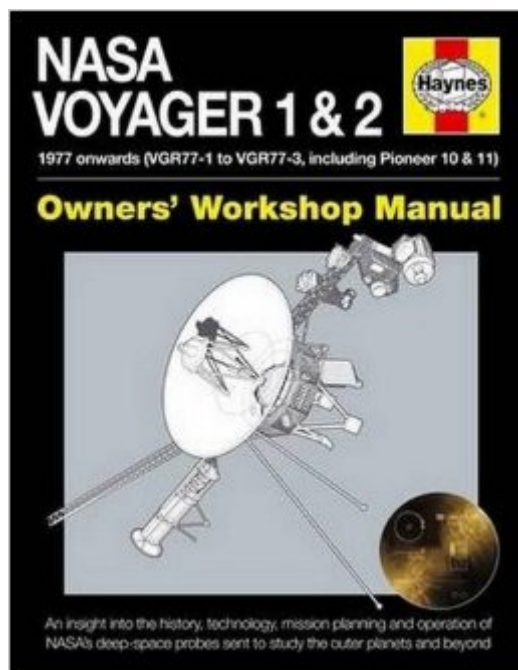


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# **NASA Voyager 1 & 2 Owners' Workshop Manual - 1977 Onwards (VGR77-1 To VGR77-3, Including Pioneer 10 & 11): An Insight Into The History, Technology, ... Sent To Study The Outer Planets And Beyond**



## Synopsis

Voyager 1 has recently crossed the boundary of our solar system and passed into interstellar space, and Voyager 2 is likely to follow suit, on a different path, between 2016 and 2017. The two Voyager probes will continue to transmit details of discoveries beyond our solar system until at least 2020.

## Book Information

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## Customer Reviews

Haynes' "Workshop Manual" series has always been a little inconsistent, and this one is no different. As the third book Christopher Riley has co-written for Haynes, it's better than the disappointing Apollo 11 manual, but not quite as good as the excellent Lunar Rover manual. This book follows the previously established Haynes format, and fits in nicely with the other Real Space manuals they've published the last few years. As usual, this manual is fairly equally divided up into technical, scientific, and historical sections. The first quarter provides some interesting background material on NASA's earlier unmanned deep space probes, the evolution of the "Grand Tour" flight plan, and the Voyagers' somewhat tortured development history. The next chunk, about 70 pages, provides a technical overview of the spacecraft and it's systems, including each of the 11 science instruments, electrical power and communications, the Titan launch vehicles, and the computer and data storage systems. The next quarter is a technical and scientific look at both spacecraft's journey through the Solar System, focusing on some of the technical problems which had to be overcome, and some of the important discoveries from planetary fly-bys. The last section covers the Voyager

Golden Records, including a description of how to play the record, and a description of each sound, photograph, music piece, and spoken message, found on the records. Finally, there's a brief epilogue describing how both spacecraft continue to operate to this day. What's here is very nicely presented, but once again, I feel like Haynes has slightly dropped the ball on a potential masterpiece. The photographs and technical diagrams are generally of excellent quality, and add greatly to the book's text.

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