

JR'S CUSTOM SHOP GUITARS

# PROFESSIONAL REFRET & SETUP MANUAL

1990 Yamaha Pacifica 921 • Public Edition



COMPLETE REFRET / PROFESSIONAL SETUP / PLAYABILITY OPTIMIZATION

Torrance Guitar Setup & Repair

## DOCUMENT NAVIGATION

## Table of Contents

*Permanent service record • prepared for printing and archive*

|                                                        |    |
|--------------------------------------------------------|----|
| <b>Instrument &amp; Service Record</b> .....           | 3  |
| <b>Incoming Inspection</b> .....                       | 4  |
| <b>Refret Record</b> .....                             | 5  |
| Fret Removal .....                                     | 5  |
| Fingerboard Preparation & Slot Cleaning .....          | 6  |
| Installation, Seating & End Dressing .....             | 7  |
| Leveling, Crowning, Polishing & Final Inspection ..... | 8  |
| <b>Final Setup Specifications</b> .....                | 9  |
| <b>Tremolo, Locking System &amp; Electronics</b> ..... | 10 |
| <b>OEM Specifications</b> .....                        | 11 |
| <b>Appendix A — Yamaha RM-Pro II</b> .....             | 13 |
| <b>Appendix B — Jescar FW47104</b> .....               | 16 |
| <b>Maintenance Recommendations</b> .....               | 17 |
| <b>Final Inspection Checklist</b> .....                | 18 |
| <b>Certificate of Service</b> .....                    | 19 |
| <b>Sources &amp; Record Notes</b> .....                | 20 |

**RECORD STATUS** OEM values are transcribed from the supplied Yamaha Pacifica 921 reference. Service measurements are limited to values provided in the work order. General technical guidance is labeled separately.

PERMANENT SERVICE RECORD

Instrument & Service Record

JR's Custom Shop Guitars • Torrance Guitar Setup & Repair

|                    |                                                                                 |
|--------------------|---------------------------------------------------------------------------------|
| Instrument         | 1990 Yamaha Pacifica 921                                                        |
| Serial number      | Omitted in public edition                                                       |
| Service date       | July 17–22, 2026                                                                |
| Technician         | Jeff Russell                                                                    |
| Shop               | JR's Custom Shop Guitars — Torrance Guitar Setup & Repair                       |
| Service scope      | Complete refret; professional setup; playability optimization; final inspection |
| Installed fretwire | Jescar FW47104 Medium/Jumbo, 18% nickel silver                                  |
| String set         | Elixir 10–46; standard tuning (E–A–D–G–B–E)                                     |



Figure 1. Public-edition instrument overview during the service process. Identifying serial information is omitted. *Source: Shop-supplied service photograph IMG\_7108.*

CONDITION DOCUMENTATION

Incoming Inspection

*Observed condition and service authorization basis*

The supplied photographs establish the instrument's identity and visible pre-service fret wear. The shop recorded remaining fret height between 0.60 mm and 1.00 mm across the original fret set. The customer authorized new frets, and a crown-and-polish-only service was not considered viable because some frets were worn too low to recrown while retaining serviceable height.



Figure 2. Incoming fret condition. (A) Broad view of the rosewood fingerboard and original frets. (B) Detail view showing flattened crown surfaces and localized playing wear. Source: Service photograph supplied with work order.

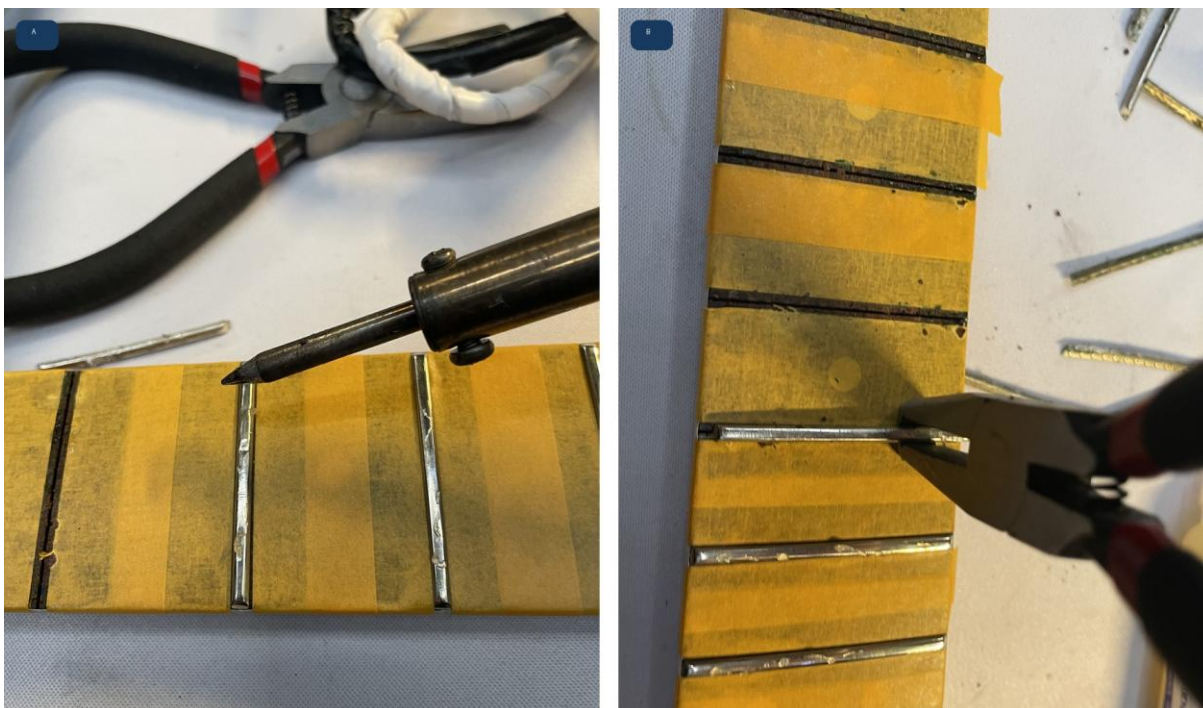
| Inspection area   | Documented observation                                                                                                   | Record limitation                                                         |
|-------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Frets             | Visible crown flattening and localized playing wear; shop-recorded remaining fret height ranged from 0.60 mm to 1.00 mm. | Shop-supplied millimeter measurements; no photographic estimate was used. |
| Fingerboard       | Rosewood fingerboard and dot inlays are visible.                                                                         | No moisture-content reading was supplied.                                 |
| Finish / hardware | Blue metallic body, white pickguard, chrome hardware, and RM-Pro II bridge are photographed.                             | Cosmetic grading was not requested.                                       |
| Electronics       | Work order states factory original, with no modifications.                                                               | Pickup heights were not measured.                                         |

## REFRET RECORD • STAGE 1

## Fret Removal

*Controlled extraction with the fingerboard protected*

**Work log — July 15–18.** Replacement fretwire was ordered July 15. Measurements and additional photographs were taken July 17; the refret bench was prepared and fret removal began. By July 18 all original frets had been removed. Six localized chip repairs were identified for the preparation stage.



**Figure 3.** Photographically documented removal. (A) Localized heat applied at a fret. (B) A fret being lifted with fret-removal pliers; removed wire is visible nearby. *Source: Service photograph supplied with work order.*

1. Support the detached neck securely and protect the fingerboard surface around each fret.
2. Apply localized heat at the fret crown as documented; the exact temperature and dwell time were not recorded.
3. Lift the fret progressively with a flush-ground removal tool to limit chip-out. The photographs confirm extraction, not the exact pass count.
4. Inspect each exposed slot and board edge before advancing.

**VERIFICATION BASIS** Removal method is described only to the level shown in the supplied photographs. No claim is made about exact heat settings, adhesive chemistry, or tool brand.

## REFRET RECORD • STAGE 2

## Fingerboard Preparation & Slot Cleaning

*Establishing a clean, stable foundation for new fretwire*



**Figure 4.** Fingerboard after extraction. (A) Removed fretwire beside the protected board. (B) Cleaned slot field with the original compound-radius rosewood surface exposed. *Source: Service photograph supplied with work order.*

**Work log — July 19.** The fingerboard was sanded and polished, the fret slots were filed and cleaned, and six chip areas were filled. The board was prepared for new wire while maintaining the documented compound-radius progression. No numeric slot dimensions were supplied.

| Stage                      | Professional acceptance criterion                                                 | Verification in this record                                  |
|----------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------|
| <b>Board protection</b>    | Work area isolated; inlays and board surface protected from unnecessary abrasion. | Masking is visible in the removal sequence.                  |
| <b>Slot cleaning</b>       | Slots free of loose debris while original slot geometry is preserved.             | Exposed and cleaned slots are photographed.                  |
| <b>Surface preparation</b> | Board is stable and ready to receive wire across the compound radius.             | Completed installed-wire photographs confirm subsequent fit. |
| <b>Measurement</b>         | Slot width/depth checked if service conditions require.                           | No numeric slot measurements were supplied; none are stated. |

REFRET RECORD • STAGE 3

Installation, Seating & End Dressing

Jescar FW47104 medium/jumbo nickel silver

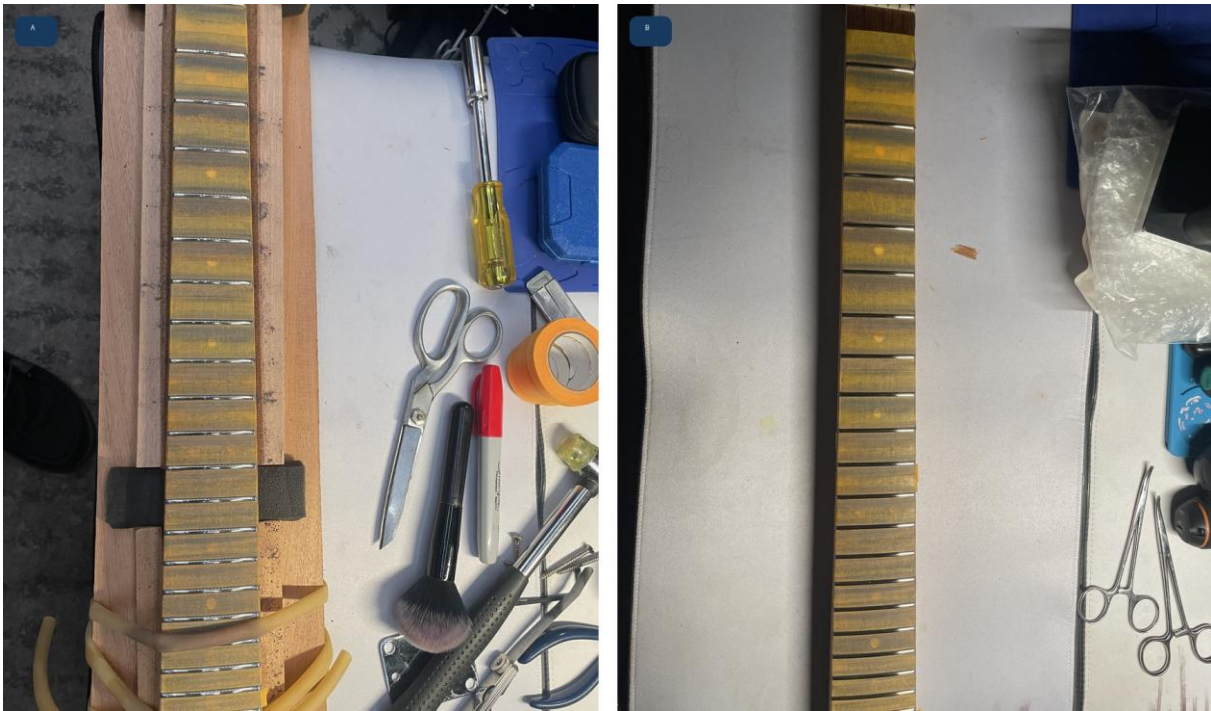


Figure 5. Installed fretwire under protective masking. The continuous crown line and seated fret ends are visible across the neck.  
Source: Service photograph supplied with work order.

|                      |                   |
|----------------------|-------------------|
| Manufacturer         | Jescar            |
| Reference            | FW47104           |
| Material installed   | 18% nickel silver |
| Nominal crown width  | .104 in (2.64 mm) |
| Nominal crown height | .047 in (1.19 mm) |
| Profile              | Medium/Jumbo      |

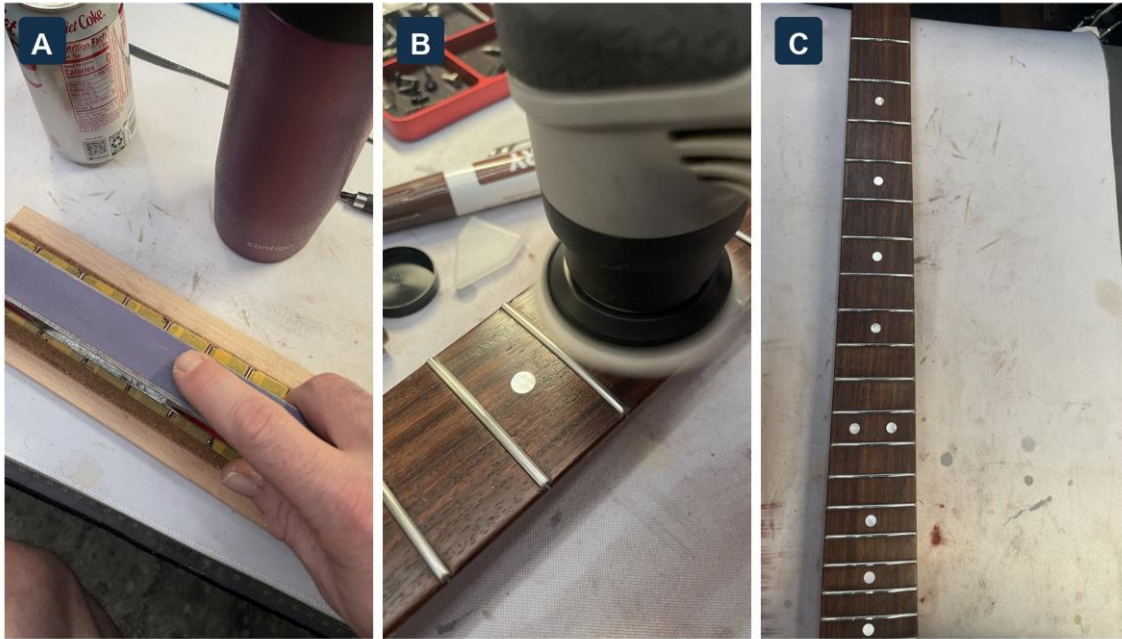
**Work log — July 19.** Jescar FW47104 wire was formed to the 9.5-to-15.75-inch compound-radius progression and all 22 frets were installed. The fingerboard was protected and wax was used during the operation; the shop log records CA adhesive for permanent fret retention.

**Seating and subsequent finish work.** The installed fret field was prepared for final board touch-up, fret-end dressing, leveling, crowning, progressive polishing, and tang-end finishing. Those shop-recorded operations are documented in Stage 4.

## REFRET RECORD • STAGE 4

## Leveling, Crowning, Progressive Polishing & Final Inspection

*Shop-recorded work log: July 20–21 • final release checklist remains open*



**Figure 6.** Documented Stage 4 work. (A) Leveling-beam passes across the masked fret field. (B) Powered final polishing. (C) Polished fret field after dressing and surface work. *Source: Shop-supplied service photographs IMG\_7097, IMG\_7105, and IMG\_7101.*

| Operation                              | Function                                                            | Record statement                                                                                                                   |
|----------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Leveling &amp; verification</b>     | Establishes the playing plane and identifies localized high points. | July 20–21: red-marker witness coat; beam passes; single-fret file; fret-rocker checks; final passes. Removal amount not recorded. |
| <b>Crowning</b>                        | Restores a narrow string-contact apex after leveling.               | MusicNomad crowning tool used on all 22 frets, as recorded in the shop log.                                                        |
| <b>Ends &amp; tangs</b>                | Brings fret ends flush, smooth, rounded, and secure.                | StewMac fret-end file; Baroque file rounding; tangs filed flush; thin CA applied at tang ends.                                     |
| <b>Progressive polish &amp; finish</b> | Refines scratches and completes the fret and tang-end surface work. | 400 / 800 / 1500 / 3000 / 4000 grit; tang ends sanded; color-matched Minwax poly; final wheel polish.                              |

**PROFESSIONAL RECORD CONVENTION** The service is certified as a complete refret. Process variables absent from the work order or photographs remain intentionally unspecified.

## MEASURED SERVICE RESULT

## Final Setup Specifications

*Shop-recorded before-and-current measurements • release checklist remains open*

| Setup parameter           | Recorded value / measured change                      |
|---------------------------|-------------------------------------------------------|
| Strings / tuning          | Elixir 10-46 / Standard E-A-D-G-B-E                   |
| Neck relief               | 0.25 mm → 0.20 mm (-0.050 mm)                         |
| High E action @ 3rd fret  | 1.00 mm → 0.50 mm (-0.500 mm)                         |
| Low E action @ 3rd fret   | 1.40 mm → 1.50 mm (+0.100 mm)                         |
| High E action @ 12th fret | 1.60 mm → 1.25 mm (-0.350 mm)                         |
| Low E action @ 12th fret  | 2.15 mm → 2.25 mm (+0.100 mm)                         |
| First-fret clearance      | Not Measured                                          |
| Fingerboard radius        | Compound: 9.5 in to 15.75 in — confirmed during setup |
| Pickup heights            | Not Measured                                          |

**MEASUREMENT INTEGRITY** No values have been estimated from photographs. Items not measured remain explicitly marked "Not Measured."

## Playability optimization

- Relief and action were adjusted to the current shop-recorded values shown above with the specified string gauge and tuning.
- The compound radius was confirmed during setup.
- Intonation was completed after tremolo balance and tuning stability were established.
- Return to pitch was verified as part of the floating-bridge setup.

SYSTEM COMPLETION

Tremolo, Locking System & Electronics

Factory systems retained and verified

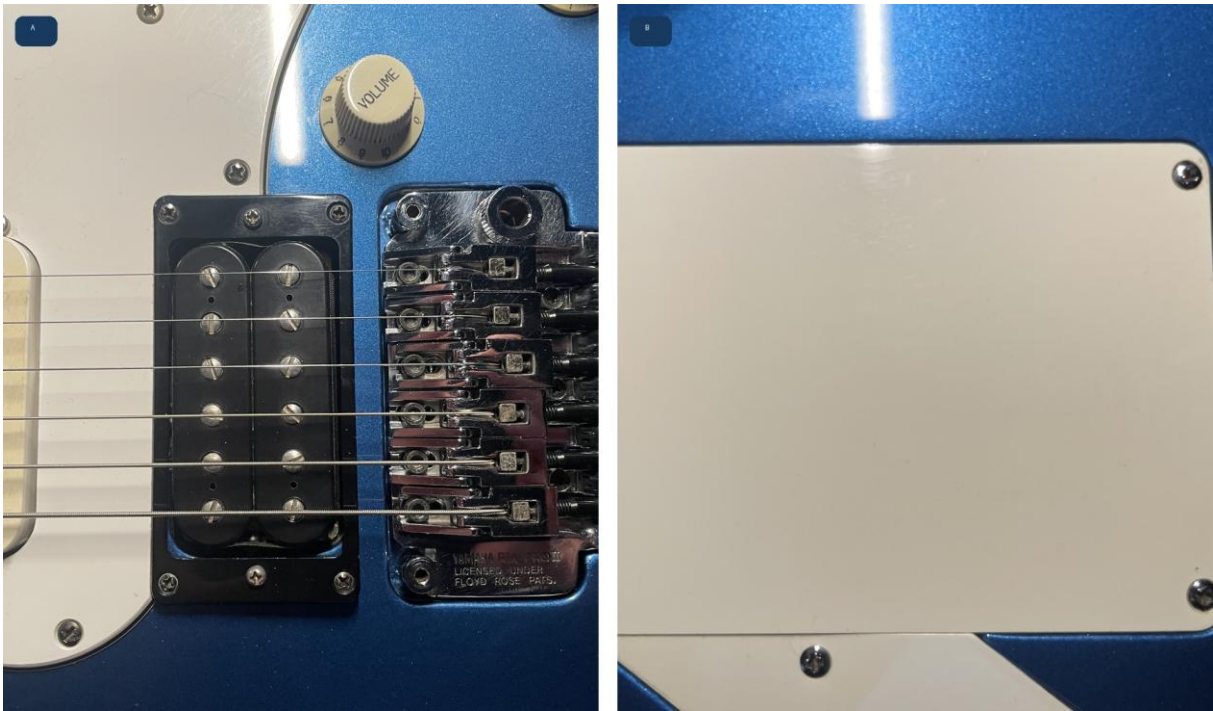


Figure 7. Factory Yamaha RM-Pro II. (A) Bridge, saddles, fine tuners, and HSH pickup field. (B) Rear tremolo-cavity cover and access opening. Source: Service photograph supplied with work order.

| System            | Final service record                                                                                                            |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------|
| RM-Pro II tremolo | Floating setup; bridge balanced; spring tension adjusted; return to pitch verified; fine tuners centered; intonation completed. |
| Locking nut       | Factory height retained; no shims installed; no height adjustment required; locking function verified.                          |
| Electronics       | Factory original; no electronic modifications; no pickup changes; electronics tested.                                           |
| Hardware          | No hardware replacement recorded; hardware checked during final inspection.                                                     |
| Pickup heights    | Not Measured.                                                                                                                   |

## AUTHORITATIVE MODEL REFERENCE • PART 1

## OEM Specifications — Identity, Body &amp; Electronics

*Transcribed from the supplied Yamaha Pacifica 921 documentation*

**SOURCE BOUNDARY** This section uses the supplied Yamaha Pacifica 921 document as the authoritative source for model specifications. The instrument-specific service values appear on pages 9–10.

|                         |                                                     |
|-------------------------|-----------------------------------------------------|
| Model                   | Yamaha Pacifica 921                                 |
| Production years        | 1989 to 1990                                        |
| Service instrument year | 1990, as identified in the work order               |
| Made in                 | Taiwan, Province of China                           |
| Construction            | Bolt-on; Total Access Neck Joint System             |
| Orientation / strings   | Right-handed / 6-string                             |
| Body style              | Strat                                               |
| Body wood               | Swamp ash                                           |
| Body features           | Bi-Axial body bevel; no top; not carved; no binding |
| Body finish             | Gloss                                               |
| Pickguard               | White                                               |
| Pickup configuration    | HSH; American-made DiMarzio pickups                 |
| Neck pickup             | DiMarzio DHW1 humbucker (white)                     |
| Middle pickup           | DiMarzio DSNW single-coil                           |
| Bridge pickup           | DiMarzio DHB1 humbucker (black)                     |
| Controls                | 1 volume; 1 tone; 5-way switch; white controls      |
| Piezo                   | No                                                  |

## AUTHORITATIVE MODEL REFERENCE • PART 2

## OEM Specifications — Neck, Hardware &amp; Finish

*Transcribed without substitution from the supplied reference*

|                         |                                                           |
|-------------------------|-----------------------------------------------------------|
| Scale length            | 25.5 in (648 mm)                                          |
| Neck material           | Maple; 1 piece; natural; no binding                       |
| Neck source             | Warmoth-made neck, as stated in the supplied reference    |
| Fingerboard             | Rosewood; dot pearl inlays; not scalloped                 |
| Fingerboard radius      | Compound: 240 mm (9.5 in) to 400 mm (15.75 in)            |
| Nut width               | 43 mm (1-11/16 in)                                        |
| Width at 12th fret      | 52.6 mm                                                   |
| Width at final fret     | 57.5 mm                                                   |
| Thickness at nut        | 19.20 mm                                                  |
| Thickness at 12th fret  | 20.95 mm                                                  |
| Original frets          | 22; jumbo                                                 |
| Locking nut             | Height-adjustable locking nut                             |
| Tuning machines         | Yamaha; 6-in-line; not locking; not reversed              |
| Bridge / tremolo        | Yamaha RM-Pro II; Floyd Rose type                         |
| Hardware color          | Chrome                                                    |
| Weight                  | 3500 g / 7.72 lb                                          |
| Original finish options | Black Pearl; Pearl White; Crimson Red; Dark Blue Metallic |

**FINISH IDENTIFICATION** The supplied photographs show a blue metallic instrument. This service record does not independently authenticate the factory finish name beyond listing the original options from the supplied model reference.

## APPENDIX A • SUPPLIED + OFFICIAL TECHNICAL REFERENCE

## Yamaha RM-Pro II — History &amp; Construction

*Source-labeled technical appendix*



Figure 8. Service-access documentation. The neck was removed during the refret; the factory Yamaha tuners and locking-nut assembly were retained. *Source: Service photograph supplied with work order.*

### History — what the sources establish

**Supplied Yamaha Pacifica 921 documentation.** The model reference places the Pacifica 921 in 1989–1990 production and identifies its bridge as the Yamaha RM-Pro II, described as a Floyd Rose-type double-locking tremolo. This provides period context for the bridge fitted to this instrument.

**Official Yamaha owner’s manual.** Yamaha labels the RM-Pro II / III as a “Yamaha Original Design” vibrato system and gives dedicated restringing, balance, arm-tension, and intonation procedures. Neither source supplied for this project states a precise RM-Pro II introduction date or designer; no such claim is made here.

### Construction — verified functional elements

- Double-locking architecture: locking nut plus individual bridge-end string locks.
- Rear/top-loading string path that retains the ball end, as described by Yamaha.
- Individual saddles, fine tuners, saddle-position locks, intonation screws below the string mounting holes, and a pop-in/out arm with adjustable collar.
- Two-pivot floating bridge opposed by rear cavity springs and a claw.

## APPENDIX A • GENERAL TECHNICAL REFERENCE

## RM-Pro II Compared with Original Floyd Rose &amp; Ibanez Edge

*Functional comparison; not a claim of parts interchangeability*

| Feature                   | Yamaha RM-Pro II                                                                         | Original Floyd Rose                                                                  | Ibanez Edge                                                                          |
|---------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>System class</b>       | Double-locking, knife-edge floating tremolo.                                             | Double-locking, knife-edge floating tremolo.                                         | Double-locking, knife-edge floating tremolo.                                         |
| <b>String loading</b>     | Yamaha manual: rear/top-loaded; ball ends retained.                                      | Typical Original system clamps cut string ends in saddle blocks.                     | Edge-family manuals use individual bridge string locks; procedure depends on model.  |
| <b>Fine tuning</b>        | Six bridge fine tuners; center before nut locking.                                       | Six bridge fine tuners; center before nut locking.                                   | Six bridge fine tuners; center before nut locking.                                   |
| <b>Balance</b>            | String tension opposed by claw springs; Yamaha specifies bridge plate parallel at pitch. | Same general force balance; manufacturer setup calls for a level/parallel baseplate. | Same general force balance; setup reference is model-specific.                       |
| <b>Intonation</b>         | Lock saddle, then adjust with a hex screw below each string-loading hole per Yamaha.     | Saddle lock is loosened and saddle position moved; dedicated tools may assist.       | Saddle lock is loosened; Ibanez offers an Edge intonation tool for supported models. |
| <b>Arm interface</b>      | Pop-in/out arm; adjustable arm collar.                                                   | Current Original uses a screw-on-cap arm assembly.                                   | Edge uses its own arm/socket system; details vary by generation.                     |
| <b>Interchangeability</b> | Not established by supplied documentation.                                               | Do not assume direct fit based on appearance.                                        | Do not assume direct fit based on appearance.                                        |

**GENERAL-REFERENCE BOUNDARY** The comparison summarizes operating architecture using official Yamaha, Floyd Rose, and Ibanez references. It does not assert identical dimensions, metallurgy, routing, stud spacing, or interchangeable parts.

## APPENDIX A • SERVICE PRACTICE

## RM-Pro II Setup Characteristics & Common Service Procedures

*Yamaha instructions separated from general professional practice*

### Yamaha-documented setup sequence

1. Loosen the three locking-nut pad screws and the individual bridge string locks.
2. Install strings through the RM-Pro II rear/top-loading path and tune to pitch.
3. Lock each string at the bridge and center the fine tuners before final tuning.
4. Balance claw-spring tension so the bridge plate is parallel to the guitar top at pitch; retune after each change.
5. Lock the strings at the nut and complete pitch correction with the bridge fine tuners.
6. For intonation, unlock the saddle, use the dedicated hex adjustment screw below the string-loading hole, then secure the saddle.

### General technical reference

| Service area        | Recommended professional practice                                                                                                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Knife edges / posts | Keep contact surfaces clean. Inspect for rounding, chips, burrs, corrosion, or unstable seating. Avoid abrasive “sharpening” in routine maintenance and avoid post-height changes under full string tension. |
| Spring balancing    | Match the spring system to string gauge and tuning. Adjust claw screws evenly in small increments, retuning and rechecking plate attitude after every change.                                                |
| Locking nut         | Keep pad faces clean, orient pads correctly, and tighten only enough to lock. Inspect pad screws and base attachment; do not add shims unless a measured height correction requires them.                    |
| Lubrication         | Use only a minimal amount of suitable lubricant at service points when needed. Keep lubricant away from clamp faces, wood, finish, and threads that must hold securely.                                      |
| Common procedures   | String change, spring rebalance, fine-tuner recentering, arm-collar adjustment, intonation, saddle-lock inspection, nut-pad inspection, and return-to-pitch diagnosis.                                       |

**THIS INSTRUMENT** Factory locking-nut height was retained with no shims and no height adjustment. The RM-Pro II was balanced floating, spring tension adjusted, fine tuners centered, intonation completed, and return to pitch verified.

## APPENDIX B • MANUFACTURER TECHNICAL REFERENCE

## Jescar FW47104 Medium/Jumbo Nickel Silver

*Installed fretwire profile and ownership guidance*

|                                 |                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------|
| <b>Manufacturer</b>             | Jescar Music                                                                         |
| <b>Reference</b>                | FW47104 / Fret Wire 47104                                                            |
| <b>Installed material</b>       | 18% nickel silver (Jescar designation NS18%)                                         |
| <b>Nominal crown dimensions</b> | .104 in wide × .047 in high (2.64 × 1.19 mm)                                         |
| <b>Nominal tang width</b>       | .0200 in (manufacturer specification; not a measured slot value for this instrument) |
| <b>Manufacturer category</b>    | Medium/Jumbo; described by Jescar as a popular electric-guitar profile               |

### Why this profile is commonly selected

The combination of a broad .104-inch crown and moderate .047-inch height offers a familiar modern electric-guitar feel: enough height for controlled bends and vibrato without entering the tallest jumbo category. Profile preference remains personal and setup-dependent.

### Advantages relative to smaller vintage-style wire

- More crown height can reduce fingerboard contact during bends and vibrato when fretting pressure is controlled.
- The broader crown can feel stable under the string and provides useful material for future leveling, subject to actual wear and crown condition.
- The modern profile suits the Pacifica 921's performance-oriented compound-radius neck while retaining conventional nickel-silver serviceability.

### Playing character, lifespan & maintenance

FW47104 generally provides a substantial but not extreme fret feel. Nickel silver will wear with use; a responsible fixed lifespan cannot be stated because technique, string material, hours played, corrosion, and setup all matter. Clean strings and frets, avoid abrasive household polishes, and schedule inspection when grooves, rough bending, buzzing, or intonation changes appear.

## OWNER CARE

## Maintenance Recommendations

*Preserving the refret, setup, and factory hardware*

| Area                  | Recommendation                                                                                                                                             | Service trigger                                                                     |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Cleaning              | After playing, wipe strings, fret tops, bridge, and hardware with a clean dry microfiber cloth. Use finish-appropriate products sparingly.                 | Persistent residue, corrosion, or rough fret feel.                                  |
| Humidity / storage    | Keep the instrument in a stable, moderate indoor environment. Avoid direct sun, heaters, hot vehicles, damp rooms, and rapid humidity swings.              | Sharp fret ends, changing relief, swelling, cracking, or persistent tuning change.  |
| Fret polishing        | Use non-aggressive, instrument-appropriate materials and protect the rosewood board. Do not remove metal merely to increase shine.                         | Visible oxidation or bending friction that cleaning does not resolve.               |
| String changes        | Replace with Elixir 10–46 if the current balance is to be preserved. Change one at a time unless blocking/supporting the floating bridge for full removal. | Gauge, brand tension, or tuning change requires rebalance and intonation check.     |
| Locking nut           | Center fine tuners before locking. Keep pad faces clean and tighten only enough to secure pitch.                                                           | Slippage, damaged threads, uneven pad contact, or recurring tuning drift.           |
| RM-Pro II lubrication | Only if needed, apply a minute amount of suitable lubricant to approved moving contact points; keep clamps and wood clean and dry.                         | Noise, binding, corrosion, or poor return to pitch after balance checks.            |
| Seasonal relief       | Check relief and action after environmental changes. Make gradual truss-rod corrections only with the correct tool and experience.                         | Buzzing, high action, or a measurable relief change that remains after acclimation. |

**CURRENT BASELINE** Elixir 10–46 in standard tuning; relief 0.20 mm; 3rd-fret action 0.50 mm high E / 1.50 mm low E; 12th-fret action 1.25 mm high E / 2.25 mm low E. Changes in gauge or tuning may require a complete floating-bridge rebalance.

## QUALITY CONTROL

## Final Inspection Checklist

*Complete at final release and retain with the service record*

|                                                |                                                   |
|------------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> Neck relief verified  | <input type="checkbox"/> Electronics tested       |
| <input type="checkbox"/> Action verified       | <input type="checkbox"/> Hardware tightened       |
| <input type="checkbox"/> Intonation completed  | <input type="checkbox"/> Play tested              |
| <input type="checkbox"/> Tremolo balanced      | <input type="checkbox"/> Final cleaning completed |
| <input type="checkbox"/> Locking nut inspected | <input type="checkbox"/> Ready for customer       |

## Release notes

|                         |                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tuning at release       | Standard E–A–D–G–B–E                                                                                                                                                                                                       |
| Strings at release      | Elixir 10–46                                                                                                                                                                                                               |
| Exceptions / advisories | Humid weather service will assure the frets will sprout when the weather cools. I added CA glue to the fret ends to help minimize the feeling of sprouting, however, a service is recommended after the fall seasons ends. |
| QC initials             | JR                                                                                                                                                                                                                         |
| Release date            | 7/23/2026                                                                                                                                                                                                                  |

**NOT MEASURED** First-fret clearance and pickup heights remain Not Measured; the checklist does not imply otherwise.

## CUSTOMER RECORD

## Certificate of Service

*Complete refret • professional setup • playability optimization*

## JR'S CUSTOM SHOP GUITARS

## Torrance Guitar Setup &amp; Repair

|                     |                                                                                                                                                                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instrument          | 1990 Yamaha Pacifica 921                                                                                                                                                                                                                     |
| Serial number       | Omitted in public edition                                                                                                                                                                                                                    |
| Service date        | July 17–22, 2026                                                                                                                                                                                                                             |
| Technician          | Jeff Russell                                                                                                                                                                                                                                 |
| Shop                | JR's Custom Shop Guitars — Torrance Guitar Setup & Repair                                                                                                                                                                                    |
| Description of work | Complete refret using Jescar FW47104 medium/jumbo 18% nickel-silver fretwire; professional setup with Elixir 10–46 strings in standard tuning; floating Yamaha RM-Pro II balance and intonation; playability optimization; final inspection. |

This certificate records the service scope and final settings stated in this manual. It does not replace future condition inspections, and it does not assign unmeasured values.

Technician signature \_\_\_\_\_ Date \_\_\_\_\_

Customer acknowledgment \_\_\_\_\_ Date \_\_\_\_\_

## PERMANENT SERVICE DOCUMENTATION

## DOCUMENTATION CONTROL

## Sources & Record Notes

*Clear separation of OEM data, service data, and general technical reference*

### Primary supplied sources

1. Yamaha Pacifica 921.docx — supplied model reference and authoritative source for the OEM specification tables on pages 11–12.
2. Shop-supplied service measurements and work-log details — authoritative source for the before/current setup measurements, dated operations, installed fretwire, retained hardware, and reported service outcomes.
3. Selected shop-supplied service photographs used in Figures 1–8. Stage 4 uses IMG\_7097, IMG\_7105, and IMG\_7101.

### Official general technical references

4. Yamaha Corporation, Electric Guitar Owner’s Manual, “RM-Pro II / III” and “Bridge/Spring Tension Adjustments,” pp. 8–10. Official PDF: [usa.yamaha.com \(guitar\\_manual.pdf\)](http://usa.yamaha.com/guitar_manual.pdf).
5. Jescar Music, “Fret Wire Specifications” and “Jescar Fret Wire 47104.” Official product references: [jescarmusic.com](http://jescarmusic.com).
6. Floyd Rose, “Original Tremolo System” and “Troubleshooting Tips.” Official technical references: [floydrose.com](http://floydrose.com).
7. Ibanez, official Edge tremolo manual index and EJK1000 intonation-adjuster reference. Official references: [ibanez.com](http://ibanez.com).

### Record conventions

- OEM specification means the value appears in the supplied Yamaha Pacifica 921 model reference.
- Service measurement means a value supplied directly in the shop record; no photographic estimates were used. Before/current values remain distinct from unmeasured items.
- Photographically documented means the stage or condition is visible in the supplied image set.
- General technical reference means professional guidance not asserted as a model-specific Yamaha factory specification.

**UPDATED** Document updated July 22, 2026 from the supplied service package and dated shop work log. Service period: July 17–22, 2026. Technician: Jeff Russell.