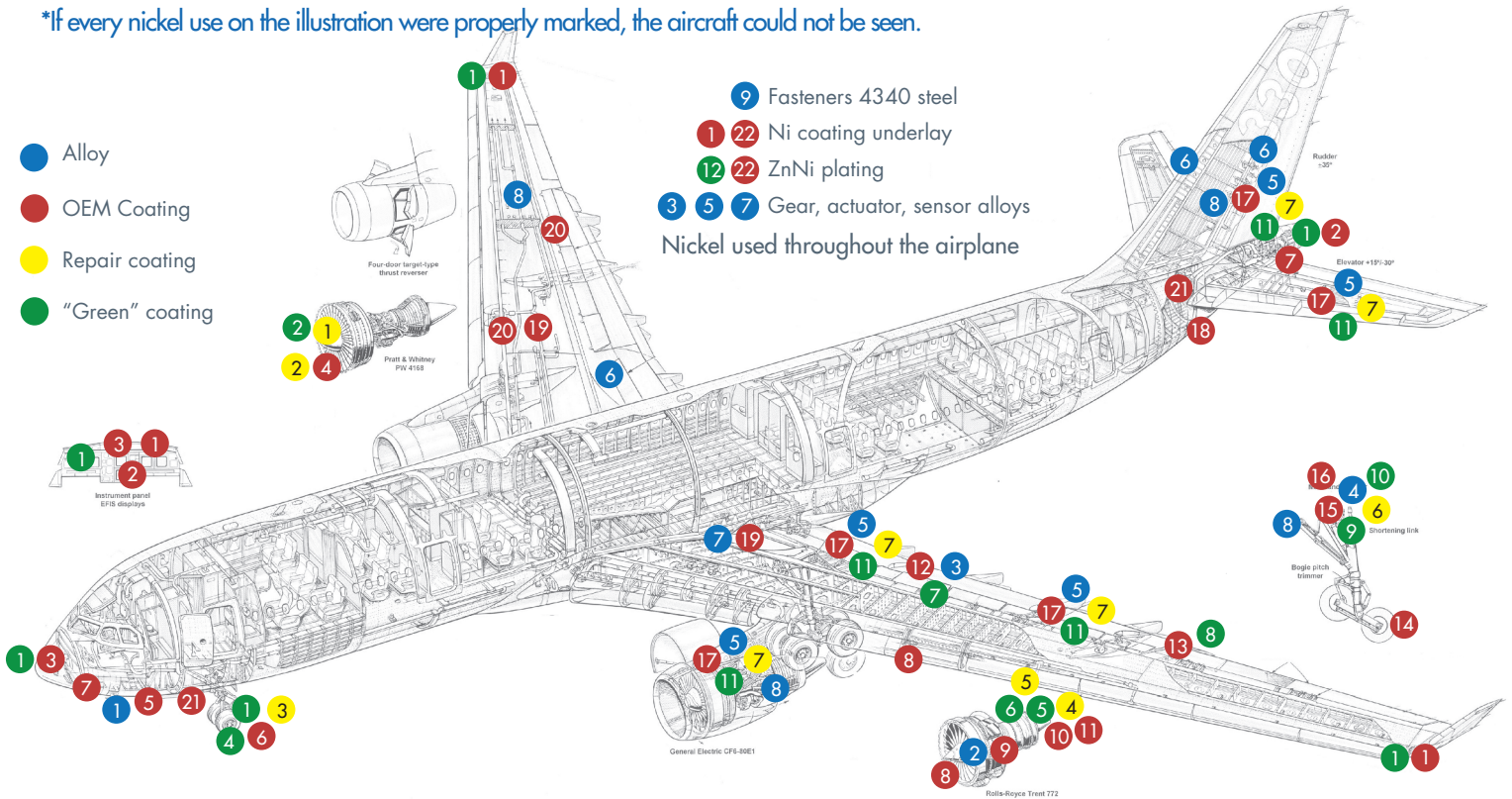


\*If every nickel use on the illustration were properly marked, the aircraft could not be seen.



## OEM Coating

1. Ni plate under Cd on Al electrical connectors throughout – thousands
2. Electroless Ni-PTFE and ZnNi replacing Cd on connectors
3. Ni plate under gold plate on all connector pins – thousands
4. Ni anti-seize on threads
5. Ni alloy or Ni plated pitot tube
6. ZnNi plating for corrosion protection
7. Ni plated Cu wiring for corrosion protection
8. Electroless Ni on bearings for wear
9. NiCrAlY on turbine blades to bond TBC
10. Electroless Ni and electroplated Ni on critical rotating parts and shafts for wear and corrosion
11. Replate for repair
12. ZnNi on bearings for corrosion
13. EN for wear and corrosion – hundreds
14. Ni plated brake disks
15. Electroless Ni for pin internals
16. ZnNi plate replacing Cd on externals
17. Electroless Ni internal coatings
18. Ni plating on Aluminum on Flight recorder "Black box"

19. Electroless Ni on Hydraulic pumps, valves
20. Electroless Ni on Gears and bearings
21. Ni plated Al on avionics boxes, dozens
22. ZnNi plated fasteners

## "Green" Coating

1. Electroless Ni-PTFE and ZnNi replacing Cd on connectors
2. Stainless steel thermal spray
3. ZnNi plating for corrosion protection
4. ZnNi plating for repair
5. Electroless Ni and electroplated Ni on critical rotating parts and shafts for wear and corrosion
6. Replate for repair
7. ZnNi on bearings for corrosion
8. EN for wear and corrosion – hundreds  
Electroless Ni for pin internals
9. ZnNi plate replacing Cd on externals
10. Electroless Ni internal coatings
11. ZnNi plated fasteners

## Repair Coating

1. Stainless steel thermal spray
2. Ni anti-seize on threads
3. ZnNi plating for repair
4. Electroless Ni and electroplated Ni on critical rotating parts and shafts for wear and corrosion
5. Replate for repair
6. Sulfamate Ni for landing gear repair
7. Rod repair – hundreds everywhere

## Alloy

1. Ni alloy or Ni plated pitot tube
2. Engine – Ni based superalloys
3. Gear steel (9310)
4. 300M high strength steel with Ni
5. PH Stainless steel actuator rods
6. Stainless steel sensors
7. Hydraulic pumps, valves
8. Stainless steel hydraulic tubing
9. Fasteners 4340 steel everywhere