



## Second note on the genus *Neacanista* Gressitt, 1940 (Coleoptera: Cerambycidae: Lamiinae: Acanthocinini)

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Huang *et al.* (2015) treated *Hoploranomimus* Breuning, 1959 (type species: *Acanthocinus harmandi* Pic, 1939) and *Paracanthocinus* Breuning, 1965 (type species: *Paracanthocinus laosensis* Breuning, 1965) as junior synonyms of *Neacanista* Gressitt, 1940 (type species: *Neacanista tuberculipenne* Gressitt, 1940) and commented on the taxonomic status of *Neacanista shirakii* (Mitono, 1943).

Recently, we found that *Paracanthocinus laosensis* Breuning, 1965 is identical to *Sternacanista retrospinosa* Tippmann, 1955 (genotype of *Sternacanista* Tippmann, 1955), therefore, *Sternacanista* Tippmann, 1955 is recognized as a junior synonym of *Neacanista* Gressitt, 1940. Additionally, Gouverneur (2016) transferred *Neacanista shirakii* (Mitono, 1943) to *Trichohoplorana* Breuning, 1961. To date, *Neacanista* consists of three described species. *Neacanista tuberculipenne* is newly recorded from Vietnam based on a specimen collected by Mr. Andre Skale (CASH) in 2015, which also represents the first record of the genus *Neacanista* from Vietnam.

All specimens examined are deposited in the following museums and private collections:

BPBM	Bernice Pauahi Bishop Museum, Honolulu, Hawaii, USA
CASH	Collecton of Andre Skale, Hof/Saale, Germany
NHMB	Naturhistorisches Museum, Basel, Switzerland
SYSU	Sun Yat-sen University, Guangzhou, Guangdong, China

### Taxonomy

#### *Neacanista* Gressitt, 1940

*Neacanista* Gressitt, 1940: 182. Type species: *Neacanista tuberculipenne* Gressitt, 1940, by original designation.

*Sternacanista* Tippmann, 1955: 128. Type species: *Sternacanista retrospinosa* Tippmann, 1955, by original designation. **syn. nov.**

*Hoploranomimus* Breuning, 1959: 87. Type species: *Acanthocinus harmandi* Pic, 1939, by original designation. Synonymized by Huang *et al.*, 2015: 554.

*Paracanthocinus* Breuning, 1965: 52. Type species: *Paracanthocinus laosensis* Breuning, 1965, by original designation. Synonymized by Huang *et al.*, 2015: 554.

**Distribution.** Bhutan, China, Laos, Thailand, Vietnam (new country record).

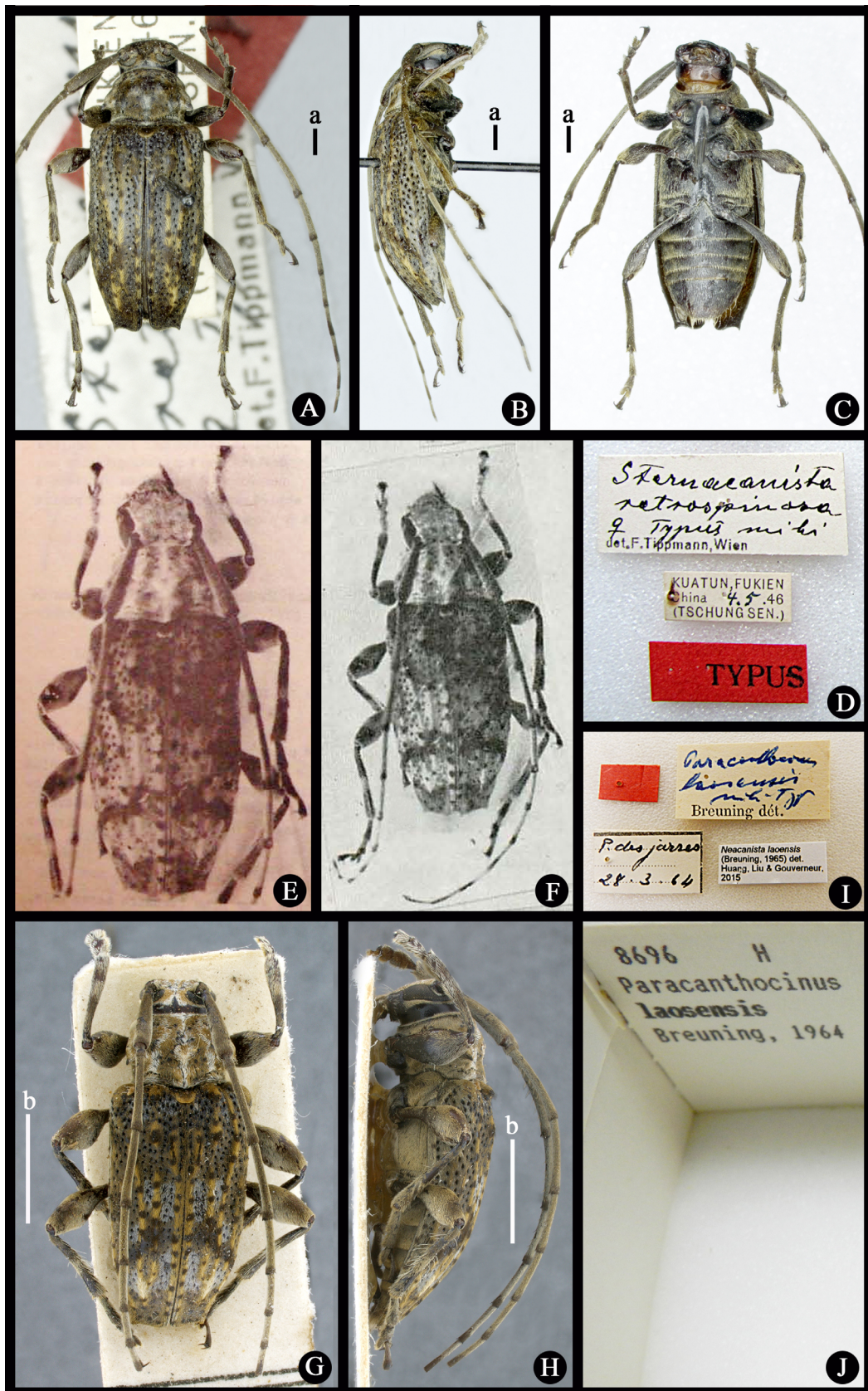
#### *Neacanista retrospinosa* (Tippmann, 1955) comb. nov. (Figure 1)

*Sternacanista retrospinosa* Tippmann, 1955: 130, figs. 20–21. Type locality: Kuatun, Fukien, Southeast China. Type depository: NHMB.

*Paracanthocinus laosensis* Breuning, 1965: 53, fig. page 52 (bas). Type locality: “Plaine des Jarres, région de Xieng Khouang, Laos”. Type depository: BPBM. **syn. nov.**

*Neacanista laosensis*: Huang *et al.*, 2015: 559, figs. 20–31, 34 (3).

**Type material examined.** Holotype of *Sternacanista retrospinosa* Tippmann, 1955, female (NHMB, Figs. 1A–1D), *Sternacanista retrospinosa* ♀ *Typus mihi* det. F. Tippmann, Wien (“*Sternacanista retrospinosa* ♀ *Typus mihi*” handwritten and “det. F. Tippmann, Wien” printed on a rectangular white label in black ink)/ KUATUN, FUKIEN, China 4. 5. 46 (TSCHUNG SEN.) (“KUATUN, FUKIEN, China, .46 (TSCHUNG SEN.)” printed and “4. 5” handwritten on a rectangular white label in black ink)/ TYPUS (printed on a rectangular red label in black ink).



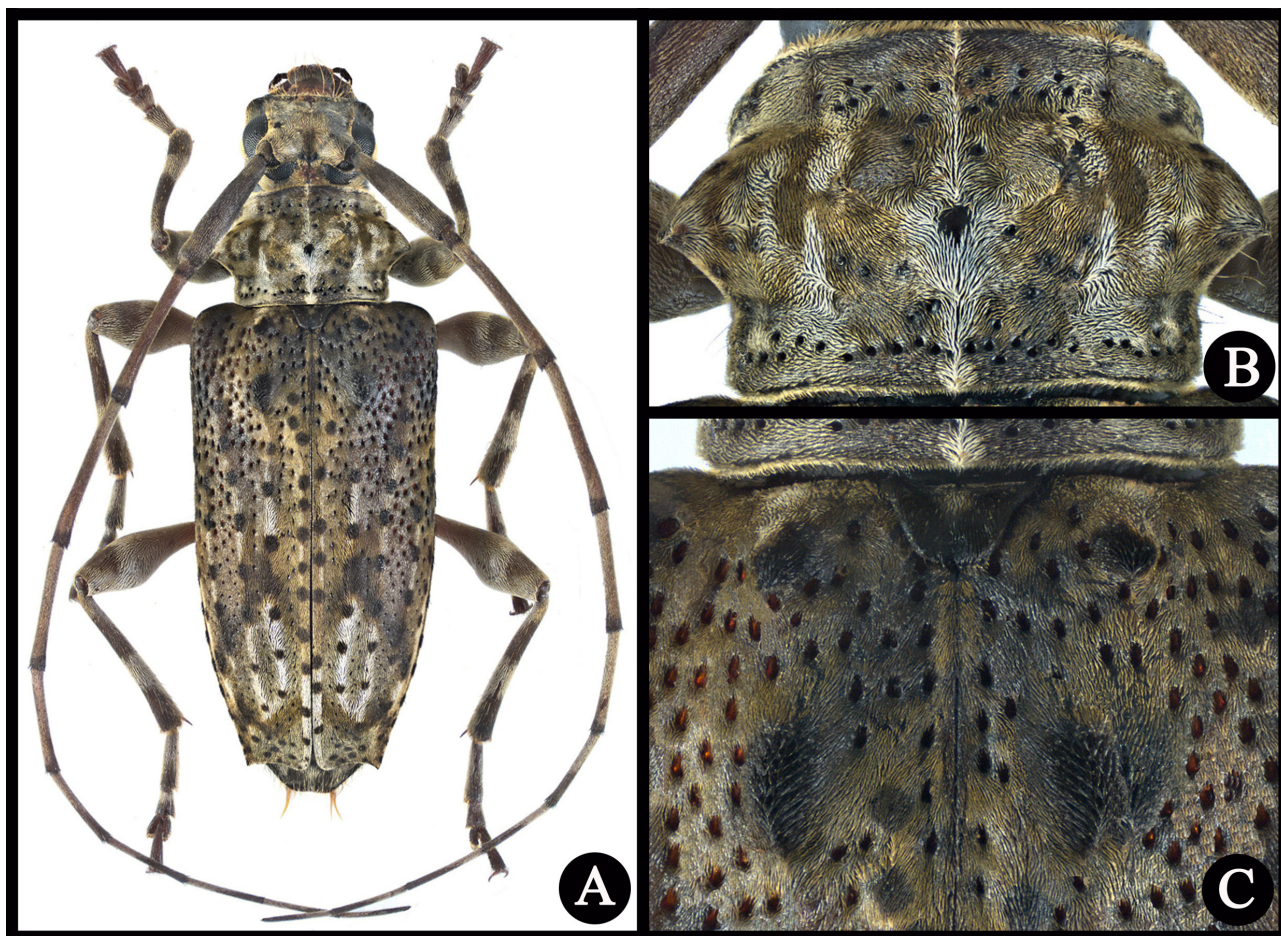
**FIGURE 1.** *Neacanista retrospinosa*. A–D. *Sternacanista retrospinosa* Tippmann, 1955, holotype, female. A. dorsal view; B. lateral view; C. ventral view; D. labels (photographs taken by Eva Sprecher); E–J. *Paracanthocinus laosensis* Breuning, 1965. E–F. holotype photographs from publications. E. figure published in Breuning (1965); F. figure 41g published in Rondon & Breuning (1970). G–J. paratype, male. G. dorsal view; H. lateral view; I. labels; J. tray that the specimen in fig. 1G is deposited in, indicating that it was considered as the holotype (photographs taken by James H. Boone). Scale bars: a = 1 mm, b = 2 mm.

One paratype of *Paracanthocinus laosensis* Breuning, 1965, male (BPBM, Figs. 1G–1J), *Paracanthocinus laosensis, mihi typ*, Breuning dét. (“*Paracanthocinus laosensis, mihi typ*” handwritten in blue ink and “Breuning dét.” printed in black ink on a rectangular white label)/ *P. des jarres*, 28. 3. 64 (handwritten on a rectangular white label with black border in black ink)/ *Neacanista laosensis* (Breuning, 1965) det. Huang, Liu & Gouverneur, 2015 (printed on a rectangular white label in black ink).

**Distribution.** China (Fujian, Guangxi), Laos (Xieng Khouang).

**Remarks.** Based on the holotype of *Sternacanista retrospinosa* Tippmann, 1955 and a series of specimens from Fujian and Guangxi Provinces (Huang *et al.*, 2015), and a series of specimens of *Neacanista laosensis* (Breuning, 1965) from Laos (via photographs taken by James H. Boone), we conclude that these specimens are identical and propose the following new combination and synonymy: *Neacanista retrospinosa* (Tippmann, 1955) comb. nov. is the valid name according to the Principle of Priority (ICZN Article 23). Since *Sternacanista retrospinosa* Tippmann, 1955 is the genotype, *Sternacanista* Tippmann, 1955 is treated as a junior synonym of *Neacanista* Gressitt, 1940.

According to Breuning (1965), the holotype specimen of *Paracanthocinus laosensis* should be 10 mm long by 4 mm wide. Regarding the type specimens, Breuning (1965) stated “Type du Laos, capturé dans la Plaine des Jarres, région de Xieng-Khouang, en Mars 1964, avec plusieurs paratypes.” We believe the specimen in the original photograph (Fig. 1E) should be considered the holotype specimen and that additional specimens from the same series should be considered paratypes. Rondon & Breuning (1970) published a more complete version of the same photograph in their figure 41g (Fig. 1F). The gender of the holotype was not mentioned and it is difficult to determine based on these two photographs. We were unable to examine the holotype which should be deposited in BPBM. There are 22 specimens in the BPBM (James H. Boone, personal communication, 2017-III-28), and the one in Figs. 1G–J has been considered as the holotype. The holotype might have been remounted/repositioned after the photograph was taken (Figs. 1E–F), shown in the original publication and Rondon & Breuning (1970). However, we conclude that the specimen shown in Figs. 1G–I is not the holotype shown in the original paper, based on the black spots along the elytral suture and on the middle part of left elytron.



**FIGURE 2.** *Neacanista tuberculipenne*, female from Vietnam. A. dorsal view; B. pronotum; C. elytral base. Photographs taken by Udo Schmidt.

### ***Neacanista tuberculipenne* Gressitt, 1940 (Figure 2)**

*Neacanista tuberculipenne* Gressitt, 1940: 182, pl. 7, fig. 7. Type locality: “Tai-tsing-lam-ts’uen, back of Loi mo-ling, central Hainan, South China”. Type depository: SYSU.

**Material examined.** 1 female (CASH), **Vietnam:** Bac Giang Prov., Tay Yen Tu Nat. Res., Thanh So’n, 21°12.812' N, 106°45.846' E, alt. 86m, 18–21. V. 2015, A. Skale leg.

**Distribution.** China (Chongqing, Hainan, Yunnan), Vietnam (Bac Giang, new record).

### ***Neacanista harmandi* (Pic, 1939)**

*Acanthocinus Harmandi* Pic, 1939: 183. Type locality: “Lakhon”. Type depository: MNHN.

*Hoploraanomimus harmandi*: Breuning, 1959: 88.

*Neacanista harmandi*: Huang *et al.*, 2015: 557, figs. 15–17, 34 (2).

**Distribution.** Bhutan, Laos, Thailand.

**Remarks.** Huang *et al.* (2015) discussed the type locality of this species, but we believe that “Lakhon” may refer to the modern town named Nakhon Phanom (capital of Nakhon Phanom Province, Thailand) which we found studying the maps in Huang *et al.* (2015) (see figs. 18, 19).

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### **References**

- Breuning, S. (1959) Nouveaux genres de Lamiinae (Coleoptera, Cerambycidae). *Bulletin & Annales de la Société Royale d'Entomologie de Belgique, Bruxelles*, 95, 70–88.
- Breuning, S. (1965) Contribution à la connaissance des Lamiens du Laos (Coll. Ceramb.) 12ème Partie. *Bulletin de la Société Royale des Sciences Naturelles du Laos*, 13, 41–54. [1964]
- Gouverneur, X. (2016) Description d’une nouvelle espèce du genre *Trichohoplorana* Breuning, 1961 du Laos (Coleoptera, Cerambycidae, Lamiinae, Acanthocinini). *Les Cahiers Magellanes, New Series*, 23, 72–76.
- Gressitt, J.L. (1940) The Longicorn Beetles of Hainan Island, Coleoptera: Cerambycidae. *The Philippine Journal of Science*, 72 (1–2), 1–239.
- Huang, G.-Q., Liu, B. & Gouverneur, X. (2015) Note on the genus *Neacanista* Gressitt, 1940 (Coleoptera: Cerambycidae: Lamiinae: Acanthocinini). *Zootaxa*, 3981 (4), 553–564.  
<https://doi.org/10.11646/zootaxa.3981.4.6>
- Pic, M. (1939) Nouveaux cérambycides [Col.]. *Revue Française d'Entomologie, Paris*, 6 (3–4), 182–183.
- Rondon, J.A. & Breuning, S. (1970) Lamiines du Laos. In: Gressitt, J.L., Rondon, J.A. & Breuning, S. (Eds.), *Cerambycid beetles of Laos (Longicornes du Laos)*. *Pacific Insects Monograph 24*. Bishop Museum, Hawaii, pp. 315–571.
- Tippmann, F.F. (1955) Zur Kenntnis der Cerambycidenfauna Fukiens (Süd-Ost-China). *Koleopterologische Rundschau, Wien*, 33 (1–6), 88–137.