijelovi električnog alata, kao što su spremnik, otvor i kanal za izbacivanje, prilagođeni su **spajalicama, čavlima i zaticima** tvrtke **Bosch**. Ostali proizvođači koriste druge kvalitete čelika i dimenzije.

**Napomena:** upotrebljavajte samo elemente za pričvršćenje koji su specificirani u tablici „Tehnički podaci".

Uporabom nedopuštenih elemenata za pričvršćenje može se oštetiti električni alat i uzrokovati ozljede.

Držite električni alat tijekom punjenja spremnika tako da otvor **(18)** nije usmjeren prema vašem tijelu ni prema drugim osobama.

– Po potrebi očistite potiskivač spremnika **(15)** i pobrinite se da spremnik **(14)** nije prljav.
– Umetnite odgovarajući uložak s čavlima **(20)** u T utor na kraju spremnika **(14)**.
– Gurnite uložak s čavlima u spremnik prema naprijed tako da zadnji čavao dođe ispred opruge spremnika **(21)**.

**Napomena:** Elektronički nadzor prepoznaje nalaze li se čavli u spremniku. Ako pritisnite okidni osigurač kada je spremnik prazan, neće se aktivirati pričvršćivanje. Time se sprječavaju hici u prazno.

– Pritisnite zategnuti zahvatnik čavla **(16)** o klizač spremnika **(15)** i istovremeno povucite klizač spremnika do kraja spremnika **(14)**.

**Napomena:** Klizač spremnika mora se moći pomicati natrag bez velike upotrebe sile (samo silom prsta). Zaglavljeni klizač spremnika ima sljedeći učinak: Čavao se ne izbacuje, čavao ostaje visjeti u kanalu za izbacivanje (vidi Zaglavljenje) ili se čavao izbacuje pod pogrešnim kutom.

– Oprezno vodite klizač spremnika **(15)** s pritisnutim zahvatnikom čavla **(16)** prema naprijed sve dok zahvatnik čavla nije gurnut iznad zadnjeg čavla i na taj način gurnite uložak s čavlima u spremnik skroz prema naprijed.

**Napomena:** Pazite da se klizač spremnika nevođen ne vrati natrag. Pritom bi se klizač spremnik mogao oštetiti i postoji opasnost da se vaši prsti prikliješte.

# Rad

## Okidni sustavi

**Pojedinačno okidanje sa sigurnosnim redoslijedom**

Kod ovog okidnog sustava najprije trebate staviti okidni osigurač **(2)** čvrsto na izradak. Element za pričvršćenje se izbacuje tek kada pritisnete okidač **(6)**.
Zatim se mogu aktivirati daljnja pričvršćenja samo kada su okidač i okidni osigurač ponovno stavljeni u početni položaj.

**Kontaktno okidanje s automatskim povratom**

Kod ovog okidnog sustava najprije trebate pritisnuti okidač **(6)** i držati ga u tom položaju. Zatim trebate staviti okidni osigurač čvrsto na izradak kako bi se izbacio element za pričvršćenje. Dok je okidač **(6)** pritisnut, mogu se aktivirati daljnja pričvršćenja ponovnim stavljanjem na drugo mjesto.
U načinu rada **kontaktno okidanje** također se može zabiti čavao s pojedinačnim okidanjem.

## Puštanje u rad

**Uključivanje/isključivanje**

- Za **uključivanje** električnog alata pritisnite prekidač za uključivanje/isključivanje **(7)**.
  Korisničko sučelje zasvijetli.
  Pojedinačno okidanje je aktivirano, indikator pojedinačnog okidanja **(23)** svijetli.
- Za **isključivanje** električnog alata pritisnite prekidač za uključivanje/isključivanje **(7)**.

**Izbacivanje čavala – pojedinačno okidanje**

- Uključite električni alat.
- Stavite otvor **(18)** ili po potrebi gumirani štitnik izratka **(1)** čvrsto na izradak tako da je okidni osigurač **(2)** utisnut do kraja.
  Radno svjetlo se uključuje i motor se pokreće.
- Zatim kratko pritisnite okidač **(6)** i ponovno ga otpustite.
  Pritom će se izbaciti jedan čavao.
- Pustite da se električni alat odbije od izratka.
- Za daljnje pričvršćenje potpuno podignite električni alat s izratka i ponovno ga čvrsto stavite na sljedeće željeno mjesto.

**Izbacivanje čavala – kontaktno okidanje**

- Uključite električni alat.
- Aktivirajte kontaktno okidanje na način da kratko pritisnete tipku Mode **(22)**.
  Indikator kontaktnog okidanja **(24)** svijetli.
- Držite pritisnut okidač **(6)**.
  Radno svjetlo se uključuje i motor se pokreće.
- Stavite otvor **(18)** ili po potrebi gumirani štitnik izratka **(1)** čvrsto na izradak tako da je okidni osigurač **(2)** utisnut do kraja.
  Pritom će se izbaciti jedan čavao.
- Za daljnje pričvršćenje dalje držite pritisnut okidač **(6)** i potpuno podignite električni alat s izratka. Ponovno ga čvrsto stavite na sljedeće željeno mjesto.
- Prebacite na pojedinačno okidanje na način da ponovno pritisnete tipku Mode **(22)**.
  Indikator pojedinačnog okidanja **(23)** svijetli.

## Korisničko sučelje (vidjeti sliku B)

Korisničko sučelje **(9)** služi za biranje načina rada i za prikaz stanja električnog alata.

**Prikazi stanja**

| Indikator statusa električnog alata (25) | | |
|---|---|---|
| **Boja** | **Značenje** | **Rješenje** |
| Zelena | Električni alat je uključen i spreman za uporabu. | – |
| Žuta | Događaj zahtijeva vašu pozornost: kritična temperatura, akumulator je gotovo prazan ili predstoji održavanje. | – Ostavite električni alat da se ohladi.<br>– Zamijenite ili napunite aku-bateriju.<br>– Izvršite održavanje. |
| Crvena | Električni alat nije spreman za uporabu.<br>Razlog: električni alat je pregrijan, aku-baterija je prazna ili je došlo do mehaničkog kvara. | – Ostavite električni alat da se ohladi.<br>– Zamijenite ili napunite aku-bateriju.<br>– Izvršite održavanje. |
| treperi crveno | – Prerano je pritisnut okidač **(6)**.<br>– Okidač **(6)** nije pritisnut u roku od 5 sekundi, motor se isključuje automatski.<br>– Prekidači su pritisnuti pogrešnim redoslijedom (npr. okidač je pritisnut prije nego što se električni alat prebacio u način rada kontaktno okidanje). | – Kratko pričekajte dok prikaz stanja ne počne svijetliti zeleno.<br>– Električni alat je ponovno spreman za uporabu.<br>– Ponovo provedite pričvršćivanje i pritom pazite na ispravan redoslijed aktiviranja.<br>– Promijenite okidni sustav putem korisničkog sučelja. |

| Pokazivač stanja napunjenosti aku-baterije (26) | | |
|---|---|---|
| **Simbol** | **Boja** | **Stanje napunjenosti** |
| – | – | 20–100% |

| Pokazivač stanja napunjenosti aku-baterije (26) | | |
|---|---|---|
| **Simbol** | **Boja** | **Stanje napunjenosti** |
|  | Žuta | 1–20% |
|  | Crvena | 0–1% |

| Indikator održavanja | | | |
|---|---|---|---|
| **Simbol** | **Boja** | **Značenje** | **Rješenje** |
|  | Žuta | Potrebno je planirano održavanje na „niskom“ stupnju. | Kontaktirajte servis. |
|  | Žuta | Potrebno je planirano održavanje na „visokom“ stupnju. | Kontaktirajte servis. |

Pritisnite tipku Reset **(29)** kako biste resetirali brojač održavanja nakon održavanja.

## Upute za rad

Prije svakog početka rada provjerite besprijekornu funkciju sigurnosnih i okidnih uređaja te čvrst dosjed svih vijaka i matica.

Odmah odvojite neispravan električni alat ili koji ne radi besprijekorno od dovoda energije i kontaktirajte ovlašteni Bosch servis.

Ne izvodite nepropisane manipulacije na električnom alatu. Nemojte demontirati ili blokirati dijelove električnog alata, npr. okidni osigurač.

Ne izvodite „hitne popravke“ neprikladnim sredstvima. Električni alat treba redovito i pravilno održavati.

Izbjegavajte svako slabljenje i oštećenje električnog alata, npr. zbog:

- zabijanja ili graviranja,
- mjera preinake koje nije odobrio proizvođač,
- vođenja uz šablone koje su izrađene od tvrdog materijala, npr. čelika,
- ispadanja na pod ili pomicanja po podu,
- rukovanja kao čekićem,
- bilo kojeg načina upotrebe sile.

Provjerite što se nalazi ispod ili iza izratka. Nemojte izbacivati čavle u zidove, stropove ili podove ako se iza njih nalaze osobe. Čavli mogu probiti izradak i nekoga ozlijediti.

Nemojte izbacivati čavao na već zabijeni čavao. Pritom se čavao može deformirati, čavli se mogu zaglaviti ili se električni alat može nekontrolirano pomaknuti.

Ako se električni alat upotrebljava u hladnim uvjetima okoline, prvi čavli će se zabijati sporije nego inače. Nakon što se električni alat zagrijao tijekom rada, ponovno je moguća normalna radna brzina.

Izbjegavajte hice u prazno kako bi se spriječilo trošenje udarnog žiga.

Tijekom duljih radnih stanki ili na kraju rada isključite električni alat, izvadite aku-bateriju o po mogućnosti ispraznite spremnik.

**Pražnjenje spremnika (vidjeti slike C1–C2)**

- Isključite električni alat i izvadite aku-bateriju **(11)**.
- Povucite potiskivač spremnika **(15)** s pritisnutim zahvatnikom čavla **(16)** prema natrag sve dok zahvatnik čavla ne oslobodi posljednji čavao, a zatim pažljivo pomaknite potiskivač spremnika prema naprijed do početka spremnika **(14)**.

**Napomena:** Pazite da se klizač spremnika nevođen ne vrati natrag. Pritom bi se klizač spremnik mogao oštetiti i postoji opasnost da se vaši prsti priklješte.

- Okrenite električni alat tako da čavli skliznu u spremniku do opruge spremnika **(21)** prema natrag.
- Pritisnite oprugu spremnika prema dolje i pustite da čavli klize pokraj zahvatnika čavla **(16)** iz spremnika **(14)**.

**Namještanje graničnika dubine (vidjeti sliku D)**

Dubinu zabijanja čavala možete namjestiti kotačićem za namještanje **(5)**.

- Ispraznite spremnik **(14)**.
- **Čavli su preduboko zabijeni:** Okrenite kotačić za namještanje **(5)** u smjeru „–“ kako biste smanjili dubinu zabijanja.



- **Čavli nisu dovoljno duboko zabijeni:** Okrenite kotačić za namještanje **(5)** u smjeru „+“ kako biste povećali dubinu zabijanja.



Pomoću pokazivača za namještanje graničnika dubine **(4)** možete provjeriti postavku graničnika dubine.

- Ponovno napunite spremnik.
- Provjerite novu dubinu zabijanja na probnom izratku. Po potrebi ponovite radne korake.

**Odvajanje zaglavljenja (vidjeti slike E1–E2)**

Pojedinačni čavli mogu se zaglaviti u kanalu za izbacivanje. Ako se to češće događa, kontaktirajte ovlašteni Bosch servis.

**Napomena:** Ako se udarni žig više ne vrati natrag nakon odvajanja zaglavljenja, kontaktirajte ovlašteni Bosch servis.

- Otpustite okidač **(6)**.
- Isključite električni alat i izvadite aku-bateriju **(11)**.

– Ispraznite spremnik **(14)**.
– Pritisnite zateznu polugu **(3)** prema dolje tako da se može otvoriti kanal za izbacivanje.
– Uklonite zaglavljeni čavao. Po potrebi koristite kliješta.
– Zatvorite kanal za izbacivanje, stavite držač zatezne poluge **(3)** u kuku na kanalu za izbacivanje i zatim ponovno pritisnite zateznu polugu prema gore.
– Ponovno napunite spremnik.

**Zamjena štitnika izratka (vidjeti sliku F)**

Štitnik izratka **(1)** na kraju okidnog osigurača **(2)** štiti izradak sve dok se električni alat pravilno ne postavi za pričvršćenje. Štitnik izratka može se skinuti i zamijeniti

– Otpustite okidač **(6)**.
– Isključite električni alat i izvadite aku-bateriju **(11)**.
– Ispraznite spremnik **(14)**.
– Povucite štitnik izratka s okidnog osigurača.
– Stavite novi štitnik izratka s otvorenim krajem na okidni osigurač.

**Napomena:** Rezervni štitnik izratka može se čuvati na gornjoj strani spremnika **(14)**. U tu svrhu stavite štitnik izratka u spremište **(12)**.

**Transport i spremanje**

Isključite električni alat za transport posebno ako rabite ljestve ili se krećete u neobičnom položaju tijela.

Nosite električni alat na radnom mjestu samo držeći za ručku **(19)** i s nepritisnutim okidačem **(6)**.

Čuvajte električni alat tako da je uvijek odvojen od aku-baterije na suhom, toplom mjestu.

Ako nećete upotrebljavati električni alat dulje vrijeme, premažite čelične dijelove alata tankim slojem ulja. To sprječava nakupljanje hrđe.

# Održavanje i servisiranje

## Održavanje i čišćenje

▶ **Prije svih radova na električnom alatu (npr. održavanje, zamjena alata, itd.) aku-bateriju treba izvaditi iz električnog alata.** Kod nehotičnog aktiviranja prekidača za uključivanje/isključivanje postoji opasnost od ozljeda.

▶ **Održavajte električni alat i ventilacijske proreze čistima kako biste radili dobro i sigurno.**

### Plan održavanja

Očistite spremnik **(14)**. Uklonite plastičnu ili drvenu strugotinu koja se može nakupiti u spremniku tijekom rada. Električni alat čistite u redovitim razmacima pomoću komprimiranog zraka.

| Mjera | Obrazloženje | Provođenje |
|---|---|---|
| Očistite spremnik **(14)** i klizač spremnika **(15)**. | Sprječava zaglavljivanje čavla. | – Svaki dan ispušite mehanizam spremnika/klizač spremnika komprimiranim zrakom. |
| Uvjerite se da okidni osigurač **(2)** propisno radi. | Pridonosi vašoj sigurnosti na radu i učinkovitoj uporabi električnog alata. | – Svaki dan ispušite mehanizam okidnog osigurača komprimiranim zrakom. |

### Uklanjanje smetnji

| Smetnja | Uzrok | Pomoć |
|---|---|---|
| Električni alat nije spreman za rad. | Aku-baterija nije napunjena ili je neispravna. | – Napunite aku-bateriju do kraja ili je zamijenite. |
| | Aku-baterija nije pravilno stavljena. | – Uvjerite se da je aku-baterija uglavljena na ručki. |
| | Temperatura aku-baterije je previsoka ili preniska. | – Pričekajte da aku-baterija (ponovno) postigne optimalnu radnu temperaturu. |
| | Kontakti aku-baterije, motor ili podizni magnet su zaprljani ili neispravni. | – Kontaktirajte ovlašteni Bosch servis. Tamo zamijenite sastavni dio. |
| | Spremnik **(14)** je prazan. | – Ponovno napunite spremnik.(vidi „Punjenje spremnika (pogledajte slike **A1**–**A4**)“, Stranica 11) |
| | Osigurač okidanja **(2)** je savijen. | – Kontaktirajte ovlašteni Bosch servis. Tamo zamijenite sastavni dio. |
| | Elektronika je neispravna. | – Kontaktirajte ovlašteni Bosch servis. |
| | Korisničko sučelje **(9)** je neispravno. | – Kontaktirajte ovlašteni Bosch servis. |

| Smetnja | Uzrok | Pomoć |
|---|---|---|
| Električni alat je spreman za rad, ali ne izbacuje čavle. | Mogući kvar sljedećih sastavnih dijelova:<br>– okidača **(6)**<br>– udarnog žiga<br>– motora ili pogonskog remena<br>– elektronike<br>– gumenih traka | – Kontaktirajte ovlašteni Bosch servis. Tamo zamijenite sastavni dio. |
| | Strana tijela su se nakupila u mehanizmu za izbacivanje. | – Kontaktirajte ovlašteni Bosch servis. Tamo zamijenite sastavni dio. |
| | Strana tijela nakupila su se u otvoru **(18)** ili spremniku **(14)**. | – Očistite otvor **(18)** ili spremnik **(14)**. |
| | Jedan čavao se zaglavio u kanalu za izbacivanje. | – Uklonite zaglavljenje. (vidi „Odvajanje zaglavljenja (vidjeti slike **E1**–**E2**)“, Stranica 13) |
| | Potiskivač spremnika **(15)** je neispravan. | – Po potrebi očistite potiskivač spremnika **(15)** i pobrinite se da spremnik **(14)** nije prljav. |
| | Opruga klizača spremnika je preslaba ili neispravna. | – Kontaktirajte ovlašteni Bosch servis. Tamo zamijenite sastavni dio. |
| | Korišteni elementi za pričvršćenje nisu dopušteni. | – Koristite samo originalan pribor. Smiju se upotrebljavati samo elementi za pričvršćenje (čavli, spajalice itd.) koji su specificirani u tablici „Tehnički podaci“. |
| | Spremnik **(14)** je prazan. | – Ponovno napunite spremnik. (vidi „Punjenje spremnika (pogledajte slike **A1**–**A4**)“, Stranica 11) |
| | Pogrešan redoslijed hitaca je aktiviran. | – Ponovo provedite pričvršćivanje i pritom pazite na ispravan redoslijed aktiviranja.<br>– Promijenite okidni sustav putem korisničkog sučelja. |
| Čavli su preduboko zabijeni. | Graničnik dubine je preduboko namješten. | – Namjestite graničnik dubine na željenu dubinu. (vidi „Namještanje graničnika dubine (vidjeti sliku **D**)“, Stranica 13) |
| | Odbojnik je istrošen. | – Kontaktirajte ovlašteni Bosch servis. Tamo zamijenite sastavni dio. |
| Čavli nisu dovoljno duboko zabijeni. | Aku-baterija nije napunjena ili je neispravna. | – Napunite aku-bateriju do kraja ili je zamijenite. |
| | Elementi za zabijanje su predugi. | – Koristite samo originalan pribor. Smiju se upotrebljavati samo elementi za pričvršćenje (čavli, spajalice itd.) koji su specificirani u tablici „Tehnički podaci“. |
| | Graničnik dubine je previsoko namješten. | – Namjestite graničnik dubine na željenu dubinu. (vidi „Namještanje graničnika dubine (vidjeti sliku **D**)“, Stranica 13) |
| Električni alat preskače čavle ili ima preveliki ritmički pomak. | Korišteni elementi za pričvršćenje nisu dopušteni. | – Koristite samo originalan pribor. Smiju se upotrebljavati samo elementi za pričvršćenje (čavli, spajalice itd.) koji su specificirani u tablici „Tehnički podaci“. |
| | Opruga klizača spremnika je preslaba ili neispravna. | – Kontaktirajte ovlašteni Bosch servis. Tamo zamijenite sastavni dio. |
| Čavli se često zaglavljuju u kanalu za izbacivanje. | Korišteni elementi za pričvršćenje nisu dopušteni. | – Koristite samo originalan pribor. Smiju se upotrebljavati samo elementi za pričvršćenje (čavli, spajalice itd.) koji su specificirani u tablici „Tehnički podaci“. |
| | Čavli su stari, ljepilo između čavala više ne drži. | – Upotrijebite novi uložak s čavlima. |

| Smetnja | Uzrok | Pomoć |
|---|---|---|
| Zabijeni čavli su savijeni. | Udarni žig je oštećen. | – Kontaktirajte ovlašteni Bosch servis. Tamo zamijenite sastavni dio. |
| | Pribijač za čavle upotrebljava se za nedopušteni materijal (npr. beton, kamen). | – Upotrijebite pribijač za čavle samo za dopušteni materijal. (vidi „Namjenska uporaba“, Stranica 9) |

## Servisna služba i savjeti o uporabi

https://www.bosch-pt.com/serviceaddresses

**Hrvatski**
Tel.: +385 12 958 051
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## Zbrinjavanje

Električne alate, aku-baterije, pribor i ambalažu treba dovesti na ekološki prihvatljivo recikliranje.



Električni alat i aku-baterije/baterije ne bacajte u kućni otpad!

**Samo za zemlje EU:**
Električni i elektronski uređaji ili iskorišteni akumulatori/baterije koji više nisu uporabivi, moraju se odvojene sakupljati i zbrinuti na ekološko prihvatljiv način. Koristite predviđene sustave prikupljanja otpada. Nepravilno zbrinjavanje može biti štetno za okoliš i zdravlje zbog opasnih tvari koje može sadržavati.

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