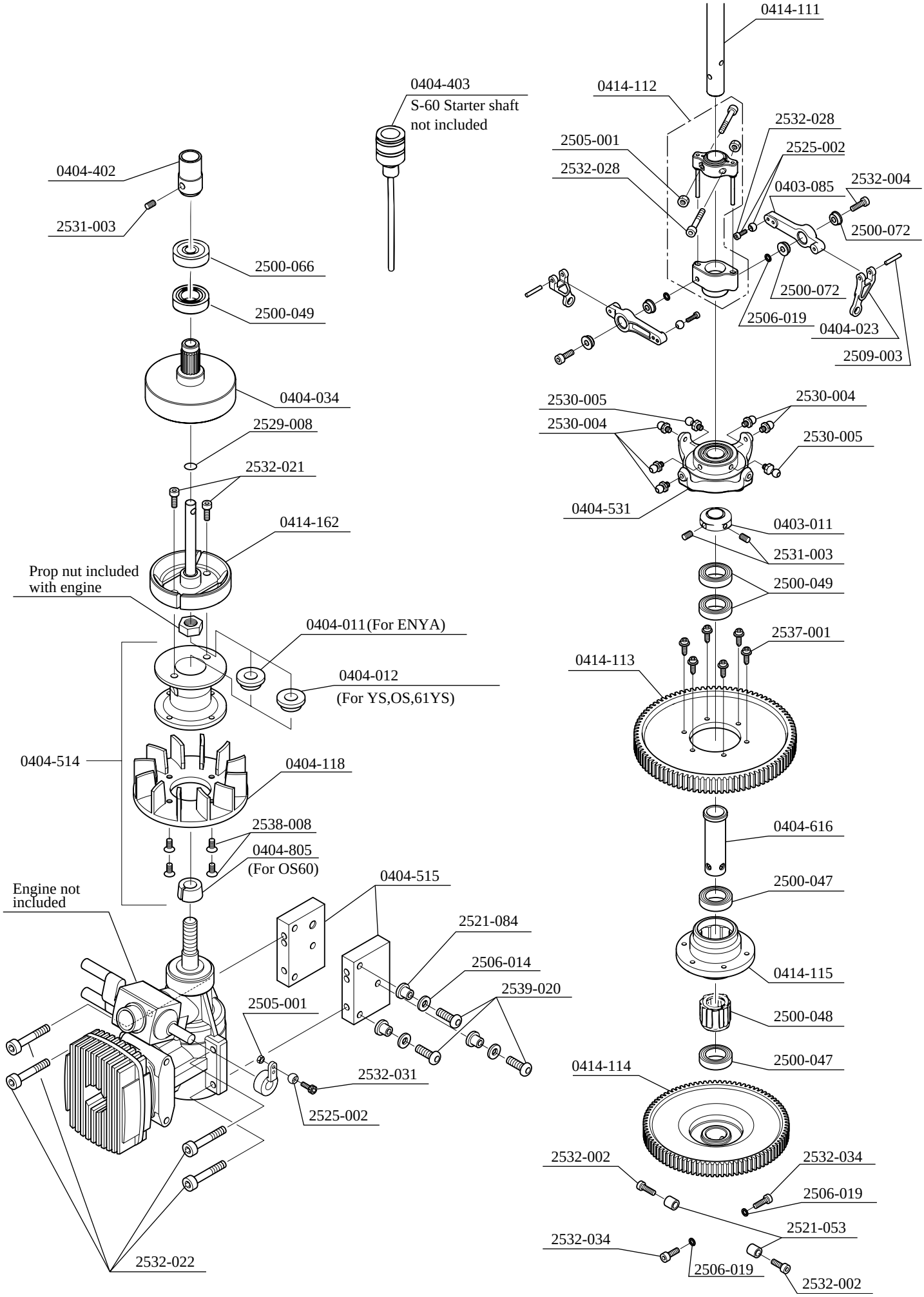

wash-out and engine