

PEDALS

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- Types of pedals and mechanisms
 - Grands
 - Functions
 - Sustain pedal
 - Sostenuto pedal, rod, tabs
 - Shift pedal connections
 - Parts
 - Trapp box
 - Lyre
 - Rods
 - Levers
 - Dowels
 - Pivot points
 - Uprights
 - Levers
 - Wooden levers
 - Metal levers
 - Cables
 - Springs
 - Heavy-duty coil
 - Standard curved spring
 - Flex support
 - Brackets
 - Wooden blocks
 - Teflon tabs
 - Metal feet
 - Rods & Dowels
 - Square, round
 - Dowel supports & guides
 - Pins vs. holes for securing dowel ends
 - Functions
 - Sustain
 - Quiet
 - Practice Bar
 - Accessories
- Troubleshooting
 - Questions to Ask
 - Who?
 - Who installed/designed this?

- Who uses it?
- Who has issues with it?
- Who called you?
- Who else might know how to fix this if you don't know?
- What?
 - What kind of pedals are they?
 - What is the issue?
 - What caused this to occur?
 - What will it take to repair it?
 - What else is being affected?
- Why?
 - Why is it not working properly?
 - Why was it constructed this way?
 - Why did this happen?
- When?
 - When does this happen?
 - When does it stop?
 - When did the customer first notice it?
 - When was the piano built?
 - When does the project need to be completed?
- Where?
 - Where is the source of the sound?
 - Where is the friction?
 - Where is the pivot point?
 - Where are the parts to fix it?
 - Where must this repair happen: on site or in the shop?
- How?
 - How did it get this way?
 - How is this related to the other parts?
 - How can this be repaired in the most durable, efficient and economical way?
 - How can I best show the customer what is happening
- Sounds
 - Squeaks
 - Lubricate
 - Separate
 - Cushion
 - Clicks & Rattles
 - Install missing felt or leather
 - Remove material, sand, or otherwise separate the contacts
 - Pad the area being struck
 - Move or space the parts to avoid their contacting each other
 - Re-bush the contact holes
 - Add tubing

- Groans
 - Lubricate
 - Replace
 - Knocks
 - Tighten screws
 - Bed the key frame
 - Add felt
 - Replace parts
 - Whoosh
 - Isolate what is rubbing
 - Lubricate
 - Sand to increase clearance
 - Replace springs, or re-felt spring grooves
 - Trim damper tips
- Problems
 - Out of adjustment
 - Stripped support screws
 - Worn bushings or swivel holes
 - Broken pedal
 - Missing parts
 - Broken bracket
 - Out of alignment
 - Binding or rubbing
 - Weak spring
 - Wrong angle
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- Repairs
 - Trapp box
 - Rod & dowel guides & end points
 - Cracks, splits, bends
 - Felts, cushions, bushings
 - Lubrication
- Adjustments
 - Grands
 - Damper lift uneven
 - Sostenuto tab engagement
 - Shift lever not far enough or too far
 - Lost motion
 - Lateral slop
 - Uprights
 - Lost motion
 - Lateral pedal movement
 - Repositioning alignment
 - Shim or dowel stripped screw holes