Ge cafe refrigerator filter replacement instructions

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Welch, THE chairman of GE. Blunt later recalled a trip by plane. The stakes were that they would not get approval. A few years earlier, the leadership had been almost haughty towards the Japanese; they could never touch the quality or technology of GE. That's changed. The attitude now is that the Japanese have become a production of geniuses. Why try to beat them when you can borrow from them? Or buy? It was Blunt's first time in the Fairfield boardroom. The room was almost empty when he filed into the Louisville people did their job. Jack poked us three or four times, Blunt recalls. The Chairman then asked his colleagues their opinion. Some said they doubted it could be done. Welch looked at Blunt. Why should I believe you people can build a factory to do this? He asked. You've never done anything like this before. No one ever asked us, Blunt said. And I think we can do that. Welch nodded and addressed Ed Hood, GE's vice chairman and one of his most trusted technical advisers. Blunt watched as he pulled out Hood's comfort level. Blunt was counting on three things. Welch, in his opinion, believed in Shipke's new management team. He saw figures showing that the plant could do it If the technology works. Finally, finally, wanted to keep basic appliances as a core business for GE and was concerned enough about Louisville's slide to know that only a major investment could turn things around. Welch returned to Shipka, Truscott and Blunt. OK, he said. Forward. Keith Moore, recently transferred from the GE lighting business in Cleveland, was in charge of the launch. This initially meant upgrading an old Columbia, Tennessee air-conditioned compressor plant with new processes developed by Blunt's engineers. Moore's men soon discovered that it was easier to develop a new process than to make it work. Supplier warnings were correct. At first, GE couldn't get the equipment to do what Blunt's engineers wanted. It took endless hours of debugging and hundreds of changes on each machine. The necessary tolerances were so extreme that even the smallest slippages could throw away the whole process. Ultimately, GE had to develop new measurement and sensing systems to force the machines to instantly adjust how they worked. Equipment deliveries were 2 months late at the start and up to 14 months later at the end. Management found it difficult to run this process from Louisville, 200 miles away, so GE rented 22 apartments in Columbia to train engineers. The company even launched a daily air shuttle between the two cities so that laboratory results could be delivered from Louisville and test observations could be delivered back from Colombia. By October 1985, GE had finally begun the first phase. The old factory started producing a new compressor - first 5 a day, then 10. By the 5th month, it was down to the volume of production, with the quality of the holding just fine. But if GE succeeds in the second phase by forcing the new fully automated plant to operate, it will have to face another challenge, no less important than improving the equipment: improving its workforce. A country with high wages cannot compete with the best technology; other weapons should be better trained labor. Can MABG create that in a place like Columbia, Tennessee, where the biggest annual Mule Day holiday is? GE knew it would have to try. Hiring high-wage technicians from all over the country was too expensive. At \$17 an hour-benefits included-the new plant can still beat the competition, but not at \$25 or \$30 an hour. So GE planned a new plant with assembly people already there, in its Columbia air conditioning complex. Most of them were unqualified. Few had more than higher education. GE has decided to make another big investment: it will build one of the most complex blue-collar training centers ever established at a factory in the United States. The cost would be more than \$2 million, which would have been difficult if GE had not received help from a welcoming partner. Tennessee provided the company with a training grant. But MABG still couldn't afford to pay workers for hundreds additional hours will be required to train them. Therefore, GE asked workers to donate 120 to 400 hours in classrooms, labs and computer stations without pay and without pay a mistake. He worked on an assembly line in Colombia and knew that most people there were conservative souls, fearing something new. They already have safe jobs; what's the point of sacrificing up to a year of nights and weekends without a salary? He guessed that almost no one would volunteer. It took me two weeks to realize that I was completely wrong, Varner said today. I ate a crow. Workers lined up for training. Partly it was because of the prestige GE gave it. Those who went through got diplomas and graduation dinners. But there was another draw, the same one that prompted Varner to apply for a job at the training center. He saw factories across America closing, and knew it was a matter of time before the distant forces put him out of work too. Colombia's old equipment was outdated. They couldn't hope to be a part of it. He didn't mind unpaid nights and weekends at the training center. For him, joining the future was a sufficient incentive And, as it turned out, it was enough for hundreds of others. Clayton Russell was one of the first. Russell was hired in 1974 for unskilled assembly work. That's all we had back then, he says. His job is to put four screws in the rear body of the air conditioner-712 once a day. Gloria Anthony started that year, also on the line. Monotonous work, she says. Over and over and over again. Then the construction of a new plant began. To be a part of this, they would have to put in hundreds of hours of training, all on their own time. Never mind. They attended training in the morning, at night, on weekends. Whenever we had a chance, Russell says. Dan Edlin, another lineman, landed 400 hours. Like others, he was motivated more than the chance of a bigger salary. I wanted to be able to be on something completely new, he says. That's where the business goes -automation. Was there any discontent that automation would cost jobs? Cars don't hire people, he says. Machines create new jobs. Anyone who wants to get out of his duff and train can have one. In the first year of the center, GE Columbia employees spent more than 50,000 hours learning new skills. Paul Varner has learned a lesson: Give american workers a chance, and they will sacrifice for it. From Welch down, they said: You can do it, Varner. We wanted to their faith in us. Soon Keith Moore faces the following task: moving production from a converted air conditioning plant to a new factory. He knew that making a newly completed plant perfect would mean thousands of adjustments. Thus, from the very beginning, he held meetings with workers and engineers, sitting shoulder to shoulder to discuss improving quality and efficiency. Moore was just as likely to reorganize part of the plant at the suggestion of an assembly worker as an engineer. And soon he received an unexpected reckoning from the extension of responsibility through the ranks. In the past, even if the little thing went wrong, linemen had to call the supervisor to solve it. Now they've fixed it themselves. Part of it, Moore says, is learning: they know what to do. But they also feel they own their part of the factory, making it run at them rather than their bosses. Moore also received workers involved in writing training manuals for equipment. He figured that if they were to teach techniques, they would get to know them better themselves. Finally, he forbade finger pointing. Moore has seen workers blame each other before when something went wrong. Therefore, he announced that any failure would be considered by the whole team. Thus, Moore realizes how important it was to maintain camaraderie. Frustration could easily spiral out of control. Late delivery is a backup schedule. Processes that worked in the lab often failed on the factory floor. There were late nights and sometimes 7am. Sunday morning meetings. But they did it; The plant opened on schedule in March 1986. Both production and quality went smoothly, although inevitably there were mistakes. Having a older plant to occasionally fall back on was a blessing. GE admits that it had to pour in more investment than expected, which happens when you push the edges of technology. But the plant works, exceeding the quality and cost targets. Ask Moore to point out one thing that did this, and he won't mention the equipment; he says it is the freedom he gave his employees. We have provided people with the tools to work in the factory. The celebration was short-lived. In January 1988, 22 months after the first compressors - those in GE's large refrigerators - have started working. It was only a small percentage of the total production of the plant, but for a consumer product like this, reliability is important and therefore customer satisfaction. immediately formed a team of design engineers to find out what was going wrong. The team worked for weeks, often all night. Night. the fact that only a small fraction of the compressors actually failed to make the job particularly difficult. But based on these few, engineers went into a massive testing program and found that others may fail too. The team soon discovered what had happened: the lubricant problem mostly affects the compressors that were supposed to work the most, but some others didn't too. Eventually Shipke learns that GE was not alone. Japanese companies using rotors faced similar problems. But it was no consolation. Now that the cause has been isolated, finding a fix has become Louisville's obsession. Truscott and some corporate engineers led a new team that had been working on the problem for months. Finally, the team came up with the best design and showed it to Shipke. He was sure it would work and told the team to go forward. Meanwhile, he approved a plan to immediately replace any compressor that broke down - service people will be sent to customers' homes at the expense of GE. Nevertheless, Shipke faced a serious dilemma. Although projections have shown that only a small percentage of compressors will fail, the reorganization of the lubricant device will take months. He didn't want to risk GE's reputation by carrying refrigerators that might have problems. To be as safe as possible, he made a painful choice. In the spring of 1988, he decided that MABG would start a source of reciprocal compressors from abroad, while the engineering team put the fix in place. This would mean layoffs at an old factory in the Columbia complex. And that would mean a high load, since GE had to pay the top dollar for sources and borrow more contracts than necessary. Shipke knew it would probably cost GE a lot less to stay with its rotors and just replace the ones that eventually broke down. But every failure, he feared, would damage the company's reputation. It was more important than today's money. He took some solace in knowing that he could allow the new factory to continue making rotors for many GE refrigerators. He was also relieved that the group would return to full production within a few years. But it was and remains a painful time. The problem of the compressor has caused sharp criticism from both competitors and the press. Some at GE are confused because they had to source. Others are annoyed by how much money the problem costs: MABG's profits in 1988 declined due to a problem with the compressor, which ate years of savings from the rotary program. Still others are angry because this could potentially have been avoided. Early laboratory tests have shown that compressors will last 20 years, but it is clear that the most correct is performance in this area. In hindsight, many MABG executives see a lesson. With a completely new technology, it might be wiser to introduce it develop bugs over several years than convert all production to it immediately. The irony is that more than 90% of GE's investment in compressor and risk-associated at the plant is by far the most complex technological product reviews are part of the price of gambling on new technologies. This happened with fuel-injected car engines, electric razors and microwave ovens when they were first introduced, and now it's with the rotary compressors of the refrigerator. The cost of GE is high. But the payoff is still worth it: here in America, GE continues to make compressors that are 20% cheaper than any dollar-per-hour competition made. Gloria Anthony is now an experienced dispatcher who can control machines using a computer, regulating them whenever the terminal tells her that there is a small problem. I never thought I'd go so high,' she says. When I started, I was just sweeping the floor. Both pride themselves on being part of a factory that makes twice as many compressors as the old one, with less than a quarter of people. Performance, they say, is the only way America can compete. We got the production, Russell says. It's a sense of pride. Edward Fite, director of the training center, guides visitors around Colombia's automated factory with the pride of someone showing off their new home. Overhead, compressor pieces roll down long, winding gutters into machines that stamp, cut and refine; computers direct parts from one machine to another, warning that they are on the way. Machines work and evaluation. There may not be another mass-produced plant in the world that produces goods accurately. Most people stand in front of computer terminals: they are symbols of a new American blue-collar workers how to run a high-tech factory. He sees in people like himself the ultimate mission of a factory like this one - it gives ordinary people a standard of living that goes beyond what they ever hoped for. Tom Blunt will always be a figure from earlier America. I like the sandy stuff, he says. His father was a toolkit, and he proudly traces his origins through 11 generations of factory mechanics. But he knows that the United States can lead the world in factories only by creating a new species. At his desk in Louisville, he leans over a computer terminal and punches a few keys. moving chart chart Screen. He explains that he oversees a factory in Colombia. Sitting in Louisville, how many parts were done correctly, how many should have been set aside for rework. Let me show you something interesting, says Blunt. He punches a few more keys, and then leans back, clasping his hands behind his head. From 7 a.m., he says, we've only had five defective parts today. He presses another button and nods; the computer shows him a chart of the day's tolerances for one of the charred parts. The problem was with one of the grinders that would automate the information system? There is none, says Blunt. Building 4 still stands a few hundred yards from Tom Blunt's office. Only now it's half empty. Even if Colombia hadn't been built, it would've been dead by now. The choice was simple: it would either be replaced by a foreign plant or an American factory; foreign wages or American wages. Despite the setbacks, GE is proud to have decided to go from this side of the ocean. A version of this article appeared in the March-April issue of Harvard Business Review for March-April 1989. Reviews.

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